



YPF

SUSTAINABILITY REPORT 2022



AGENCIA

NAFTA

YACIMIENTOS PETROLIFEROS

FISCALES

INDEX

MESSAGE FROM THE PRESIDENT	3	RESILIENCE TO CLIMATE CHANGE	34	07. SHARED SOCIAL VALUE	68
		LOWER CARBON OIL AND GAS OPERATIONS	36	OUR SHARED SOCIAL VALUE	69
MESSAGE FROM THE CEO	4	NEW TECHNOLOGIES AND ENERGETIC SOLUTIONS	38	SUPPLY CHAIN	69
		LOWER CARBON AND RENEWABLE ENERGY	40	CIR AND YMPULSO INITIATIVES	71
YPF IN FIGURES - 2022	5			RELATIONSHIP WITH COMMUNITIES	72
				SOCIAL INVESTMENT, PROGRAMS AND INITIATIVES	75
				FUNDACIÓN YPF	76
COMPANY PROFILE	6	04. SUSTAINABLE PRODUCTION	42		
		ENVIRONMENTAL MANAGEMENT POLICIES AND SYSTEMS	43		
01. ENERGY COMPANY	7	WATER MANAGEMENT	45	08. ETHICS AND COMPLIANCE	80
YPF STRATEGY AND VALUE CHAIN	8	BIODIVERSITY MANAGEMENT	47	ETHICS AND INTEGRITY	81
VALUE CHAIN AND BUSINESS SEGMENTS	10	WASTE MANAGEMENT	49	MANAGEMENT AND COMPLAINTS INVESTIGATION	83
CORPORATE STRUCTURE AND CORPORATE GOVERNANCE	11	SITE CLOSURE AND RECOVERY	50	FOCUS AGAINST CORRUPTION	84
RISK MANAGEMENT	13	AIR QUALITY AND AIR POLLUTION NEAR POPULATED AREAS	50	LEGAL AND REGULATORY FRAMEWORK	84
INNOVATION: Y-TEC	16			FINANCIAL AND FISCAL TRANSPARENCY	87
DIGITAL TRANSFORMATION	17	05. HEALTH AND SAFETY	51		
CUSTOMER EXPERIENCE	18	OHS POLICIES AND MANAGEMENT SYSTEMS	52	LEGAL NOTICE	88
ENVIRONMENT, PERFORMANCE AND ECONOMIC IMPACT	19	SAFETY OF PEOPLE	53		
		SAFETY PERFORMANCE	55	ABOUT THIS REPORT	88
		HEALTH AND PREVENTION	55	APPENDICES	89
02. COMMITMENT TO SUSTAINABILITY	20	INCIDENT READINESS AND RESPONSE	57	APPENDIX B	122
SUSTAINABILITY STRATEGY AND MANAGEMENT	21	CYBERSECURITY	58	GRI STANDARDS	125
STAKEHOLDER DIALOGUE AND MATERIAL TOPICS	23			SASB STANDARDS	138
MATERIALITY ASSESSMENT	24	06. PEOPLE	60	TCFD INDEX	142
HUMAN RIGHTS	27	OUR TEAM	61		
		DIVERSITY AND INCLUSION	61	EXTERNAL REVIEW REPORT	144
03. CLIMATE ACTION	29	ATTRACTION AND RETENTION OF TALENTS	63		
CLIMATE CHALLENGE AND ENERGY OUTLOOK	30	DEVELOPMENT OF HUMAN CAPITAL	65		
ROAD MAP TO CLIMATE CHANGE	33				

MESSAGE FROM THE PRESIDENT

I am pleased to present our 2022 Sustainability Report, an exercise that allows us to provide information to our interested public regarding YPF's performance in the economic, environmental and social dimensions of the previous period in a transparent and organized way.

On June 3, 2022, YPF celebrated its 100th Anniversary of services in Argentina, providing the country and its citizens with energy production for their economic and social development. Currently, over 64.000 people, between direct employees and contractors, make up our YPF team, and we still lead Argentina's energy sector. We also continue to undertake the challenge of driving the energy transition in both the country and the region as a company with a most diversified model, and a focus on integrity and professional ethics.

Thanks to our human capital and the strategic guidelines defined by our Executive Board, the company showed an inter-annual 47.1% production increase of crude oil and a 33.2% of gas. Between the first quarter of 2021 and December 2022, the non-conventional gas production increased 100%, representing an important growth for our company.

“Argentina possesses 170 years of gas reserves for the current consumption levels and sufficient oil reserves to respond to internal demand, therefore we are convinced that this development must have a sustainable focus, with a strategic long-term view guaranteeing a quality of life for future generations.”

These results are an essential contribution to the country's economic growth and respond to citizens' increasing energy needs. In addition, as gas is the ultimate transition fuel, we can move forward in alignment with Argentina's decarbonization plan.

The joint work with Petronas to develop an integrated LNG project is an excellent opportunity to monetize the potential of Vaca Muerta's natural gas field, which represents the second-placed shale reserve in the world and could become the largest infrastructure facility over the last 50 years in Argentina.

One of the year's most important steps was expanding exploration in a variety of portfolios, within which the offshore business is being viewed for future development, with the possibility of becoming an exporter country. The project's progress was framed within an open consultation process that reinforces our commitment to environmental and social responsibility towards all the actors involved.

Our 2022 financial results have achieved historical levels with an adjusted EBITDA of almost US\$ 5 billion and a related EBITDA-debt by 1.2 times over, generating a profit of more than US\$ 2,200 million. The 155 points increase in YPF's shares on the New York Stock Exchange points to an important sign of recovered trust in the company, allowing us to continue progressing with new financing for our energy plan.

In YPF we are committed to the strengthening of energy efficiency, to the low carbon operations and to the development of more sustainable energy alternatives, with the object of guaranteeing a competitive and participative business model in energy transition.

We are conscious of the value of innovation and the development of renewable energy, with technologies that lead these to be safe, accessible and sustainable for all.

We continue to work with the scientific world, with a regional and national reach through Y-TEC, a top level research center that has been operating for ten years. In this sense, we continue to



invest in R&D in order to increase our development capability for new solutions to generate cleaner energy.

I encourage you to read the detailed account of our 2022 performance and learn how we propose to move forward in achieving our goals.

Pablo González
President YPF S.A.

MESSAGE FROM THE CEO

Starting from the excellent results in 2022 in economic and financial terms, leveraged on the efficiency we achieved in the development of resources focused on Vaca Muerta, we became a competitive company at the level of the best in the world in shale development.

The production increase has reached record levels in YPF's recent history, whereby it is at its largest organic growth over the last 25 years.

Having designed a sustainable business plan focused on the adequate growth levers has been very relevant, as these results have given us credibility at a market level, i.e., we fulfilled what we had announced we were going to do, and this should make us proud, taking into account that it is a shared achievement by all of us who form part of YPF.

Expanding the oil transport system will allow us to reach the ports for exports, and additionally, the deployment of business opportunities will allow us to monetize natural gas from the Neuquén basin with the LNG project.

“In YPF we have a firm commitment to the sustainability of our products and operations, and to fulfilling the strategic goals established in our energy transition plan towards 2050, which considers a monetization of oil and gas in the short and medium terms, and the development of renewable energy in the long term.”

In the long term, we visualize the offshore business as an excellent opportunity, as the development of shale will be in the Palermo Aike resource in the south.

We are aware of the impact of the industry on climate change. We have established our plan on three essential pillars: the monetization of our oil resources with a low carbon footprint; the monetization of our gas resources, leading to eliminating the most contaminating emissions of fossil fuels in the region; and the development of a new renewable energy scene in Argentina.

In terms of sustainability, there are relevant points we always aspire to, as the focus of working on health and safety that is part of a daily and permanent job in our industry, one which we cannot ever neglect at any time or on any level. Although we continue to reinforce trainings in terms of health and safety, within a model of continued improvement, our initiatives are related to seeking support through artificial intelligence technological solutions, allowing us to lower the risk in our jobs.

In terms of diversity and inclusion, we continue to work and fulfill the goals we have proposed in this area. We have performed a very strong task towards diversity, promoting women to leadership positions. The new generations understand the reality regarding more inclusive views, and we need to offer the conditions to include more women not only in leadership positions but also to create the basis so that our future organization is more balanced in terms of diversity.

Water, as our natural capital, is an essential resource for all people, especially for our industry. We work with the highest standards to preserve the quality of our effluents and to limit water collection to an operative minimum, and therefore diminish the impact of the activity in our operations.

In 2022, we approved a new Human Rights and Community Relationships Policy, acknowledging the commitment to the people who work directly with us and to the companies providing services, to business partners and interested parties who share



our commitment to human rights, safety, diversity and equality, ethics and compliance, and to the communities who live in the influence zones of our activities; this document has been included in the general contract clauses and our links with suppliers.

Pablo Iuliano
CEO of YPF S.A.

YPF IN FIGURES - 2022

SUSTAINABILITY REPORT 2022

MESSAGE FROM THE PRESIDENT

MESSAGE FROM THE CEO

YPF IN FIGURES - 2022

COMPANY PROFILE

01. ENERGY COMPANY

02. COMMITMENT TO SUSTAINABILITY

03. CLIMATE ACTION

04. SUSTAINABLE PRODUCTION

05. HEALTH AND SAFETY

06. PEOPLE

07. SHARED SOCIAL VALUE

08. ETHICS AND COMPLIANCE

LEGAL NOTICE

ABOUT THIS REPORT

APPENDICES

EXTERNAL REVIEW REPORT



FINANCIAL PERFORMANCE

AR\$ 2,526,466 M

SALES REVENUE
+99% VS. 2021

AR\$ 617,673 M

EBITDA
+69% VS. 2021

AR\$ 290,264 M

FISCAL YEAR RESULT
360% VS. 2021

AR\$ 1,858,304 M

TOTAL SHAREHOLDERS' EQUITY
+119% VS. 2021



UPSTREAM

503.3 K BOE/D

TOTAL HYDROCARBON PRODUCTION
+7% VS. 2021

226 K BBL/D

OIL PRODUCTION
39% PARTICIPATION IN ARGENTINA'S OIL PRODUCTION

247.6 K BOE/D

UNCONVENTIONAL PRODUCTION
49.2% OF YPF'S TOTAL HYDROCARBON PRODUCTION

1,187 M BOE

TOTAL PROVEN RESERVES
+4% VS. 2021



DOWNSTREAM/ GAS AND ENERGY

328 K BBL/D

REFINING CAPACITY
50% ARGENTINE MARKET

13,713 M M³

NATURAL GAS SALES
+9% VS. 2021

1,658

GAS STATIONS
32% ARGENTINE MARKET

10,150 GWH

ELECTRICITY PRODUCED
7% OF THE TOTAL DEMAND IN ARGENTINA



CLIMATE ACTION

11.8 M TC02E

SCOPE 1 +2-YPF -8% VS. 2021

70,359 T

METHANE EMISSIONS -44% VS. 2021

0.25 TC02E/PROD. UNIT

INTENSITY SCOPE 1 GEI YPF
-16% VS. 2021/-34% VS. 2017

15 CO2E/BOE

INTENSITY SCOPE 1 NOC
-25% VS. 2021

675,878 MWH

RENEWABLE ELECTRIC POWER CONSUMED
+13% VS. 2021



PEOPLE

22,330

DIRECT EMPLOYEES
+6.6% VS. 2021
21.6% ARE WOMEN

0.32

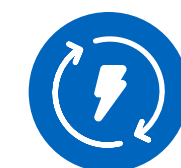
ACCIDENT FREQUENCY RATE (OWN EMPLOYEES AND CONTRACTORS)
-37% VS. 2018

18%

LEADERSHIP POSITIONS HELD BY WOMEN
+10% THAN IN 2021

US\$ 291

EXPENSE PER EMPLOYEE TRAINING
+44% THAN IN 2021



SUSTAINABLE PRODUCTION

699.7 KT

TOTAL GENERATED WASTE
-6% VS. 2021

51,253 T

NOX EMISSIONS
-10% VS. 2021

193,915 MEGALITERS

EXTRACTED WATER (COLLECTED+PROD.)
-5.9% VS. 2021

3%

PRODUCTION AREAS OVERLAPPING VS. SENSITIVE BIODIVERSITY AREAS
+33% VS. 2021



SHARED SOCIAL VALUE

AR\$ 1,421 M

VOLUNTARY SOCIAL INVESTMENT
+56% VS. 2021

+171,000

TOTAL BENEFICIARIES FUNDACIÓN YPF 2022

AR\$ 1,435,455 M

LOCAL PURCHASES IN ARGENTINA
+86% VS. 2021

AR\$ 2,313,364 M

ECONOMIC VALUE DISTRIBUTED (TO EMPLOYEES, GOVERNMENTS, CAPITAL SUPPLIERS, COMMUNITY)
+80% VS. 2021



COMPANY PROFILE

GRI: 2-1

With almost 100 years of history, we are the leading energy company in Argentina. Y.P.F. S.A.'s activities cover the entire oil and gas value chain in the country, including the exploration, production, refining, transport and the sale of its byproducts: fuels, petrochemical consumables, lubricants and agricultural products, among others.

Our company is a leader in unconventional oil and gas resources in Latin America and, in addition, it has a growing business in electricity generation, including the development of renewable energy, through YPF LUZ. YPF's headquarters and almost the totality of their operations are located in Argentina, although there are some activities in other countries of the region.

Our businesses are organized in the following segments: Upstream, Gas and Energy, Downstream and Main Management, and others.

Investors

YPF S.A. is a public limited company with legal domicile in Argentina, subject to the public tender offer regime and the National Securities Commission (CNV) and the United States Securities and Exchange Commission (SEC) control.

Ownership

- 51% Argentine State – Ministry of Economy - Energy Secretariat.
- 49% Buenos Aires Stock Exchange (BCBA) and New York Stock Exchange (NYSE).

VISION

Being a comprehensive, profitable, competitive and attractive energy company for talent, generating affordable and sustainable energy, focused on customers and leading the present and future of energy in Argentina.

VALUES

- We act with integrity.
- We are committed to sustainability.
- We create value.
- We focus on the client.
- We prioritize to safety.
- We value gender equity and respect diversity.

SUSTAINABILITY REPORT 2022

MESSAGE FROM THE PRESIDENT

MESSAGE FROM THE CEO

YPF IN FIGURES - 2022

COMPANY PROFILE

01. ENERGY COMPANY

YPF Strategy and Value Chain

Value Chain and
Business Segments

Corporate structure and
corporate governance

Risk Management

Innovation: Y-TEC

Digital transformation

Customer Experience

Environment, Performance
and Economic Impact

02. COMMITMENT TO
SUSTAINABILITY

03. CLIMATE ACTION

04. SUSTAINABLE PRODUCTION

05. HEALTH AND SAFETY

06. PEOPLE

07. SHARED SOCIAL VALUE

08. ETHICS AND COMPLIANCE

LEGAL NOTICE

ABOUT THIS REPORT

APPENDICES

EXTERNAL REVIEW REPORT

01. ENERGY COMPANY

MATERIAL TOPICS:

- CORPORATE GOVERNANCE
- INNOVATION AND DIGITAL TRANSFORMATION
- CUSTOMER EXPERIENCE
- COST COMPETITIVENESS
- ECONOMIC IMPACT AND LOCAL DEVELOPMENT



YPF STRATEGY AND VALUE CHAIN

GRI: 2-6, SASB EM-EP-000.A, EM-EP-000.B, EM-EP-000.C

The definition of our strategy is aligned with YPF's purpose of being the leading integrated energy company in Argentina, low in costs and carbon emission levels, focused on the production and commercialization of hydrocarbons and derivative products, and on the identification and implementation of projects that will allow us to advance in the energy transition.

We seek to contribute long-term value for our stakeholders and the country, taking into account our corporate composition and role as the largest company in Argentina, and managing the main social, environmental and economic dimensions of YPF's

activities. The investment plan associated with this strategy may require reinvestment of any profits, collaboration with strategic partners and debt underwriting at conservative levels.

Segments and businesses

The organizational structure is based on the main businesses of the YPF Group, which report to the CEO. Businesses are defined in three main segments, in addition to central administration activities and other activities conducted within the YPF Group that do not fall within the aforementioned business segments.

OUR STRATEGIC PILLARS

Discipline in capital allocation, focusing on the development of our non-conventional hydrocarbon resources, in which we enjoy competitive advantages that allow us to generate value with sustainability.

- **Cost and process efficiency** in all business segments, particularly in the Vaca Muerta field, in order to ensure its resilience even in low price scenarios.
- **Rationalization of conventional asset portfolios**, prioritizing profitability with the use of technology and innovation to gain efficiency.

- **Refinery adaptations** to increase shale processing capacity and evolve fuel quality in line with customer expectations.

- **Reduction of the company's scope 1 and 2 CO₂ emissions** and development of renewable energy through our participation in YPF LUZ, as part of our commitment to sustainability.



SEGMENTS AND BUSINESSES

MAIN MAGNITUDES

SEGMENTS AND BUSINESSES	MAIN MAGNITUDES
<p>Upstream</p> <p>This segment performs all activities related to the exploration, exploitation, development and production of oil and natural gas and earns its revenues from the sale of oil produced to the Downstream segment and, marginally, from its sale to third parties, and from the sale of natural gas produced to the Gas and Energy segment.</p> <p>The segment is divided into the Conventional Upstream VP and the Non-conventional Upstream VP.</p>	<p>99 Concessions in productive watersheds in Argentina (all onshore)</p> <p>1,154 Shale production wells operated</p> <p>38.8% Participation in the country's oil production</p> <p>33.2% Participation in the country's gas production (including LNG)</p> <p>17 Exploratory blocks (13 onshore, 4 offshore)</p>
<p>Downstream</p> <p>The Downstream segment performs activities related to oil refining and petrochemical production, the marketing of refined products and petrochemicals obtained from these processes, and logistics related to oil transport to refineries and the transport and distribution of refined products and petrochemicals to be marketed in the different sales channels.</p> <p>It earns revenues and markets its products through the Retail, Aviation, Industry, Agro, LPG, Chemical, International Trade and Transportation, Lubricants and Specialties, and Company Sales businesses.</p>	<p>3 Industrial complexes</p> <p>328 kBBL/d Refining capacity</p> <p>285.5 kBOE/d <i>Oil refining intake</i></p> <p>87% Refinery processing level</p> <p>55.5% Share of liquid fuels market in Argentina</p> <p>1,658 YPF-branded service stations</p>
<p>Gas and Energy</p> <p>Gas and Energy segment coordinates activities related to the integrated natural gas business with sales to third parties and the downstream segment; the commercial and technical operation of LNG regasification terminals in Escobar and Bahía Blanca; the conditioning and processing of natural gas; natural gas distribution; natural gas separation; and conventional thermal electric power and renewable energy generation with its investments in associates and joint ventures.</p> <p>In January 2022, assets related to the transport, conditioning and processing of natural gas for the separation of gasoline, propane and butane previously managed by the Upstream segment were grouped into the new Midstream Gas CGU within the Gas & Power segment.</p>	<p>13,713 M m³ Natural gas sold</p> <p>29.0% Argentine gas market share</p> <p>10,150 GWh Electricity purchased from YPF LUZ</p> <p>3,091 MW power generation installed capacity</p>

VALUE CHAIN AND BUSINESS SEGMENTS

GRI: 2-6

REFERENCES

- OIL AND OIL PRODUCTS
- LIQUID FUELS
- NATURAL GAS
- ELECTRIC POWER

1. NEW ENERGIES. GAS AND ENERGY VP
YPF Energía Eléctrica S.A. Development of wind and solar energy projects and increased natural gas production to replace fuel oil or diesel power generation.

2. EXPLORATION CONVENTIONAL UPSTREAM VP
Search and identification of new oil and gas reserves.

3. DEVELOPMENT UPSTREAM VP (CONV. + NOC)
Preparation for production in areas where oil and gas reserves have been incorporated. This includes the definition of the type of development and investment levels.

4. PRODUCTION UPSTREAM VP (CONV. + NOC)
Conventional and non-conventional oil and gas natural resources recovery through extraction processes. YPF is the leader in oil and gas production in the country.

5. INNOVATION AND TECHNOLOGY (Y-TEC) SERVICES VP
Strengthening of Y-TEC, a leading company in the generation and transfer of innovative technological solutions for a sustainable energy industry.

6. STORAGE AND TRANSPORTATION DOWNSTREAM VP
Use of oil and gas pipelines, vessels and trucks for transportation of crude oil and condensate, dry and liquefied natural gas. And multi-purpose pipelines, ships and trucks to distribute refined products.

7. REFINING DOWNSTREAM VP
YPF refines oil for the production of fuels and oil products (lubricants, inputs for plastics and synthetic materials, agrochemicals and fertilizers) in three industrial complexes: La Plata (Buenos Aires), Luján de Cuyo (Mendoza) and Plaza Huincul (Neuquén).

8. CHEMICAL DOWNSTREAM VP
YPF is the main petrochemical producer in Argentina through two of its own plants: Ensenada (Buenos Aires), Plaza Huincul (Neuquén) and shareholding in Profertil S.A. Bahía Blanca (Buenos Aires).

9. LUBRICANTS AND SPECIALTIES DOWNSTREAM VP
Design, production and sale of lubricants and specialties.

10. RETAIL SERVICE STATIONS DOWNSTREAM VP
A leading fuel and lubricant retailer and convenience store with more than 1,500 service stations nationwide.

11. AGRO DOWNSTREAM VP
Selling diesel oil, lubricants, agrochemicals, fertilizers and providing services to the agricultural sector or small and medium-sized companies through YPF DIRECTO.

12. LPG DOWNSTREAM VP
Fractionation and distribution of liquefied gas for electricity generation for domestic and industrial consumption. Produced in bulk and with bottled gas in cylinders and canisters.

13. INDUSTRIES DOWNSTREAM VP
Provision of energy, supplies and services to the domestic industry

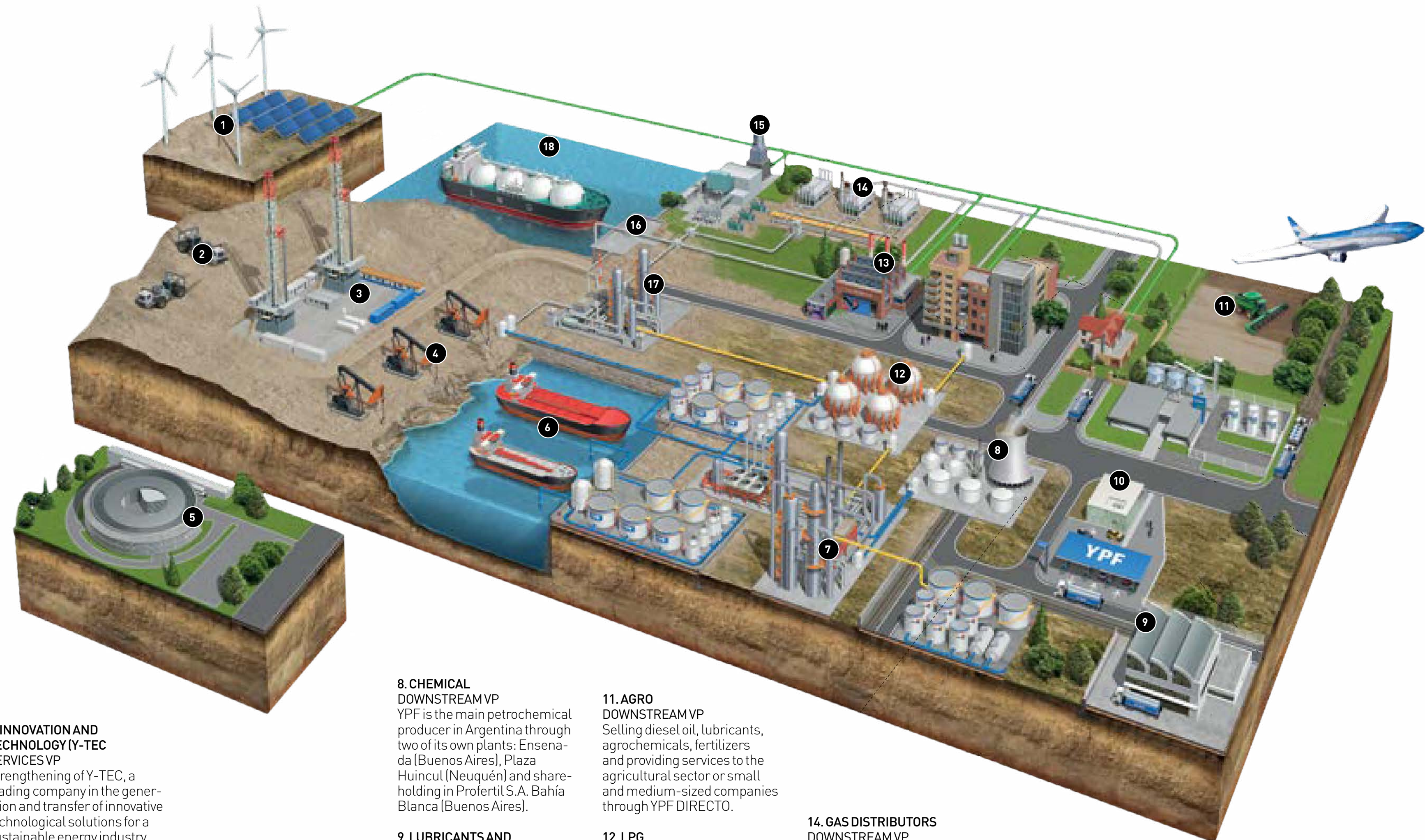
14. GAS DISTRIBUTORS DOWNSTREAM VP
YPF participates in the residential natural gas distribution service through its controlling interest in Metrogas.

15. POWER PLANTS GAS AND ENERGY VP
Supply of natural gas for power generation plants including two of its own complexes, Tucumán Generation Complex and Loma Campana Generation Complex.

16. LNG GAS AND ENERGY VP.
Regasification and distribution of liquefied natural gas in bulk.

17. MIDSTREAM GAS AND ENERGY VP
Processing of produced natural gas, distribution in bulk and through the network to the wholesale market (industries, power plants and gas distributors).

18. DOMESTIC AND INTERNATIONAL TRADE DOWNSTREAM VP
YPF markets crude oil and natural gas condensates, LNG, refined products and petrochemicals relevant to the country's development.



CORPORATE STRUCTURE AND CORPORATE GOVERNANCE

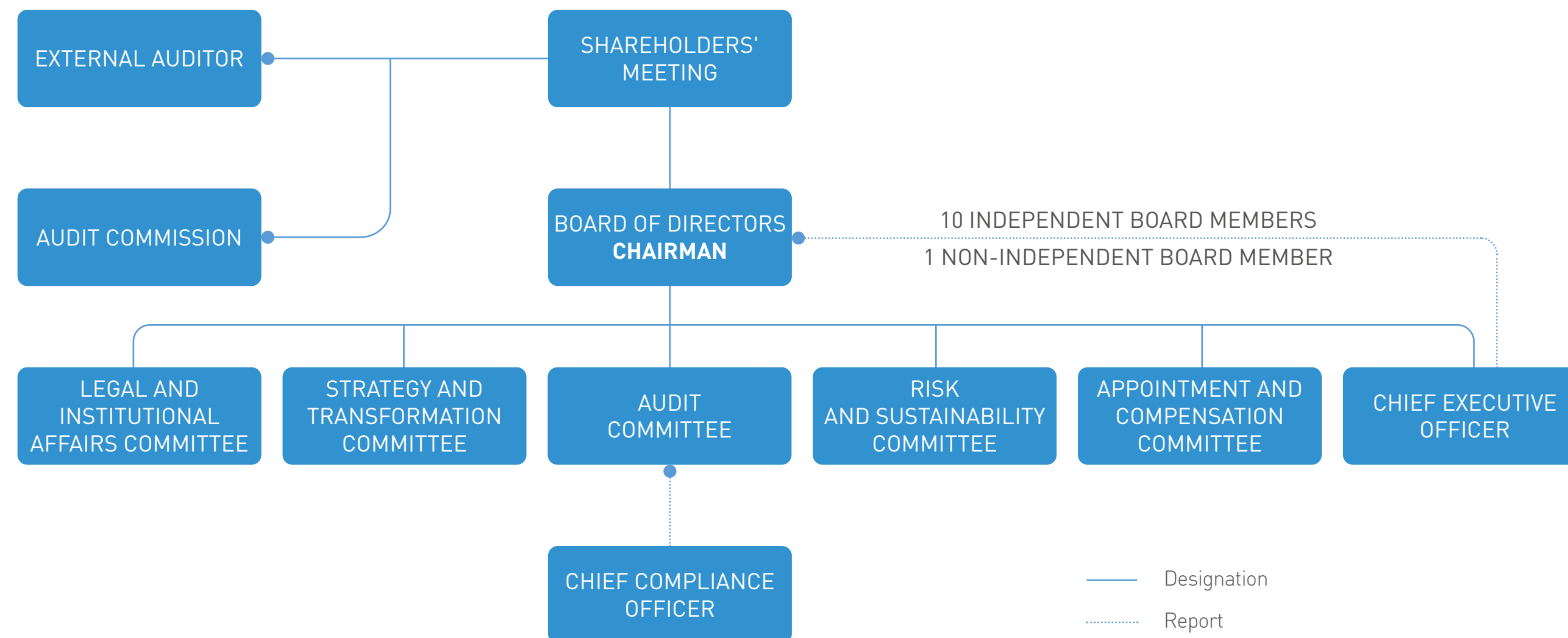
GRI: 3-3, 2-9, 2-10, 2-11, 2-17, 2-18, 2-19, 2-20, 2-26

We have a robust corporate governance system that incorporates the highest national and international standards in this area and allows us to consolidate a responsible business in the economic, environmental and social spheres, within a framework based on transparency, integrity, diversity, and the provision of relevant and timely information to our stakeholders.

Board of Directors

The highest authority of the company, in charge of leading and laying the foundations for its sustainable development. Comprised of 11 regular members, including the president, one of whom is a woman, and nine alternate directors, three of whom are women. The Board of Directors meets monthly and its members hold office for one year, and may be reelected. During 2022, the average attendance was 94.6%.

In accordance with YPF's bylaws and the General Corporations Law, the shareholders elect directors by majority vote, according to the class of shares, at the Stockholders' Meeting. Of all the incumbent directors, including the chairman, 10 are independent and 1 holds an executive position within the company, therefore, he is not independent in accordance with the applicable regulations. For further information, please refer to report 20-F.



ADDITIONAL FUNCTIONS

- Determining and promoting corporate culture and values, ensuring that the highest ethics and integrity standards are observed in the company's best interest.
- Ensuring a strategy inspired by the company's purpose, aligned to its values and culture.
- Exercising control over the company's management, ensuring that management takes actions aimed at implementing the strategy and business plan approved by the Board of Directors.

COMPOSITION OF THE BOARD OF DIRECTORS AS OF DECEMBER 31, 2022

CHAIRMAN

Pablo Gerardo González

REGULAR DIRECTORS

Pablo Aníbal Iuliano (CEO)	Emilio Javier Guiñazú
Roberto Luis Monti	Sonia Elizabeth Castiglione
Norberto Alfredo Bruno	Ramiro Gerardo Manzanal
Horacio Oscar Forchiassin	Celso Alejandro Jaque
Ignacio Perincioli	Demian Tupac Panigo

ALTERNATE DIRECTORS

Gerardo Damián Canseco	María Martina Azcurra
Guillermo Rafael Pons	Santiago Martínez Tanoira
Adrián Felipe Peres	Silvia Noemí Ayala
Silvina del Valle Córdoba	Santiago Álvarez
Miguel Lisandro Nieri	

Board of Directors Committees

The Board of Directors has the number of committees it deems necessary to effectively and efficiently accomplish its mission. These are:

- **Audit Committee:** Provided for by Law 26,831, the rules of the National Securities Commission (CNV) and the rules of the SEC. Supervises the operation of the internal control and accounting system.
- **Strategy and Transformation Committee:** Reviews issues related to YPF's medium and long-term strategy and transformation agenda, covering aspects of excellence and best operating practices in the industry, the commercial agenda, the customer, digitalization and technological renewal, and support areas including cultural change.
- **Risks and Sustainability Committee:** Promotes best practices in sustainability and comprehensive enterprise risk management, proposing objectives, plans, goals that involve regular performance reviews, training and continuous improvement mechanisms, among other functions.
- **Legal and Institutional Affairs Committee:** Oversees management and analyzes the strategy of the main pre-judicial, arbitration and judicial disputes in which YPF is a party.
- **Nominating and Compensation Committee:** Review and approval of the general policies that regulate compensation and benefits, and talent management, in order to ensure the recruitment, development, commitment and retention of YPF's human talent.

Information, training and evaluation of directors

Managers have access to relevant information for decision making through technological means and a risk analysis performed by the relevant areas. The Chairman of the Board of Directors must ensure that the members of the highest body of the company receive continuous training on their responsibilities and other cross-cutting issues. The main topics addressed in 2022 focused on corporate governance, risk, sustainability and compliance.

YPF's Board of Directors once again conducted a self-assessment process for 2022, in order to ensure the effectiveness of directors and the fulfillment of their duties, professionalize their management and align their performance with the principles of the Organization for Economic Cooperation and Development (OECD), the G20, the National Securities Commission (CNV) and national and international best practices, in addition to being a requirement of the Corporate Governance Plus Panel of Bolsas y Mercados Argentinos (BYMA), of which we are members.

The Chairman of the Board of Directors was responsible for its implementation, with the support and coordination of the Corporate Secretary. The results are brought to the attention of the Board of Directors, which may ask the Corporate Secretary to make proposals for improvement. Likewise, the General Shareholders' Meeting has the power to annually evaluate the performance of the Board of Directors.

Remuneration of the Board of Directors

Directors' compensation requires the approval of the General Ordinary Stockholders' Meeting. The Board of Directors' compensation for the year was AR\$ 701 M.

Legal regulations state that the annual compensation paid to directors is capped at 25% of each year's earnings for all items, both for independent directors and for directors who serve as executives of the company, and includes salaries and other re-

SENIOR MANAGEMENT

YPF's most senior executive is the Chief Executive Officer (CEO), who, in compliance with the Company's Bylaws, is a member of the Board of Directors, but may not serve as Chairman of the Board of Directors simultaneously. The Chief Financial Officer and the leaders of the various vice presidencies report to the CEO.

YPF VICE PRESIDENCIES

- Conventional Upstream
- Non-conventional Upstream
- Downstream
- Gas and Energy
- Sustainability and Operational Excellence
- Institutional Affairs, Communications and Marketing
- Legal Services
- People and Culture
- Services

muneration for the performance of permanent technical-administrative functions.

The maximum amount will be limited to 5% of net annual profit if YPF does not distribute dividends to shareholders for that period, and will increase proportionally to the distribution, until reaching the limit of 25% of net profit. When the exercise of technical administrative functions or special commissions by the directors justify payment in excess of the aforementioned limits, such payments must be approved by the stockholders' meeting and specific requirements must be fulfilled for that purpose.

Senior Management

Like board members, front-line executives receive ongoing training on matters related to their duties. In addition to their compensation, set by the Nomination and Compensation Committee, they receive variable compensation associated with the fulfillment of indicators inherent to the company's annual objectives, which include financial, productivity and sustainability goals. One of the company's strategic goals is the Sustainability Index, a tool that allows the continued follow-up of goals made up of: *Accident Frequency Rate (AFR) + Dow Jones Sustainability Index (DJSI) + Reduction of intensity of CO₂e emissions + Diversity with Women in Leadership Position.*

The company also has two committees comprised of top managers:

- **Transparency Committee:** Comprised of senior management and the leaders of the vice presidencies, in addition to the internal and reserve auditors.
- **Ethics Committee:** Comprised of the internal auditor, the corporate vice president of Legal Services, the Chief Compliance Officer, the vice president of People and Culture and two members appointed by the chairman of the Board of Directors from among employees from operational or business areas.

- **Diversity and Inclusion Committee:** Made up of an interdisciplinary team that represents the main cross-cutting areas of the company and ensures transparency and plurality of voices and opinions.

RISK MANAGEMENT

GRI: 2-12, 2-13, 2-23, 2-16

At YPF we have a corporate risk management model, including those related to sustainability and climate change, which is implemented continuously and interdepartmentally throughout the organization, based on the guidelines of the ISO 31000, COSO ERM standards and our Corporate Risk Management Policy. This process involves the commitment of senior management and the Board of Directors, which oversees it through the Risks and Sustainability Committee.

In order to identify, evaluate and manage threats that could impact our goals and strategy, a corporate risk map is consolidated and periodically updated with the participation of YPF's business units and areas, under the leadership of the Risk Management and Insurance Department. The map is built considering the risk appetite and tolerance threshold defined in the Risk Management Standard, based on the level of consequence or impact of the inherent and residual risk scenarios identified by each business unit and/or corporate areas.

Risks are grouped into 4 categories: environmental, strategic, operational and compliance, and within each category, different scenarios are analyzed: financial, operational, climate, fraud, corruption, social, etc. The level of each risk is evaluated considering the combination of exposure, probability and consequence variables, to determine the prioritization for its management and to grant a level of criticality to inherent and residual risks.

This management model is supported by an IT tool implemented throughout the company that makes it possible - in addition to identifying, evaluating and monitoring scenarios - to generate

different types of reports and indicators, activate alarms and coordinate the interactions of the various scenarios. In addition, the projects have a risk assessment conducted using the technique best suited to their nature, size and purpose.

In the case of financial risks, we perform sensitivity analyses in which we evaluate the impact on results and/or cash flows in the event of variations in variables such as the exchange rates, inflation rates, crude oil price, oil and gas production, demand, among others. Regarding non-financial risks, simulations of main loss scenarios on facilities relevant to the company are performed, resulting in the modeling of loss events to establish the maximum expected and probable loss. Environmental sensitivity analyses of the company's pipeline system are also conducted as part of the operation and maintenance environmental studies.

Activities in 2022

In order to promote a risk culture in the organization, in 2022 we held three risk management workshops in which the heads of the businesses and areas participated through their managers, risk owners and other collaborators responsible for risk management. In addition, the second workshop on the identification of emerging risks was held for all the company's risk managers.

As part of the Board of Directors' annual training program, since 2020 the specific training module on Enterprise Risk Management continues to be part of the training provided to its members.

The general training program includes an e-learning course designed by the Risk Management and Insurance Department on fundamental concepts for risk management, available to all YPF personnel. In addition, a training day on industrial risks was held on fire extinction, confined spaces, work at heights and electrical risk, using virtual reality technology, and a seminar on "Insurance and Process Safety" was held as part of the Risk Management Conference.

Main emerging risks

Risk management includes the identification of emerging and long-term risks that may have a significant future impact on the business. For timely risk management and handling of potential impacts on the organization, including those related to sustainability issues, a Risk Management model has been structured, which is executed continuously and interdepartmentally throughout the organization, based on the guidelines of ISO 31000, COSO ERM and our Corporate Policy, from which rules and procedures applicable to the different areas and business units are derived. In addition, an Emerging Risk Mapping process has been implemented throughout the company, which consists mainly of identifying, monitoring and following up on emerging risks.

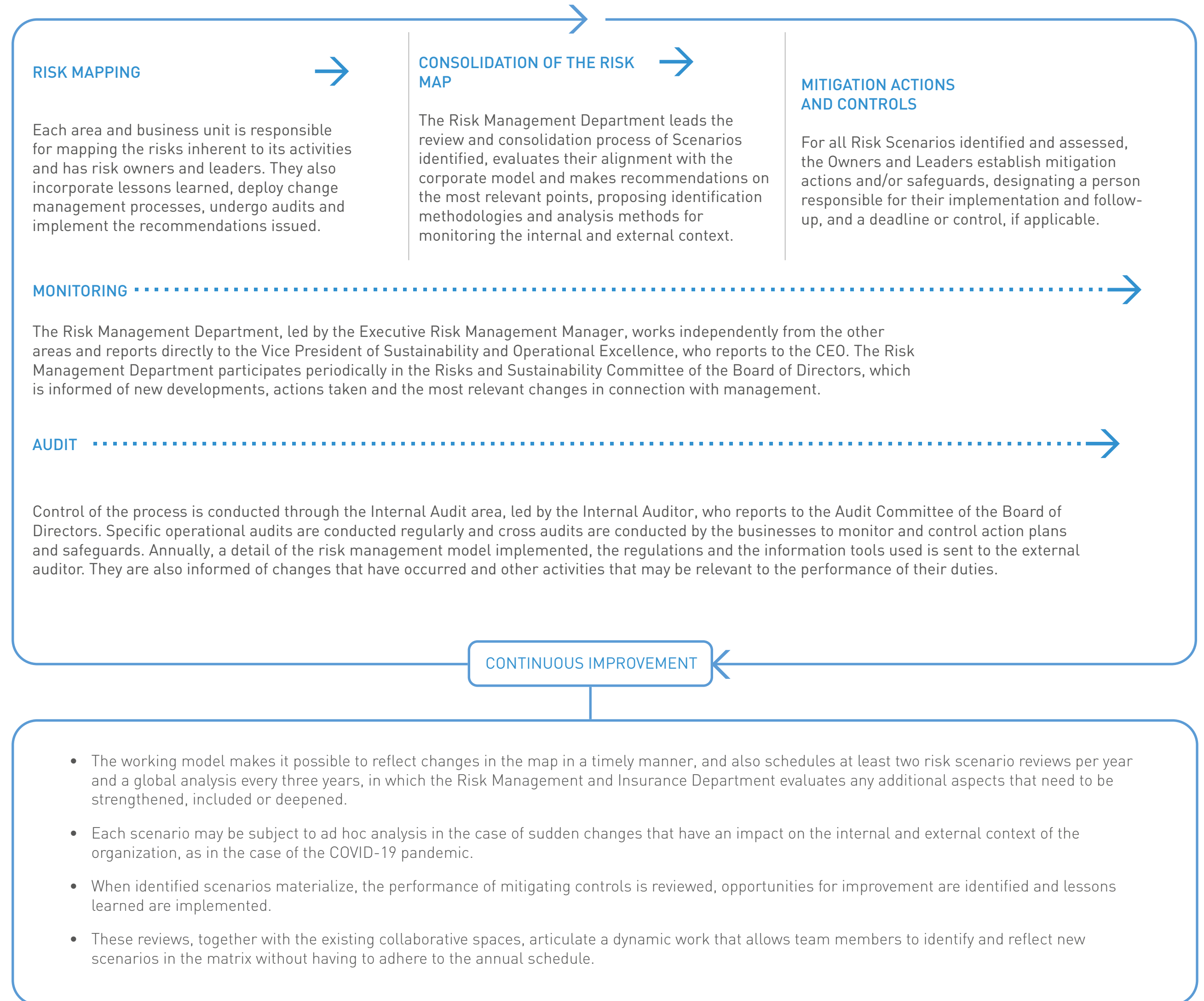
- Climate Change - Physical Risk: Increased frequency or severity of extreme weather events impacting operations and facilities.

Climate change is becoming increasingly relevant. This is evident in the Sixth Assessment Report of the Intergovernmental Panel on Climate Change, published during the 2021-23 period, which warns of the importance of accelerating global efforts to reduce GHG emissions to minimize future impacts on human and natural systems. In addition to temperature-related changes for the southeastern region of South America, the report forecasts greater rainfall variability, on one hand, increasing the frequency and intensity of rainfall and floods, and on the other hand, greater risk of droughts due to weather conditions, depending on the area.

For YPF, physical risks in the face of possible long-term extreme weather events imply the need to assess vulnerabilities and strengthen the resilience of the facilities.

Regarding rainfall, one risk assessed would be the probability of an extreme weather event that could affect the La Plata Industrial Complex with flooding, where the impact is analyzed as a

RISK MANAGEMENT MODEL



risk of fire/spills in watercourses and personnel injuries. Prevention/mitigation tasks are considered with physical and process barriers. Regarding droughts, the potential risk would be the probability of affecting the current water collection points for the Plaza Huincul Industrial Complex, where there would be a change from surface water collection to water supply provided by third parties. The potential risk assessed would be the direct impact on the production process.

YPF has implemented a model for the identification, evaluation and management of climate risks based on the guidelines of the TCFD Recommendations, a process monitored by the Board of Directors and through the Risks and Sustainability Committee.

- Climate Change - Transition Risk - Change in legislation: Reduction of reinsurance capabilities of international markets to insure operations that are not aligned in a timely manner to the climate change strategy.

In 2020, Lloyd's Market communicated a series of measures aimed at supporting the transition to "net zero" CO₂ emissions, including a timeline that starts with ceasing to provide new insurance coverage or investments in certain activities and, eventually, in 2030 with ceasing to renew its coverage. Meanwhile, the Net-Zero Insurance Alliance (NZIA) was formed in 2021, driving the insurance industry's commitment to transition insurance and reinsurance underwriting portfolios to GHG neutrality by 2050.

In the coming years, this trend may have an impact on the reduction of the International Reinsurance Market's capacities as a consequence of the restrictions imposed by its Boards to insure operations of companies in the oil and gas sector or whose climate change and energy transition strategy is considered insufficient. The Alliance is made up of more than 30 insurers and reinsurers representing 15% of the premium volume written worldwide, and most of them participate in YPF's main insurance placements. In this new context, the company could be affected by a significant reduction in the supply of reinsurance capacity for strategic coverages, sharp increases in underwriting



costs and/or the incorporation of specific coverage exclusions in connection with this issue. In addition, we must begin to explore new forms of coverage, either with a financial component, higher withholdings, increased deductibles, and other proposals.

In order to manage this emerging risk, YPF's Risk Management and Insurance Department has begun by raising awareness among stakeholders, the Risks and Sustainability Committee integrated at Board level, the company's business units and areas, brokers and other industry stakeholders. In addition, internal and external environments are monitored in order to take into account this new context and possible changes in local and international insurance and reinsurance regulations that could have an impact on the company's policies and strategy.

In addition, during 2022 we have incorporated an ESG Risk Assessment led by an external consultant into the Risk Visit Programs conducted at our company's main facilities. The methodology used is designed considering more than 10 internationally recognized industry standards and frameworks, and generates an ESG risk score based on 18 different topics.

During 2023 we will work with an external consultant to review the process of surveying and consolidating the information sent to the markets during the insurance placement processes. Specifically, we aim to incorporate in it all the actions and initiatives implemented in the company in connection with climate change and energy transition, for their knowledge and exploitation, and in order to take advantage of them in the negotiation of the terms and conditions of the main insurance programs.

INNOVATION: Y-TEC

GRI:3-3

Focused on development and research, Y-TEC completed a decade of management. Founded in 2012 by YPF and the National Council for Scientific and Technical Research (CONICET), an autonomous entity within the Ministry of Science and Technology (MINCyT), Y-TEC operates as an interface between the scien-

tific-technological capacity of the country's universities and the energy and industrial sector. YPF holds 51% of Y-TEC's shares, while CONICET owns 49%.

Work developed at Y-TEC focuses on the following topics: Increase in Oil & Gas production, mainly in Upstream NOC; Environmental sustainability: decarbonization, CCUS, reduction of sulfur content in fuels, resolution of environmental situations; Efficiency in gas transport; Sustainable agriculture.

Y-TEC IN 2022

US\$ 24.6 M

R&D INVESTMENT

266 PEOPLE

TEAM 2022 (36% WOMEN)

133

CONICET RESEARCHERS, TECHNICIANS AND FELLOWS WHO WORKED ON Y-TEC PROJECTS IN ITS INSTITUTES.

It has a Sustainability Program focused on three axes:

Environmental Footprint:

Remediation technologies, effluent treatment, ecological restoration of degraded areas, and CO₂ capture and reuse.

Actions:

- Y-CALCITE: Technology that replaces the use of sands as proppants.
- Y-FRED: Polymeric additive used in hydraulic fracking fluids.
- Pre-feasibility study for a natural gas thermal power plant with CCS.
- Bioremediation of oily streams by bacteria.
- Revegetation and ecological restoration of soils with direct seeding (Y-Siembra).

Agriculture:

Smart biological and phytosanitary products.

Actions:

- Bioinputs
- Y-TERRA: Seed treatment.
- Low-impact inputs.
- Digitization of bulk sales.

Y-TEC - MISIÓN AGRO

In the context of challenges faced worldwide regarding climate change, degradation of natural resources and environmental pollution, Y-TEC has a purpose through its Misión Agro, to develop technologies for sustainable agriculture, defining as main objectives increasing productivity and reducing the environmental footprint associated with the agribusiness. Focusing on this objective, the mission has a portfolio of several projects related to the development of bio-based products and inputs with low environmental impact, the digitalization of processes and the use of sustainable energy, implemented throughout 2022.

Biomass Recovery:

Actions:

→ Transformation of biomass-derived compounds into higher value-added products.

Y-TEC is an active partner in the innovation ecosystem in Argentina and participates in national and international partnerships to develop strategic studies and projects. Universidad Nacional de La Plata is a partner of Y-TEC in the lithium cell plant built in La Plata (UNILIB).

In agreement with global decarbonization trends, hydrogen is expected to be a very good energy vector capable of linking primary sources with consumption points, which is why YPF is strongly supporting its development. For YPF, green hydrogen is a big opportunity to transform surplus production from its wind farms and solar parks into an energy vector that facilitates its marketing.

Blue hydrogen is also presented as a prospect to generate added value to Vaca Muerta gas production, or to decarbonize the reforming processes in refineries, capturing and storing CO₂ streams.

In order to develop a strategy to drive the hydrogen economy in Argentina, the H2ar Consortium was launched in 2020, a space for collaboration among more than 50 companies operating in the energy value chain. It has eight working cells coordinated by Y-TEC, the leader of the consortium.

More information on Y-TEC's main projects related to climate change issues can be found in Chapter 3 of this Report.

DIGITAL TRANSFORMATION

GRI:3-3

Digital transformation represents an essential and cross-cutting factor for the achievement of YPF's strategic objectives. In 2022, we are working on maturing the digital agenda and on value generation and preservation concepts, as well as on the implementation of technology projects aimed at digitizing the company's core processes with efficiency and data security.

DIGITAL AGENDA 2022

B2C digital channels

+50% VS. 2021

OPERATIONS IN APP YPF, ONE OF THE THREE MOST USED WALLETS IN ARGENTINA

RPA process automation

US\$ 7 M

BENEFITS MADE AVAILABLE

Proyecto Fénix

US\$ 22 M

COMPREHENSIVE PLATFORM REPLACES OBSOLETE UPSTREAM PRODUCTION SYSTEMS

Completion of the Cloud program

US\$ 2.3 M

NPV FOR MIGRATION OF 260 APPLICATIONS, INCLUDING SAP OF YPF AND PROFERTIL.

B2B channels

+300%

GROWTH OF APP YPF EN RUTA

Connection and lighting

US\$ 7 M

BENEFITS LIKE WIFI AND WIRELESS HART IN REFINERIES, ASSETS AND PEOPLE TO IMPROVE PRODUCTIVITY, MOBILITY, SAFETY AND RELIABILITY

Upstream well integrity management

US\$ 4 M

VAN CENTRALIZATION OF DATA TO MONITOR OPERATIONAL VARIABLES AND MITIGATE RISKS

In 2022 we worked on maturing the digital agenda, moving forward in multiple areas:

- Customer experience and enhancement of digital channels (APP YPF, FARO Management System, YER Digitalization).
- We strengthened B2B channels by expanding digitalization of YPF EN RUTA.
- People, Digital Platforms and Operations: Automation of core business processes laying the foundation for OT Cyber-security and managing the organization by data (*data driven*).
- Cenit, Aconcagua, RPA, Iluminar (WiFi and wireless connectivity for refineries).
- We launched Proyecto Fénix, which will allow us to implement a comprehensive platform to replace obsolete upstream production systems.
- GIDI: Interference forecasting tool.
- Modernization of the Environmental Incident Management application.
- NET PAY data science: Forecasting of high exploration potential areas using data science.
- Proyecto Sphera: Corporate repository of environmental information for YPF's Sustainability Report.

After performing a risk analysis and a technological *upgrade* we started the move of the company's main computer center from Buenos Aires to the city of La Plata. In parallel, at YPF we deployed an agile culture aimed at approaching our projects with an operating model based on digital technologies.

CUSTOMER EXPERIENCE

GRI: 3-3, 416-1, 417-1, 417-2, 417-3, 418-1

At YPF we place the customer at the center of our commercial strategy, whether as a user of our service stations or as part of the more than 250,000 agricultural developments that are implemented in Argentina. We seek to strengthen long-term relationships through a timely and comprehensive response to their requirements, expectations and offering innovative experiences. To protect customer privacy, YPF is governed by Argentina's Personal Data Protection Act (PDPA) and the provisions of its Ethics and Conduct Code, which requires us to take all necessary measures to protect our customers' data. In addition, our Cybersecurity Regulatory Framework establishes the care, handling and responsibilities in this area, committing us to preserving the privacy of personal data.

VOC PROGRAM (VOICE OF CUSTOMER)

Implemented in 2021 by the Customer Experience area, in 2022 we continued to strengthen the program designed to regularly and permanently identify customer expectations, preferences and experiences regarding our products, services and value proposition.

The strategy focuses on four indicators:

→ **NPS (Net Promoter Score):** Measures customer loyalty based on the recommendations they make regarding the product. YPF's NPS started in January 2021 with a result of 64.5%, through September 2022 with a result of 69.2%. We also analyze each of the sentiments of the comments left by our customers, reaching 72% of positive comments.

These principles extend to controlled companies, contractors, suppliers, and partners. In 2022, there were no non-compliances related to product and service information and labeling or marketing communications. There were also no claims for privacy violations or loss of customer data.

Product safety

“There is an emergency plan for all products being transported, in order to minimize potential impacts on them, both bulk and packaged, and the potential impact to people. In 2022, there were no cases of non-compliance in terms of the safety of the company's products and services.”

NET PROMOTER SCORE (NPS)

January 2021	September 2022
64.5%	69.2%

→ **APPYPF:** The customer can provide feedback after completing a transaction and evaluate their satisfaction. During 2022, APPYPF consolidates its exponential growth of 2021 with an average monthly activity above 4.1 million transactions and more than 2 million active customers in a changing and challenging internal and external context. It offers our customers the advantages of agility, ease, customization, benefits and functionalities that ultimately result in a better experience within YPF. Among the functionalities that were developed, the most relevant was the possibility of having a Money in Account within the application, which allows customers without

All products marketed and used by YPF in its intermediate processes have safety data sheets with information on potential hazards of each substance and mixture contained, prepared according to the Globally Harmonized System of Classification and Labeling of Chemical Products. In addition, all significant categories of products and services are analyzed from the standpoint of their health and safety impacts.

Gas stations

Service stations are the main point of contact with our customers. In 2022, our network added 7 new locations, reaching 1,660, which represents almost a third of the existing stations in the country. Out of the total number of stations, 158 are owned by the company and the rest are owned by strategic partners or third parties. Through them, we sold 51% of the gasoline sold during 2022 in the Argentine retail liquid fuels market.

a bank account to access the world of benefits offered by the application, generating greater inclusion.

→ **Zoned QR Code:** Linked to a satisfaction survey where the customer leaves their comments about the service, cleanliness, and infrastructure of the point of sale. In 2022 we achieved a score of 4.2 (Likert scale).

→ **Google My Business:** Works on the geolocation of all our stations, so that they act as direct contact channels with the customer.

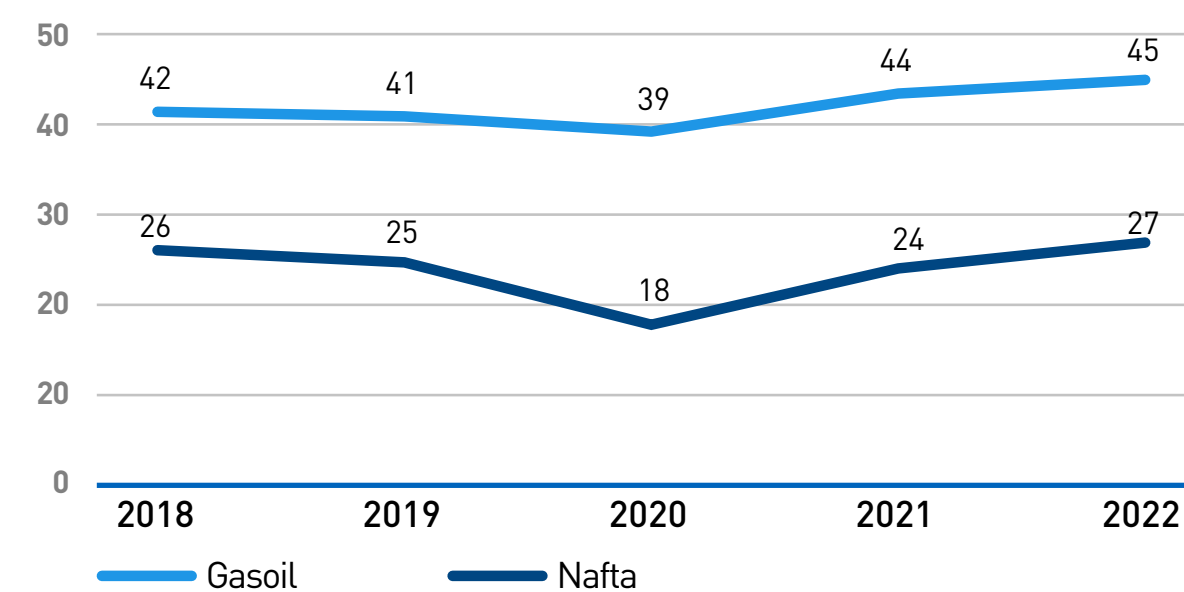
The information obtained is shared with each station manager, sales representative and salesperson through meetings and training.

We are in the process of transforming our network of stations. Following the approval in 2021 of a four-year strategic plan for the transformation of the network, in 2022 we moved forward on 128 stations with a dual effort, with YPF providing the image and the operator its capital for the rest of the upgrades. The plan addresses aspects of maximum efficiency (self-service model or assisted service where local legislation allows), maximum experience (focused on urban areas with greater amenities for meetings and recreation), core (mostly digital experience for urban contexts) and maximum proximity (model adapted for small towns and cities).

Strategic Alliances

We work together with Cementos Avellaneda and Holcim, through comprehensive energy supply agreements and with an active relationship in the development of joint opportunities in energy transition, as well as the areas of Environment and Sustainability. In the case of automotive companies, we strengthen our relationship with Toyota and Scania through brand recommendation.

GASOIL AND NAFTA PRODUCTION (Million barrels per year)



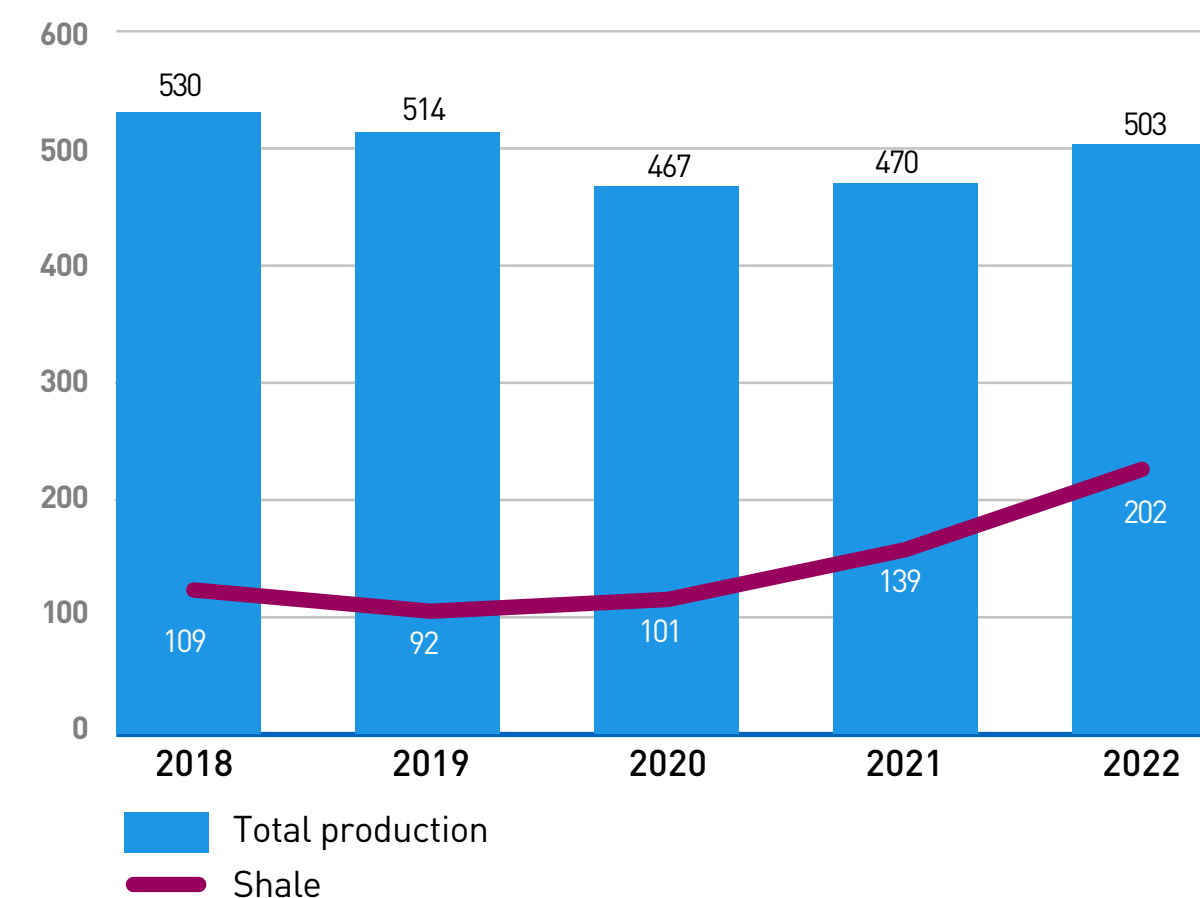
ENVIRONMENT, PERFORMANCE AND ECONOMIC IMPACT

GRI: 3-3, 201-1

During 2022 and for the second consecutive year, YPF reported excellent economic, financial and operating results, managing to remain on the growth path after having stabilized hydrocarbon production in 2021, maintaining solid profitability and liquidity levels, and greatly reducing leverage levels, together with a significant increase in investment plans that accompanied the expansion of the activity. As a result, we achieved the third best EBITDA in our history, at around US\$5 billion, along with an all-time record net income of over US\$2.2 billion. We generated positive cash flow for the third consecutive year, which enabled us to reduce our net leverage ratio to 1.2 times net debt-EBITDA.

In turn, we were able to expand total hydrocarbon production by 7.2%, the highest organic growth of our oil and gas production in the last 25 years, leveraged on the efficiency of resource development with a focus on the Vaca Muerta field and its world-class competitiveness, having registered growth rates in non-conven-

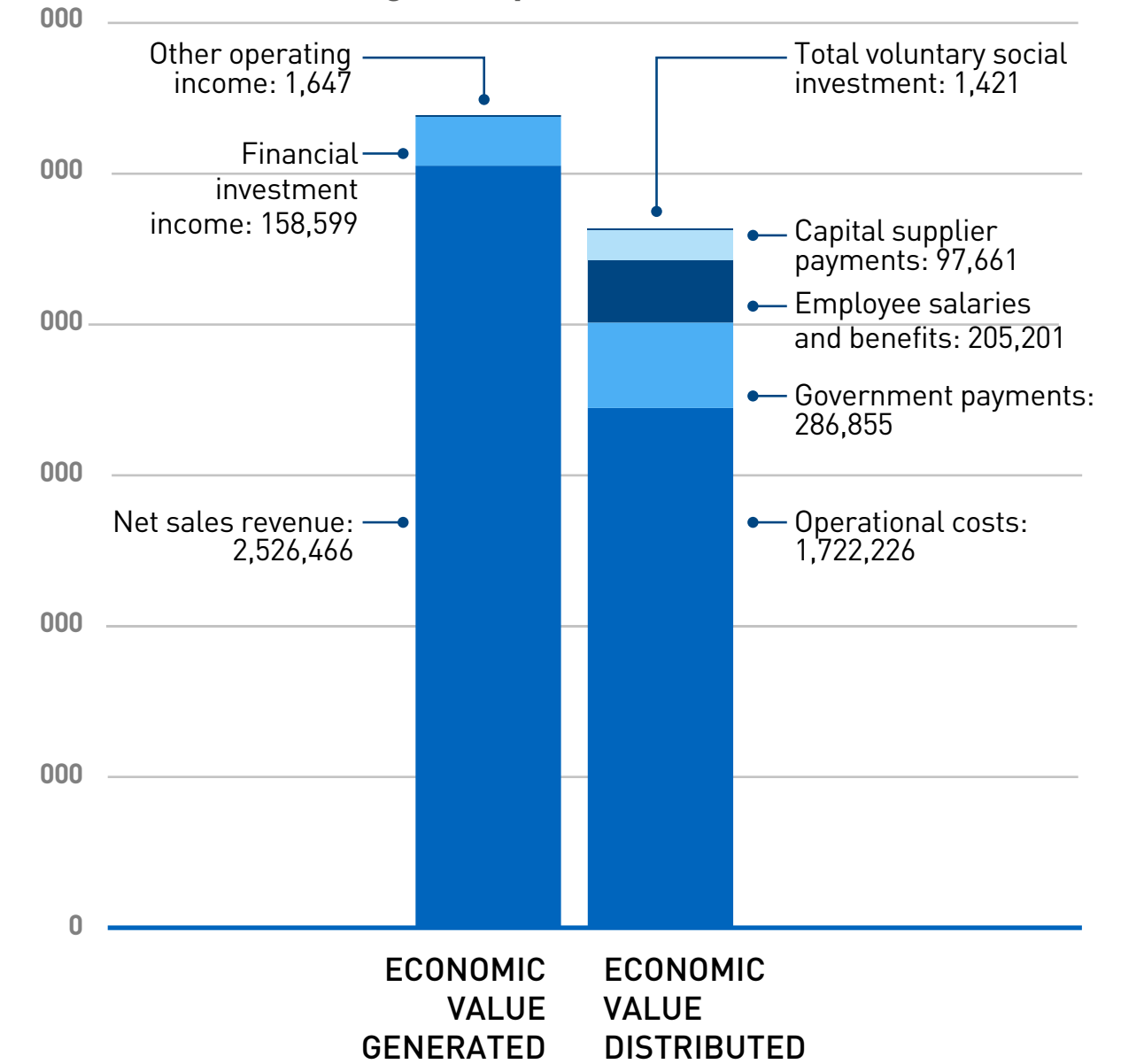
TOTAL HYDROCARBON PRODUCTION (Thousands of BOE per day)



tional oil and gas production of 45% and 47%, respectively. This enabled us to continue increasing the availability of crude oil at our refineries and to increase processing, which allowed us to meet record fuel demand in a context of high international prices.

In 2023, the company plans to invest around US\$ 5 billion, 20% more than in 2022, projecting an 8% increase in crude oil production and 3% in natural gas. This investment plan continues to focus on non-conventional fields (US\$ 2.3 billion) and natural decline management in conventional fields (US\$ 1.3 billion), while Downstream (US\$ 1.1 billion) focuses on sustainability investments, including the execution of the multi-year project for new fuel specifications and the adaptation of refineries to increase shale crude oil processing. Refer to YPF Investor Center:

ECONOMIC VALUE GENERATED AND DISTRIBUTED IN 2022 (Millions of Argentine pesos)



ECONOMIC VALUE RETAINED AR\$ 373,348 M

MESSAGE FROM THE PRESIDENT

MESSAGE FROM THE CEO

YPF IN FIGURES - 2022

COMPANY PROFILE

01. ENERGY COMPANY

02. COMMITMENT TO SUSTAINABILITY

Sustainability Strategy and Management

Stakeholder Dialogue and Material Topics

Materiality Assessment

Human Rights

03. CLIMATE ACTION

04. SUSTAINABLE PRODUCTION

05. HEALTH AND SAFETY

06. PEOPLE

07. SHARED SOCIAL VALUE

08. ETHICS AND COMPLIANCE

LEGAL NOTICE

ABOUT THIS REPORT

APPENDICES

EXTERNAL REVIEW REPORT

02. COMMITMENT TO SUSTAINABILITY

SUSTAINABILITY PRIORITIES:

- SUSTAINABLE PRODUCTION
- CLIMATE ACTION
- PEOPLE
- SHARED SOCIAL VALUE



SUSTAINABILITY STRATEGY AND MANAGEMENT

We manage sustainability challenges in the social, economic and environmental dimensions both internally and externally, aligned with our strategic plan and in a permanent dialogue with our stakeholders. In this task, we incorporated the company's corporate governance principles and evaluated risks and opportunities within the context with a holistic vision for the short, medium and long term, linking these priorities with our institutional purpose.

Sustainability Governance

GRI 2-12, 2-13, 2-14, 2-28

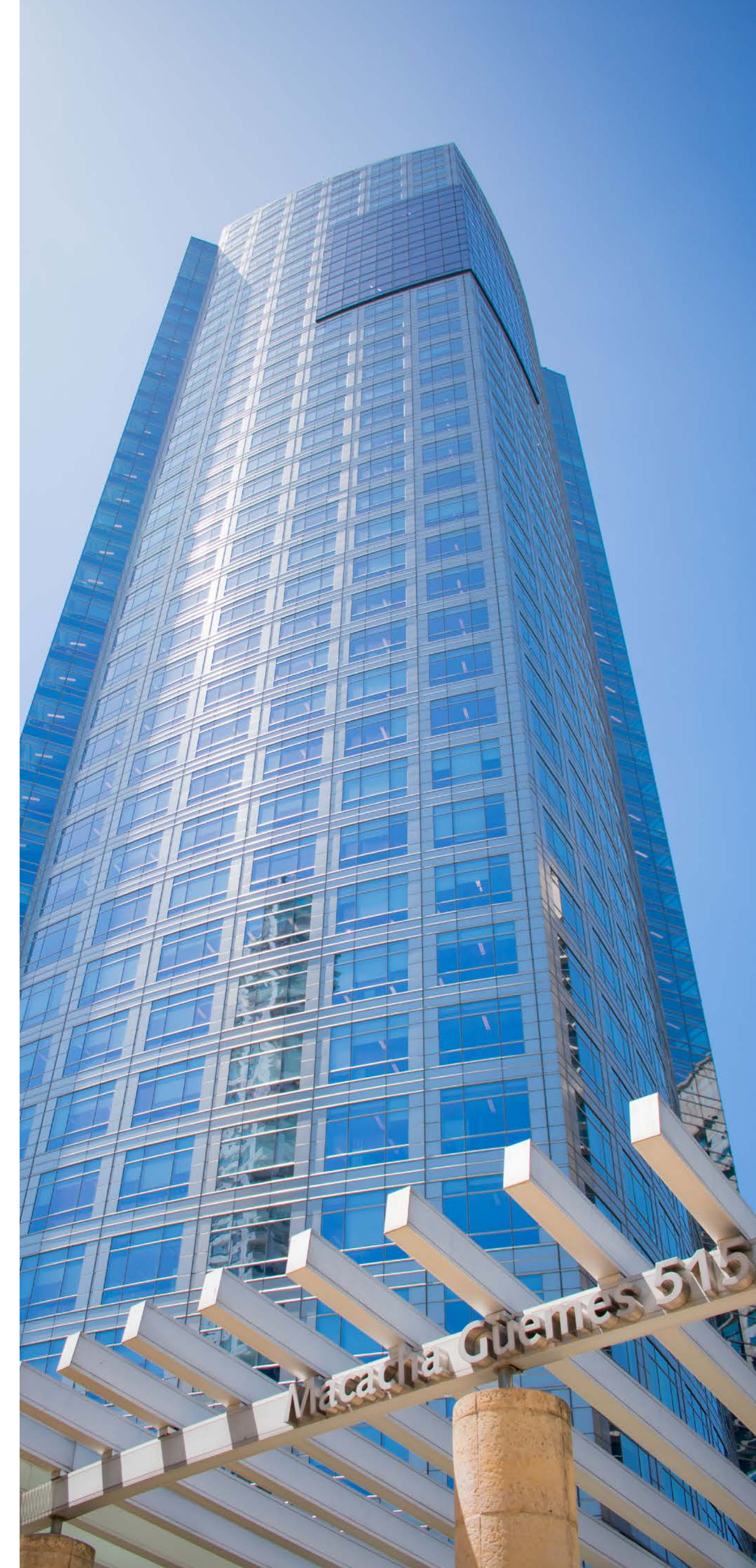
The Management of the Sustainability and Energy Transitions Department is responsible for formulating, proposing and leading the company's cross-sectional *sustainability strategy*, which materializes in action plans implemented with the support of different actors in our business. The Management reports to the Sustainability and Operational Excellency Vice Presidency and the latter to the company's CEO, and reports on their progress periodically, minimally four times a year, or every time needed due to its members initiative, to the Risks and Sustainability Committee integrated by six full members of the Board. The company's risk management model addresses those topics linked to sustainability with its corresponding controls, impacts and mitigation measures. Our Operational Excellency Policy and its management model allow us to guarantee a minimization of eventual negative impacts in each of our activities.

The top executive management, through the vice presidents, set the goals and monitors the relevant topics linked to the company's potential impacts on the economy, environment and people. One of the company's strategic goals is the Sustainability Index, a tool that allows the continued follow-up of goals formed by: *Accident Frequency Rate (AFR) + Dow Jones Sustainability Index (DJSI) + CO₂e and Emissions Intensity Reduction + Diversity with Women in Leadership Position*. This index forms part of the variable retribution component for all levels of employees in the company.

Yearly, the sustainability management is crystallized in an Annual Report, in which each vice president verifies and approves the information according to work performed and results obtained. Additionally, result indicators are incorporated into the Report, and audited through the ISAE 3000 standard by consultants external to YPF. Once the internal process has ended, the Annual Sustainability Report is submitted to the Board's verification through the Risks and Sustainability Committee.

During 2022, we strengthened our connection with global, national, and local organizations and initiatives related to corporate and energetic sustainability:

- As part of good practice in corporate governance, we measured once more voluntarily through the Corporate Sustainability Assessment 2022 (CSA by DJSI). Increasing to (+6) among the 7,800 companies assessed, we achieved positioning YPF within the ten best companies in the oil and gas industry on a world level and the inclusion in the S&P Global Sustainability Yearbook 2023.
- We continue to participate in the Argentine Network of the United Nations Global Pact initiative and participating in the World Business Council for Sustainable Development (WBCSD). In the WBCSD Argentine platform, we publish our main initiatives that contribute to achieving the Sustainable Development Agenda goals in 2030.
- Through our membership in the Instituto Argentino del Petróleo y del Gas (IAPG - Argentine Oil and Gas Institute), we promoted the second phase of the roadmap in the Sustainable Development Goals (SDG) for Oil and Gas.
- We are foundational members of the EITI initiative in Argentina, an international initiative to improve extractive industries' transparency and accountability, together with the Instituto Argentino del Petróleo y del Gas

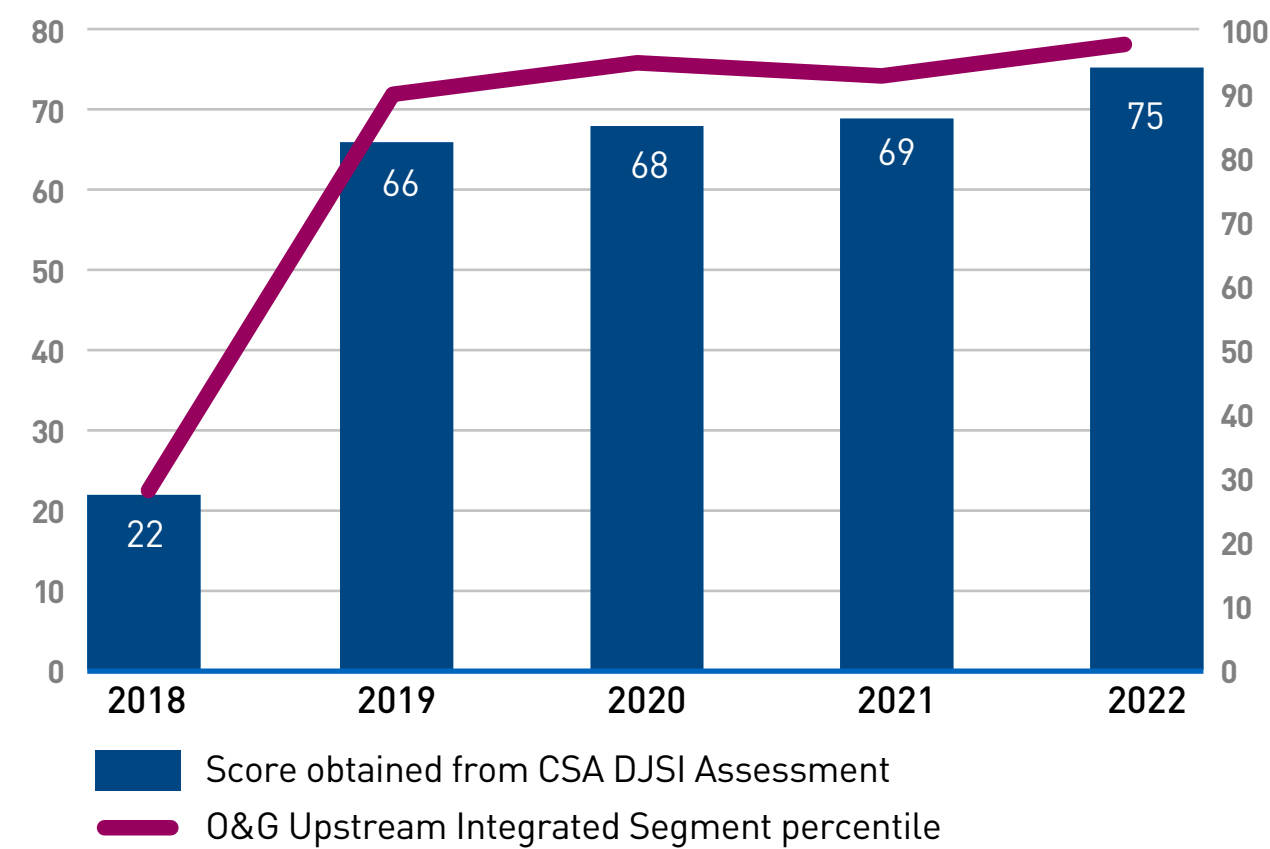


→ (IAPG - Argentine Oil and Gas Institute) and the Cámara de Exploración y Producción de Hidrocarburos (CEPH - Hydrocarbons Exploration and Production Chamber), and the Cámara Argentina de Empresarios Mineros (CAEM - Argentine Mining Enterprises Chamber).

→ We form part of the United Nations Early Adopter Program of the Communication on Progress (CoP) initiative. [Early Adopter Programme](#).

→ The EcoVadis initiative has grown until it became the world's largest and most prestigious provider of sustainability qualification. Its network currently has over 100,000 evaluated enterprises. YPF has been distinguished in the GOLD Category, within the 95° Percentile Performance.

CSA DJSI ASSESSMENT

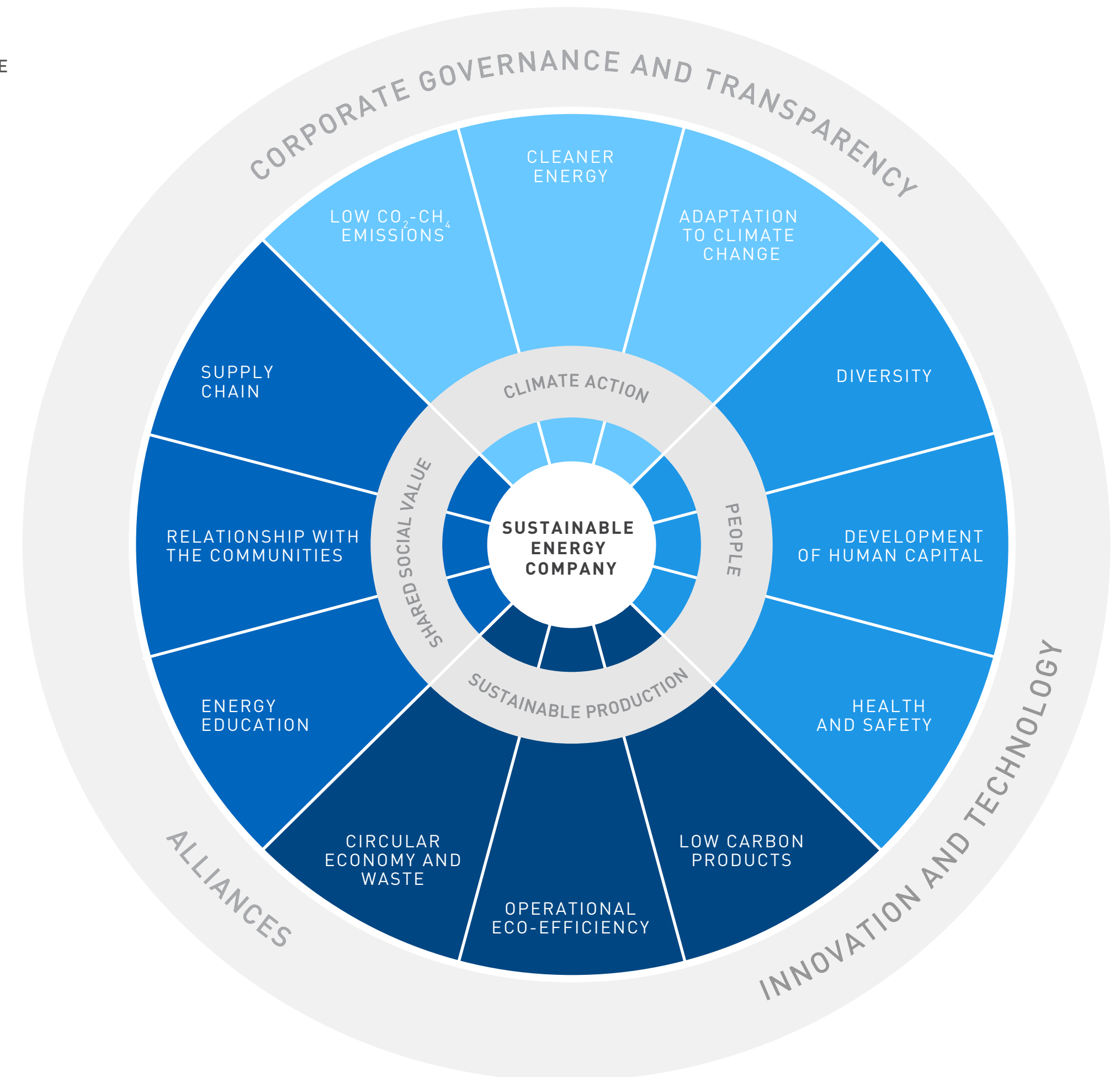


As from 2018, YPF S.A. has improved its score in the O&G Upstream Integrated Segment, in the Dow Jones Sustainability Index, and in 2022 it reached a total score of 75/100, among 191 companies evaluated in the sector.

SUSTAINABILITY PRIORITIES

OUR COMMITMENT TO SUSTAINABILITY MATERIALIZES IN A CORPORATE STRATEGY THAT IS ORGANIZED UNDER FOUR CORES:

- SUSTAINABLE PRODUCTION
- CLIMATE ACTION
- PEOPLE
- SHARED SOCIAL VALUE



70/100
95° percentil

STAKEHOLDER DIALOGUE AND MATERIAL TOPICS

GRI: 2-29

Our stakeholders are all the organizations and individuals who are linked to YPF through their different roles, such as an energy producer and supplier, employer or partner. Based on the identification of each of them, we regularly turn to them for their opinions regarding relevant issues and the level of impact generated, a key tool for managing our priorities and risks.

To build transparent, long-term relationships as well as mutual benefits with all stakeholders, we have formal communication channels and specific areas in each of the vice-presidencies.



SHAREHOLDERS AND FINANCIAL MARKETS

Shareholders' and analysts' information requirements are channeled through the **Relations with Investors Management Office**, headed by the Market Relations Officer, who is appointed by the Board of Directors in compliance with the rules of the National Securities Commission (CNV). Additionally, on a quarterly basis, the company issues earnings reports via public webcasts on the site www.ypf.com. On an annual basis, we file an update of the Corporate Governance Code to the CNV and the annual report to the SEC under Form 20-F.

EMPLOYEES

There is a **People and Culture Vice Presidency** which is associated with our work team. Periodic communications are released regarding results at company and business units level. And we have a **formal channel** to receive all types of complaints regarding non-compliance with laws, policies and our Ethics and Conduct Code.

UNIONS

The **Labor Relations Management Department** articulates the connection with the unions and confirms that the relevant matters be covered by the agreements and duly formalized in work conditions, not only aligned with the current regulations but also with the Internal Labor Relations Policy.

SUPPLIERS AND PARTNERS

The **Supply Chain Management Department** with the **Sustainable Development Suppliers Management** are responsible for developing the links and skills needed by the value chain businesses. Relationships with the business' strategic partners is carried out directly with each vice presidency's specialized teams, according to each activity.

COMMUNICATION MEDIA, GOVERNMENT AUTHORITIES AND INDUSTRY PEERS

The **Institutional Affairs, Communications and Marketing Vice Presidency** has an important role in managing the relations with these stakeholders. It therefore has a managers' team and teams responsible for permanent connection in all the regions throughout the country where our operations are located.

COMMUNITIES

We have a relationship with the neighboring communities to our operations through the **Institutional Affairs, Communication and Marketing Vice Presidency**, which works within the framework of the Human Rights and Community Relations Policy, the laws, the respect to human rights and the native population's culture. To facilitate communication and claim mechanisms, a **field team** keeps in permanent contact with the inhabitants in our areas of influence.

MATERIALITY ASSESSMENT

GRI:3-1,3-2

On a yearly basis, we execute an assessment of relevant topics that could have a positive or negative impact on the company business and on our stakeholders in social, environmental and economic areas. These topics emerge from the industry's *benchmarking* and the specific sectoral standard (GRI 11), that include contents relevant to achieving a sustainable development. After a comprehensive evaluation, 21 material topics were chosen and at the same time, were subjected to an internal and external hierarchical process in order to prioritize the most relevant for our internal and external public.

Between February and March 2023, we carried out a consulting process to update our priorities within the material topics defined and evaluated in 2022 on the basis of the context and YPF's strategic plan. Members of the Board and vice presidents participated in this, as well as representatives of six external stakeholders associated with our main operative centers. To verify the material topics and their hierarchy according to the impact level, these perspectives were combined with the results that emerged in the 2022 exercise, that included - among others - men and women employees, customers, suppliers, partners, investors, communities, the media, opinion leaders and government authorities.

On the Road to Double Materiality

All strategic priorities identified in the materiality assessment are reflected in YPF's risk map, which includes social, environmental and economic aspects as well as people and corporate governance. The corporate risk management system integrates the significant risks to evaluate and prioritize according to their probability as well as potential economic impact, safety or the company's reputation. YPF acknowledges the principles of double materiality and its current methodology considers both internal and external perspectives regarding impact and rele-



vance; the company is going through the development of a process towards full integration.

The Sustainability and Operational Excellency Vice President approves the content of this chapter, including the materiality assessment, while the Risk and Sustainability Board Committee approves the total Sustainability Report. The members who participated in the current materiality study and its impact include the president, CEO, CFO, two Directors and three Vice Presidents, who verified the material topics and contributed with their perspectives for their prioritization.

MATERIALITY MATRIX

SUSTAINABILITY REPORT 2022

MESSAGE FROM THE PRESIDENT

MESSAGE FROM THE CEO

YPF IN FIGURES - 2022

COMPANY PROFILE

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Stakeholder Dialogue and Material Topics

Materiality Assessment

Human Rights

03. CLIMATE ACTION

04. SUSTAINABLE PRODUCTION

05. HEALTH AND SAFETY

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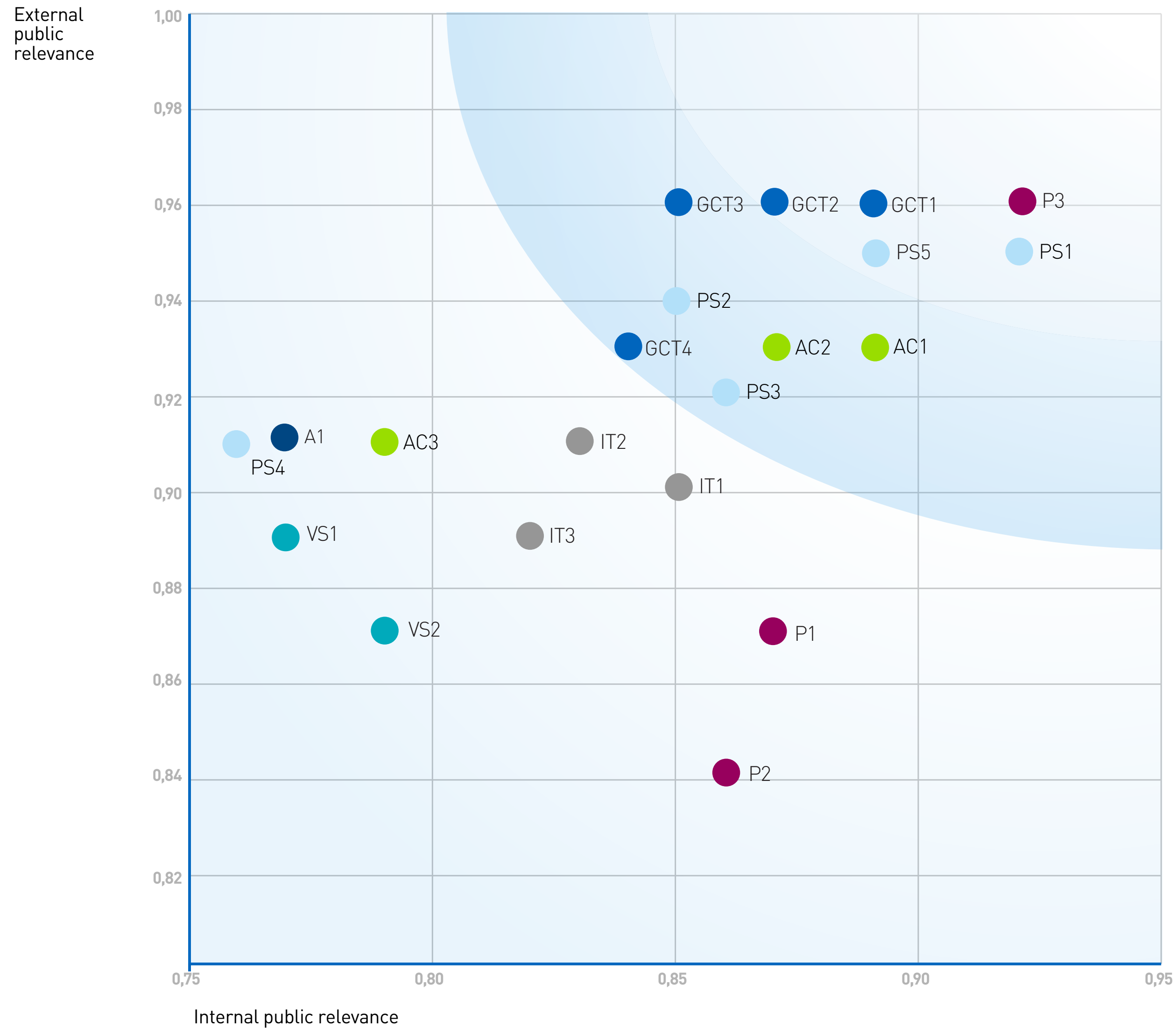
08. ETHICS AND COMPLIANCE

LEGAL NOTICE

ABOUT THIS REPORT

APPENDICES

EXTERNAL REVIEW REPORT













	MATERIAL TOPICS	IMPACT	
Climate Action	CA1	CO ₂ and Methane Emissions Management	Maximum impact
	CA2	Business model resilient to climate change and regulations	Very high impact
	CA3	Low-carbon, renewable energy production and development	High impact
People	P1	Talent management	High impact
	P2	Diversity and Equal Opportunities	Very high impact
	P3	Occupational Health and Safety	Maximum impact
Sustainable Production	SP1	Water and effluents	Maximum impact
	SP2	Responsible Waste Management	Very high impact
	SP3	Air quality and air pollution near populated areas	Very high impact
	SP4	Biodiversity and impact on ecosystems	High impact
	SP5	Incident Readiness and Response	Very high impact
Shared Social Value	SV1	Impact and relationship with the communities	High impact
	SV2	Economic Impact and Local Development	Very high impact
Corporate Governance and Transparency	CGT1	Ethics and integrity	Very high impact
	CGT2	Human rights	Very high impact
	CGT3	Financial and fiscal transparency	Very high impact
	CGT4	Corporate governance	Very high impact
Innovation and technology	IT1	Cost Competitiveness	High impact
	IT2	Innovation and Digital Transformation	Very high impact
	IT3	Information security and cybersecurity	Very high impact
Alliances	A1	Customer Experience	High impact

Maximum impact
 Very high impact
 High impact

Sustainability Priorities and Contribution to SDGs

We measure our progress in sustainability based on priority topics for the business and stakeholders, with annual and associated multi-annual goals and their contribution to achieving the SDGs.

SUSTAINABILITY PRIORITIES	MATERIAL TOPICS	KEY INDICATOR	2022	2021	MAIN GOAL	SDGS
People	Occupational Health and Safety	Accident Frequency Rate (AFR)	0.32	0.35	2022: 0.40	
	Talent management	Hours of training per employee	12.4	14.2	-	
	Diversity and Equal Opportunities	% of leadership positions held by women	18	16.3	2025: 25	
Climate Action	Low-carbon and renewable energy production and development	Natural gas production (million m ³ /d)	37.5	35.7	2025: Long-term Contracts in Gas Supply	
		% biofuels in products	4.8 in diesel and 11.8 in gasoline	3.5 in diesel and 10.7 in gasoline	According to new national regulation	
		% of fuels ultra-low in sulfur	32	30	2025: 70	
		Electric power installed capacity - YPF LUZ (MW)	2,483	2,483	2027: 4,485 MW	
		Renewable electric power installed capacity YPF LUZ (MW)	397	397	2027: 1,210 MW	
		R&D Investment in Power (kM\$)	3.4	2.4	-	
		GHG Direct emissions intensity (tCO ₂ e/unit produced)	0.25	0.30	2027: -30% (base year: 2017)	
		Methane emissions (t)	70,359	124,658	2030: -30% (2021 base year)	
		Energy intensity (GJ/produced unit)	3.96	4.56	2023: 4.35	
		% electricity purchased from renewable sources*	60%	34%	2026: 50	
Sustainable Production	Air quality	Industrial centers close to the population with CDM for local non-GHG atmospheric emissions	2	2	2	
	Water and Effluents Management	Water consumption in water-stressed areas (%)	10.7	11.2	-	
		Intensity of water collected (m ³ fresh water collected/m ³ oil equivalent)	1.26	1.50	2026: -5% (average base year 2017-2019)	
	Responsible Waste Management	Reuse/Recovery of Generated and Stocked Waste	25%	15%	2026: 25%	
	Land use	Frequency Index of Upstream Spills	10.79	12	2022: 11.2	
Corporate Governance and Transparency	Ethics and integrity	% of Direct Staff Adhered to the Ethics and Conduct Code	100	100	100	
	Human Rights	% of the security staff belonging to contracted personnel who had training on human rights	100	98.92	100	
	Financial and fiscal transparency	Report on payments to governments		Participation in the Extractive Industries Transparency Initiative (EITI) Report	Maintain participation	

* Renewable EE Purchase: This data represents the average percentage for 2022 of renewable electric power purchased over the total electric power purchased over the total electric power acquired by the company through "Compañía Administradora del Mercado Mayorista Eléctrico" (CAMMESA) and "Grandes Demandas del Distribuidor" (GUDIs).

HUMAN RIGHTS

GRI: 3-3; 2-23; 2-24; 2-25

At YPF, we are committed to respecting human rights for all people linked to our operations and activities by exercising due diligence in this area, and our policies are aligned with the United Nations Universal Declaration of Human Rights (UNUDHR), the International Pact of Civil and Political Rights, the International Pact of Economic, Social and Cultural Rights, and the Fundamental Rights at Work of the International Labor Organization (ILO), incorporated to the internal Argentine rights.

Our top executive board monitors the current and potential impacts regarding human rights, with specific indicators in the company's ongoing activities. Simultaneously, the Board carries out a follow-up through the Risks and Sustainability Committee, which evaluates both the progress as well as eventual deviations.

New Human Rights Policy

“The new policy has been built on a general commitments and central commitments scheme as much for full YPF staff as for services suppliers, business partners and stakeholders and communities that live in our influence areas of operations, including the native population.”

In 2022, we drew up and approved a new Human Rights and Relations with the Community Policy, which acknowledges its strategic value in the development of activities with our environment and the relevance to the value chain. When drawing it up, among the considerations were the UNO and the ILO standards, the YPF Ethics and Conduct Code and Values and the Risks, Operational Excellency, Sustainability, Cyber-Security and YPF Corporate Safety Management policies, the 10 Global Pact Principles, the ILO Convention 169 and the Organization for Economic Cooperation and Development (OECD).



In the process of drawing up and approval of the new policy, different YPF vice presidencies participated, in this way, the top management was involved in its development as well as confirmation by external experts. Awareness with our colleagues is carried out through the Curiosity digital tool.

After an evaluation and definition process, this policy was approved in 2022 to be included in the general clauses of contracts and links with suppliers. For contractors, specific qualification and contractual requirements are established regarding labor relations, quality management systems, safety, health and the environment, which are analyzed in periodic performance evaluations.

Due Diligence Process and Progress in Risks Mapping

“We have a due diligence in human rights process focused on activities and areas related to the environment, health, safety, labor practices, diversity, inclusion, local communities and the value chain management, in agreement with our Environment, Social and Health Impact Assessment Policy.”

We moved ahead with the mapping of human rights risks when incorporating new Chemistry and Own Network businesses and the vice presidencies of Conventional Upstream, Non-conventional Upstream, and Downstream were retained, begun in 2018, which cover our staff, contractors, and suppliers.

This mapping, which is revised periodically, allows us to identify the area of interest in the activity that is involved and define if there is a potential risk of infringing a particular human right, such as forced labor, trafficking, child labor, freedom of association, rights to collective negotiation, remuneration equality, discrimination, among others. Among the groups considered in this process are women, local and indigenous communities, colleagues in our contracted suppliers, migrant workers, and boys and girls. In case this has been identified, an exhaustive evaluation of the potential severity is carried out with a team of professionals (in-

ternal and external), mitigation measures are proposed and the evolution is monitored. From the beginning of the process no significant impacts generated by the company activity or a third party have been registered, therefore YPF has not had to implement mitigation or remediation actions during 2022.

In the risks, revision and updating of the identification task processes already executed, external specialists cooperate and the company's essential and cross-sectional areas participate, on all levels (directors, managers, heads, supervisors and colleagues), as well as the inspectors who supervise contractors.

Based on the assessment model and whether a potential impact in human rights could have on people, it was decided to re-define the indicator of our own evaluated operations, and link it accordingly.

OUR OWN OPERATIONS EVALUATED FOR POTENTIAL RISKS TO HUMAN RIGHTS OVER THE LAST THREE YEARS

67,269

TOTAL OF OWN OPERATIONS (TOTAL OWN STAFF AND CONTRACTORS)

46%

OWN EVALUATED OPERATIONS (TOTAL OF OWN STAFF AND CONTRACTORS)

30,866

OWN OPERATIONS EVALUATED IN WHICH SOME RISK HAS BEEN IDENTIFIED AND MITIGATION ACTIONS HAVE BEEN PERFORMED (TOTAL OWN STAFF AND CONTRACTORS)

100%

OWN EVALUATED OPERATIONS IN WHICH SOME RISK HAS BEEN IDENTIFIED AND IN WHICH MITIGATION ACTIONS WERE IMPLEMENTED

Social Risk Matrix

In 2022 we designed a Social Risk Matrix (SRM) with 15 risk factors in human rights matters, in order to work on the early detection and prevention in each project that we encouraged from the identification and selection stage of the sites, planning until its closure or sale of operations. During the period, no associated risks have been detected regarding forced or obligatory labor, freedom of association, collective negotiation or violation of

the native population's rights nor risks in the matter of human rights in joint venture operations.

In the company we have a physical safety team committed to the Safety and Human Rights Voluntary Principles recommendations in the case of executing some joint action with public and private security forces. Although in 2022 we did not provide human rights training courses for our colleagues, 100% of our 31 members of the Physical Safety group have formal knowledge in policies or specific human rights procedures of the organization and how to apply them to safety.

For reclaiming mechanisms, YPF has formal channels described in Chapter 8 of this same document.

SUSTAINABILITY REPORT 2022

MESSAGE FROM THE PRESIDENT

MESSAGE FROM THE CEO

YPF IN FIGURES - 2022

COMPANY PROFILE

01. ENERGY COMPANY

02. COMMITMENT TO
SUSTAINABILITY

03. CLIMATE ACTION

Climate Challenge and
Energy Outlook

Road Map to Climate Change

Resilience to Climate Change

Lower Carbon Oil and
Gas Operations

New Technologies and
Energetic Solutions

Lower Carbon and
Renewable Energy

04. SUSTAINABLE PRODUCTION

05. HEALTH AND SAFETY

06. PEOPLE

07. SHARED SOCIAL VALUE

08. ETHICS AND COMPLIANCE

LEGAL NOTICE

ABOUT THIS REPORT

APPENDICES

EXTERNAL REVIEW REPORT

03. CLIMATE ACTION

MATERIAL TOPICS:

- BUSINESS MODEL RESILIENT TO CLIMATIC CHANGE AND REGULATIONS
- CO₂ AND CH₄ EMISSIONS MANAGEMENT
- LOW-CARBON, RENEWABLE ENERGY PRODUCTION AND DEVELOPMENT



CLIMATE CHALLENGE AND ENERGY OUTLOOK

In November 2022, the Ministry of Environment and Sustainable Development of Argentina presented the Resilient Development Strategy with Low Emissions in the Long Term to 2050, through the United Nations Framework Convention on Climate Change, in order to reinforce the country's commitment to climate action and the implementation of the objectives of the Paris Agreement (PA). The transformation of productive energy, transport and industrial systems is identified as key strategic lines to achieve the carbon neutrality goal by 2050.

Our proven resources at Vaca Muerta offer cost-competitive, low-emission oil and gas production; we are committed to strengthen operational and energy efficiency to unlock this potential and lead the transformation of the Argentine economy, maximizing economic value for our shareholders and stakeholders while contributing to global decarbonization. In parallel, we are investing in the development of more sustainable energy alternatives in order to guarantee a competitive and resilient business model in long-term energy transition.

Our energy portfolio focused on oil and gas has changed significantly over the last 25 years, going from 100% conventional extraction to 40% non-conventional shale today.¹ In the next five years, close to 70% of our portfolio will come from non-conventional deposits, which have lower GHG emissions intensity. Together with YPF LUZ, we are the second renewable energy generation company in Argentina with energy based on natural gas, which is highly relevant due to the decrease in emissions compared to liquid fuels.

“We promote a responsible and transparent business based on innovation, new technologies, economic and

¹ Shale is a sedimentary formation with low permeability that contains non-conventional hydrocarbons lodged in the micropores of rock. Oil and gas extraction is carried out with operations similar to conventional drilling, adding state-of-the-art technology known as “hydraulic stimulation.” The non-conventional method is used when the geological formation or rock appears as many hydrocarbons that are isolated from each other or are poorly connected.

operational excellence as well as the transformation of operations and corporate culture. We invest heavily in R&D and renewable energy projects in order to increase our generation capacity through the diversification of cleaner sources.”

Monetization of our globally competitive, low-carbon footprint oil resources

OUR APPROACH TO THE ENERGY TRANSITION IS BASED ON THREE PILLARS:

SHORT-TERM
2023-2025

MID-TERM
2026-2030

LONG TERM
2030-2050

MONETIZATION OF OUR GLOBALLY COMPETITIVE, LOW-CARBON FOOTPRINT OIL RESOURCES (2023- 2035)

Vaca Muerta	New shale beyond Vaca Muerta, Palermo Aike project	
Midstream	Midstream COD	
Enhanced Oil Recovery	2027: drilling of 50% of the wells in relation to the total potential of the current portfolio and 14% of the new shale hydrocarbon developments	Offshore development
Offshore Exploration	Offshore evaluation	

NATURAL GAS (LNG) MONETIZATION (2027-2050)

Focus on the local market	Regional exports	
Midstream gas plan - exclusive and upgradeable 600 km gas pipeline	Industrial expansion	
Strategic association with Petronas	LNG execution first stage - 1,500-hectare port site reserved in Bahía Blanca	Whole LNG project
LNG first stage (FID) [5 M tons/year]	LNG second stage (FID) [20 M tons/year]	

GREEN HYDROGEN, LITHIUM AND OTHER CLEAN ENERGIES (2030-2050)

Renewable - through the company - controlled by YPF LUZ	Acceleration of renewables	Potential clean hydrogen and lithium production
Lithium exploration	Lithium value	
Clean hydrogen pilots	First hydrogen marketing	

“At YPF, we have the opportunity to produce barrels of oil with a much lower carbon footprint than the world average, which is will become a differentiating factor in the energy industry.”

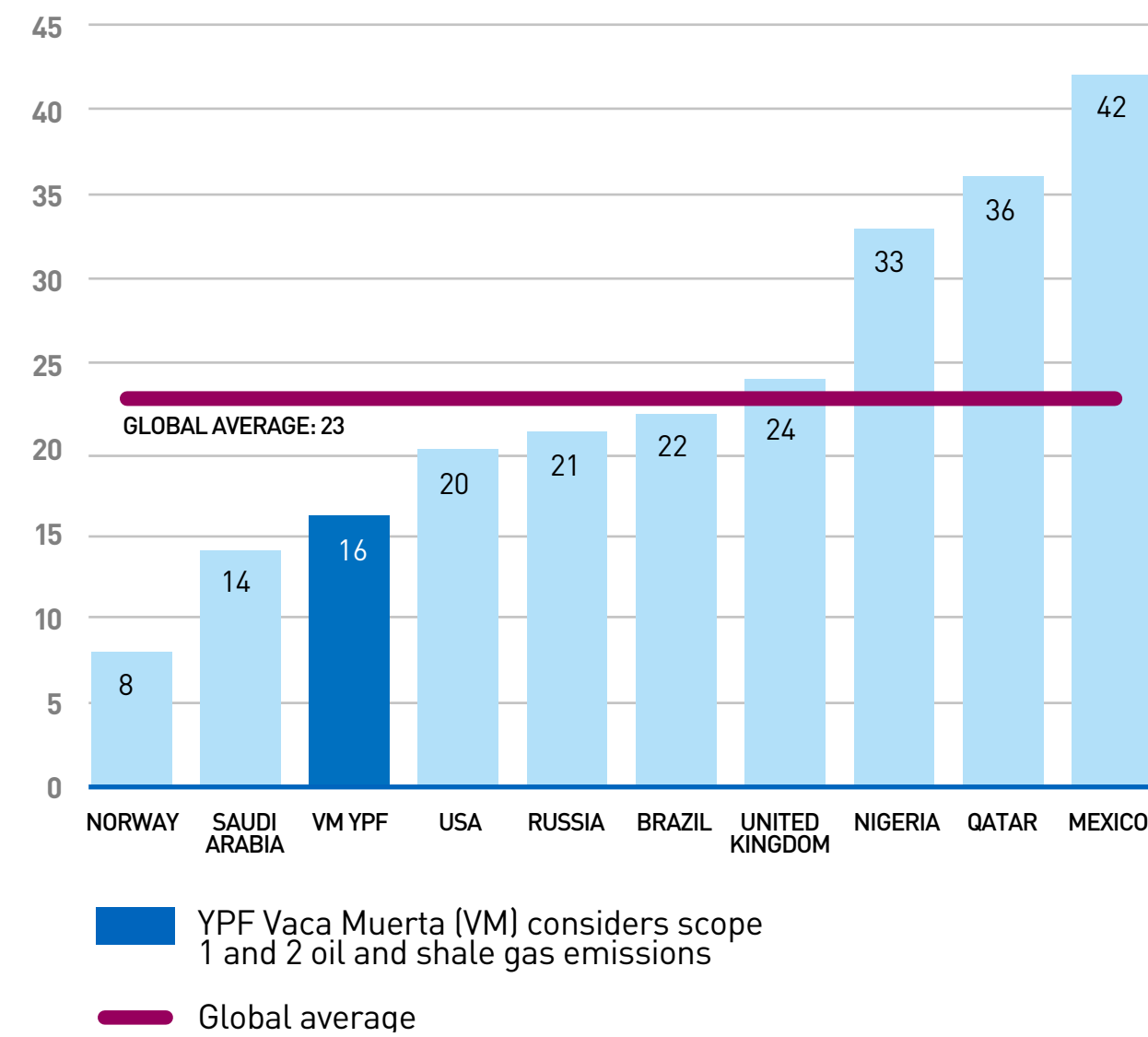
YPF was positioned in 2022 as considerably competitive within hydrocarbon production. Since we estimate that the demand for oil will be steady for the next decade, we are focused on increasing the monetization of these resources in the 2023-2035 period.

The Vaca Muerta deposit in the province of Neuquén is the second biggest reserve, constituting almost 50% of the world's shale supply. The non-conventional oil produced at Vaca Muerta has proven to be very competitive in terms of CO₂ tons per barrel of crude oil produced; therefore, we are working to further reduce its carbon footprint, an effort that is also replicated in the conventional segment.

By developing this deposit, the energy deficit of Argentina could be covered, improving the quality of life for the population. Thus, we add environmental and social value as well as generate valuable resources to unlock economic growth in general, causing significant positive impacts on the energy sector.

Another opportunity for YPF is in Palermo Aike in the Santa Cruz province, which has natural gas and crude oil reserves for more than a third of those estimated for Vaca Muerta, and where YPF is starting the exploration stage. In parallel, work is being done to search for offshore hydrocarbons 300 kilometers off the Argentine coast. Alternatives that, based on the Vaca Muerta experience, will provide low carbon intensity production.

**UPSTREAM GHG EMISSIONS INTENSITY
BY COUNTRY (KG CO₂e/BOE)**



Monetization of gas in the medium term, a bridging energy

In the mid-term, we prioritize the monetization of gas, which, although it has less opportunity for significant growth in the short term since it is restricted to the local market and is exported to neighboring countries, it is able to make YPF a relevant player in the global liquefied natural gas market.

Vaca Muerta boasts considerable potential in natural gas, which is considered a transition energy, since it emits 50% less carbon dioxide during power generation compared to coal and is a good

Our operations in Vaca Muerta have a GHG emissions intensity below the world average.

Through the following actions we aim to emit less than 10 kg O₂e/BOE in 2030:

- **Flaring:** Goal of zero routine flaring by 2030. Infrastructure development and collection, best operating practices.
- **Methane:** Management of fugitive emissions and Leak Detection and Repair programs. First air identification in 2022.
- **Gas combustion:** Operational optimization, energy efficiency, electrification of compressors.
- **Diesel combustion:** Electrification of platforms and set of fractures with dual fuel. Energy management system.
- **Energy Efficiency.**
- **Incorporation of low-carbon energies.**

AGREEMENT WITH PETRONAS MALAYSIA

In September 2022, YPF signed a Joint Study and Development Agreement (JSDA) with Petronas, Malaysia's national oil and gas company, to promote an integrated liquefied natural gas (LNG) project in Argentina in the Upstream segment with the production of unconventional gas, the development of gas pipelines and infrastructure, LNG production as well as international marketing and logistics.

The project combines YPF's leadership in the development of Vaca Muerta and the experience and knowledge accumulated by the Petronas Group in the operation of LNG liquefaction facilities, both onshore and offshore globally. This LNG project will meet the global demand for gas and will make it possible to replace energy sources that are intensive in coal, thus contributing to the reduction of GHG emissions.

The LNG project will maximize the potential of Vaca Muerta and will have a significant impact on job creation, growth in economic activity and the development of a new export business. In parallel, YPF and Petronas signed a Memorandum of Understanding (MoU) to continue working in Argentina in other areas, such as oil production, petrochemicals and clean energy solutions.

complement for renewable energy intermittence. Due to capital efficiency as well as the cost of developing shale gas in said deposit, YPF today is expected to be a competitive player in this area.

Green hydrogen, lithium and clean energy: vectors of energy transition in the long term

In the long term and depending on how global technology development evolves, lithium and green hydrogen will become two growth vectors. Lithium is the metal with the highest energy storage capacity by weight unit. In this sense, it is a strategic mineral to achieve a greater amount of renewable energy; it is essentially used to promote major electromobility development

In energy transitions, lithium plays a major role, and since Argentina, has the second largest reservoir in the world, it plays a key role in these transitions. In 2022, we signed a concession in the Catamarca province in an area close to 20,000 hectares, to explore a lithium mining project; this has strengthened our competitive advantage in the field of geology as well as the exploitation of natural resources.

20%

OF THE WORLD'S LITHIUM RESOURCES ARE IN ARGENTINA

THE 2ND

LARGEST PRODUCER OF RENEWABLE ENERGY IN ARGENTINA (YPF LUZ)

52%

OF YPF'S WIND CAPACITY FACTOR THROUGH YPF LUZ (2022)

+100 GW

IS THE WIND POWER POTENTIAL PER PORT IN PATAGONIA

40% TO 70%

COST OF ELECTRICITY PRODUCTION IN GREEN HYDROGEN

In the meantime, green hydrogen requires major technology development in order for it to become a mainstream energy, which would reduce the cost of electrolysis and identify which is the best transport vector. Argentina has a unique opportunity given the capacity it offers in both solar as well as wind energy. Since

hydrogen needs to be close to the ocean or deep-water ports, Patagonia's ability to generate wind power plants has great potential for the country, especially for YPF.

At YPF, we have identified in wind farm planning, if they are concentrated in a single transmission point, can reach around 100 GW, which is two and a half times the installed capacity of all electric power in the country, which translates in 8.5 million tons per year of green hydrogen. For this, it is vital to make strides to have an efficient capacity for installing renewable plants that generate 100-150 megabytes per year.



ROAD MAP TO CLIMATE CHANGE

We have renewed our energy transition roadmap with short and medium-term objectives related to decarbonizing the oil and gas business as well as promoting renewable energy and other energy solutions, proposing a new energy strategy in line with compliance with the objectives of the Paris Agreement and the Nationally Determined Contributions (NDC) to achieve carbon neutrality by 2050, as well as its role as a promoter of the Argentine and regional economy.

These goals are itemized in annual intermediate goals that are part of the business plan for 2023-2027, being periodically monitored; they have been added to the performance assessments of company employees, including the highest leaders and the CEO, to influence over a percentage of the compensation. The commitment is to invest in decarbonizing current energy as well as in the future energy system.

In order to achieve this, we have developed a set of short and mid-term expectations.

* Renewable EE Purchase: This data represents the Average % of the year 2022 of Renewable Electricity purchased over the total electric power purchased by the company in the WEM (Wholesale Electricity Market.) The Company goal is 50% by 2027. National law 27,191/15 (regulatory decree 531/16) provides that the company, as a regulated entity, must incorporate at least 20% of the total own consumption of electric power with energy from renewable sources, as of December 31, 2025. The regulatory decree identifies consumption with what is purchased in the electricity market. The main change compared to 2021 (28%) is due to the lower amount of electric power sold through CAMMESA, due to the incorporation of thermal self-generators (Loma Campana 1, Usina Manantiales Behr, Cogeneration La Plata 1).

STRATEGIC FOUNDATION	ACTION LINES	2022 PERFORMANCE	2027 ASPIRATIONS	MID- AND LONG-TERM COMMITMENT
Climate Change Risk Management and Adaptation	Mapping, managing and mitigating transition risks as well as physical risks, for facilities and operations while facing extreme climate events	Mapping physical risk for all operation zones Transition risks map Evaluation of critical project sensitivity to 50 US\$/tCO ₂ e.	Vulnerable facilities with an ongoing adaptation plan Evaluation of reduction projects with a carbon price of US\$ 50/tCO ₂ e, up to US\$ 70 in 2026.	
	Carbon price for operations			
Low Carbon Oil and Gas Operations	Increase energy efficiency to reduce direct emissions	Direct emissions intensity 2022 is 0.25 tCO ₂ e/produced unit.	Scope 1+2 NOC: kgCO ₂ e/BOE <10 Reduction of GHG emissions intensity by >30% vs. 2017	30% reduction of methane emissions by 2030 (baseline 2021) Zero routine flaring by 2030
	Consumption of renewable energy	60% EE purchased from renewable sources at retail/EE purchased at retail*	50% of electric power purchased from renewable sources	
	Reducing routine flaring	Total flaring: 490,401 t Methane emissions: 70,359 t (-44% vs. 2021).	50% reduction of routine flaring 2027 Reducing methane emissions: 10% p/2027 (compared to 2021).	
Low-carbon solutions and compensation	Develop new energy solutions- YTEC/YPF LYTIO	Consortium H2ar leadership to find business opportunities in lithium	Participation in the hydrogen and lithium markets	
	Offer products which are lower in carbon	25.1% ultra-low sulfur fuel, 4.9% diesel biofuels and 11.8% gas	Pilots linked to Carbon Capture, Use and Storage (CCUS) 70% of fuels lower in sulfur by 2025	
	Develop compensation projects - NBS.	6,000 ha forested in Neuquén Biochart.	Percentage of biofuels in unregulated products.	
Electric power and renewable energy	Profitable growth of electric power and renewables - YPF LUZ.	Installed capacity for electric power: 2,483 MW ¹	Installed capacity for electric power: 4,485 MW	
		Installed capacity for renewable energy: 397 MW.	Installed capacity for renewable energy: 1,210 MW.	

¹ Includes the indirect 30% interest in Central Dock Sud and the indirect interests in CTMB, CTSM and VOSA of 0.14% and 1.92%, respectively.

RESILIENCE TO CLIMATE CHANGE

GRI:3-3

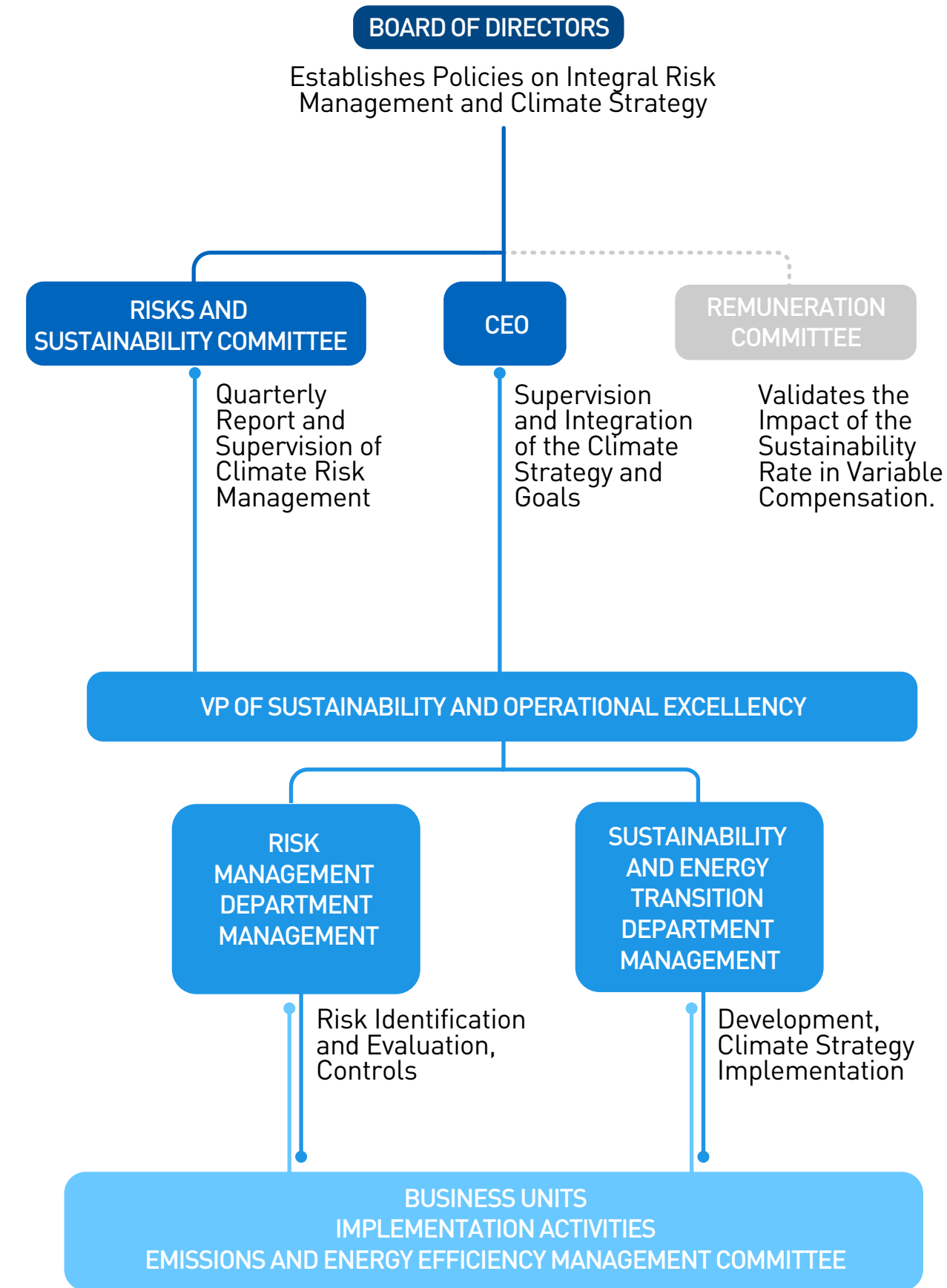
Approach and Governance

YPF's Board of Directors is responsible for establishing comprehensive business risk management policies, including issues related to sustainability and climate change. It is led by the Risks and Sustainability Committee, which oversees the implementation of the risk management system, including identifying, evaluating and monitoring climate change risks, and developing appropriate mitigation actions. The Committee meets at least quarterly and receives reports from the VP of Sustainability and Operational Excellence, which is made up of the Risk Management Department administration and well as that of the Department of Sustainability and Energy Transitions regarding the Corporate Risk map and performing the main environmental initiatives, including GHG emissions.

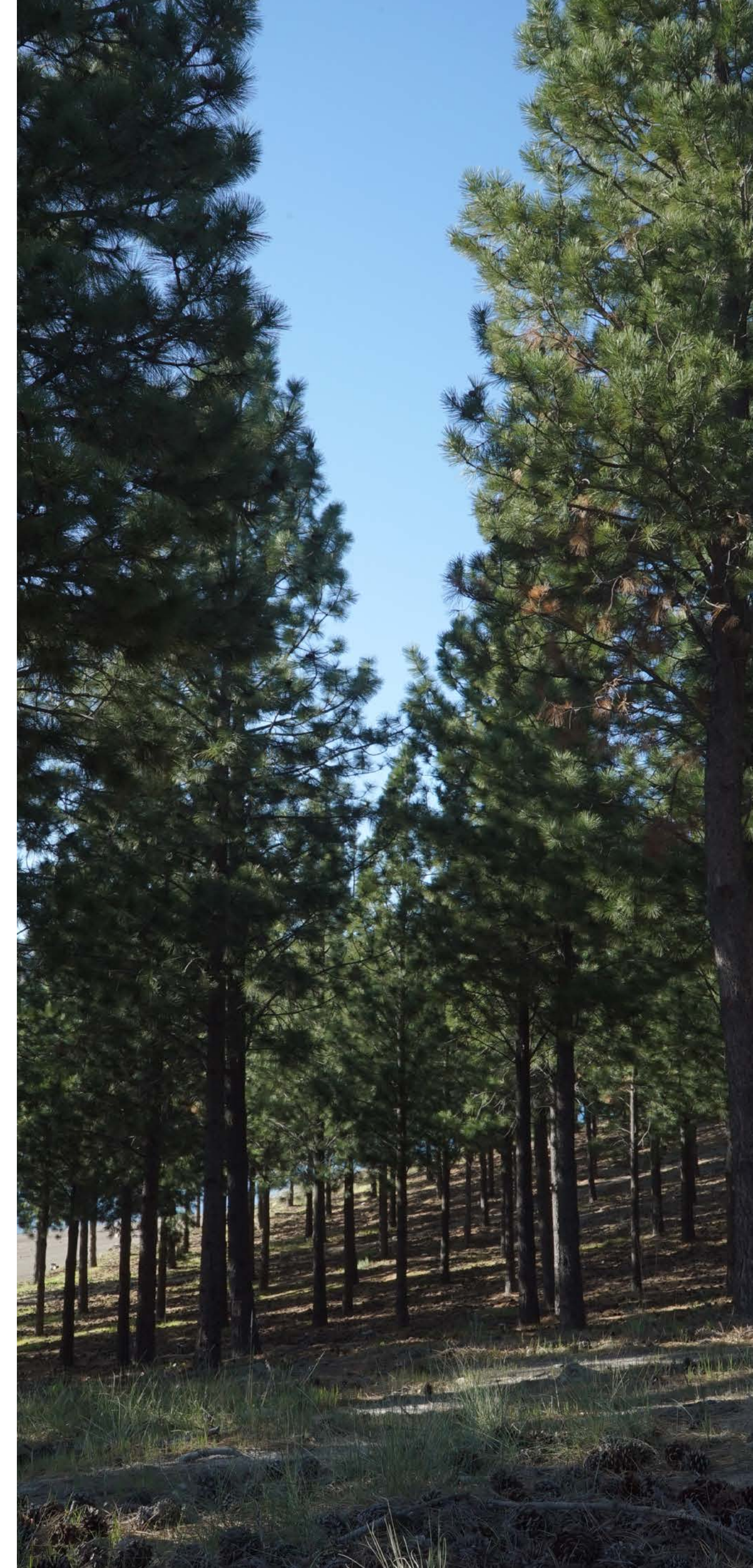
The climate change and energy transition strategies are coordinated by the Vice Presidency of Sustainability and Operational Excellence, with all the relevant business units involved in their development and implementation. The vice president of this division reports directly to the CEO and works with the CFO, whose Vice Presidency leads the development of YPF's strategy to include it in the company's business plan.

Participation in Political and Collaborative Activities

During 2022, relationship activities with partners were carried out for the purpose of aligning emission calculation methodologies, emission detection practices, etc. Likewise, we continued with the presidency of the IAPG Emissions Commission as well as participating in other commissions such as ARPEL Climate Change, IOGP working group, Cuidando al Clima de Paco Global. Among the activities carried out in the commissions, these are mentioned: review the bills related to the subject, de-



velopment of recommended practices for the management of methane emissions and zero routine burning, organization and participation in workshops on different topics (carbon credits, decarbonization, etc.).



Risk Identification, Assessment and Management

“At YPF, we manage the possible climatic vulnerabilities of our operations by adapting measures and carrying out resilience planning at the strategy and asset level. The processes of identifying, evaluating and managing risks related to climate change are included in our enterprise risk management system based on ISO 31000. This analysis takes into account our direct operations, in addition to our value chain activities, and is reviewed and updated at least annually.”

To assess exposing our operations and facilities to physical risks, we develop climate risk maps considering the RCP4.5 and RCP8.5 scenarios, with expected variables in the short, medium and long term available to the entire company through a Geographic Information System (GIS), a web-based platform. In parallel, we are advancing in implementing the Business Areas Climate Impact Assessment Tool (BACLIAT), one that allows us to assess the climate impacts of the business areas through observing climate trends, detecting risks and identifying mitigation actions to reduce vulnerability and urge early action. Regarding the resilience of our business model in the face of the energy transition, together with YPF experts we analyze scenarios of how regulations, technologies and the energy system may change in the long term, including scenarios from the International Energy Agency (IEA, for example, “IEA 450”).

Since 2019, we have included environmental criteria in the analysis of the projects subject to review by the Critical Investments Committee, including carbon emissions. For that purpose, we determined a price of 50 dollars per ton of CO₂e, a shadow price that was updated in 2022 after a review of the trends in pricing carbon as well as the best industry practices. The following table shows the main risks and opportunities identified by YPF:

CATEGORY	POTENTIAL RISKS AND OPPORTUNITIES	MITIGATION ACTIONS
Physical impacts on plants and operations	<ul style="list-style-type: none"> Impacts linked to severe or chronic effects, such as water scarcity or extreme weather events. 	<ul style="list-style-type: none"> Vulnerability map of operations in the event of climatic events Execution of adaptation projects Monitoring of regulations and public policies
Public policies and regulations	<ul style="list-style-type: none"> Carbon taxes New regulations (GHG emissions, air quality, oil specifications, among others). 	<ul style="list-style-type: none"> Incorporation of the carbon price when evaluating new projects Institutional cooperation to strengthen informed public discussion Emissions reduction target, clean development mechanisms, energy and resource efficiency initiatives Consumption of renewable energy for own operations Investments in electric power through YPF LUZ Investments in infrastructure for New specifications of low sulfur fuels
Market	<ul style="list-style-type: none"> Low demand for oil and gas Increased demand for electricity and renewable energy Financial restrictions. 	<ul style="list-style-type: none"> Analysis of the long-term scenario (2040) Incorporation of the price of carbon in evaluations of new projects Cost efficient operations Carbon efficient operations Profitable investments in renewable energy and electricity.
Technology	<ul style="list-style-type: none"> Digitalization New energy solutions Technology on renewable energy and storage (batteries) Electro-mobility. 	<ul style="list-style-type: none"> Aspects in innovation and technology linked to the Y-TEC (research and development) business in new energies and the Hydrogen Consortium Focus on lithium business
Image and reputation	<ul style="list-style-type: none"> Talent attraction and retention Investor and customer perception License to operate. 	<ul style="list-style-type: none"> Sustainability strategy integrated into the business Transparency in information on commitments, objectives, goals and performance Participation in alliances such as the Global Compact, CEADS, EITI Communication and relationship actions with stakeholders

LOWER CARBON OIL AND GAS OPERATIONS

GRI: 3-3, 305-1, 305-2, 305-4, 305-5, SASB EM-EP-110A.3, EM-MD-110a.2, EM-RM 110a.2

51% of the national carbon footprint comes from the energy sector. To stay competitive and contribute to fulfilling the climate goals that the Argentine Ministry of Environment and Sustainable Development has set, a fundamental component of our corporate strategy is the business of decarbonizing hydrocarbons. For this purpose, we are working to reduce greenhouse gas (GHG) emissions in our operations and products through a series of initiatives.

In Upstream, one of the lines of work of the 2022 Energy Efficiency and Decarbonization Plan was improving how emissions that the inventory consists of are calculated. In 2022, the cal-

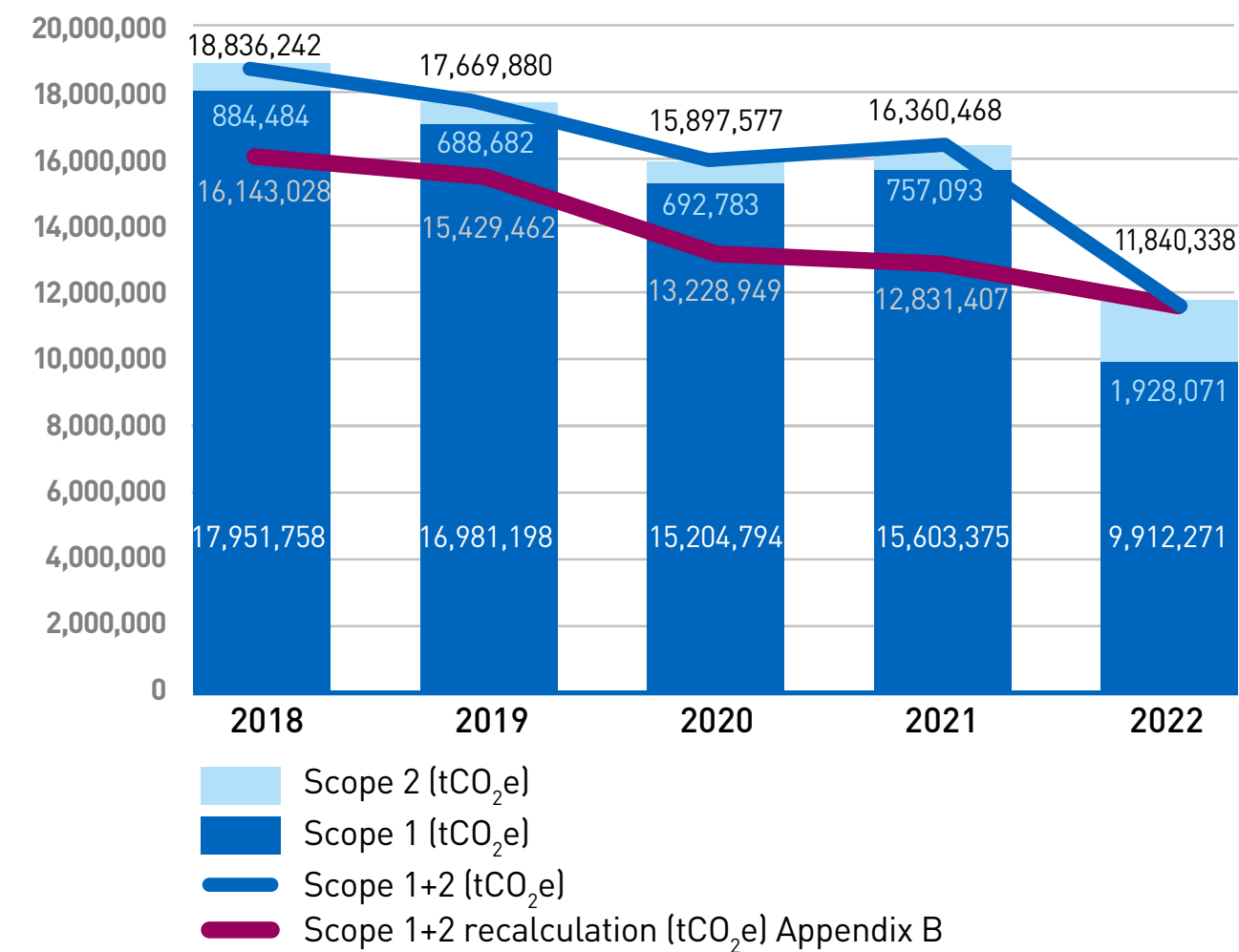
CHANGE OF ORGANIZATIONAL LIMITS

The company carried out a review of the organizational limits of the report, in order to align the coverage with the companies included in the consolidated financial statements. For this reason, the information reported for 2022 does not include information regarding YPF LUZ (in which the Company has joint control) and YPF GAS (affiliate).

ENVIRONMENTAL DATA MANAGEMENT

A new environmental parameter management tool called Sphera was implemented, making it possible to centrally obtain information from other corporate systems, unifying reporting criteria between the different business units and creating better ways to trace information.

GHG EMISSIONS SCOPE 1 + 2 (TCO₂E)

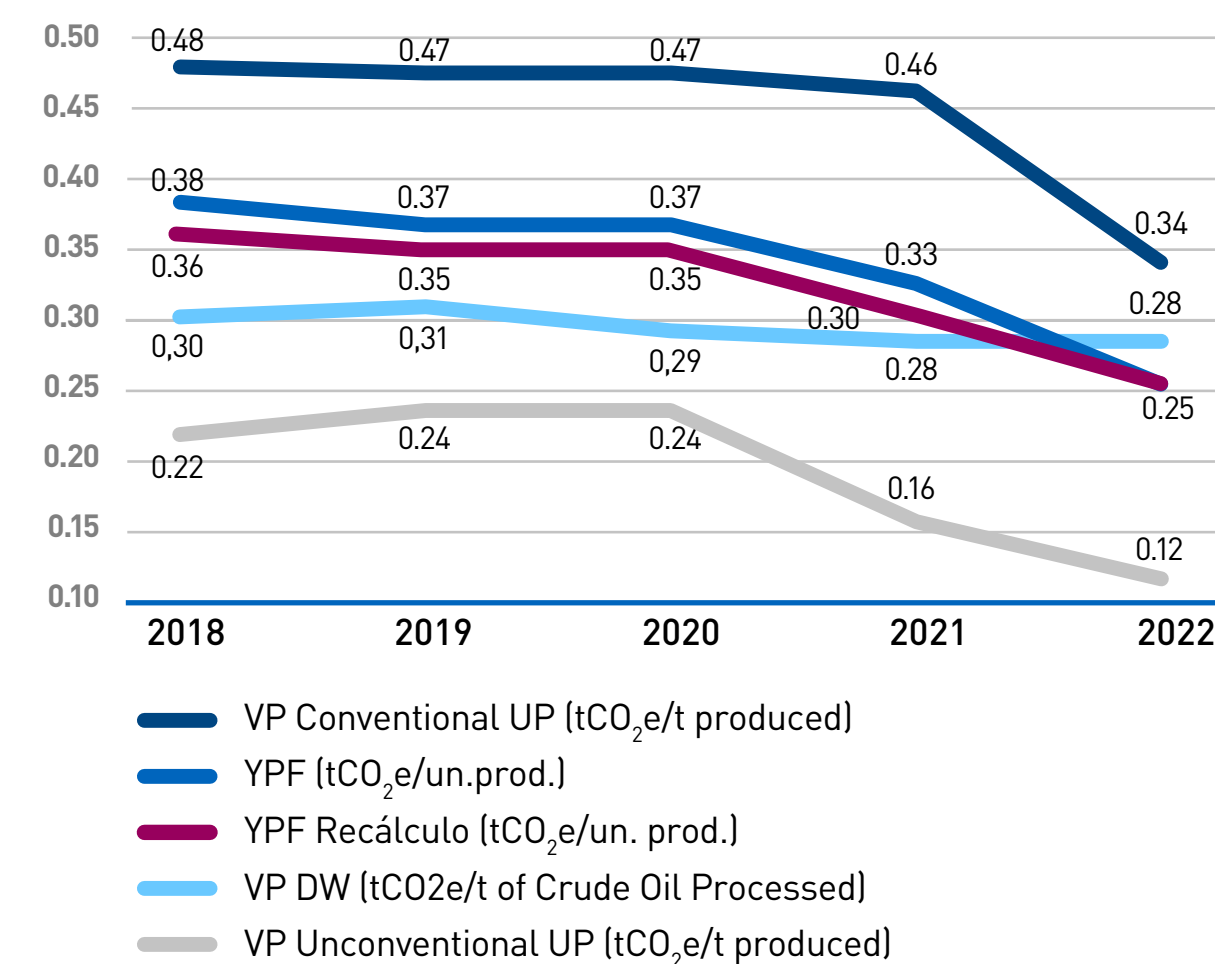


ulation methodology for five emissions sources was adjusted they represent 70% of the total emissions of the Conventional Upstream (Power Plants, Tanks, Furnaces and heaters, Engines and compressors as well as Flaring). Due to having adjusted the calculation methodology, a decrease in the emissions sources was observed overall. The most significant impact pertained to CH₄ emissions in tanks, going from Tier 1 to Tier 2, having a 70% decrease.¹

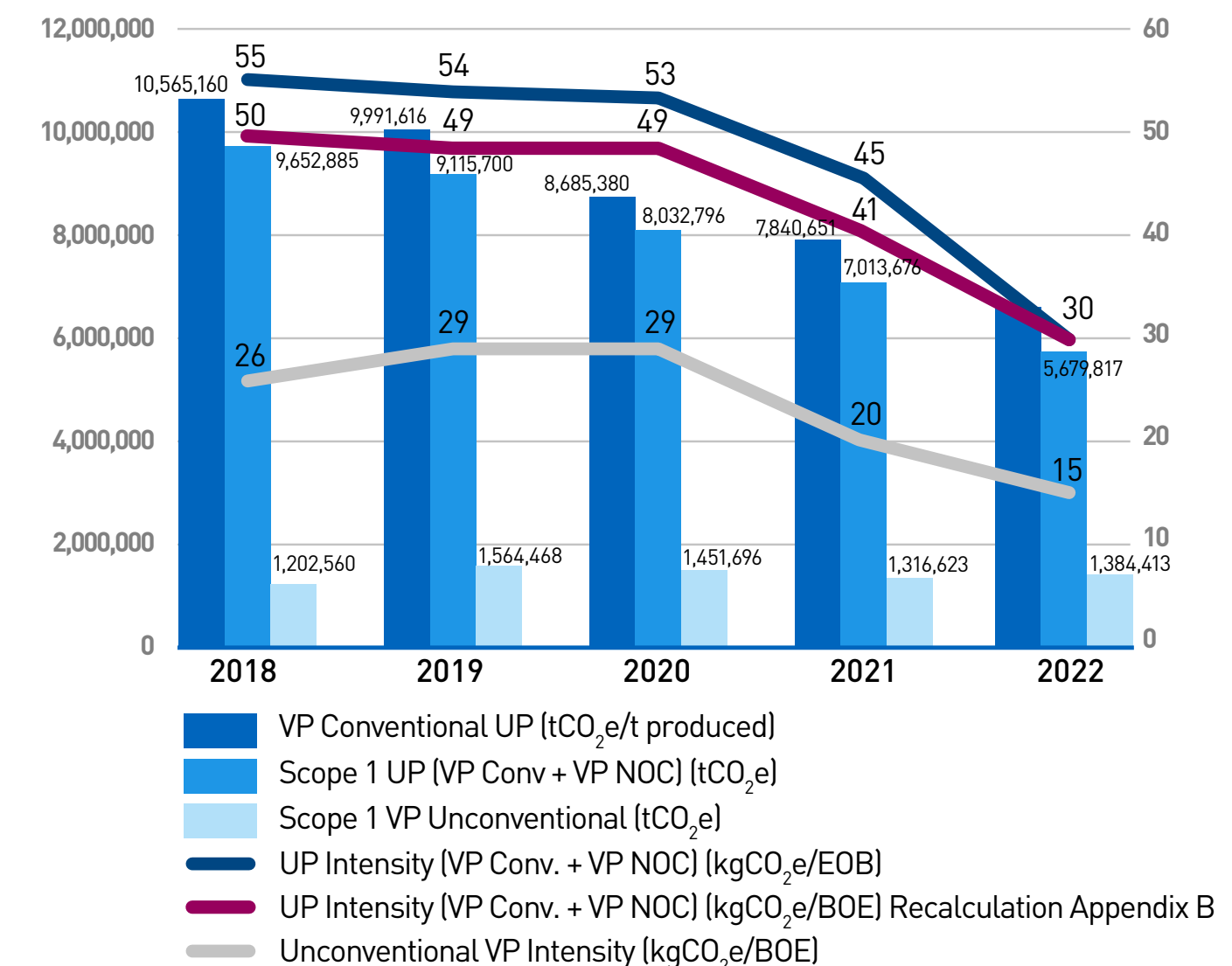
“With an 16% decrease, 2022 was the fifth consecutive year when the direct emissions intensity lowered earlier than our goal to reduce this indicator by 30% for 2027, based on 2017, achieving a 34% decrease.”

¹ Based on API, Compendium of Greenhouse Gas Emissions Methodologies for the Natural Gas and Oil Industry, 2021.

INTENSITY OF GHG EMISSIONS SCOPE 1



GHG EMISSIONS SCOPE 1 UPSTREAM Absolute (tCO₂e) - Intensity (kgCO₂e/BOE)



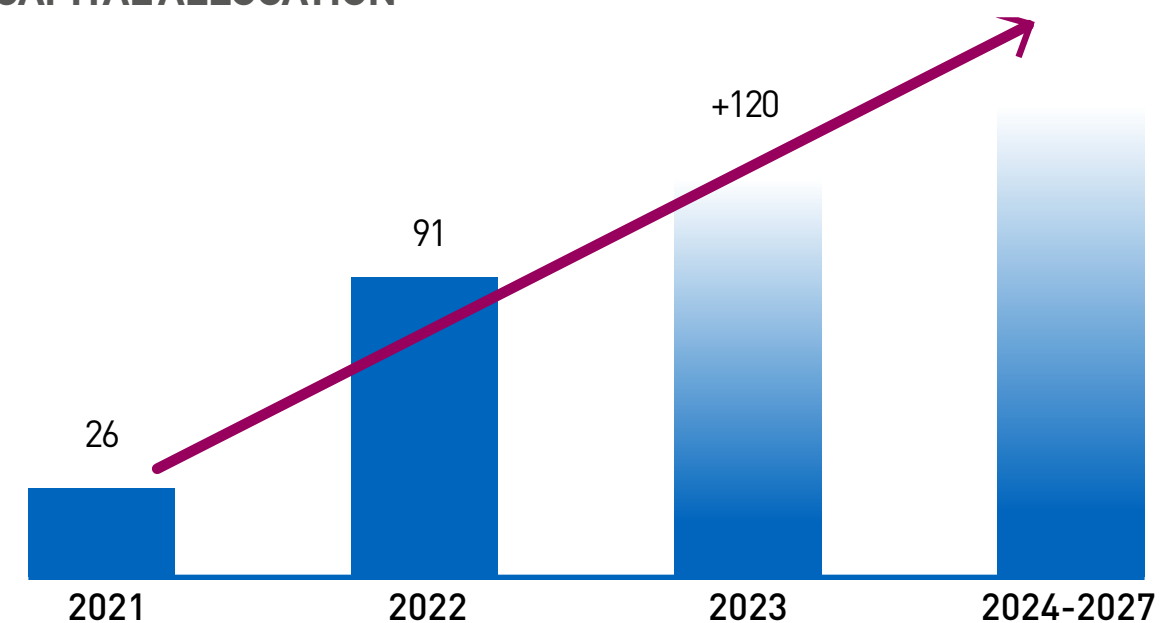
The reduction in recent years is due to various actions, including the change in the portfolio from Upstream to non-conventional ($\uparrow 3,506,441$ t O&G in 2022) from conventional ($\downarrow 1,531,035$ t O&G), which implies a less intensive total production in emissions since non-conventional generates 66% less GHG emissions per ton of production compared to conventional in 2022.

Other factors include the optimization of the GHG emissions calculation methodology in the conventional segment and the execution of energy efficiency and emission reduction projects, such as installing Vapor Recovery Units (VRU), optimizing heating systems and compressing and improving management of relief systems, among others.

During 2022, direct GHG emissions fell 19% compared to 2021 in Upstream, including a reduction in hydrocarbon flaring of 12.5% (490,401 t). In the Downstream area, there was a 5% increase in direct emissions due to greater processing of crude oil in refineries.

“During 2022, more than 90 million dollars were invested in projects with an impact on decarbonization in the different company businesses, with an increase of 350% compared to 2021. For 2023, the budget is more than 120 million dollars.”

CAPITAL ALLOCATION



Featured Projects

The aforementioned investment belongs to more than 100 initiatives in the different areas of operation, with an annualized impact on emissions of more than 450,000 tCO₂e/year. Among the main projects to be highlighted are the following:

- The comprehensive venting mitigation plan in NOC: Given the identification of an increase in flare venting in the La Amarga Chica (LACH) area due to lack of capacity and the emission in tanks in Loma La Lata (LLL), new evacuation networks, systems were optimized to take advantage of remaining capacity in other assets and liquid stabilization stages were installed before it was stored in tanks. The project used an approximate investment of US\$ 17 M. The main impact was obtained by reducing flaring of more than 150,000 m³ standard per day (SCMD) and a capture of 16,000 SCMD of raw emissions, implying an emission reduction of about 260,000 tCO₂e/year.

Along the same lines as the previous project, with an impact on gas processing and dispatch capacity, work continued for the new start-up of the LL TEX plant with an investment of US\$ 36 M in 2022.

In the Conventional Upstream, in the Santa Cruz operations, the well electrification project continues, a multi-year project that expects to migrate more than 1,000 wells that use individual combustion engines to high-efficiency electric motors with variable speed drives. In 2022, an investment of US\$ 7.2 M between electrical transmission facilities and well conversion was required, migrating a total of 103 in 2022, reaching 470.

In NOC operations, light oil and continuous growth, actions were carried out to adapt steam recovery units and install new equipment with an investment of US\$ 2.7 M and an impact of more than 41,000 tCO₂e/year.

In Downstream operations, the heat recovery projects in CK1 stand out, and the retubing of the FCCA Caldereta C402, with an impact of 30,800 tCO₂e/year and a total investment of more than US\$ 9 M.

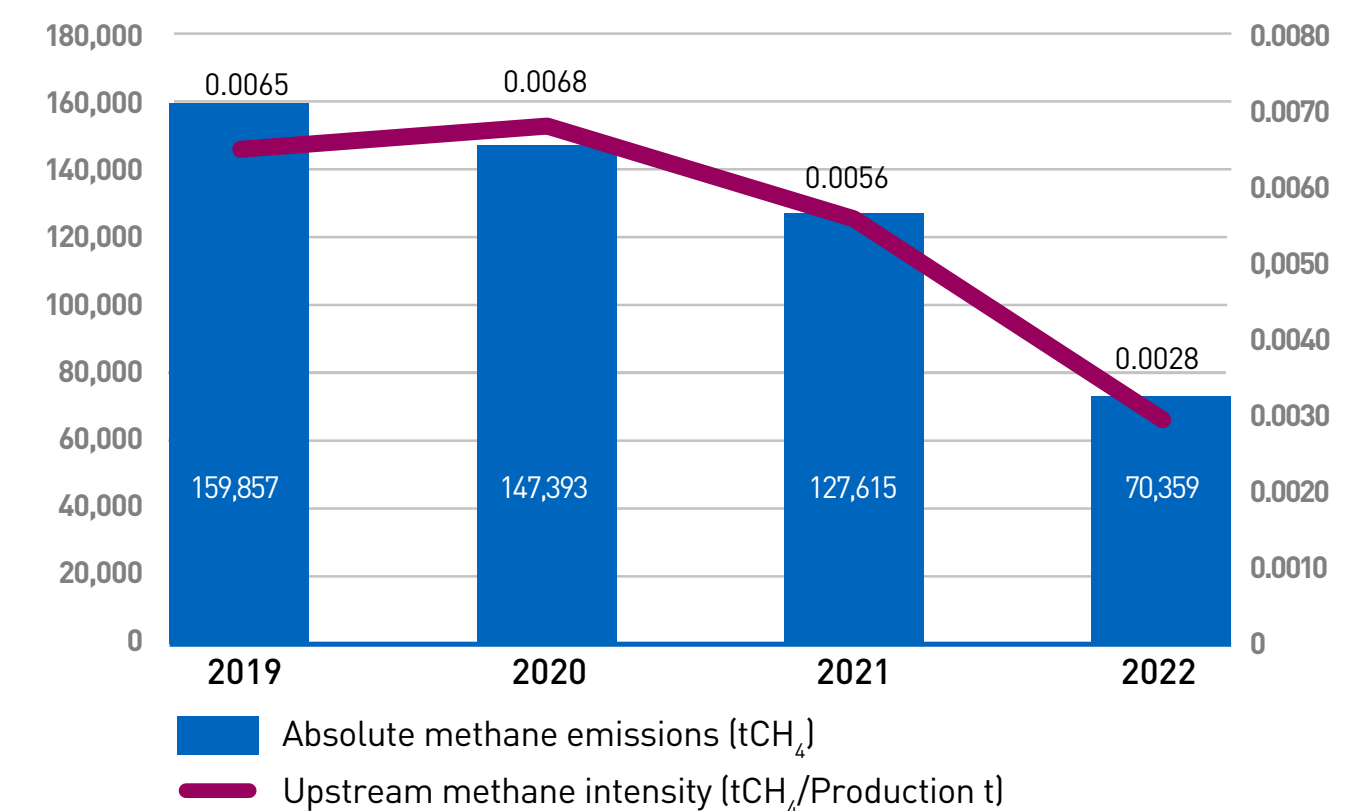
Reduction of methane emissions

“In 2022, total methane emissions were 70,359 t (-44% vs. 2021), accounting for 18% of YPF's scope 1 CO₂e emissions, with 99% produced in Upstream activities through vents or leaks. For this reason, since 2020 we have managed the evaluation, detection and measurement of methane emissions and vents with different types of technologies such as satellite and aerial images to strengthen the activities carried out on the ground with portable detection cameras.”

In 2022, work continued on the results of the survey carried out at the end of 2021, where a total area of 1,300 km² was flown over in the Neuquén province. In 2022, new methane detection satellite images were available, in which no detections associated with leak events were found.

Consequently, Upstream continued with the deployment of surface leak detection and repair (or LDAR) campaigns with the incorporation of new equipment and services that use ultrasound and/or infrared technology; this process, which is already part of the standard maintenance management, expects to carry out at least one annual visit by 2023 per gas production or processing facility.

METHANE EMISSIONS - TOTAL YPF GROUP



Additionally, in 2022, the procedures for carrying out pilot tests our operation's new technologies began, such as measuring methane emissions with drones, installing permanent methane detection and quantification sensors, and assembling a multi-spectral detection camera as well as quantifying methane.

Energy Efficiency

GRI: 302-1, 302-3, 302-4

With a view to reducing the emissions linked to consuming and purchasing energy, at YPF we focus searching for higher levels of energy efficiency in every business as well as the progressive use of energies that have a lower carbon footprint, including renewable sources through YPF LUZ.

In the 2022 results, an increase in net energy consumption is observed. This is partly due to the increase in production and activity which is linked to a marginal increase in energy intensity. In addition, it is mentioned that unlike what happened with the emissions inventory, in the migration of the inventory to Sphera, the information was improved and the value reported on the 2021 base was increased.

Regarding the actions to improve efficiency, it has been observed that most of the actions presented in the previous emission reduction topics have an impact on the use of energy.

Additionally, in Upstream, we continue with the deployment of the energy management system and in 2022 we unify its management with actions that have a direct impact on decarbonization in order to align both fronts and optimize the use of resources, including the focus on routine zero flaring and targeted reduction of methane emissions. In Conventional Upstream, work was done in cells with dedicated teams from operations, and in Non-conventional ones the position of energy transition leader was created, reporting directly to the vice president.

In Downstream, with a US\$ 30 M investment, the refinery of the La Plata Industrial Complex completed the commissioning of

the Catalítico A plant, which allows for converting low-value hydrocarbon streams that come from other units of the refinery into higher-value and utility products, such as gasoline, industrial raw materials, liquefied petroleum gas and diesel. Our three refineries, La Plata, Luján de Cuyo and Plaza Huincul, have energy management systems (EMS) certified under the ISO 50001 standard.

2022 ENERGY CONSUMPTION	2022 ENERGY INTENSITY	ELECTRICITY PURCHASED FROM RENEWABLE SOURCES
139,919,349 GJ	3.96 GJ/ Production Unit	2,433,160 GJ
↑ 7% vs. 2021	↓ -3% vs. 2021	↑ 12% vs. 2021

Note: Calculated on local and foreign market sales of gasoline, diesel, jet fuel and bunker.

NEW TECHNOLOGIES AND ENERGETIC SOLUTIONS

GRI: 3-3

YPF not only seeks to decrease its carbon footprint in the production of hydrocarbons, but to also offer finished oil and gas products that generate fewer CO₂e emissions to its customers. In order to achieve this goal, we focused on adapting refineries to the new specifications for low sulfur fuels and lighter hydrocarbons to meet customer demand and expectations.

Scope 3 Emissions

GRI: 303-5

Scope 3 represents 85% of the company's total emissions, with the use of products sold (Category 11¹) being the most relevant.

In 2022, Scope 3 emissions were 69,117,924 tCO₂e (+11% vs 2021).

¹ Calculated on local and foreign market sales of gasoline, diesel, jet fuel, LPG and bunker.

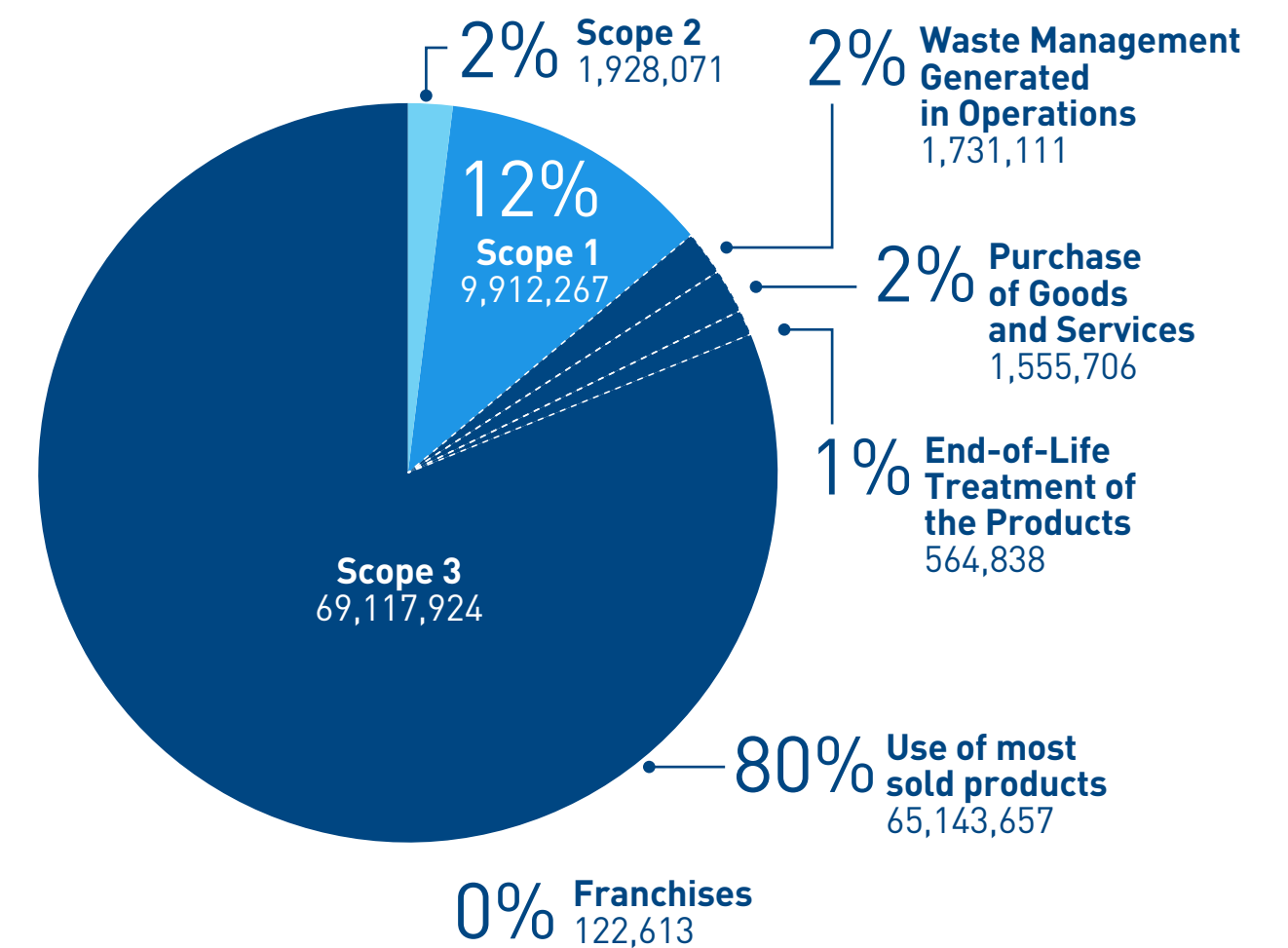
The increase is mainly due to the rise in fuel sales (gasoline and diesel). Emissions corresponding to the purchase of goods and services also increased (+21% vs. 2021), due to an increase in Upstream purchases related to pipes, tubing and the Downstream segment, due to the importation of diesel. Regarding the waste management generated, the increase was 62% vs. 2021.

We are working on developing an indicator of the company's carbon intensity (gCO₂e/MJ), which considers the emissions generated during the production and use of the products sold per unit of energy that those sales account for.

Capture, Storage, and Transformation of GHG Emissions

We are looking for new solutions for carbon dioxide and methane emissions management, in order to cooperate in the achievement of the goals set out by YPF in two research lines. In 2022, we implemented the following activities:

TOTAL YPF EMISSIONS (TCO₂E)



- **ATLAS CO₂:** Y-TEC prepared an atlas for the evaluation of basins for the storage of CO₂ in geological units of Argentina in collaboration with the YPF Exploration Management, the Universidad Nacional de Río Negro and the Universidad Nacional del Sur.
- **DISCO2 STORE:** Participation in an international project to mitigate the risks associated with the geological storage of CO₂ through knowledge of subsoil technologies.
- **Agreement with Conicet and the Universidad Nacional de Cuyo:** Evaluation of innovative technologies for the capture and sustainable recovery of CO₂ (Nades Project).

YPF LYTIO

“Lithium is the metal with the highest energy storage capacity per weight unit. Argentina shares one of the largest lithium reservoirs in the world with Bolivia and Chile and it is estimated to have the potential to increase its production from the current 37,000 tons per year to more than 370,000. This is the reason why it has a privileged spot in current and future energy strategies, especially due to its usefulness for manufacturing batteries to store intermittent renewable energy and foster electro-mobility.

YPF plays a prominent role in the entire lithium value chain, from the salt flat to batteries. YPF LYTIO, a new company 100% owned by YPF, concentrates its activities in the upstream and downstream of lithium, carrying out exploratory activities in the salt flats and maximizing opportunities in the downstream, leveraging on the competitive advantages that YPF has in energy supply, chemical industries and logistics. Also, Y-TEC carries out research and development activities of direct separation technologies, manufacturing of active materials, cells and batteries. Through both companies, YPF collaborates closely in the development of the lithium value chain with the National Government and lithium-producing provinces, such as Jujuy, Salta and Catamarca.

The assembly of the first National Lithium Cells plant is in its final stage and is emerging as a small-scale technology development and transfer center that will produce lithium cells and batteries. The plant, developed jointly with the Ministry of Science and the National University of La Plata, has an initial production capacity of between 5 and 9 MWh/year. As a final goal, the project is expected to help acquire technological experience and knowledge needed for future development of similar plants throughout the country. In this sense, the provinces of Santiago del Estero and Catamarca are being advised on how to install cell and battery plants through technology transfer contracts.

Y-TEC has developed R&D projects with different groups from CONICET. Moreover, it has laboratories in its Berisso plant, where active materials based on lithium for manufacturing batteries are developed. It also acquired a pilot plant with Chinese technology to perform industrial escalation trials. It also cooperates with the Research and Development Center in Advanced Materials and Storage, located in the province of Jujuy, in developing a process to extract lithium from brines through more efficient and sustainable electrochemical methods than the current ones.

Nature-Based Solutions

Nature-based solutions are actions that collaborate to protect, sustainably manage, and restore natural and modified ecosystems. Thus, in this way, they become a fundamental ally that do not replace decarbonization processes, but that contribute to carbon sequestration, adopting solutions inspired and supported by nature which generate environmental, social and economic benefits.

During 2022, we developed an action plan to design and develop the company's strategic framework, which allows for defining and implementing the portfolio of additional projects for carbon capture (CO₂), with Nature-Based solutions in the Argentine territory.



SUSTAINABILITY REPORT 2022

MESSAGE FROM THE PRESIDENT

MESSAGE FROM THE CEO

YPF IN FIGURES - 2022

COMPANY PROFILE

01. ENERGY COMPANY

02. COMMITMENT TO SUSTAINABILITY

03. CLIMATE ACTION

Climate Challenge and Energy Outlook

Road Map to Climate Change

Resilience to Climate Change

Lower Carbon Oil and Gas Operations

New Technologies and Energetic Solutions

Lower Carbon and Renewable Energy

04. SUSTAINABLE PRODUCTION

05. HEALTH AND SAFETY

06. PEOPLE

07. SHARED SOCIAL VALUE

08. ETHICS AND COMPLIANCE

LEGAL NOTICE

ABOUT THIS REPORT

APPENDICES

EXTERNAL REVIEW REPORT



The solutions are focused on three areas:

- Forest Masses: Development of silvicultural tasks that foster the health of planted or native forests.
- Drylands and Grasslands: Restoration of degraded lands or in a state of desertification.
- Wetlands and Water Bodies: Conservation of areas in flooded conditions or with soil saturated with water for considerable periods of time.

LOWER CARBON AND RENEWABLE ENERGY

GRI: 3-3

YPF LUZ generates 7.8% of the country's electric power and has renewable energy contracts for a capacity of 397 MW, making it the second largest renewable energy generator in Argentina and fifth in the ranking of electric power producers in the national electric power market. This allows for preventing emissions of 980,500 tons of CO₂ per year.

Thermal energy

YPF LUZ began to study the possibility and potential of green H2 produced with renewable energy and CO₂ capture in thermal power plants. The capture of CO₂ from thermal power plants would allow for energy to be generated steadily and consistently without any environmental impacts.

During the period, work was done to fine-tune the start-up of the Ensenada de Barragán Thermal Power Plant (CTEB), which will be able to supply 847 MW to the south of the Buenos Aires province. The project required an investment of US\$ 250 M by YPF and Pampa Energía as well as the participation of 1,900 workers. The power plant which opened in January will supply 1,500,000 homes and industries without the need to consume more fuel and will guarantee a reliable supply in an area that has high industrial and residential consumption. Combined cycle operation will allow the CTEB fuel savings of US\$ 120 M per year and will contribute to consolidating a cleaner generation park, since it will not produce additional emissions.

Wind Energy

YPF LUZ provides electricity supply coming from three wind farms with full operation in Manantiales Behr (Chubut province), Los Teros I and II (Buenos Aires province) and Cañadón León (Santa Cruz province), which allow a 29.3% of YPF's electricity demand is covered by renewable energy.

During 2022, YPF LUZ began with the development of General Levalle, the fourth wind farm of YPF LUZ, which will have a capacity of 155 MW in General Levalle, in the south of the Cordoba province. With an approximate investment of more than US\$ 260 M, the park will have a capacity factor of more than 50% and will avoid the emission of more than 350,000 tons of carbon dioxide equivalent per year.

Solar energy

YPF LUZ began construction in 2021 of its first Solar Photovoltaic Park (Parque Solar El Zonda), in the San Juan province. The first stage contemplates installing 100 MW of capacity and it is planned to expand in two additional stages of 100 MW each to obtain a total capacity of 300 MW, which will make it the largest solar park in Argentina.

INVESTMENTS IN RENEWABLE ENERGY GENERATION



SAN JUAN Parque Solar El Zonda

The first 100 MW start operations during the first semester of 2023. It will be the biggest solar park in Argentina. It will generate renewable energy for industrial clients at the MATER.

CÓRDOBA Parque Eólico General Levalle

Operations planned to start by 2024. It will generate renewable energy for industrial Clients at the MATER, avoiding more than 350,000 tCO₂e emissions a year.

BUENOS AIRES Parque Eólico Los Teros (I y II)

Installed capacity: 175 MW
2022 generation: 795 GWh
Emissions avoided in 2022: 387,561 tCO₂e
2022 capacity factor: 52%
[Maximum of 60.1%]

CHUBUT Parque Eólico Manantiales Behr

Installed capacity: 99 MW
2022 generation: 514 GWh
Emissions avoided in 2022: 249,806 tCO₂e
2022 capacity factor: 62%
[Maximum of 70%, the largest of the country]

SANTA CRUZ Parque Eólico Cañadón León

Installed capacity: 123 MW
2022 generation: 504 GWh
Emissions avoided in 2022: 244,078 tCO₂e
2022 capacity factor: 50.4%
[Maximum of 69.5%]

YPF LUZ 2022

- **397 MW** installed capacity
- **1,812 GWh** generated renewable energy, +50% versus 2021
- **881,445 t CO₂** equivalent emissions avoided
- **AR\$ 15,317 M**, sales generated from renewable energy, +100% vs. 2021

Plans for new capacity 2023-2024

- **US\$ 81 M**, investments in renewable energy generation in 2022, 50% of the total CAPEX of YPF LUZ
- **455 MW** of solar and wind additions (reaching 852 MW total)

SUSTAINABILITY REPORT 2022

MESSAGE FROM THE PRESIDENT

MESSAGE FROM THE CEO

YPF IN FIGURES - 2022

COMPANY PROFILE

01. ENERGY COMPANY

02. COMMITMENT TO SUSTAINABILITY

03. CLIMATE ACTION

04. SUSTAINABLE PRODUCTION

Environmental management policies and systems

Water Management

Biodiversity Management

Waste Management

Site Closure and Recovery

Air quality and air pollution near populated areas

05. HEALTH AND SAFETY

06. PEOPLE

07. SHARED SOCIAL VALUE

08. ETHICS AND COMPLIANCE

LEGAL NOTICE

ABOUT THIS REPORT

APPENDICES

EXTERNAL REVIEW REPORT



04. SUSTAINABLE PRODUCTION

MATERIAL TOPICS:

- WATER AND EFFLUENTS
- BIODIVERSITY AND IMPACT ON ECOSYSTEMS
- RESPONSIBLE WASTE MANAGEMENT
- AIR QUALITY AND LOCAL ENVIRONMENTAL POLLUTION

12 PRODUCCIÓN Y CONSUMO RESPONSABLES



ENVIRONMENTAL MANAGEMENT POLICIES AND SYSTEMS

SASB EM-EP-160A.1, EM-MD-160A.1

Our Operational Excellence Management model combines requirements of ISO 45001, 14001 and 9001 standards as well as industry standards. It is implemented in all of the company's businesses.

This management model includes environmental management focused on identifying significant risks and impacts and their timely control throughout the value chain. This task is conducted through environmental impact assessments, specific risk studies, permanent monitoring and specific control actions in the value chain in compliance with legislation and internal regulations. We collaborate with expert or academic institutions to enhance knowledge.

In accordance with our procedures, we adapt measures to the local context where the company's activities take place in order to avoid, minimize, mitigate and, if necessary, compensate for negative impacts. Through reports and reviews, we periodically evaluate our performance and establish improvement actions when appropriate. All environmental studies and monitoring plans, among others, are submitted to the authorities of each jurisdiction, thus becoming public information. In the case of our most relevant projects, we communicate information about our management of environmental aspects directly through our website, including pages dedicated to our activities in Vaca Muerta and the offshore exploration project. In addition, authorities in the provinces where we operate make information about the environmental assessment and qualification process available to the public, for example: Neuquén, Chubut, Mendoza, Buenos Aires. These processes ensure that all stakeholders can clearly and properly access information on how we manage potential environmental and social impacts throughout our project's life cycle. Our regulations consider evaluating environmental impacts for all projects from the definition phase to the closure and abandonment of the facility.

“At YPF, we value the importance of biodiversity and natural capital and strive to drive our environmental management with high standards and responsibility. We operate within the framework of the precautionary principle, compliance with current regulations and our commitments expressed in our Sustainability and Operational Excellence policies”.

INVESTMENTS AND EXPENDITURES IN INTEGRITY AND ENVIRONMENT (2022)

US\$ 548
MILLIONS

73.3%
CAPITAL
INVESTMENTS

23.7%
OPERATING
EXPENSES

We have a series of internal standards which establish minimum performance criteria and complement the requirements of the local regulatory framework of each site in terms of emissions management, waste, water use and biodiversity preservation. Our Operational Excellence Management model contains clear guidelines that define our strategy.

100% of our YPF industrial centers are certified with the ISO 45001 (occupational health and safety), ISO 14001 (environment) and ISO 9001 (quality) Management Systems. For YPF, management practices and policies apply to the entire YPF Group and to all operations. We train people on the applicable environmental legal regulations, their interpretation, environmental legal legislation and good practices that lead to the proper functioning of the processes related to their business unit. In our conventional and non-conventional upstream operations, we manage risks and potential significant environmental impacts related to well design, operating procedures to minimize impacts and waste management, especially drill cuttings as well as produced and return water derived from oil extraction. We also focus on the use of water for hydraulic fracturing in non-conventional activities and on the quality of treated water discharges. On the other hand, the focus on processing plants and industrial complexes is on reducing and controlling non-GHG gas emissions and also on the quality of treated water discharges.

OPERATIONAL EXCELLENCE MANAGEMENT MODEL

- Guaranteeing the commitment of the leaders for its implementation.
- Defining roles and responsibilities for the implementation of the Policy.
- Compliance with applicable and mandatory external regulations.
- Commitment to continuous improvement of environmental performance.
- Setting goals to reduce environmental impact.
- Raising awareness among internal and external stakeholders about the Environmental Management Policy and its potential impacts.

SUSTAINABILITY REPORT 2022

MESSAGE FROM THE PRESIDENT

MESSAGE FROM THE CEO

YPF IN FIGURES - 2022

COMPANY PROFILE

01. ENERGY COMPANY

02. COMMITMENT TO SUSTAINABILITY

03. CLIMATE ACTION

04. SUSTAINABLE PRODUCTION

Environmental management policies and systems

Water Management

Biodiversity Management

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Air quality and air pollution near populated areas

05. HEALTH AND SAFETY

06. PEOPLE

07. SHARED SOCIAL VALUE

08. ETHICS AND COMPLIANCE

LEGAL NOTICE

ABOUT THIS REPORT

APPENDICES

EXTERNAL REVIEW REPORT

During 2022, and in order to improve the quality of our data, a new system was implemented in the Sphera platform; this resource allows us to collect all the information generating robustness, traceability and reliability in the data at the time reports for internal and external stakeholders are generated. Business units report quarterly all the necessary information in accordance with the calculation methodologies established in the Environmental Parameters Guide, which are updated periodically. An external consultant verifies the parameters once a year according to the Limited Assurance Report included in the Sustainability Report.

Exploration projects are an essential part of YPF's culture. Search for offshore resources, with the highest safety standards, represents an opportunity to contribute to Argentina's economic development. As operators of the CAN-102 project, two public hearings were held in May and December 2022, respectively, to gather public concerns and comments on the project and its Environmental Impact Study, in order to ensure effective participation in decision-making and, at the same time, contribute to improving the process.

OFFSHORE PROJECTS

During the initiation of the CAN-102 Offshore Seismic Impact Study project, a disclosure document and a communication plan were prepared for the purpose of informing stakeholders and achieving an open dialog with the community and potentially impacted parties. The approach prioritizes proactive communication and consultation with key stakeholders and information dissemination, including the dedicated website.



Caring for the environment An industry imperative. Offshore work is conducted with the highest level of safety, with special dedication to the protection of people, biodiversity and the local environment.



Follow-up and control In the course of the evolution of activities (seismic and wells), the application authority is informed in a timely manner of the evolution of the seismic activity and its impact, which allows additional measures to be taken to ensure environmental protection.



Legislation Before starting operations, an Environmental Impact Study is prepared and submitted for approval by the enforcement authority. Argentina is one of the few countries in the world where this type of initiative includes citizen participation through a Public Hearing.



Ministry of Environment and Sustainable Development Key player in approval participation. It adds technical knowledge to ensure safe operations, complying with international environmental agreements and treaties.

WATER MANAGEMENT

GRI: 3-3, 11.6.1, 303-1, 303-2, 303-3, 303-4, 303-5

“We are committed to managing water with a comprehensive approach focused on the sustainability of the resource, taking into account its shared use with the communities where we operate, the monitoring of water collections and discharges, efficiency in its use, prioritizing water-stressed areas, the proper management of the effluents generated, and raising awareness about water care.”

Water availability and quality are essential to maintaining operations in exploration, production and refining activities. We collect water from surface and groundwater sources and discharge it after having treated and conditioned the effluents, mainly in surface bodies for Downstream and in deep groundwater bodies for the Upstream segment.

For non-conventional activities, we evaluate the possibility of partially replacing fresh water with brackish groundwater and flowback recycling. In the Santa Cruz province, the compatibility of produced water as a fracturing fluid has begun to be studied, while in the Neuquén province an increase in water demand is expected due to greater non-conventional activity in the following three years.

In 2022, we reached 60% of the facilities monitoring with the highest water use efficiency verification, taking into account all the baseline studies in the Luján de Cuyo Industrial Complex (CILC), La Plata Industrial Complex (CILP), Non-Conventional (NOC), Tucumán Thermal Power Plant (CTT) and Rincón de los Sauces (RDLS) as well as implementing efficiency measures in CILP. We conduct hydrogeological studies, the content of which becomes mandatory, which implies that all drilling, completion, intervention and abandonment of wells comply with the protection depths established in the studies. In 2022, studies of the Santa Cruz province and the Neuquina basin in Mendoza were submitted to the provincial enforcement authorities. Additional-

PILLARS OF OUR WATER MANAGEMENT

National and local identification of water risks

Water use impact assessment: The Global Environmental Management Initiative's Local Water Tool (LWT2) has been applied in complexes and plants in Mendoza, Tucumán, Río Negro, Buenos Aires, Chubut, Neuquén and Tierra del Fuego provinces.

Overall assessment of the water risk associated with the operations: We use the World Resources Institute's (WRI) Aqueduct Water Risk Atlas tool to identify water risk areas associated with our operations with water collection points, and this information is integrated into our planning activities.

Water risk quantification pilot: In the Chubut Business and through the Waterplan platform, a more granular tool than those used so far, we visualize more likely risk scenarios (partial or total restriction of water supply and the increase in the internal price of water). The platform also provides an analysis through the SWAT+ model, which estimates the evolution of groundwater recharge and surface runoff over the last 40 years.

Implementation of a financial risk assessment methodology for water security: We applied it in the 29 priority facilities, with a plan to extend it to the rest of the plants.

ly, we participated in the presentation of the Water Security form (CDP) during the year, to formalize and disclose our water management, obtaining a grade (B-).

Water collection and consumption

GRI: 11.6.4, 11.6.6

Total collected water in 2022 represented 0.8% less than the previous year, considering Downstream, Upstream and Shared Services. The decrease was greater in water produced (-2.6%), which reached 137,486 megaliters. Meanwhile, external collection increased to 56,445 megaliters, a year-on-year increase of 3.9%.

Water use optimization

Evaluation of water use efficiency: The facilities with the largest collections, which represent 80% of the total, were surveyed. Work is underway at these facilities to design measures to improve water use efficiency.

Water Value: Using the Water Risk Monetizer tool, we established internal prices for water, which must be used in the sensitivity analysis of all critical investment projects (those evaluated by the Investment Committee).

Reduction commitment: Contributing to the efficient use of freshwater, the company established a commitment to reduce its freshwater collection intensity by 5% by 2026, based on an average 2017-2019 baseline.

Assessment of resources

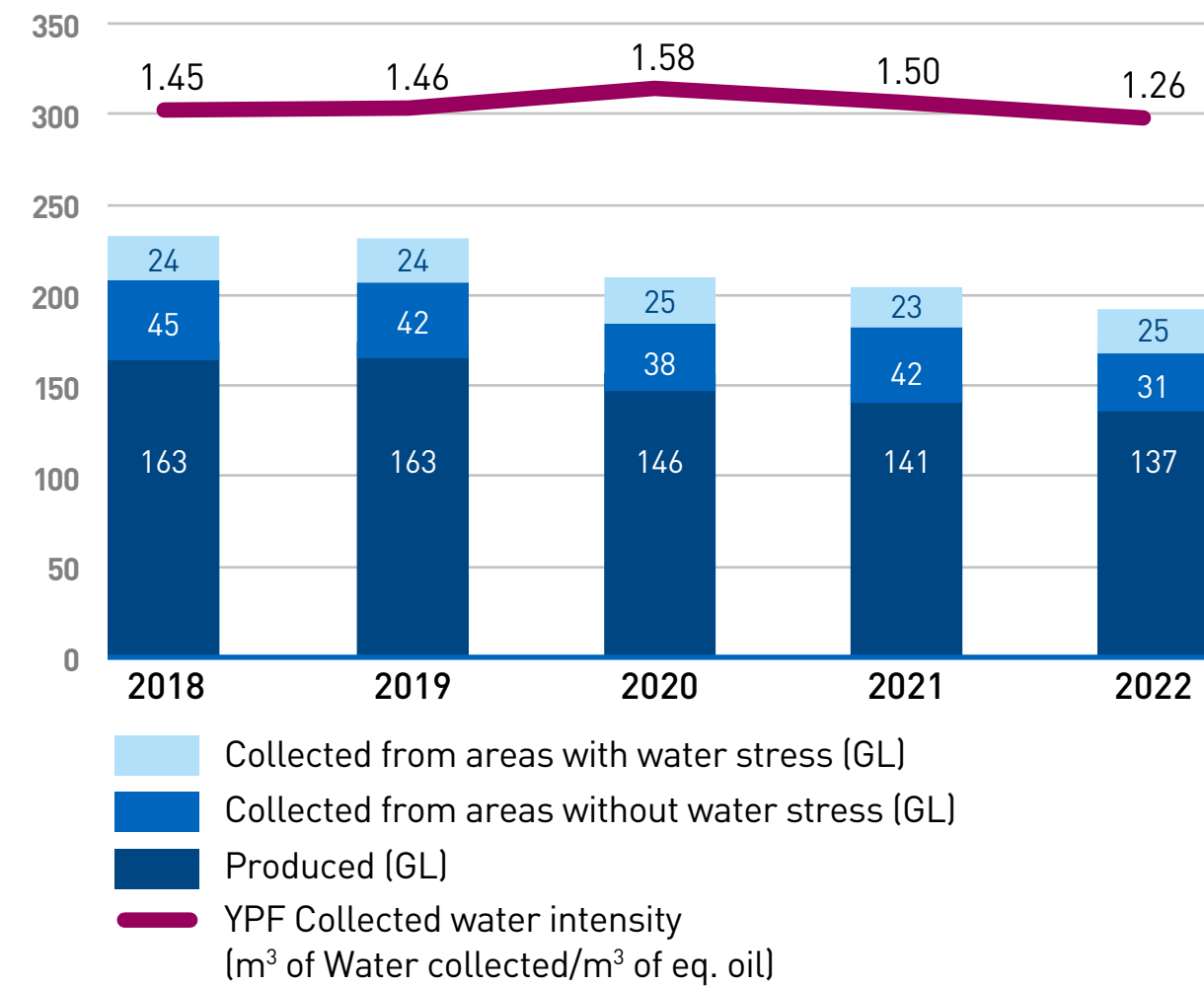
Hydrogeological resource studies: With an investigation model that uses information obtained from the drilling of oil wells, we mapped the aquifers that need to be protected. In 2022, studies were completed in Tierra del Fuego province and the Neuquina basin of Mendoza. These works have direct application in exploration, drilling, stimulation and well abandonment activities.

Plant surface runoff studies: Regarding passive defense actions against possible tank spills caused by a combination of climatic and geomorphological effects, in 2021 and 2022 we began implementing management measures indicated in the reports, and in 2023 we plan to audit their implementation.

Broken down by business, Upstream increased by 9.2% due to the increase in production at NOC, while Downstream remained stable, with a 1% deviation. Of the total collected in these businesses, 43.4% was in water-stressed areas.

In the Downstream area, during the five-year period 2017-2022, in the industrial complexes of Plaza Huincul (CIPH), Luján de Cuyo (CILC) and La Plata (CILP) we observed a downward trend in water consumption. For Upstream, there was a downward trend in water collection in Conventional for the same period, while in the case of Non-Conventional, water collection increased due to the increase in production.

EXTRACTED WATER¹



Effluent and Water Discharge Management

GRI: 303-3, EM-EP-140A.1, EM-RM-140A.1, EM-EP-140A.2

At YPF we seek to reduce, reuse and recycle production water and effluents generated. If we are not able to do so, we treat and dispose of it in accordance with the requirements of the discharge authority of the discharge site. Where no regulations exist, we follow current industry standards.

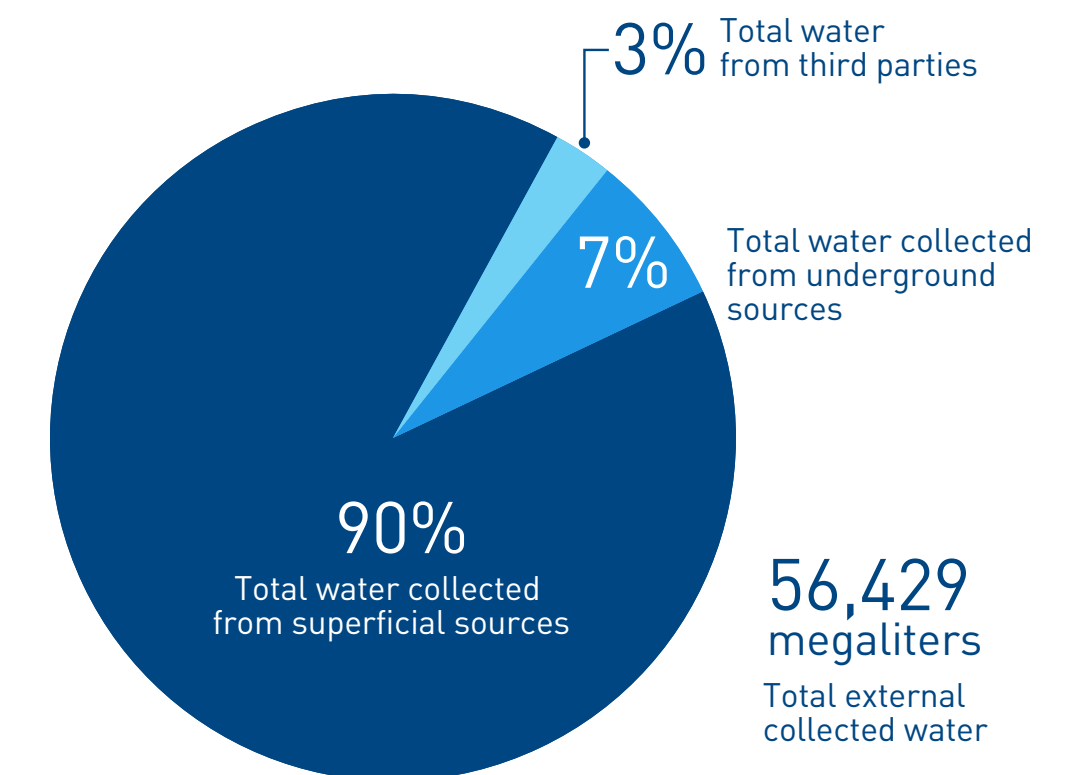
In 2022, discharged water by YPF increased by 4% year-on-year due to increased Non-conventional production which caused Upstream discharges to increase. In Gas & Power and Downstream, discharges remained stable compared to 2021. Water injected decreased by 3.5% compared to the previous year, totaling 138,182 megaliters due to a decrease in produced water.

¹ Extracted water = Collected external water + produced water. Produced water is that which accompanies hydrocarbons when extracted, proceeding from the field itself, or that obtained in exploratory probing. After its treatment, it is reused for secondary recovery, hydraulic stimulation, or it is injected for final disposal.



Freshwater was specified as 88% of the total discharged water in 2022, while only 12% consisted of other water, all of which was discharged into sink wells. Water reused for the period was 144,256 megaliters, lower than in 2021 due to the decrease in water produced in conventional reservoirs. By 2022, 100% of the company's effluent was treated.

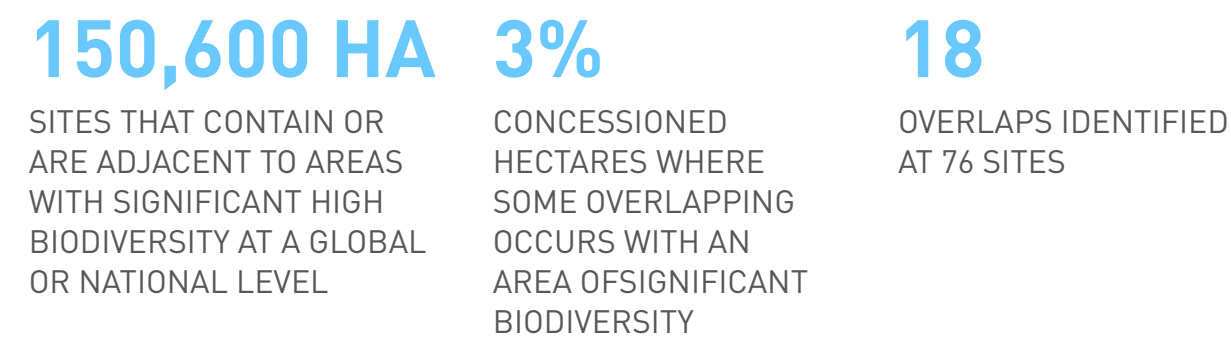
EXTERNAL WATER COLLECTED BY SOURCE



BIODIVERSITY MANAGEMENT

GRI: 3-3

“YPF is committed to caring for ecosystems and their diversity throughout the life cycle of its operations and products. Our actions in this area focus on analyzing risks, preventing impacts, rehabilitating the environment, and adopting compensatory measures when appropriate.”

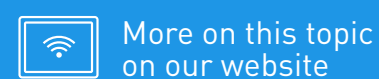


We have internal regulations for Biodiversity Management and a Guide for Biodiversity Management in Sensitive Areas. Additionally, we keep an updated survey and comprehensive mapping of sensitive areas in Argentina based on different public and official sources of information (including those of the MAB-UNESCO program), and we include the information on the company's facilities and operations within this analysis. 100% of the sites where we conduct hydrocarbon extraction and production activities have environmental impact studies that include biodiversity analysis, mitigation plans and annual environmental monitoring reports, in line with applicable legal requirements.

Monitoring, prevention and mitigation plans in sensitive areas

GRI: 11.4.4

Our upstream operations in the province of Mendoza overlap with Laguna Llanquanelo, declared a Ramsar Site, and in the Neuquén province, there are the Auca Mahuida Provincial Reserve and Protected Natural Area, totaling 56,098 hectares. In both areas, we conduct annual monitoring reports on the species as well as the ecosystem overall, in order to assess the need for further mitigation measures.



More on this topic on our website

MAIN INITIATIVES

- We began work on the development of a **Biodiversity Commitment**, which is expected to be finalized and published in 2023 and includes actions to avoid deforestation of native forests.
- Definition of the company's strategic objective that **90% of the protected areas where we conduct some type of activity have a Biodiversity Action Plan by 2026**. Within this framework, the Commercial Executive Management promoted biodiversity management action plans at an agricultural facility and two service stations.
- In the Upstream Vice Presidency, we started studies to determine the **biodiversity baseline in 12 concession areas of the Neuquina Basin**, progressing with the surveys of the fall, winter and summer seasons to detect possible impacts and strengthen or prepare the corresponding management plans.
- At the **Luján de Cuyo Industrial Complex**, we conducted **preservation activities in the ecological reserve**, a 32-hectare area created in 1999 to contribute to the conservation of wild species and provide a space for recreation, education and research. In 2022, 1,520 animals were brought in, and 1,355 rehabilitated animals were set free. In parallel, we developed a visitation program that received 200 people from schools, institutes and universities.

The Management of Biodiversity Standard establishes guidelines for the evaluation and management of impacts related to biodiversity, considering the operations controlled by YPF. It defines the following process for the identification, evaluation and management of real and potential impacts on biodiversity:

1. Delimitation of the area of influence of the activities, considering the life cycle of the business, its specific characteristics, and the real or potential scope of the primary and secondary

impacts of these activities (area directly used by the company plus the territorial scope of the potential impacts).

2. Determination of the area's sensitivity in line with the defined criteria that contemplate international frameworks: IUCN categories, national or local protected areas, UNESCO MAB Program, Ramsar Convention wetlands, UNESCO World Heritage Sites. If it is determined that the area of influence is sensitive, the area must apply the corresponding technical specification. For this analysis, YPF has developed the Environmental GIS tool which includes all the surveyed protected areas.

3. Identification of potential impacts on biodiversity, including positive and negative, primary and secondary ones that are the result of the activities, including the determination of the magnitude of their impacts. Areas identified as sensitive must implement Environmental, Social and Health Impact Studies (ESHIA) which may require the establishment of a biodiversity baseline to characterize the habitats and species present.

4. Management of potential impacts, considering a mitigation hierarchy: prevent or avoid, minimize, restore or rebuild, compensate. Areas identified as sensitive must also implement biodiversity monitoring activities and a Biodiversity Action Plan (BAP) that includes conservation actions and/or management of potential impacts.

These activities are integrated into the Environmental Management Systems of each facility. As part of applying the standard, opportunities for participation in research, conservation, education and awareness projects with external interest groups should be considered, seeking to establish local or regional alliances. In all its operations, YPF complies with Law 26,331 for the classification and protection of forests, including the definition of a sustainable management plan for native forests as part of the Impact Study.

UPSTREAM

In order to adapt operating procedures and monitoring activities to the natural variations experienced by the ecosystems, we conduct research activities in the concession areas. Using satellite imaging technology and vegetation index calculations, we have conducted a study to identify and categorize sites in need of restoration in Mendoza Norte, Regional Río Colorado and the San Jorge Gulf basin, focusing on areas where operations have been closed. We have also deployed this analysis in the Santa Cruz and Neuquén provinces.

Between Conventional and Non-Conventional Vice Presidencies, 77 annual environmental monitoring reports were conducted in 2022 for areas operated by Upstream, and the environmental baseline of the Cerro Morado Este and Río Neuquén areas was updated. In addition, a road rationalization plan was conducted through natural seeding with plowing, in which 20,000 m of roads in Santa Cruz province were worked on.

- Construction of multiple locations, in order to minimize the environmental impact associated with soil movement and road construction.
- Equipment of all tanks with waterproofed containment enclosure (reinforced concrete), risk identification and signage, with level meter, grounding and flame arrester and remote monitoring, with concealment of the facilities and painting in accordance with the environment.
- Waterproofing and drainage chamber in truck loading bays.
- Painting with ocher color in the locations and installations in order to generate a camouflaged effect with the environment. Protections for sound-generating equipment to reduce their emissions and thus minimize their impact on the environment.

DOWNSTREAM

The facilities of the Downstream Vice Presidency are associated with highly anthropized sites. We work on the preparation of biodiversity baselines for those facilities located in or near highly sensitive areas. These activities are aligned with our Vice Presidency's Strategic Plan.

YPF LUZ

We implemented a Bird and Chiroptera Monitoring Plan in the early stages of developing our wind projects, designed with international methodology. Monitoring allows us to survey the specific richness, abundance and nesting of birds and bats throughout the useful life of the parks in order to minimize the impact on the area's biodiversity. In addition, the wind farm accident rate is recorded at operating wind farms, a KPI agreed at company level and presented periodically to managers and CEO.



[More on this topic on our website](#)

OFFSHORE PROJECTS

The CAN 102 block has an area of 8,964.74 km² and is located in the North Argentina Basin of the Argentine Continental Shelf, in open waters, at depths of between 1,300 m and 3,700 m; seismic acquisition is planned for an area of approximately 2,421 km². Thus, the project is located in Argentina's Exclusive Economic Zone, and is part of the Argentine-Uruguayan Common Fishing Zone. The seismic acquisition operational area does not overlap with any natural protected areas or current or future priority aquatic areas.



Survey campaigns Between May 19 and June 14, 2022, the YTECGTGM 05 campaign was carried out on board the Oceanographic Vessel ARA Austral. The campaign's main objective was to contribute to developing an environmental baseline of the physical and biotic environment for the shelf and slope segment located between parallels -37° and -41°, on the Argentine Continental Margin.



Alliances for knowledge This campaign corresponds to the Extended Marine Geology Working Group (EMWG) of the Pampa Azul initiative. It is framed within the collaboration agreement between CONICET and Y-TEC, approved by resolution No. 4,141 of the Board of Directors in 2016, in execution since 2017 and extended in 2021.



Next lines of work

- "Analysis of available information on southern right whale satellite trails from 2014 to date."
- "Satellite tracking of right whales and Sei whales on the Argentine continental shelf."
- "Elephant seals as biological sensors for oceanographic measurements."

[More on this topic on our website](#)

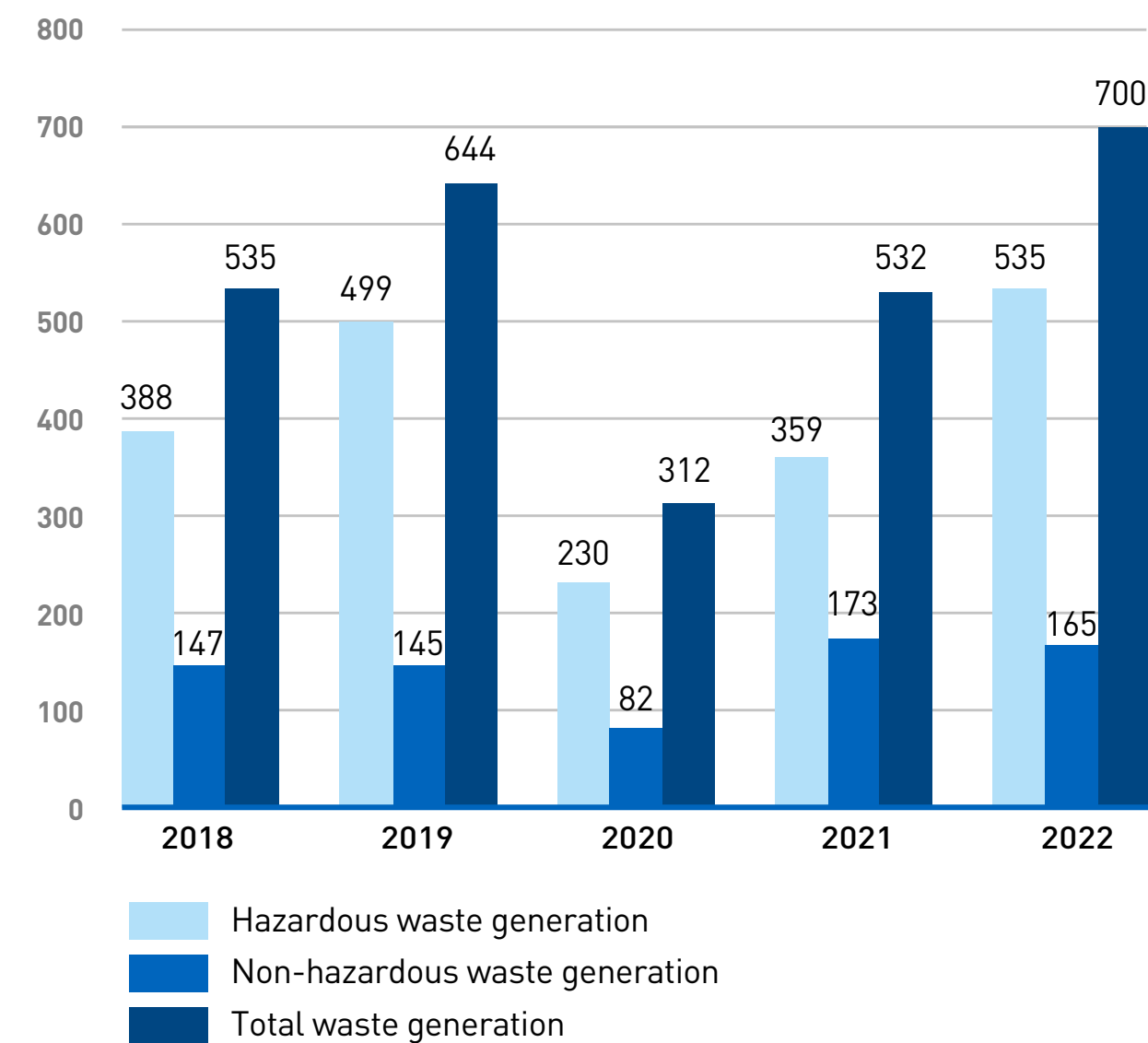
WASTE MANAGEMENT

GRI: 3-3; 306-1; 306-2

“We promote actions aimed at gradually minimizing waste generation; reducing its risk and environmental impact; reusing, recycling or recovering waste materials; ensuring proper treatment and final disposal; and establishing continuous improvement programs.”

YPF identifies among its sustainability priorities such as the circular economy and waste management; through these, it seeks to contribute to achieving the Sustainable Development Goals set out in the United Nations 2030 Agenda. In 2022, we set waste recovery objectives for each Vice Presidency, identifying year-on-year targets up to 2026. YPF as a whole aims to have a 25% recovery by 2026.

WASTE GENERATION BY TYPE (KT)



OUR CONTRIBUTION TO THE CIRCULAR ECONOMY

In 2022, we completed the third year of operation of the Circular Economy project and our interdisciplinary work team continued with implementing the associated initiatives, among which the following stand out:

- **Strengthening synergies with our customers/suppliers** to identify circular circuits in materials and waste.
- **Agreements for recycling of electronic waste:** This process was available only for operations in the Buenos Aires Metropolitan Area and was extended to all our facilities starting in 2022. To date, more than 74,000 kg of electronic waste have been sent for recycling.
- **Washing and recycling of plastics containing hydrocarbons,** prioritizing their reuse to avoid CO₂ emissions derived from incineration in Santa Cruz province.
- Evaluation of projects to reuse **discarded plastics as raw material** at YPF QUIMICA.
- Creation of the **Circular Economy category** within INNOVÁ, which allows users to submit ideas related to the improvement of waste management and the circular economy. The Circular Economy team evaluates the potential of the proposals to implement innovative ideas related to waste management.
- **Use of scrap as raw material for the steel manufacturing process:** This agreement was implemented in the La Plata Industrial Complex, and is expected to be extended to other businesses in 2023.

In our Upstream business segment, we have been working since 2012 on initiatives to systematically reduce our historical stock of soil containing hydrocarbons. In 2021, we achieved our strategic reduction target and today we maintain our inventories at operational levels. We also apply cutting-edge techniques such as stabilization and solidification; bioremediation of hydrocarbon-containing waste through bacteria; bioremediation of soils by stimulating fungal decomposition; and revegetation and ecological restoration of soils with direct seeding.

Simultaneously, we maintain the action and relationship with the Circular Economy teams of the Argentine Business Council for Sustainable Development (CEADS) and Global Compact, and we have started working with the Waste Management team of the Argentine Industrial Union (UIA).

Waste Management Generated in Operations

GRI: 306-3, 306-4, 306-5

In 2022, waste generation at YPF increased by 54% compared to 2021, reaching 700 kilotons, 51% of which belong to drilling muds and cuttings. This increase was due to increased activity associated with the operations of the Non-conventional Upstream Vice Presidency, due to the increase in new well drilling activity.

However, while hazardous waste generation grew by 77% over the previous year, hazardous waste treatment was on par, resulting in waste stocks remaining at similar levels to 2021. Total waste generation intensity (Upstream) was 0.026 kg/kg, down 5% from the previous year and 35% lower than in 2018.

Progress made in hazardous waste management includes the operation of the TRON AESA plant, located in the non-conventional oilfield of Loma Campana (Neuquén), and the start-up of the Myrbur V plant in Chubut province. Both reduce the volume of drilling muds and cuttings sent for external treatment and also allow the recovery of oil-based mud for reuse.

During 2022, a strategic valuation target was defined for 2026, with 25% of waste valued over the total waste generated+stock based on the years 2017-2019. The 2022 valuation rate was 25%, achieving the target four years ahead of schedule. The percentage of hazardous waste reused and recycled out of the total treated during 2022 was 61%.

SITE CLOSURE AND RECOVERY

GRI: 3-3

“Environmental impact assessments for all projects include an Environmental Management Plan in which actions for environmental decommissioning, abandonment and recovery are included to be implemented once the useful life of the project has ended.”

Surveys conducted each year for the Annual Environmental Monitoring Reports make it possible to evaluate the state of the area facilities, identify environmental deviations and define corrective and/or preventive actions. During the areas reversion, the site conditions and absence of environmental situations are verified.

In 2022, the survey, identification and execution of remediation actions were conducted in the exploratory areas of Malargüe and Chachahuen Sur, Mendoza province, which are in the process of being closed by the environmental authority.

To manage environmental situations - environmental degradation or deterioration resulting from previous events - we have internal regulations detailing activities related to each stage of the process, from the detection of the event to its closure. In addition, we implement restoration measures dictated by applicable regulations and Collective Labor Agreements.

These actions are managed through plans that are updated at least once a year, depending on how critical the case may be, commitments agreed to with third parties and legal requirements. The process costs are calculat-

ed according to the “Gestión de Situaciones Ambientales” (Environment Situations Management) and added to the provisions reported in the group’s financial statements, following the International Regulations of Financial Information.

AIR QUALITY AND AIR POLLUTION NEAR POPULATED AREAS

GRI: 3-3, 305-7

Management of atmospheric emissions not categorized as greenhouse gases (GHG) is aimed at minimizing them and applying treatment in accordance with local legislation.

We are a company with intensive processes in energy generated through combustion, which generates non-GHG gases that affect air quality. SO₂, NO_x, CO and particulate emissions are monitored and reduced through improvements in burners and in the different conditions to make burners more efficient and cleaner.

Volatile emissions are concentrated in our tank systems, which are monitored and included in the regular maintenance plan of our facilities.

In 2022, total NO GHG emissions were 117,302 t, increasing 14% over 2021. They were formed as follows: SO₂: 5,475 t; NO_x: 51,253 t; NMVOC: 36,776 t; CO: 20,026 t; Particles: 3,773 t This increase is linked to higher production, which generates greater storage in tanks, an increase in fuel consumption and burning to obtain/treat fuels, deficiencies in combustion components, among others.

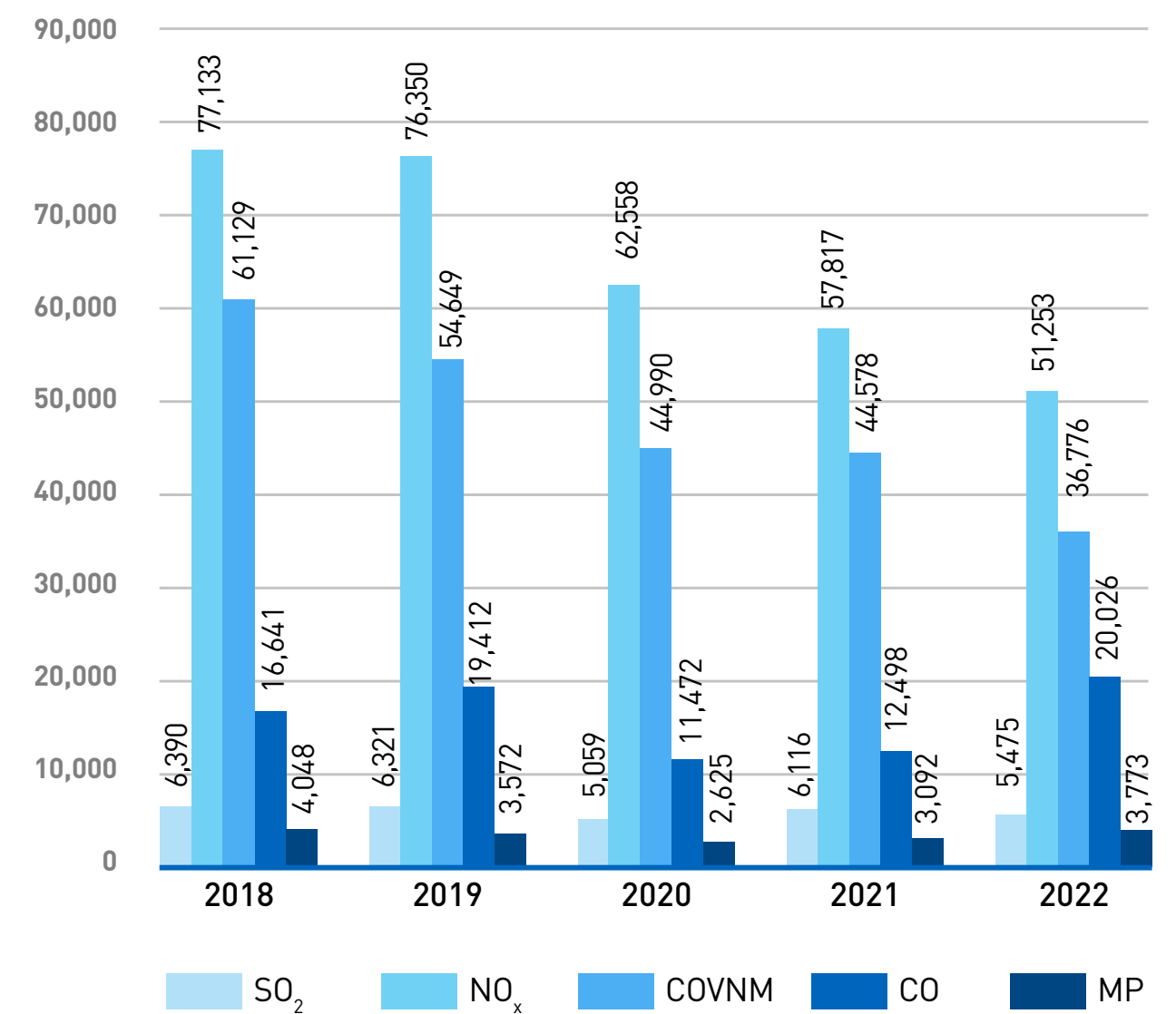
Main activities in 2022 (Downstream)

→ Survey of furnace and boiler burner technology throughout the La Plata Industrial Complex in order to keep continuously updated with the best technologies in the market and identify highly critical fixed sources for the emission of each pollutant.

→ Non-GHG emissions impact mitigation plan for the main furnaces of the complex with continuous analyzers. Maintenance and progressive changeover to better technologies of the internal air quality monitoring network.

→ Continuous air quality analyzers in different nearby neighborhoods, periodic environmental noise measurements, and air quality measurements at strategic points outside the complex with an external laboratory.

EVOLUTION OF NON GHG ATMOSPHERIC EMISSIONS (TONS)



SUSTAINABILITY REPORT 2022

MESSAGE FROM THE PRESIDENT

MESSAGE FROM THE CEO

YPF IN FIGURES - 2022

COMPANY PROFILE

01. ENERGY COMPANY

02. COMMITMENT TO
SUSTAINABILITY

03. CLIMATE ACTION

04. SUSTAINABLE PRODUCTION

05. HEALTH AND SAFETY

OHS Policies and
Management Systems

Safety of people

Safety performance

Health and prevention

Incident Readiness
and Response

Cybersecurity

06. PEOPLE

07. SHARED SOCIAL VALUE

08. ETHICS AND COMPLIANCE

LEGAL NOTICE

ABOUT THIS REPORT

APPENDICES

EXTERNAL REVIEW REPORT

05. HEALTH AND SAFETY

MATERIAL TOPICS:

- OPERATIONAL HEALTH AND SAFETY
- INCIDENT READINESS AND RESPONSE
- INFORMATION SECURITY AND CYBERSECURITY



At YPF we focus on ensuring the health and safety of all people working in the organization, as well as the reliability and integrity of our assets, businesses and projects. We are an operator of exploration activities (onshore and offshore), oil and gas production, gas plants, refineries and wind and solar farms, and we manage potential risks accordingly. These include uncontrolled wells, hydrocarbon leaks or spills, crimes, cyber-attacks, work-related incidents and work-related illnesses. Therefore, we not only operate in compliance with the current legal framework and applicable internal regulations, based on our Operational Excellence Policy, assuming baseline standards in the absence of specific legislation, but we have implemented a management system for occupational, industrial and process risks throughout our value chain, with a focus on adopting preventive actions. The Sustainability and Operational Excellence VP, reporting directly to the CEO, is responsible for setting Health and Safety standards and goals and ensuring compliance with them, following up through the Risk and Sustainability Committee.

OHS POLICIES AND MANAGEMENT SYSTEMS

GRI: 3-3, 403-1, 403-2, 403-7, 403-8

We are convinced that safety and health are a shared responsibility, therefore, all YPF's personnel and contractors are committed to complying with the applicable legal requirements and internal regulations, as well as corporate requirements related to Sustainability and Operational Excellence management, and with those requirements defined by the Vice Presidency of People and Culture in order to join the company.

Since our corporate objectives and goals also apply to our contractors, they must report on an Affidavit the resources with which they execute the defined task through the Contracted Resources System. Documentation is audited and the supplier can review the record of consequential remarks for compliance. Among the main requirements to be examined are the condition of being formally registered as a worker, annual preventive medical examinations and addiction prevention, the completion

of the corresponding induction training in general and specific operational safety matters depending on the activity to be performed by the employee, and the existence of specific insurance for the activity to be performed, among others.

All work incidents involving our own and contractor personnel are recorded in the Integrated Management System for Operational Excellence (SIGEO), which not only records the data associated with the incident, but also everything related to the investigation of the incident in the corresponding case: root causes, and associated improvement actions. Lessons learned from incidents are communicated internally, promoting awareness and actions to prevent recurrence.

“The Risk and Sustainability Committee, made up of members of the Board of Directors, is in charge of monitoring the proper implementation of integrated risk management policies, promoting best practices in health and safety and ensuring sustainability management.”

Our Operational Excellence Policy defines and promotes the general guidelines, as well as the commitments assumed by YPF employees and other stakeholders, which must be integrated into all company activities.

Health and Safety Management System and Certification

This system covers all YPF employees and contractors in three key aspects: i) Identification and mitigation of occupational, industrial and process hazards to prevent incidents; ii) Strengthening emergency response capacity; iii) Constant improvement.

Our Health and Safety management plan is reviewed and executed on an annual basis with area managers in each business unit, who report progress to both the vice president of their operation and the Vice President of Sustainability and Operational Excellence.

OPERATIONAL EXCELLENCE POLICY PRINCIPLES

- **Integrity and transparency:** YPF conducts its activities with ethics, integrity and transparency, complying with legal requirements and applicable internal regulations.
- **People:** YPF's people have the capacity, authority and responsibility to conduct the company's activities. They are committed to developing the capabilities of the entire team.
- **Goals:** They are clear, measurable and challenging, with a focus on YPF's strategic value.
- **Efficiency and profitability:** YPF develops its activities in an agile and efficient manner, relying on the incorporation of technology and permanent innovation to ensure the profitability and sustainability of its businesses.
- **Active listening:** YPF is committed to taking into account all stakeholder opinions when making decisions.
- **Planning:** In all its activities, YPF plans the necessary tasks and resources, identifying and mitigating associated risks.
- **Partners and Suppliers:** YPF works with companies that adhere to, comply with and maintain criteria of excellence aligned with this policy.

Our main facilities are certified with independent management systems ISO 45001 (employee health and safety) and ISO 9001 (quality management systems). Executive Logistics Management complies with ISO 39001 external certification (road safety).

Contracting company workers must comply with health and safety goals of YPF facilities where they work. Their adherence to internal guidelines is evaluated through inspections, analysis of statistics submitted by each company and interviews with their technical managers. The Risk and Sustainability Committee monitors and assesses the performance of critical suppliers in these matters, defining improvement plans and corrective actions.

In accordance with our Hazard Identification and Occupational Risk Assessment procedure, we identify risks and formally assess our exposure to these risks. The process includes: i) Hazard Classification: Defined in 28 categories (e.g., footprints on object, fire, electrical contacts, etc.) ii) Exposure Matrix: Determines the frequency with which the risk initiating event could occur in the assessed area, in a fraction of a year; iii) Probability Matrix: Proposes 6 ranges, from "Practically Impossible" to "Almost Certain;" and iv) Consequence Matrix: The consequence is defined as the maximum exposure to an incident to which a person may be subjected.

Once the Exposure, Probability and Consequence values are obtained in the previous matrices, the risk value is prioritized, depending on the value obtained, and the mitigation actions to be adopted are described according to the evaluated risk (e.g.: If the result is greater than 82, urgent risk is defined and authorization from the Business Committee is required to continue with an activity with this level of risk).

Our risk tolerance level is defined by the current regulatory framework, legal obligations and the Operational Excellence Policy. This entire process is reviewed periodically when: i) Changes are made in the process or materials or substances that affect human activities; ii) New hazards are identified that affect workers' health, or it has been determined that prevention



activities may be inadequate or insufficient; iii) New work activities are incorporated into the structure; and iv) Accidents have occurred in the activity and require the workstations affected by the accident to be reviewed. If none of the above conditions are present, it is recommended that each installation be updated every six years.

“Any person who detects a risk during the course of their activities in our facilities must report it to their superior and request that the task be suspended.”

For all routine work, specific procedures are established and available, and for non-routine tasks, on-site methodologies, called Work Permits, are applied.

SAFETY OF PEOPLE

GRI: 403-4, 403-5, 403-9

Our employees participate in the development, implementation and evaluation of the health and safety management system through various consultation and training activities. The company's president conducts live communications in which he disseminates the objectives as well as the results of health and safety management, so employees can express their opinions in person or through an open channel for sending queries. Meanwhile, specific consultations on health and safety issues were incorporated into the climate survey conducted in 2022. Contractors, meanwhile, address their concerns in periodic meetings with technical health and safety representatives; in

In addition, their union leaders, in accordance with the collective bargaining agreements, participate, consult, analyze and discuss issues related to occupational health and safety, such as the provision and use of personal safety equipment (PPE), occupational studies, risk analysis in workstations, incident assessments, and other related topics.

Security training

Basic training starts with a general safety induction as well as specific training focused on the function, which all employees receive directly and through contractors. This training is a necessary condition for entry to YPF's facilities. In addition, we regularly deliver safety information throughout the organization via corporate online platforms. Each vice-presidency also conducts specific actions according to its needs and focused on each contractor:

Safe Driving Program: In order to reinforce the significant reduction in the vehicle accident frequency rate in recent years, this program is periodically conducted.

Human and Organizational Factors of Safety Program: This training is aimed at our leaders and those responsible for safety in specific actions, dictated by the Institute for a Culture of Industrial Safety (ICSI), based in France, in conjunction with the University of San Andres.

The Upstream Vice Presidency has issued an Operational Excellence Training Program for Contractors was developed, with the objective of making them aware of the risks of the facilities and the safety measures linked to the performance of their activities in order to minimize incidents. Meanwhile, we continue to pursue a Safety Culture Program for Managers, which seeks to address the risks of the operation, and the ICSI Organizational Human Factors Program (Leadership). In addition, safety campaigns on electrical hazards, in itinere, change management, lower limbs, ergonomics and gender, among others, are conducted.

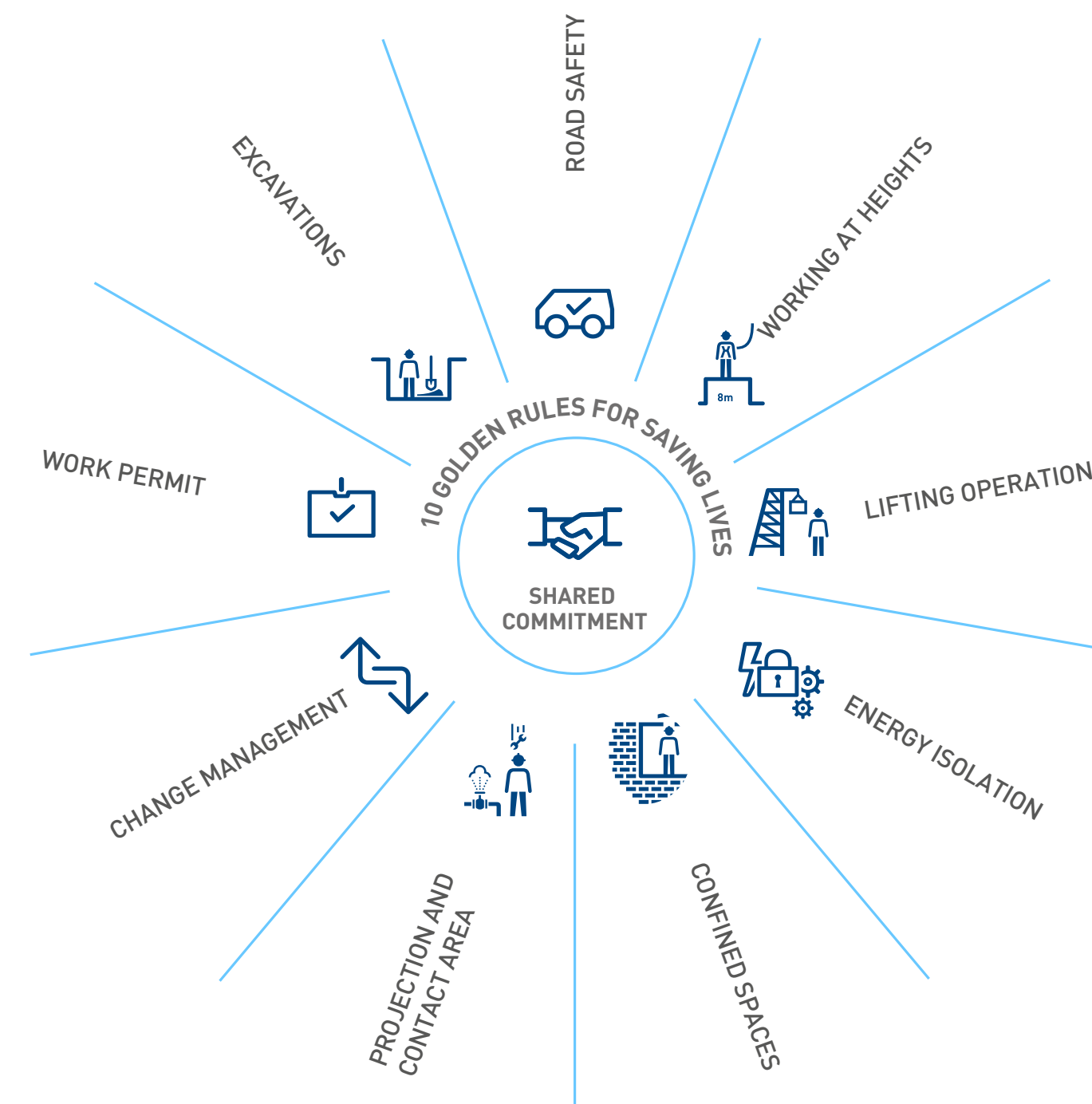
In the Downstream Vice Presidency, the Expertise Program was expanded to include the Environment and Safety Areas, and training and specialization actions were promoted for leaders in health and safety and an awareness process was initiated in Safety Culture for Transportation Companies (Tier 1 and Non Tier 1). In the Marketing areas, 36 audits on the critical contractor management system, and 42 alignment meetings with critical suppliers and review of contractual requirements focused on operational excellence (Tier 1 and Non Tier 1) were conducted.

EXPERTISE PROGRAM

This program had the following lines of training during 2022: ICSI Organizational Human Factors Program (Leadership), 39 people; Safety Intelligence Training (MAS Teams): 4 people; Accident Investigation Leaders and Coordinators Training; Specialization in Safety and Hygiene; Specialization in Process Safety; Energy Efficiency/Transition; and Electrician Qualification.

Priority is given to the implementation of technical occupational safety measures - all our facilities have physical barriers to prevent accidents - and compliance with our regulatory and management systems. A core objective is to strengthen the proactive safety and self-care culture embedded in our work, based on YPF's 10 Golden Rules for Saving Lives, leadership, long-term commitment, continuous learning, and monitoring and safety indicators.

OUR SAFETY CULTURE



SAFETY PERFORMANCE

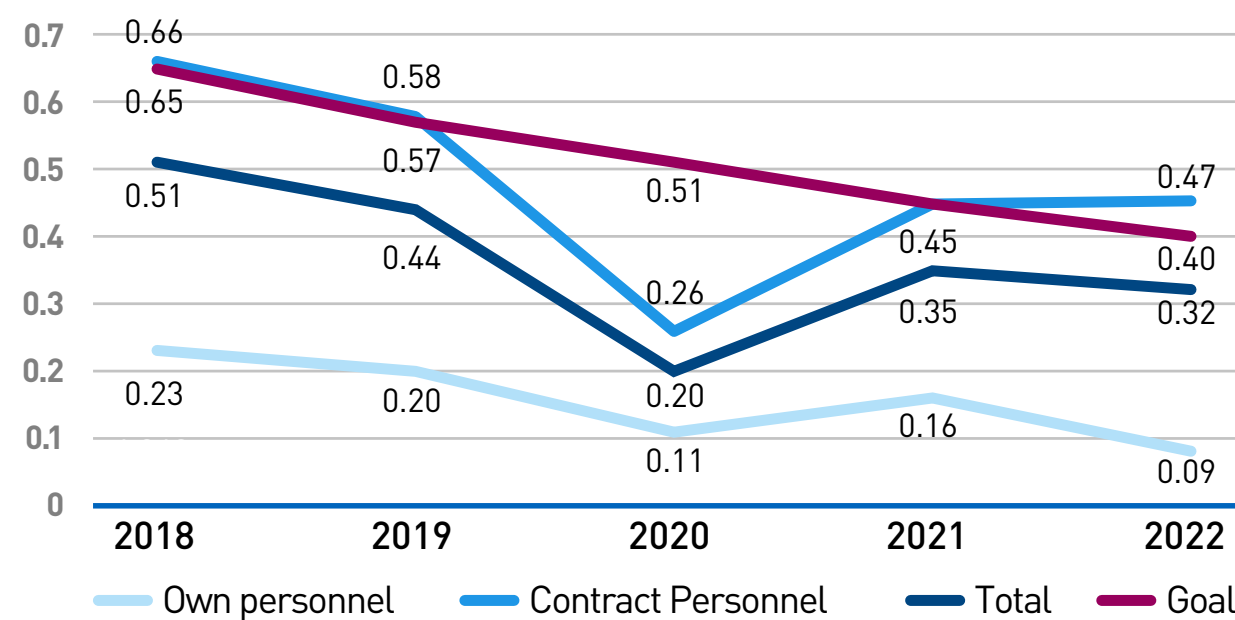
During 2022, there was an improvement in the Lost Time Injury Frequency Rate (LTIFR), which decreased for both our own personnel and contractors, closing at 0.32. For the fifth consecutive year, the company met its goal, which shows that the training and awareness-raising programs have yielded good results. The main types of injuries correspond to blows to different parts of the body (60%), cuts (17.5%), entrapment (15%) and burns (7.5%).

Notwithstanding the above, there were two reported fatalities in the Conventional Upstream Vice Presidency involving contractors. An accident occurred while performing an unplanned task between large vibrating equipment that trapped an operator. The second event was recorded during testing operations with exploratory well *flowback* equipment when unplanned energy was released during routine work in the high-pressure sand separator zone. In both cases, the corresponding investigations were conducted and mitigation measures were implemented and put into practice.

In terms of road safety, our own and contracted employees drive a distance that exceeds 528,000,000 km each year, so focus is set on providing driving skills and contributing to proper driving behavior. There were no fatal accidents during 2022.

ACCIDENT FREQUENCY RATE (LTIFR, LOST TIME INJURY FREQUENCY RATE)

(Number of fatalities and accidents with loss of computable days x 1,000,000 hours worked)



HEALTH AND PREVENTION

GRI: 403-3, 403-6, 403-10

Health service

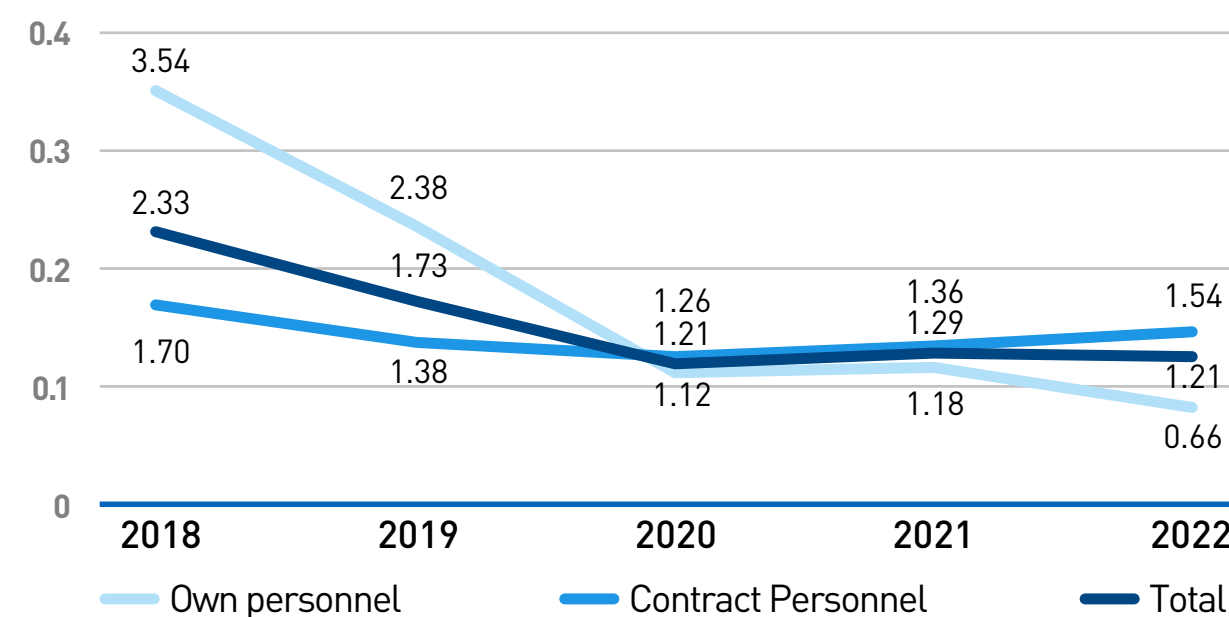
Our preventive approach to occupational diseases aims at the implementation of healthy work environments and the permanent surveillance of possible risk factors, and the promotion of people's well-being and emotional health. To this end, we have a corporate and specific health service. YPF's Health Service is based on the legal requirements of the Superintendencia de Riesgos del Trabajo (Labor Risk Superintendent's Office) (SRT) and on the YPF Health Management standard, established in the Operational Excellence Policy, which sets the criteria and standards that the company must meet to ensure healthy work environments, provide responses to emergencies and/or medical emergencies and address the illnesses of those who work at our facilities, including our own personnel, contractors and business partners.

72%

OF OUR HEALTHCARE UNITS ARE ACCREDITED BY THE SPECIALIZED CENTER FOR HEALTH STANDARDIZATION AND ACCREDITATION (CENAS).

RECORDABLE INJURY FREQUENCY RATE (TRIFR)

[per 1,000,000 hours worked]



IMPLEMENTATION OF TECHNICAL MEASURES TO IMPROVE WORKPLACE SAFETY

In 2022, work began on the start-up of the Turbo Expander LLL (TEX) plant, which will capture LPG, gasoline and other heavies to methane-ethane (natural gas), and reduce the level of heavies in gas treatment facilities that saturate the process and produce unwanted venting.

In Marketing, a WiFi video monitoring system is used for elevators and people that uses lights to warn against danger zones.

In the Downstream Vice Presidency, for example, the standardization of the SPS (Security Protection Systems) alarm suppression process was unified for the Vice Presidency, under risk analysis and the necessary authorization level, given the increased risk when suppressing an alarm.

In November 2022, the Health Service accredited 10 new healthcare units in the Health Care Quality Assurance, Patient Safety and Efficiency Program, a certification granted for three years by the Specialized Center for Health Standardization and Accreditation (CENAS). Thus, 36 health units have been accredited out of a total of 50 we have nationwide.



OUR PREVENTION PROGRAMS IN 2022

Cardiovascular prevention (CVPP): 70% of the company's population was evaluated using periodic medical health examinations, with the application of the Framingham Cardiovascular Risk Scale, which assesses the probability of suffering a cardiovascular event. After analysis, 2,355 people were integrated into a medical and nutritional support program with a classification of slight risk (88%), moderate risk (11%), high risk (1%) and very high risk (0%).

Healthy eating: Nutritional counseling and monitoring are provided for those who require it, according to the results of the annual examinations, by a professional food scientist and a nutritionist. More than 400 patients took part in this program.

YPF Women and Health: In 2022, the Occupational Health Service and Obra Social YPF consolidated objectives and goals for joint work focused on:

- Training and awareness-raising on the prevention of communicable and non-communicable diseases and their treatment.
- Women's access to health care and services, as well as complementary studies.
- Collection of information from the target population (4,500 female workers at YPF), establishment of prevalence rates in women's pathology and construction of a diagnosis of the epidemiological situation.
- Tools to face adverse medical, daily life and work situations in women participants, and to help build their autonomy and awareness of their own rights.

The plan has been disseminated through a health questionnaire to identify potential health risks for women, medical visits in the doctor's office, activation of a WhatsApp line and the Workplace communication tool which, at the close of 2022, had registered over 8,000 reproductions.

Well-Being: Within the framework of the interdisciplinary program the company launched, actions were taken in each of the Physical and Emotional axes, so that people may experience integral wellbeing while performing their professional activity in the company, to improve commitment and dedication to work, generate an adequate work climate and environment, and encourage self-management of health conditions.

Prevention of Psychoactive Substance Use: Individual interventions of listening, support and guidance are offered to people identified with a drug use problem, as well as accompaniment and progressive follow-up once the people enter the program. In 2022, in addition to preventive medical evaluations, publications, brochures and virtual and face-to-face courses were disseminated to all personnel to enable them to recognize problematic use and addictions.

45,708	125	33	40%
ALCOHOL AND DRUG TOXICOLOGY EVALUATIONS	POSITIVE DRUG CASES	ALCOHOL CASES	OF OWN PERSONNEL AND CONTRACTORS PARTICIPATED IN RANDOM CHECKS

EMOTIONAL WELL-BEING

70	1,500	10	16,000
LECTURES, WORKSHOPS AND PRACTICE SESSIONS	PEOPLE	WELL-BEING CAPSULES	VIEWS
30	443	2,400	
MINDFULNESS PRACTICE SESSIONS	PARTICIPANTS	ACCOMPANIMENT, SUPPORT AND FOLLOW-UP CONSULTATIONS	

Our healthcare units are staffed by doctors, nurses, drivers, psychologists, psychiatrists, nutritionists, food scientists and health data analysts. Health Management is part of the Vice-Presidency of People and Culture, made up of ten leaders in charge of the different regions and a specific area of Wellness and Emotional Health.

Health and Safety areas annually evaluate all the company's workplaces in order to draft maps with people exposed to any occupational risk. Through the NTEAR form (List of Workers Exposed to Risk Agents), this information is transferred to the occupational risk insurance company, which determines which medical evaluations must be performed. The YPF medical service is responsible for its enforcement and follow-up.

In addition, YPF has implemented a program for the early detection of pathologies in its employees through annual health examinations and preventive medical evaluations. In 2022, 78% of our personnel complied with the regularization of this evaluation.

During this period, there were no fatalities resulting from occupational or work-related illnesses. Our workers' main ailments were related to the organs and senses and, in decreasing order, those related to trauma, followed by diagnoses associated with cardiovascular and respiratory fields. Absenteeism rate, considering absences due to illnesses not related to work activity, decreased to 3.69%, a slight decrease compared to 2021.

Pandemic Management

Within the context of the health emergency, the COVID-19 Risk Committee - headed by the Vice President of Sustainability and Operational Excellence and comprising the areas of Health, Safety, Operations, People & Culture and Labor Relations - worked on updating and maintaining the action and prevention protocols, aligned with the provisions of the National Ministry of Health, to minimize the possibility of contagion in work environments.

Following the progressive return to in-person attendance in 2022, a periodic survey of personnel vaccinated against the SARS-CoV-2 virus was conducted and campaigns were deployed to raise awareness of the benefits of immunization, with a focus on the importance of completing the immunization. During 2022, 3,344 of our own employees and 1,298 of contractor employees were infected by community circulation of the virus, which were followed up medically until they were discharged and returned to work.

INCIDENT READINESS AND RESPONSE

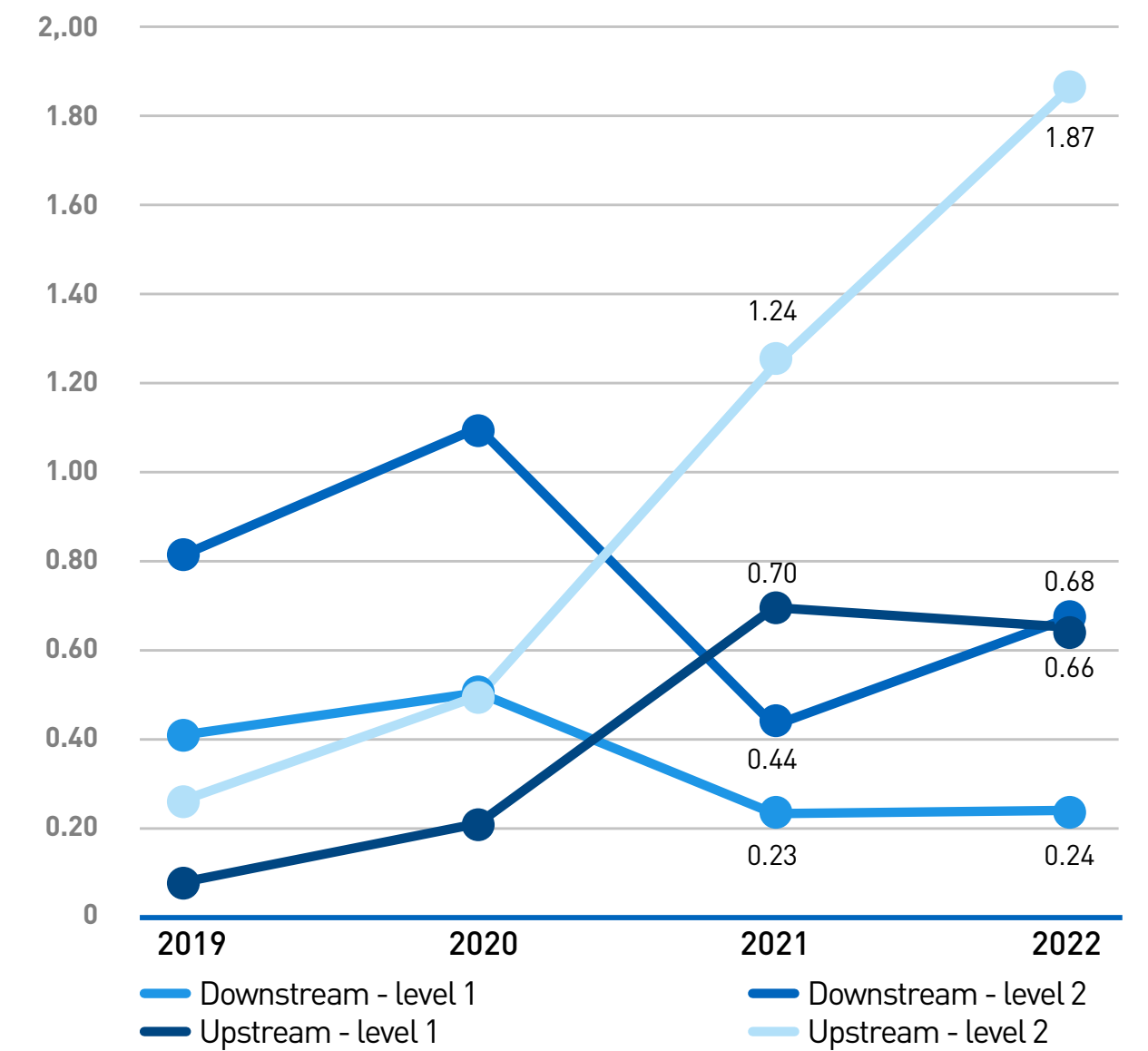
GRI: 3-3, 306-3 (2016), SASB EM-EP-540A.1, EM-EP-540A.2, EM-RM-540A.1, EM-RM-540A.2, ((EM-RM-540A.3))

Potential risks are managed based on our activities in exploration, oil and gas production, gas plants, refineries and wind farms. These include potential uncontrolled wells, hydrocarbon leaks or spills, crimes, cyber-attacks, work-related incidents and work-related illnesses.

The company operates with an emergency and crisis management system which focuses on prevention and strengthening the company's resilience to unforeseen events. The system aligns prevention, preparedness, response and recovery activities including Incident Response Management, Business Continuity Management, Crisis Management. The Upstream level 2 process safety event rate increase was due to the improvement of the incident log, which since 2022 is extracted directly from the SIGEO platform.

“We have specific methodologies to assess and minimize risks associated with our processes, and to act in emergency readiness and response.”

NUMBER OF PROCESS SAFETY EVENTS PER MILLION HOURS WORKED



The incident investigation process and improvement actions are described in the Incident Management standard, the main objective of which is to establish the criteria for proper incident and nonconformity management in all units and operating centers, in order to obtain significant information so that the entire organization can deepen its knowledge of the risks and deficiencies in management, know how to control them and be able to act to prevent the recurrence of their causes, establishing actions and thus protecting people, facilities and the environment and increasing the efficiency of the processes. Also, to establish the criteria for managing the actions taken, including verification of their effectiveness. The data resulting from the process described above are recorded in the Integrated Management System for Operational Excellence (SIGEO), audited by an external organization.

Risks and emergency plans

The Safety area is responsible for preparing risk sheets and prevention programs to mitigate exposure and the probability of incidents occurring, and to reduce potential consequences. Its preparation is based on risk analysis with potential impact on people, communities, the environment, assets and businesses, as well as reports from reinsurers, accident investigations, change management, audits, contractor management and environmental monitoring, among other sources. Training and drills allow us to train personnel and test the equipment assigned to each business. Progress is monitored through key performance indicators.

In the event of a risk materializing and depending on the severity of the incident, response teams are organized. In addition to having our own personnel prepared to face these situations, called brigade members, if the extent of the situation requires it, external organizations are called in (Fire Department and Civil Defense, among others), and there are also agreements with companies specialized in major emergencies in the industry -Oil Spills Response (who attend emergency events in the Downstream and Upstream businesses) and Wild Well Control and Boots&Coots-, who support our management with periodic activities and training.

“There are over 700 internal YPF firefighters, with a system of specialized 24-hour guards in all our operations, and if the situation requires it, a network of specialized companies for major emergencies is available.”

All employees and contractors who are part of a response team must attend scheduled training and develop the skills and proficiencies necessary to successfully respond to an incident or crisis. In the 2022 period, 2,958 emergency drills were conducted and we exceeded 10,000 hours of training and coaching. These firefighters are trained in external specialized academies, such as CALCIC-CEMM-MetroGas (Argentina), TEEX (USA) and Oil Spills Response (United Kingdom).

Spill Readiness and Response

A spill prevention and control system that includes an investment plan focused on the integrity, maintenance and improvement of facilities and pipelines is available, in addition to a response procedure and a computerized communication system that automatically alerts the environmental authority. Every year, drills, including red level drills, are planned and conducted with the participation of senior management.

We operate with emergency plans for local action on the facility, yellow committee for regional command and red committee for high-level definitions. In 2022, there were no critical spill incidents.

CYBERSECURITY

GRI:3-3

The Cyber Security and Corporate Security Policy establishes the guidelines to ensure the security of YPF's operations, people and assets against all types of internal or external threats, in any environment in which they manifest to minimize the impact they could have on the company's objectives, strategy and performance, image, people and communities, the market, the environment and other stakeholders. It is reviewed and updated on an annual basis and covers our own personnel, external advisors, consultants, contractors, subcontractors, suppliers and business partners who conduct business with YPF. In the event of non-compliance, penalties may result in termination of employment and legal action.

Our Cybersecurity Department intervenes in projects involving information technologies, in order to shield the company in the protection of information and minimize cyber-attacks. The Board of Directors, through its Risks and Sustainability Committee, monitors risks, action plans and the evolution of cybersecurity in the company.

SUSTAINABILITY REPORT 2022

MESSAGE FROM THE PRESIDENT

MESSAGE FROM THE CEO

YPF IN FIGURES - 2022

COMPANY PROFILE

01. ENERGY COMPANY

02. COMMITMENT TO SUSTAINABILITY

03. CLIMATE ACTION

04. SUSTAINABLE PRODUCTION

05. HEALTH AND SAFETY

OHS Policies and Management Systems

Safety of people

Safety performance

Health and prevention

Incident Readiness and Response

Cybersecurity

06. PEOPLE

07. SHARED SOCIAL VALUE

08. ETHICS AND COMPLIANCE

LEGAL NOTICE

ABOUT THIS REPORT

APPENDICES

EXTERNAL REVIEW REPORT

PROGRESS 2022

Drills: These were conducted on the subject of ransomware and denial of service (DDoS) attacks, which involved activating the corresponding escalation committees to resolve the simulated problem, and promoting campaigns to warn about threats such as phishing, which has increased drastically since the beginning of the pandemic.

Adjustment of maturity goal values for cybersecurity systems in the different industrial processes, after putting them through an evaluation process according to the C2M2 model in the previous two years, and developed plans to achieve them.

Cyber risk assessment methodology of the IEC-62443 standard, specifying that risk assessments must be performed on existing infrastructure and on all new engineering projects. This scheme was applied to conventional and non-conventional Upstream, refining and logistics processes.

Cybersecurity controls were optimized and automated, new technologies were deployed to secure cloud and on-premise environments, and security measures were advanced for the implementation of BIMl and MFA (Multi Factor Authenticator) identity authentication for administrators, protecting access for users with elevated privileges.

Cyber threat training: Due to the massification of remote work and mobile technologies, awareness and training measures were implemented for over 10,000 people on issues related to cybersecurity and an awareness tool was implemented to reach all YPF users with awareness-raising activities.



CYBERSECURITY EXECUTIVE RESPONSIBILITIES

CEO: Governs the strategy through the annual publication of the Cybersecurity and Corporate Security Policy.

Vice President of Digital Technologies: Primarily responsible for cybersecurity at the executive level.

Chief of the Cybersecurity Department (CISO): Reports to the Vice President of Digital Technologies and participates with the Board of Directors when required.

Audit Committee: Oversees mitigation strategies.

Risks and Sustainability Committee: Monitors major corporate risks, in order to confirm the adequate implementation of relevant controls.

YPF has an Information Systems Continuity Management System (SGC-SI) in place based on the ISO 22301 standard, which defines plans, procedures and standards to act in the event of a total or partial incident which may affect operations continuity. Through biannual business impact analyses, applications that should be included in the SGC-SI are determined. In addition, in-house and cloud-based disaster recovery plans are periodically tested and optimized. Annually, a schedule of internal practices is defined to test the continuity of the applications and services included in the SGC-SI and cyber-drill exercises are conducted on production processes with the participation of the businesses and the company's Crisis Committee.

CONTROL AND PREVENTION MEASURES

- Cyber-risk management center and a computer security incident response team to monitor and mitigate cyber-threats, where staff can consult and report incidents at their convenience.
- IT infrastructure and information security management systems audited by Deloitte as part of the Sarbanes-Oxley audit. We are ISO 27001 certified: 2013 in the process of Identity Management and Assignment of Permissions in Applications.
- Periodic analysis of IT infrastructure vulnerabilities.
- Penetration testing of sites exposed to the Internet.
- Permanent awareness campaigns.

SUSTAINABILITY REPORT 2022

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YPF IN FIGURES - 2022

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01. ENERGY COMPANY

02. COMMITMENT TO
SUSTAINABILITY

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06. PEOPLE

Our Team

Diversity and Inclusion

Attraction and Retention
of Talents

Development of Human Capital

07. SHARED SOCIAL VALUE

08. ETHICS AND COMPLIANCE

LEGAL NOTICE

ABOUT THIS REPORT

APPENDICES

EXTERNAL REVIEW REPORT

06. PEOPLE

MATERIAL TOPICS:

- TALENT MANAGEMENT
- DIVERSITY AND EQUAL OPPORTUNITIES



OUR TEAM

GRI: 3-3; 2-7; 2-8

YPF is made up of a team with different kinds of people who are committed to an organizational purpose to obtain results and develop new corporate challenges. This is why we foster an environment that encourages their wellbeing as well as diversity and productivity to include, retain, and contribute to the growth of human talent needed in YPF. This focus on people reaffirms YPF's commitment as one of the essential pillars in a sustainability strategy.

In 2022, we encouraged initiatives towards strengthening leadership, responding to the work profiles required in our industry to incorporate young professionals with specialized technical know-how.

The work carried out by the People and Culture Vice Presidency has prioritized human development and comprehensive wellbeing to strengthen our positioning as a preferred employer in the talent market.

Work Model

“By December 31, 2022, YPF had employed 64,216 people, expanding our staff by 7% compared to 2021, due to the increase in operational activity. Within that total figure, 35% corresponds to its own staff (22,330) and 65% to contractor staff (41,886).”

After the gradual return to in-person presence once the health restrictions due to the pandemic had been lifted, we implemented a flexible hybrid working model, combining distance or home office work with the operational requirements in our activity.

IN-PERSON PRESENCE

60%

OF IN-PERSON STAFF MODALITY.

40%

OF STAFF IN THE HYBRID MODALITY.

“We continued with a hybrid scheme combining the in-person activity with a remote modality, which allows for alternating attendance in those job positions where it could be adopted.”

Computer equipment and software were made available for the people who worked under the hybrid modality, as well as ergonomic chairs and choice of monitor to contribute to the quality of their home-office work activity, in addition to wireless peripherals and ergonomic pads.

Additionally, we kept the prevention campaigns and our attention towards health matters active, guaranteeing the physical and emotional wellbeing of our team.

DIVERSITY AND INCLUSION

GRI: 3-3; 202-2; 405-1; 405-2; 406-1

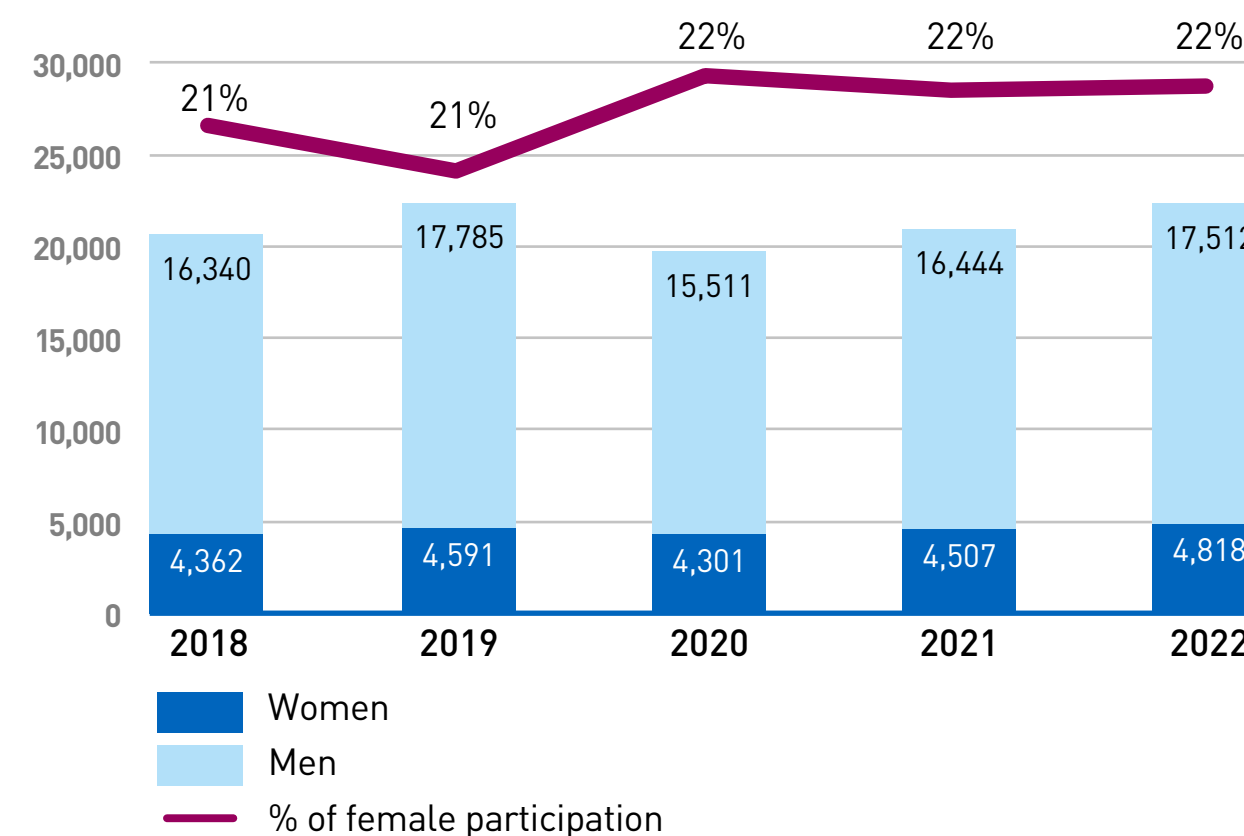
“Diversity, equity, and inclusion form a main part of our company, as we believe in an intersection of different focuses to promote innovation and enrich our team. We wish to increase women's participation, groups with a variety of roots and places where they belong, as well as disabled people, by means of an equal access to opportunities open to them in YPF.”

We have a Diversity Committee sponsored by five of the company's vice presidents which was created to guarantee transparency and representation of different voices and opinions in order to promote a comprehensive focus. Additionally, there is a Domestic Violence Sub-Committee in which referential staff from the Compliance, Diversity Committee, People and Culture, Health, Labor Relations and Legal areas, where one of their goals is to accompany the women in our company going through this situation, making a set of resources available to them.

Initiatives for Diversity 2022

- Main **sponsor** of the Women's Economic Forum Argentina - second edition, as a way of providing increased visibility to our commitment to move forward towards greater gender equality.
- We form part of the Diversity, Equality and Inclusion Committee of the Instituto Argentino del Petróleo y el Gas (IAPG - Argentine Institute of Oil and Gas).
- **Training** plans on diversity and gender equity, feminine leadership programs and awareness campaigns.

EVOLUTION OF OWN STAFF BY GENDER



- **Workshops and open talks** on gender, diversity, self-development, shared parental responsibility, fair treatment, unconscious biases, equality of opportunities and non-discrimination, together with the monitoring of eventual gaps in equal access.
- Launching of **the +Diversity Program** calling on companies, contractors, suppliers, business partners, unions and other entities to promote a greater diversity in our industry.
- Communication campaign **#SomosDiversidad (WeAreDiversity)** with stories about nine employees and their roots, how they were hired by YPF and their service.

Having a comprehensive focus, we have increased the executive senior leadership positions held by women by over ten points, from 5.8% (2017) to 15.9% (2022). In women's participation levels in initial leadership posts such as managers and coordinators, we reached 24.2% and a 28.4% of total participation, which amounted to increases of 26.7% and 13.1% in the same period.

Actions 2022

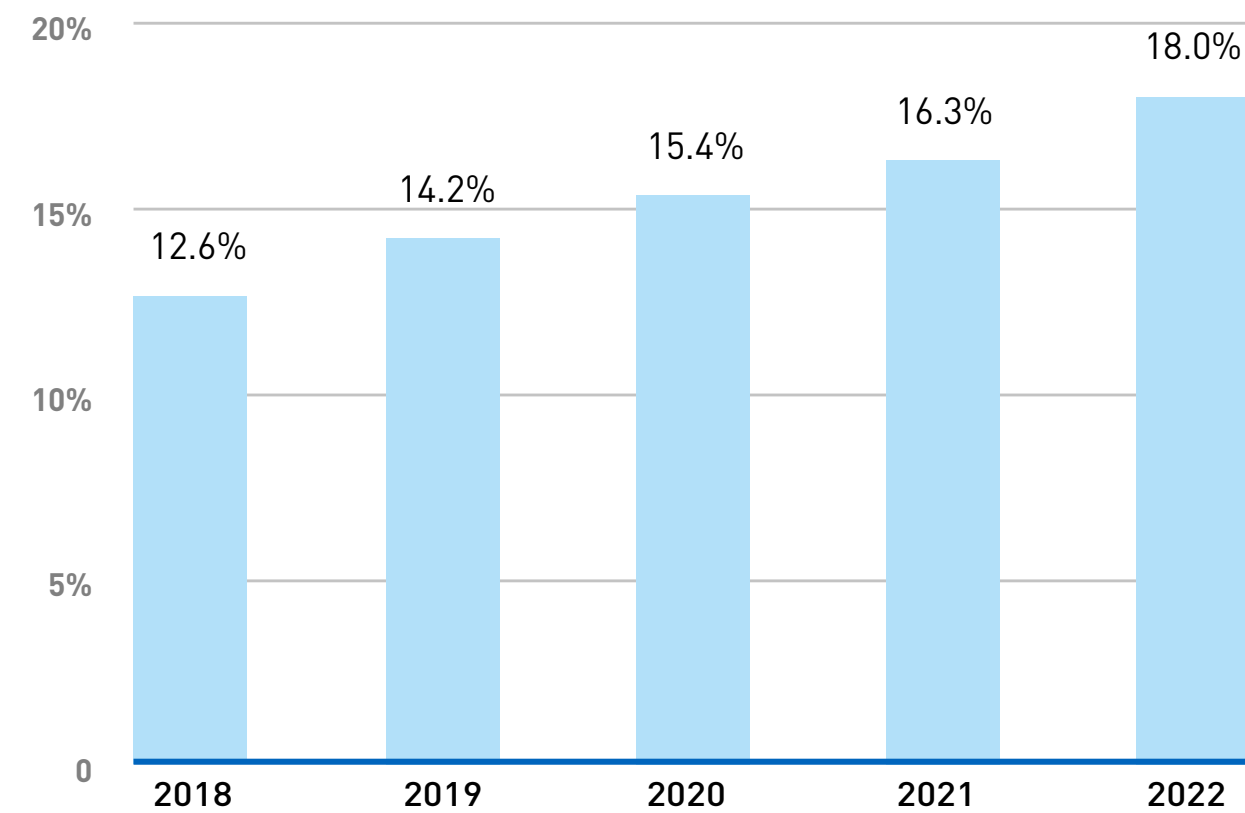
We continued with the LiFe program, which purpose is contributing to the development of professionals with the potential to take on leadership positions. Since its beginning in 2019, more than 40 participants from different business areas have taken part in workshops and other activities that foster self-awareness as well as provide the opportunity to share professional experiences with leaders of the company and other organizations."

Additionally, we have encouraged carrying out International Women's Day campaigns to reflect on achievements and challenges in gender equality, and on the International Day for the Elimination of Violence against Women to create gender violence awareness, call on its eradication and strengthen the spread of knowledge regarding Line 144 (a number offering support and advice to women and LGBTQ+ people going through gender violence).

Salary Equality

93.5% Women's average wages as compared to men's wages. The salary difference between men and women amounted to 6.5% in favor of the first. The gap between men and women stayed the same regarding 2021, with a minimum variation increase of 0.4%, which is owing mainly to the level of the position as well as the performance of each male or female employee.

WOMEN HOLDING LEADERSHIP POSITIONS (in Executive and Management Roles)



MORE WOMEN AS LEADERS

Our strategic goal is to have **25%** of women in leadership positions in executive and management roles by the year 2025. Since 2017, the female participation in these roles has increased by **47.9%**.

We carried out permanent indicators' monitoring which allows us to track women's progress in the different areas, including in remunerations, participation, development and acknowledgments. On the other hand, we have included the gender equity perspective in our recruitment processes, mobility, entry of young professionals, internships, talent maps, succession plans and wage adjustment.



Inclusion and Employability Programs

+50 people with disabilities are part of the YPF staff (2022). Aligned with our goal of encouraging inclusion as of 2016, after a pause due to COVID-19, we have been developing programs designed to encourage employability for **People with Disabilities** from different social groups by acquiring knowledge, experiences and behavior forming part of a work culture.

FULL OF THE SMILE (FOR YOUNG PEOPLE WITH DOWN SYNDROME)

8 PARTICIPANTS

IAPG 2022 PRIZE FOR PEOPLE MANAGEMENT IN THE OIL AND GAS INDUSTRY.

EMPLOYABILITY OF PEOPLE WITH DISABILITIES

30

PEOPLE WITH MOTOR,
HEARING, VISUAL OR
MENTAL DISABILITIES

250

PEOPLE AS FROM
THE BEGINNING OF
THE PROGRAM

60%

INSERTED IN
THE FORMAL
WORK MARKET

Actions Against Discrimination and Harassment

Aligned with our Diversity and Inclusion Policy, a Workplace Free of Harassment Policy and our Behavior Manual, the complaint indicators received through the reporting channels are monitored for discrimination, mistreatment, abuse of power and harassment. In 2022, 75% of these complaints are closed, 86% of which had consequences consisting of disassociation, disciplinary measures, rotation of the workplace, talks on fair treatment, coaching and monitoring. 57% of these types of complaints received have been carried out non-anonymously and the Ethics Line was the most used complaints channel (74%).

For more information on the company's complaints channels, consult this Report's Compliance section.

ATTRACTION AND RETENTION OF TALENTS

GRI: 3-3; 401-1; 401-2; 401-3; GRI 402-1; GRI 2-30; 407-1; GRI 3-3; 404-1

“A central part of our People strategy is the attraction, onboarding and development of young talent with a relevant and key profile for our performance. We offer a value proposal that aims at enhancing our human capitals skills to administer compensations appropriately and deliver a set of benefits designed to favor people's comprehensive wellbeing.”

Hiring and Rotation

A study was carried out to rebuild a value proposal for employees, and YPF began designing a comprehensive strategy as an employment brand to strengthen our positioning as an attractive place to perform and develop a professional career in the energy industry.

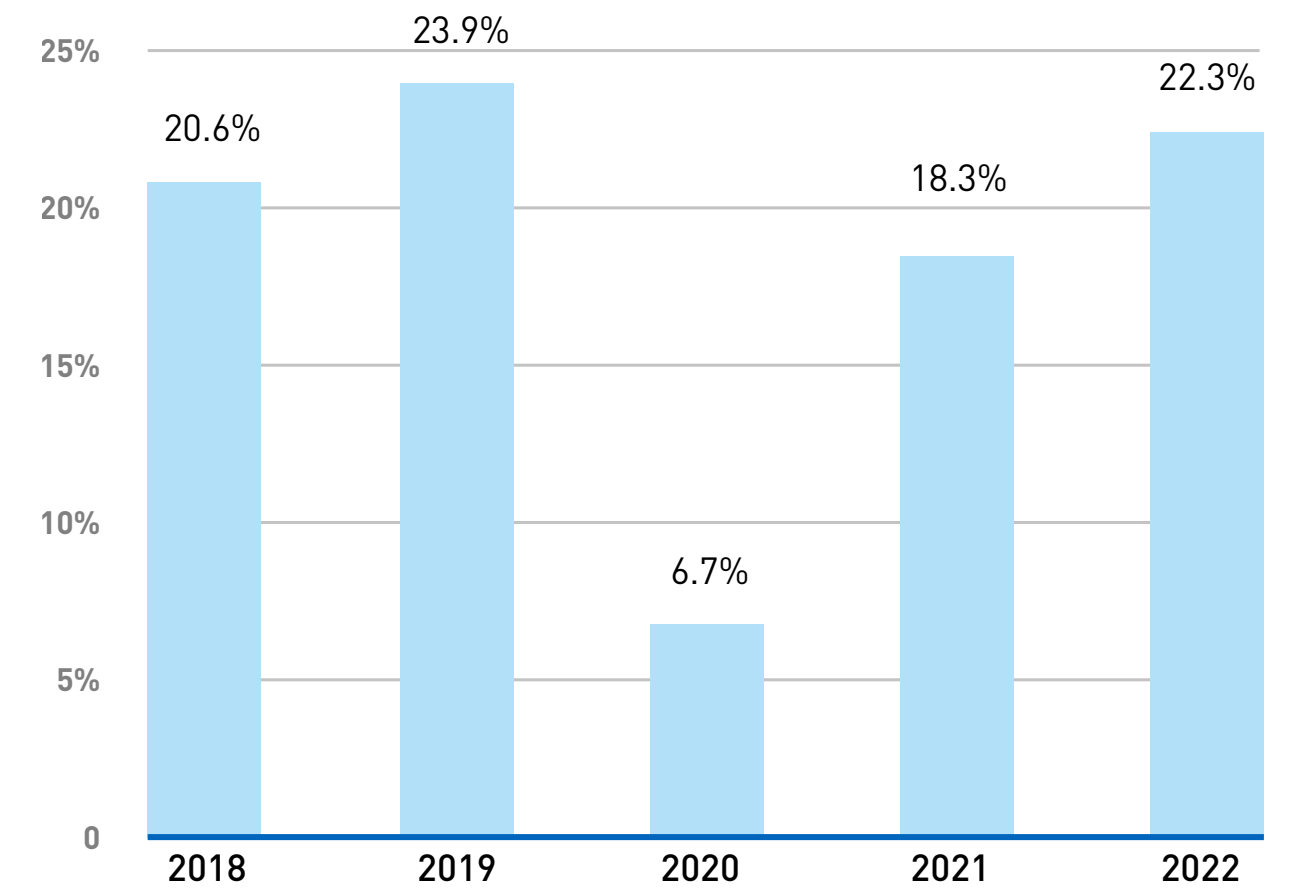
As an employment practice, an evaluation of the candidates was incorporated in the selection process based on expertise and skills free from biases. We did our best to keep the candidate permanently informed regarding their application process. Follow-up is performed on the number of published vacancies, external entries, internal movements and coverage times in the processes.

Specific follow-up is done regarding those people identified as having potential and who have left the organization, in order to know the reasons as well as to count on information to activate and adjust a proposal that decreases this indicator.

Together with this rate, the rotation of managers and senior staff levels is monitored regularly, as well as those with a high technical value and successors.

In 2022, the average cost of recruitment decreased 21% to US\$ 425 equivalent to full-time under contract. In the new re-

NEW CONTRACTS



12%

TURNOVER RATE (2022)

4.5%

VOLUNTEER ROTATION RATE (2022)

recruitments, 99.4% were local, in which the feminine gender represented 16.8%.

Compensations and Benefits

The company, as much for the staff in the out-of-collective agreement as for those in the bargaining negotiation, permanently monitors salary positioning, in order to maintain their competitive edge. 19% of our chosen team received a long-term assignment. Our Total Compensation Policy's goals assures workers' their internal equity, i.e. establishes similar wage conditions to equal position/responsibility, length of service, experience and performance and keep to the competitiveness in our comparable market.

YPF staff's compensation includes the monthly fixed remuneration (salary and benefits), the variable remuneration (a bonus

PROGRAMS FOR PROFESSIONALS, YOUNG PEOPLE AND WOMEN

INTERNSHIPS AND PROFESSIONALIZING PRACTICES	YOUNG PROFESSIONALS	EMPLOYABILITY FOR PEOPLE WHO HAVE BEEN DEPRIVED OF THEIR FREEDOM	EMPLOYABILITY FOR TECHNICIANS, WITH A FOCUS ON WOMEN	INTERNSHIP FOR HUMAN CAPITAL TRAINED ABROAD	YOUNG PEOPLE WITH A FUTURE ¹	WOMEN +45 ²
+200 young people who are in their last years of their university studies.	105 young professionals	4 participants (two women)	63 participants in the theoretical phase in the Universities of La Plata, Cuyo and UTN Neuquén and in YPF's industrial facilities	4 participants who are studying for a Masters' degree connected to the energy industry have joined YPF projects	30 participants	10 participants in the first edition (2022)
54% spots for women	42% went to women	29 full beneficiaries in 5 program editions	44% women		380 people in eight editions of the plan	
30 trainings for Oil students in the Neuquén basin and in Geosciences		60% have been placed working in YPF's network of gasoline stations	70% agreed to an employment contract in YPF's industrial facilities		30% Incorporation rate to YPF's gasoline stations' staff	

1 Directed towards young people of up to 24 years old who did not finish high school, who have access to theoretical-practical training for eight months.

2 They are given theoretical and practical training in working as management aids in the YPF IT cloud.

linked to goal achievements-Vice presidency and personal/performance) and the long-term variable remuneration, which promotes the longevity of executives and key employees by offering company shares.

Actions for Wellbeing and Acknowledgments

The part-time modality is applied to those returning from maternity leave, where benefits offered by YPF are an extended leave: the workday is decreased one hour is and added to breastfeeding; this creates a two-hour reduction in the usual workday up to one year after the birth or adoption of a child, as well as being able to count on the possibility of reducing the workday for caregivers, maintaining 100% of the salary and benefits. In 2022, the temporary employees amounted to 3,247, of which 3,216 were employed by the AESA company, maintaining the conditions and benefits required by law.

EMPLOYEES BENEFITED (% OF OUR STAFF)

100%

HEALTH INSURANCE

74%

DISCOUNT ON FUELS

34%

LIFE INSURANCE (OPTIONAL AND PAID FOR BY EMPLOYEE)

As part of the Employee Value Proposal (PVE in Spanish), above labor laws requirements, we launched the **WellBeing** program in which there are initiatives associated with stress management in the workplace; for example, mindfulness and a mental health clinic to address the problem, as well as the **Ymile** acknowledgment program, to recognize people for exceptional achievements ("the extra mile"). **WellBeing** focuses on creating value for people, with the purpose of continuing to increase their commitment and consequent boost in productivity. The program was accompanied by a mobile platform which was activated for them to know their benefits, grouped in 4 dimensions: physical, emotional, financial and social.

REMOTE WORK TOOLS

+3,200

CHAIRS

+1,300

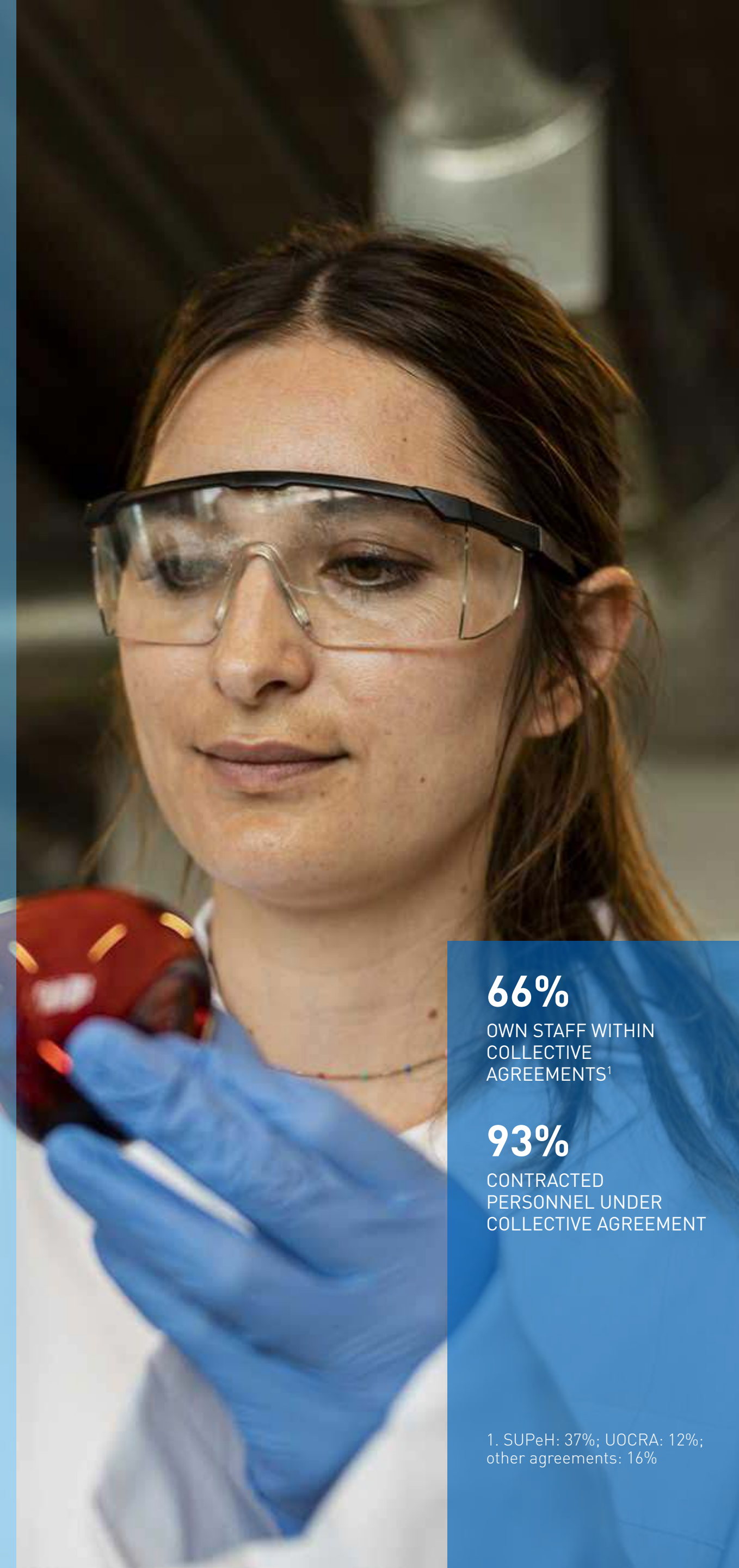
COMPUTER MONITORS

7,200

COMPUTER KITS

Wellbeing

- Health Insurance
- Life Insurance
- Personal Loans
- Daycare for children
- Gym Discounts
- Purchase discounts
- Leaves for pregnancy, non-pregnancy, for adoption
- Annual medical evaluation
- Health program for women
- Program for healthy nutrition
- Savings and pension plan with co-participation from the company
- Transport and dining-room for operational staff
- Support for births and school-age children
- Fuel discounts



66%
OWN STAFF WITHIN
COLLECTIVE
AGREEMENTS¹

93%
CONTRACTED
PERSONNEL UNDER
COLLECTIVE AGREEMENT

1. SUPeH: 37%; UOCRA: 12%;
other agreements: 16%

For the second consecutive year, in 2022 we acknowledged employees who extraordinarily contributed to achieving the strategic goals for the company, accessing the Y-Challenge program.

Shared parental responsibility

In this environment, we offer care leave for pregnant and non-pregnant caregivers¹ in order to promote shared responsibility for household chores and personal care among men and women, favoring the work development equally as well as family care. In 2022, we had a 98% total rate returning to work.

Minimum notice periods for operational changes

Faced with significant operational changes, we timely offered the details for each case with a prudent handling of maximum times oriented towards goals, depending on the critical nature of the change. Within this framework, terms for notices or specific times are not foreseen in starting the collective agreement negotiations.

Freedom of Association

All our workers carry out their roles in accordance with labor legislation, the terms of the agreed collective agreements and corporate policies in this area, which foster freedom of association and permanent dialog between the parties.

In the handling of the free choice of affiliation rights of each employee, at YPF we work to preserve the labor and conventional laws as well as the commitments built with the unions.

¹ In 2021, we replaced the concept of "maternity and paternity leave" with those of "pregnant caregiver" and "non-pregnant caregiver". The pregnant person has 16 weeks of maternity leave and progressive return until the first year of their child. The non-pregnant person has 4 weeks. There are leaves of absence for the care of relatives and reduction of working hours for the same purpose.

DEVELOPMENT OF HUMAN CAPITAL

GRI: 404-1, 404-2, 404-3

Our management is geared towards promoting self-development based on an individual initiative to include knowledge and abilities, and to accompany this process through a leader's active role.

We therefore offer programs on technical abilities and new proposals for the development of other more specific ones, together with incorporating websites and access to training materials in Curiosity, our learning platform; we also accompany our leaders in exercising their role and acquiring new skills for managing teams.

"In 2022, we work on development actions to ensure the critical abilities for the business, with an emphasis on the changing to more agile processes. We therefore organize talent revision gatherings to reflect on the profile and potential of the company staff, identifying possible successors in critical positions and to define consequential development plans."

Training and Technical Learning

In 2022, we encouraged developing technical ability programs: Expertise, Pact, Strengthen and FTO. There were 2,438 participants (13.5% of the total YPF and AESA staff) in the first three programs, and 1,451 employees in FTO.

→ **Expertise:** This is a structured program for professionals who seek to develop technical skills in critical disciplines having a direct impact on business, ensuring the company has the specialization level required to maximize the results. The junior, semi-senior and senior levels are mandatory, and the principal and advisor levels according to the business needs as well as the professional's career interests.

→ **Programa de Acreditación de Competencias Técnicas Operativas (Pacto - Accreditation of Technical & Operational Expertise):** It seeks to develop the necessary skills for working in a safe environment, following rules and standards, encouraging an effective and efficient operational discipline to benefit the organization and people. Its purpose is to make supervision operation roles more professional.

By placing greater focus on developing people, these programs speed up the time for reaching autonomy, increasing the spread and visibility of knowledge generated in the company. The contribution means better performance and greater staff retention for the organization.

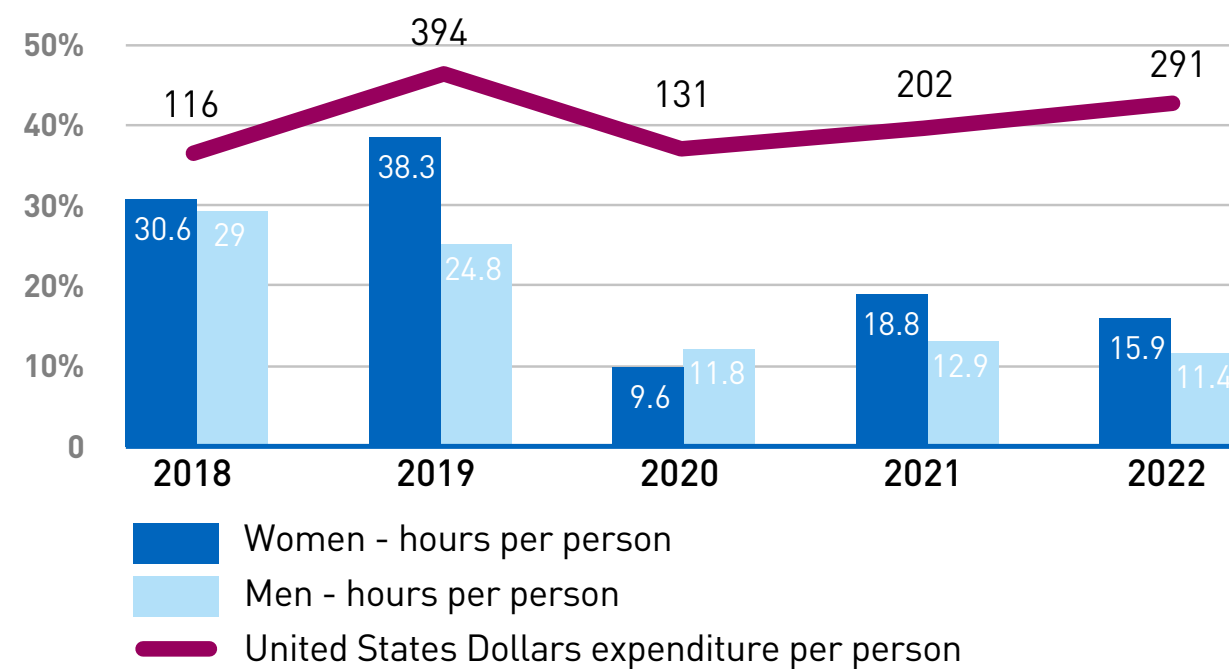
We monitor the impact of these programs on our people, considering aspects such as their reach, valuation and the certifications obtained. On the other hand, we have estab-

lished metrics to evaluate the benefits generated for the organization, including the incremental contribution to attain goals, the effect on the retention rate, savings in contracting external references, and the "Time to Autonomy" indicator, that measures employee progression through our levels.

→ **FTO:** This is a learning path model to train operational technicians, a mandatory and periodical journey, with the purpose of ensuring a level of knowledge needed for the operation and its current updating.

→ **Strengthen yourself / Empower yourself / Empower:** This is a professional development model, designed to promote and connect skills to encourage talent development.

HOURS AND AMOUNTS PER EMPLOYEE TRAINING



Other resources were added to the in-house training, which are often defined as "informal" under this topic, such as: articles, electronic books, podcasts, portals and videos, and although they contribute to self-training and self-knowledge, their usage is not reported as learning hours, making the latter appear as lower in quantity due because of using these other alternative resources. Additionally, it must be mentioned that YPF's commitment and investment to professionalize and develop their operational, technical and professional methods' expertise is confirmed by the increase in external training, that amounted to 613 authorizations in 2021 and 872 in 2022.

DEVELOPMENT OF TECHNICAL SKILLS IN 2022



New Learning Platforms and Technologies

37,000
POTENTIAL USERS IN OUR COGNITIVE DIGITAL ECOSYSTEM.

By adding two new LXP (Learning Experience System) platforms, we unified the digital learning experience with knowledge management, organized and enhanced our new cognitive and mobile ecosystem by integrating all the digital learning experience as well as knowledge management.

LEADERSHIP STRENGTHENING

1,005 participants in the hybrid modality in strategic leadership, results and people's programs.

The **Leadership for Executives** program was launched jointly with the Universidad de San Andrés and the Escuela de Administración y Negocios de la Universidad Austral Argentina (IAE). Over 11 days spread out in 2 months, 48 executives of the company worked on their roles and leadership, which are key for the company's future.

We have expanded the learning ecosystem with the program called **Líder Ágil** (Agile Leader), for the development of supervisory skills.

At the same time, the program **Ser Líder** (Be a Leader) was redesigned; and for the first time the Leadership for Supervisors was implemented in a hybrid format.

We offer conferences on different themes in a virtual "coffee" format (**Liderar Café**) and coaching to accompany strengthening in both the individual and groups; the coaching offer for executives and managers was kept.

Directed to speed the development of expertise to take on more complex challenges, our **Mentoring de Altos Potenciales** (High Potential Mentoring), that includes a mentor and a trainee, had 21 duos participating, to strengthen and facilitate the in-house learning networks within the culture and YPF leader profile framework.

Likewise, we applied techniques such as shadowing, based on the observation and interchanges of roles. In light of contents established as crucial, we reviewed our leadership programs and looked for new proposals of a more experimental nature, based on trainings, tutorials and mobility plans.

COMMERCIAL CAMPUS WWW.CAMPUSCOMERCIALYPF.COM

25,000

POTENTIAL USERS

80%

ACTIVE USERS

Available, among others, for YPF's own commercial team, staff in our own network of gasoline stations, Operadora de Estaciones S.A. (Opessa) and for third parties; Red Abanderada, Red de Distribuidores Agro - own and third parties - and suppliers: logistic operators. This platform optimizes the critical processes for the development of technical and commercial skills, communication, the tracking of goals and social learning.

CURIOSY BY DEGREED - WEBPAGE

52%

ACTIVE USERS (MARCH THROUGH DECEMBER 2022)

12,000

POTENTIAL USERS

Its start-up in 2022 meant implementing a cognitive system fed by artificial intelligence for the development of the skills ecosystem. The platform enabled offering an organized experience in itineraries linked to six different digital itineraries in a training environment, with 18 practice communities, close to 35,000 contents and 40 internal and external top-level portals.

Workforce Planning

140

MEASUREMENTS

A corporate warehouse was included in the digitization area to measure, among other variables, the employees performance, to carry out mapping and identify the ability gaps in the labor force, recruit and select talent, pinpoint the risks in the loss of employees, define competitive intelligence and analyze organizational networks.

The people analytics tool is used for identifying improvement opportunities for strengthening the company's flow of women's leadership potential (600), the goal of which is 25% feminine participation. In this context, the rotation by gender variables and organizational dimensions were combined, as well as the ratio between in-house and external staffing.

Internal Mobility

29.4% vacant positions filled by in-house candidates. We regularly carry out talent mapping in order to identify people having the potential to take on more complex leadership or specialized positions, in order to work on their development and facilitate their transition to those positions. Each manager evaluates their teams, after which a calibration, consolidation and validation process is carried out in which the executive level managers participate. Additionally, we publish in-house advertisements regarding company positions with a focus on gender equity with a closer and more inclusive language. In 2022, we worked on development plans for people identified as successors and key talents through workshops and follow-up of the proposed actions.

Performance assessment

100% of our staff had an individual performance assessment. During the follow-up stage, the leader and the employee have agile conversation stages as well as teams' quarterly assessments, in which they can share evidence or comments regarding performance and objectives; moreover, when closing the assessment process the calibration conversations take place in which the percentages of the suggested curve are reviewed and adjusted. Each employee receives feedback.

2,500 heads and managers applied to the 360° feedback tool, which measures the development of leadership expertise that encourages the desired culture at YPF.

In order to achieve better quality of conversations and continue working on improvement opportunities, the assessment scale for the staff outside of the scope of collective agreements was modified, adjusting the percentages in the suggested curve distribution. The performance assessment of staff within the collective agreements' scope was maintained without modifications to the previous scale.

WORK SATISFACTION SURVEY

+16,000

PEOPLE

89%

PARTICIPATION (+11 POINTS THAN IN 2018)

73%

COMMITMENT

A high degree of favor in the commitment area continues, with a positioning slightly below the last measurement. Plans for overlapping actions were outlined by the Vice presidency to keep this high level of commitment. The measurement included YPF SA, OPESSA, Y-TEC, YPF GAS, Fundación YPF and AESA staff in Argentina, Chile and Brazil, with remote participation, a guarantee of data traceability and confidentiality, and the employees' anonymity.

TRANSITION FOR RETIRING EMPLOYEES

We have several programs to accompany those people who are leaving, either due to retirement or leaving the company.

- **Retirement Preparatory Program:** Designed for people who are three years away from retiring from their active role. The goal is to accompany them on the path between the work cycle and their retirement, offering information regarding the end of their contract with the company, as well as help them with self-reflection on plans towards this new stage at the end of their work life.
- **Outplacement Program:** Directed towards the management and executive levels who are leaving the organization, in order to assist them in the process of leaving their work, through conversations as well as applying tools, helping them in the search for a new purpose and reinsertion in the work market.

SUSTAINABILITY REPORT 2022

MESSAGE FROM THE PRESIDENT

MESSAGE FROM THE CEO

YPF IN FIGURES - 2022

COMPANY PROFILE

01. ENERGY COMPANY

02. COMMITMENT TO
SUSTAINABILITY

03. CLIMATE ACTION

04. SUSTAINABLE PRODUCTION

05. HEALTH AND SAFETY

06. PEOPLE

07. SHARED SOCIAL VALUE

Our Shared Social Value

Supply chain

CIR and YMPULSO initiatives

Relationship with communities

Social investment,
programs and initiatives

Fundación YPF

08. ETHICS AND COMPLIANCE

LEGAL NOTICE

ABOUT THIS REPORT

APPENDICES

EXTERNAL REVIEW REPORT

07. SHARED SOCIAL VALUE

MATERIAL TOPICS:

- ECONOMIC IMPACT AND LOCAL DEVELOPMENT
- IMPACT AND RELATIONSHIP WITH COMMUNITIES.

4 EDUCACIÓN
DE CALIDAD



5 IGUALDAD
DE GÉNERO



8 TRABAJO DECENTE
Y CRECIMIENTO
ECONÓMICO



11 CIUDADES Y
COMUNIDADES
SOSTENIBLES



OUR SHARED SOCIAL VALUE

GRI: 3-3

With a long-term focus, we contribute social value through the development of our industrial and economic activity and by creating jobs in the environment in which we operate. Our supply chain involves stakeholders committed to the production, transportation and distribution of our wide range of products, which promote an improvement in the quality of life and the economic development of the country.

In order to enhance our contribution to society, we work together with public agencies, private institutions and the social sector in areas of strategic value, such as strengthening technical education with a focus on gender equity through Fundación YPF, which promotes energy, science and technology education, and direct social development in the communities where we operate.

We engage in dialogue and understand the country contexts to measure our impacts.

We continue to promote our social investment strategy because we are inspired to be an active part of the solutions that respond to the needs of the communities near our production centers. We are also motivated to make contributions to special local development, health and environmental protection projects, among others, where our employees participate in volunteering initiatives.

SUPPLY CHAIN

GRI: 3-3, 204-1, 308-1, 308-2, 414-1, 414-2

Our priority is focused on the active management of the supply chain and its actual and potential impacts, and on supporting local industries and suppliers, with an emphasis on safety and operational excellence. In 2022, we introduced a new Human Rights and Community Relations Policy that we extended to suppliers and contractors.

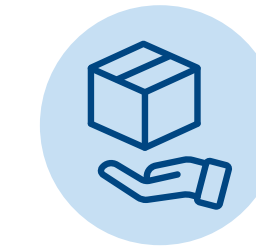
A section has been added to the General Conditions of Purchase and Contracting in which suppliers agree to comply with this framework. To this end, an awareness-raising and engagement strategy was designed. Contractors, meanwhile, must comply with specific qualification requirements and standards relating to labor relations, quality management systems, safety, health, environment, ethics and compliance.

The organization of the supply chain in YPF is led by Supply Chain Management and is performed within the framework of corporate Purchasing, Operational Excellence, and Risk Management policies. Supply Chain Management is committed to training our suppliers through on-site and virtual programs.

SUPPLY CHAIN OPERATING MODEL (THREE PILLARS):



STRATEGIC SOURCING



END-TO-END LOGISTICS



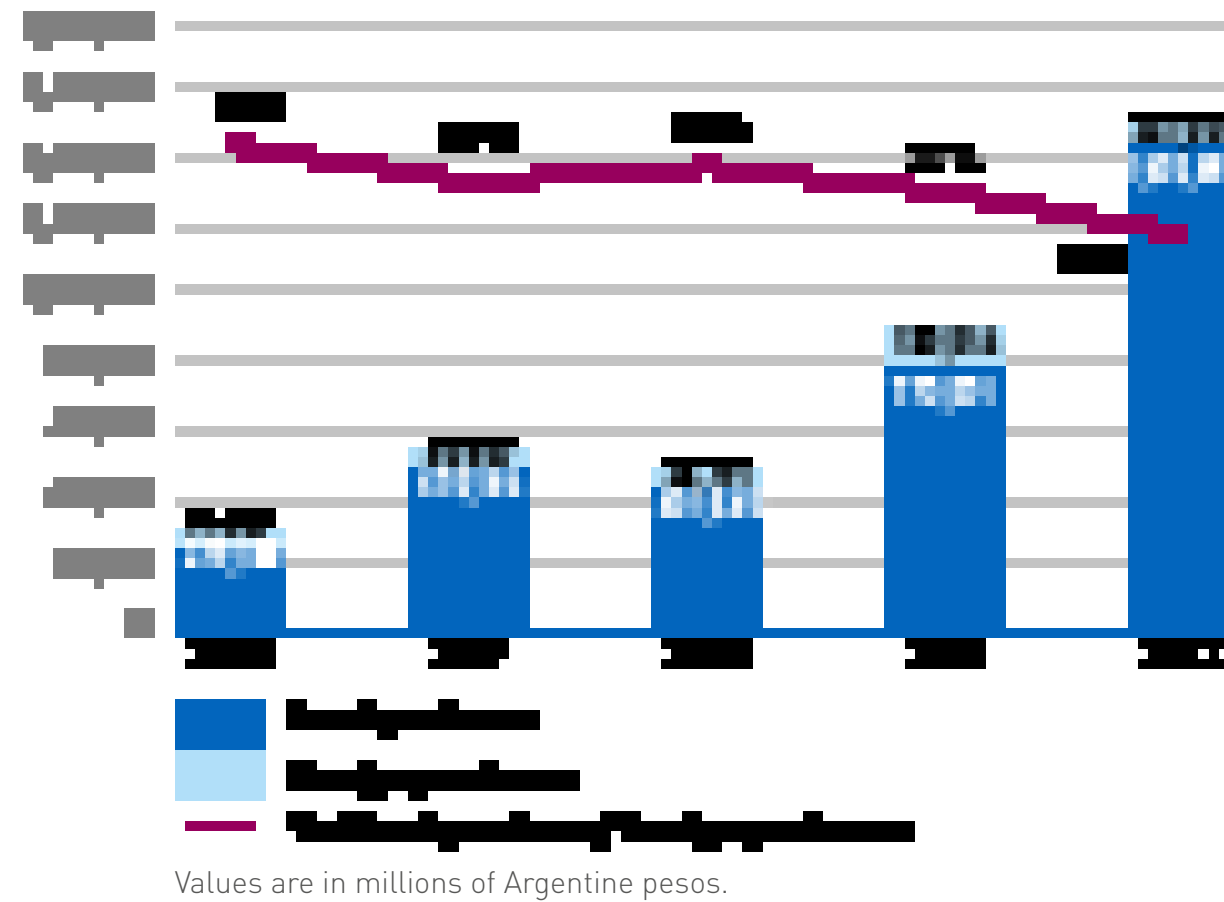
SPECIFIC PLATFORM FOR TRANSACTIONAL PURCHASES (4BUY)

Supply Chain Management Strategy

RISKS	OPPORTUNITIES	STRATEGIC PRIORITIES	ESG OBJECTIVES ¹
<ul style="list-style-type: none"> • Limitations on access to foreign currency • Inflation in dollars • Difficulties associated with compliance of local content regulations • Technological obsolescence in the face of climate change and new developments in industry • Insufficient supply capacity for critical infrastructure works. 	<ul style="list-style-type: none"> • New business derived from innovation processes and Y-TEC as a generator of new technological solutions. 	<ul style="list-style-type: none"> • Securing resources for the completion of critical infrastructure works • Ensuring the supply of imported materials from suppliers • Ensuring equipment availability for Non-Conventional business • Offsetting the impact of inflation through new efficiencies • Anticipating the emergence of demands derived from new business, technological and environmental standards. 	<ul style="list-style-type: none"> • Decarbonization of the main services contracted by YPF • Developing a competitive regional and national supply of goods and services • Incorporating ESG criteria in the evaluation of supply alternatives. • Occupational health and safety of employees • Strengthening the value chain in the areas where we operate.

¹ Environmental, social and governance criteria.

SUPPLIER EXPENSES (IN MILLIONS OF ARGENTINE PESOS)



“Any supplier joining the supply chain must be qualified in relation to its criticality, in compliance with quality, health and safety, environmental, road safety, ethical and social standards.”

Supplier evaluation and qualification criteria

Qualification of a supplier with activities classified as highly critical requires a systematic and comprehensive analysis, in order to determine whether it meets YPF's requirements. To this end, the economic-financial situation and compliance with technical aspects are analyzed. As regulatory requirements for both goods and/or services, it is required to have a quality management system in compliance with ISO 9001 (2015).

Compliance with active contracts is rated for the full term of the contract. Of the evaluations conducted, only one company was sanctioned in the areas of safety and the environment, which was channeled through the Ethics Committee, approving the disciplinary sanction for the supplier.

SUPPLIER QUALIFICATION, EVALUATION AND RETENTION

6,349

TOTAL LOCAL SUPPLIERS

143

NEW SUPPLIERS

76%

TOTAL NUMBER OF NEW COMPANIES TRAINED ON THE VALUE CHAIN

Suppliers are valued as strategic partners and, for both their selection and the execution of contracts, they are trained in the importance of qualification and compliance with current regulations regarding applicable technical, tax-related, legal, labor and social security aspects, as well as with the ethical, environmental and social requirements included in the General Purchasing and Contracting Conditions.

Suppliers that transport hydrocarbons and lubricants were required to implement a Road Safety Management System in accordance with ISO 39001 in 2022. Meanwhile, an Upstream Supplier Relationship Model was defined, which allowed us to have a differentiated management for their development, selection and behavior analysis.

The supplier evaluation process evaluates aspects related to quality management, on one hand, and aspects related to safety, health and the environment, on the other. For this last item, compliance with legal requirements, YPF internal policies and regulations established for the prevention and safeguarding of people, the integrity of the facilities and the protection of the environment is evaluated. Evaluations can be remote when suppliers have been rated with lower or medium levels of criticality or for those located in more remote

provinces, where YPF does not have operations, or they can be on site. The latter apply when a supplier presents high or very high criticality criteria and are executed by the company's internal auditors or by an independent accredited entity, this considering the volume of suppliers that have been qualified within these levels. Both internal and external auditors are certified in ISO 9001, 14001 and 45001. In 2022, 743 on-site evaluations were carried out, of which 224 were with the team of internal auditors and 519 with teams of external auditors.

The evaluations consider KPIs that are agreed between YPF and the supplier and its frequency is quarterly for each Framework Agreement and at least one annual evaluation for those suppliers to which specific orders have been issued during the period. As a result of a deficient evaluation, business units can communicate to the suppliers the need to improve some aspect or to take urgent measures through an improvement plan. If items are detected that require corrective actions, meetings must be held with the supplier so that the latter commits to implement solutions aimed at their improvement. If any aspect of the plan is not met in the first instance, a Service Order must be sent to the Supplier requesting prompt correction of the deviation detected from the plan. In the event that the deviation is repeated, the Integral Supplier Management through the Transversal Supply Chain Solutions Manager, must convene the Decision Committee in order to carry out the necessary context evaluation for the case. The Decision Committee must evaluate the context in which the Supplier operates in order to determine whether or not its replacement is possible. When pre-selecting bidders, Supplier performance evaluations must be used as criteria. Likewise, they must be used as a weighting element in the technical evaluation of bids.

The supplier performance analysis process evaluates legal compliance and contractual requirements, labor relations, health, safety and road safety performance, and environmental preservation. The Supplier Monitoring Committee, formed by the Supply Chain and Sustainability and Operational Excellence departments, analyzes the results of the assessments, defines the implementation of improvement plans or corrective measures and, if necessary, works on providing alternatives to replace a supplier.

SUPPLIER QUALIFICATION AND ASSESSMENT - 2022

5,441 NUMBER OF SUPPLIERS WITH VALID QUALIFICATIONS	575 SUPPLIERS EVALUATED IN RELATION TO THEIR ENVIRONMENTAL IMPACT (2022)	43% HIGHLY CRITICAL SUPPLIER
743 CRITICAL SUPPLIERS AUDITED (100% OF PLANNED)	19.2% NEW COMPANIES INCLUDED IN MONITORING	1,902 CONTRACTS REVIEWED
5,196 PERFORMANCE EVALUATIONS	32.8% RATED AS VERY GOOD	46.8% RATED AS GOOD

CRITERIA FOR DEFINING WHETHER A SUPPLIER IS CRITICAL:

- Legal, economic, and financial aspects
- Volume of purchases and whether they provide non-replaceable components for the operation
- Link to the Company's productive processes
- Quality, safety, health, environment and road safety management systems (added in 2022).

Contractors and subcontractors (Tier 1 and Non Tier 1) must comply with the safety and health standards and goals of YPF facilities where they work, which is periodically monitored by means of specific systems (SRC), audits, statistical analysis presented by each company and permanent interviews with their technical managers.

Supplier Qualification Pilot Plan

During 2022, a Sustainability Risk Assessment (SRA) pilot was developed and implemented, taking as evaluation criteria the 2021 material issues with the highest impact as model basis. This initiative generated an evaluation OF criteria with more than 190 indicators that explore the central ESG axes weighted by relevance. As a result, a rating was obtained that shows the performance of critical suppliers in terms of governance, sustainability, social and environmental performance, to be used as a basis for improvement action plans and as a driver in decision making.

MAJOR SUPPLY CHAIN INITIATIVES

30
CRITICAL SUPPLIERS

ESG performance: In 2022, we launched a pilot plan to rate the performance of critical suppliers on ESG dimensions. Although there was a 50% adherence rate, it was identified that 43% of the sample has a sustainability report and 50% of the suppliers have a Sustainability and Anticorruption Policy. It was found that the social dimension is the most developed by all suppliers and that the environmental area has the greatest opportunity for growth. At the same time, we promoted a monetization model for compliance with sustainability criteria aimed at reflecting the impact this would have on YPF's value.

CIR AND YMPULSO INITIATIVES

CIR

In the spirit of promoting purchases from bidders that provide employment to vulnerable groups, YPF developed internal guidelines and regulations that direct in-house buyers towards this path. There is a seal to identify this type of purchase and a space for inclusive products on the 4buy common purchasing platform. In 2022, the amount for this type of contracting was AR\$ 9.7 million.

YPF hosts events with the purpose of promoting networking between UP and DW contractors and CIR suppliers, in order to strengthen regional social economy.

YMPULSO

The Ympulso program is aimed at strengthening the national value chain, promoting innovation, growth and competitiveness of local and regional SMEs. The three lines of action are: i) Technical assistance to support transformations related to the new needs of the energy sector; ii) Financing and incubation of projects to promote the development of local suppliers and entrepreneurs in our value chain; iii) Training for companies focused on competitiveness and prospects for the industry in the medium and long term.

During 2022, six editions of the Integral Training for SMEs were held, in which 379 people from 318 companies from all over the country participated, and through SeSMEs, a specific financial tool was made available for strategic suppliers and AR\$ 1.65 billion were disbursed to 32 companies.

SUPPLY CHAIN MANAGEMENT AND CONTROL

1,103

CONTRACTING COMPANIES

System of Contracted Resources (SCR): Web-based management and communication system that centralizes information and control over contracted resources (personnel, vehicles and/or special equipment). This system regularly verifies compliance with labor and social security obligations, safety and health standards and goals at YPF facilities where contractors and subcontractors (Tier 1 and Non-Tier 1) work, ensuring the right to association and collective bargaining, no child labor, and no forced or compulsory labor. Currently, this system manages 41,886* people, representing 100% of YPF's outsourced personnel, working for Tier 1 suppliers and its Non-Tier 1 suppliers. On the other hand, when rendering services for YPF, it is a necessary condition that the resources are assigned and endorsed in SRC. Furthermore, on a monthly basis, Tier 1 suppliers make a sworn statement in the payroll system (both their own and that of the Non-Tier 1 suppliers they hire) that provided services for YPF, indicating the hours worked and the physical location where the service was rendered. On this payroll the contractor must submit the labor and social security documentation for the period. On the other hand, on a quarterly basis, YPF monitors that Tier 1 and Non-Tier 1 suppliers comply with the payment of salaries in accordance with the agreement in which the company is framed.

Contractors identified as having a high risk level (unfavorable document audit, labor and social security debt and negative financial indicators) are followed up periodically by the Registration and Control team, and Action Plans are drawn up jointly. Currently* 75% of high-risk companies have an active action plan, while the remaining 25% are in negotiation.

* December 2022.

RELATIONSHIP WITH COMMUNITIES

GRI: 2-25, 2-26, 3-3, 413-1, 413-2, 411-1, 11.17.4. EM-EP-210B.1

Our relationships with local communities where we operate are based on recognition, mutual respect and trust. We seek to create shared value within the framework of current legislation, according to our Human Rights and Relationship with Communities Policy guidelines, and the implementation of human rights due diligence processes as a central axis of action.

This implies adopting a preventive and safeguarding approach in our actions and connections in the long term under the premises of dialogue, integrity, responsibility, good faith, information transparency and openness to all the residents of the territories, beyond their legal status in relation to land ownership. In this regard, we have a social investment plan that promotes local development, whose activities are evaluated on a regular basis.

“Our projects encompass environmental impact assessment in accordance with applicable legislation and internal regulations, which includes Environmental, Social and Health Impact Assessment. In addition, we participate in public hearings in accordance with current regulations and we design and execute action plans that include measures to avoid and/or mitigate possible adverse impacts.”

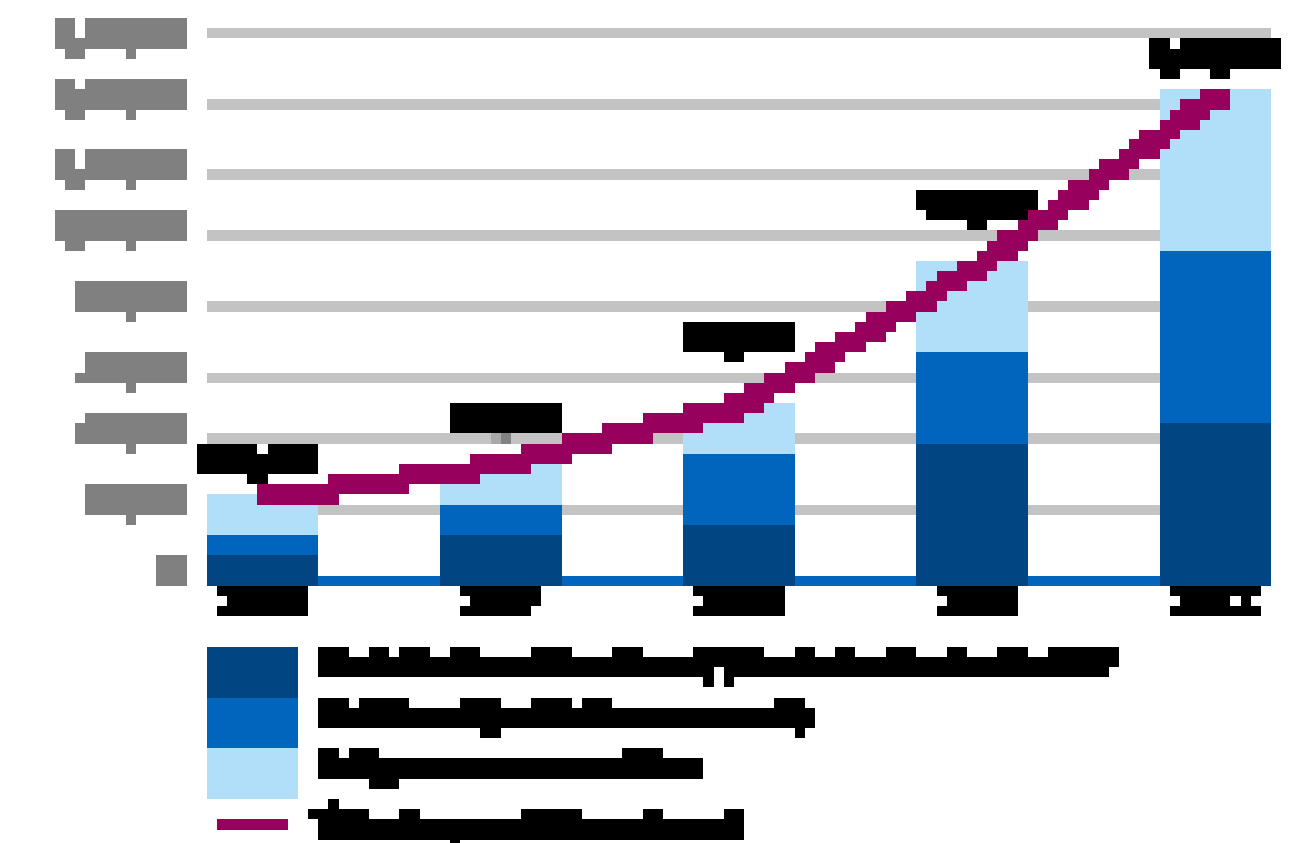
If any, we promote plans within the framework of current legislation in order to compensate or restore those aspects that are necessary in an appropriate and proportional manner. In the field, we have teams of experts who are in permanent contact with the communities, land owners and residents of the areas where we operate and who facilitate communication and the use of claim mechanisms through digital and face-to-face channels.

In 2022, we received 142 complaints from local indigenous communities, of which 134 were addressed and resolved during the

year and 8 required resolution through remediation. The most common types of claims are related to the installation of gates, fence repairs and the provision of bales, among others. This is due to the fact that our operations coexist and have an impact mostly in rural areas where agricultural and livestock activities take place. At the same time, we are working on a control, classification and follow-up system to generate statistics for decision making.

For continuous learning in terms of relationships, we participate in sectoral initiatives with the work groups of the United Nations Global Compact, the Argentine Business Council for Sustainable Development (CEADS), and the Argentine Institute of Oil and Gas (IAPG).

TOTAL VOLUNTARY SOCIAL INVESTMENT (IN THOUSANDS OF ARGENTINE PESOS)



(*) Charitable donations amounted to AR\$ 22,496,170. 1.5% of total voluntary social investment.

Besides contributing to the economic development of the country through the sector's own activities, at YPF we are committed to our stakeholders in challenges that allow for the creation of long-term shared value. These social impact initiatives, based on strategic alliances with relevant parties in the public and private sectors, also strengthen the commitment of the employees and social license to operate.

The Donations and Social Investment Actions Policy for the company, as well as Fundación YPF's work plan, set the framework to promote our actions in this area, which are executed taking into account the different local contexts.

OUR ACTION

- Training
- Regular meetings
- Public information
- Incorporation of suggestions from the communities
- Follow-up of actions
- Compensation measures within the framework of current legislation.

Approach with indigenous peoples

“We promote the relationship with indigenous communities within the framework of respect for their identity and culture, in accordance with current regulations and our Human Rights and Relationship with Communities Policy.”

Although the provisions of ILO Convention 169 on Indigenous and Tribal Peoples have been incorporated into Argentine domestic law, they are not yet regulated in the country. Notwithstanding, we have a permanent dialogue with the communities, understanding the contexts of the areas where we operate, exercising a due diligence role in our projects.

During the prospecting stage of new projects, we conduct a process to identify the inhabitants and indigenous communities in the area of influence, based on information provided by government authorities and our own surveys conducted in the field together with external consultants.

This activity is complemented by an assessment of vulnerability, needs, and complaints from the communities, based on basic rights, with regular updates. During 2022, we did not require or encourage the relocation of any communities, nor did we receive any information regarding third parties seeking resettlement from the communities where we operate, nor have we recorded any cases of violations of the rights of indigenous peoples.

In addition to the citizen participation mechanisms provided by the effective and applicable regulations to the activities performed by YPF, we have our own mechanisms to receive complaints and concerns through a designated telephone number and an email. In addition, Indigenous communities may raise any concerns or claims they may have during the periodic and regular meetings we hold with the authorities of each community, which are recorded within the local and Indigenous communities' claim process described above.



RELATIONSHIP INITIATIVES

COMMUNITY	NUMBER OF FAMILIES	CONCESSION AREA	DESCRIPTION
Paynemil	38	Loma La Lata, Neuquén	Communication takes place on a regular basis, based on a periodic meeting mechanism, which include the submission of needs and expectations of the community's directors commission on social and environmental issues. For operational projects, a continuous informative dialog takes place in the scope of due diligence, and compensation agreements are created as part of the applicable regulations, while clean-up of environmental situations is carried out by the Company, according to provisions of the enforcement authorities, and with the open participation of the community. In order to improve the quality of life of the families in the community and to promote the strengthening of their culture, the Company continues to implement several social investment projects agreed upon with the community, such as improving gas connections in homes; the supply of drinking water, energy, and gas; health insurance; veterinary service, and the systematization of alfalfa and corn cultivation plots for new members of the community.
Kaxipayiñ	38	Loma La Lata, Neuquén	In 2022, dialogue is maintained with the community authorities through the Community Relations team. Regarding operative projects, the Company is still implementing a continuous informative dialog in the scope of due diligence, completing compensations agreed upon with the community within the scope of applicable regulations and applicable to the relationship between the parties. YPF also maintained social investment projects: health insurance for health assistance to people who do not have this service; energy in the homes; drinking water supply, bulk gas, and the systematization of alfalfa crops. The company continues with the environmental remediation tasks, which are conducted by the company in accordance with the provisions of the enforcement authorities, and with the active and open participation of the community.
Campo Maripe	7	Loma Campana, Neuquén	The dialog with the authorities of this community continued, in spite of the community itself conditioning the operational activities of YPF to the decision regarding a territorial claim they submitted to the Province of Neuquén and third parties, regarding which the company is not involved. Within this framework, the projected activity in that area was minimal.
Lucero Pichinau	17	Neuquén	<ul style="list-style-type: none"> • There is a permanent and participative dialog with its authorities. • Agreements for cultural strengthening and improvement works on plots of land where the community plans to develop (community neighborhood). • Ongoing informative dialogue within the framework of due diligence. • Compensation agreement with the community regarding the Vaca Muerta Norte pipeline within the framework of current and applicable regulations.

SOCIAL INVESTMENT, PROGRAMS AND INITIATIVES

At YPF, we are committed to collaborating with stakeholders in the common challenges that allow us to create long-term shared value, contributing to the economic development of the country through the sector's own activities. These social impact initiatives, based on strategic alliances with key parties in the public and private sectors, also strengthen the commitment of the employees and the social license.

Our Social Investment Actions and Donations Policy, together with the strategic work plan implemented by Fundación YPF, provide the framework within which these efforts are developed, while different local contexts are taken into account for its application.

Throughout 2022, the programs and projects continued in the following main lines of action:

- Education, innovation and technology
- Sustainable local development
- Quality education focused on energy
- Strengthening of community abilities and competences
- Care and protection of the environment
- Inclusion and diversity.

In 2022, we readapted the platform for approval and registration of donations and contributions to the community through the unification of criteria on the uploading and standardization of calculations of the value of donations, incorporation of items that facilitate categorization, inclusion of a justification section and alignment of the contribution with the company's social investment axes and strategies, and new stages of evidence control for complete traceability of contributions.

Within the framework of the circular economy and in line with YPF's Social Investment axes that promote the care and protection of the environment, alliances have arisen to value and recycle all material in disuse for the company. To this end, YPF collaborates with donations of materials that are not of relevant use for operations, but become raw materials that provide a benefit to the community. In this sense, these actions seek to leave an awareness-raising message in the community and transmit measures for the prevention, mitigation and compensation of adverse impacts on the environment.

Reducing the digital divide in the communities where YPF operates is one of the many initiatives it undertakes, collaborating with the donation of computer equipment to those institutions where technology is scarce.

YPF joined LALCEC's campaign by donating a total AR\$3,000,000 (three million Argentine pesos) to be used to conduct free breast screenings for low-income people with no access to health systems, in order to detect diseases such as breast cancer at an early stage and provide early diagnosis and better treatment, in line with our focus on inclusion and diversity.

MAIN ACTIONS

VOLUNTEERING

485

VOLUNTEERS

4,858

VOLUNTEERING HOURS

Our employees participated in Fundación YPF's Mentoring Program, through the Hydrocarbons course in La Plata and technical talks in educational establishments close to YPF's operations. Mentors led their fellows on tours of the company's facilities and gave a series of talks on the industry's main challenges.

230

PROFESSIONALS
(MENTORS)

20

EDUCATIONAL
INSTITUTIONS

269

UNDERGRADUATE
STUDENTS IN ENERGY-
RELATED CAREERS

In addition to the usual annual actions and within the framework of YPF's centennial, over 100 native species (jacaranda trees) were planted in the Parque de los Trabajadores in Ensenada, province of Buenos Aires. This contribution was the result of a joint effort between YPF volunteers, representatives of the Ensenada Future Cooperative and Ensenada Municipality, a neighboring community to the La Plata Industrial Complex and the Ensenada Industrial Complex.

BUSINESS INITIATIVES

AR\$ 3,000,000

DONATION TO THE LIGA ARGENTINA DE LUCHA CONTRA EL CÁNCER (ARGENTINE LEAGUE FOR THE FIGHT AGAINST CANCER) TO CONDUCT FREE EXAMS FOR LOW-INCOME PEOPLE.

In October 2022, we conducted an outreach and awareness campaign on early detection and prevention of breast cancer in our service stations nationwide, social networks and media. The campaign included an invitation to YPF customers to have their car's oil and filter changed at BOXES and thus collaborate with the action. Each customer received an informational brochure about breast cancer.

FUNDACIÓN YPF

GRI:3-3

Fundación YPF promotes energy, science and technology education from primary to university level and promotes the sustainable development of the cities that generate energy for the country. To that end, it works on strategic alliances with various public, private, and social parties of each province or community. Every activity and program carried out by the Foundation incorporates gender perspective.

In 2022, we deepened our strategic focus on transforming the educational and professional training offering to bring it closer to the needs of the energy industry, generating inclusion and equal opportunities for those who live in the territories where we operate.



FIVE LINES OF ACTION AND IMPACT REACHING + 171,000 PEOPLE BY 2022

+32,000

TOTAL NUMBER OF PEOPLE TRAINED (EDUCATION, DEVELOPMENT AND SPECIAL PROJECTS)

+139,000

TOTAL NUMBER OF PEOPLE REACHED BY LOCAL DEVELOPMENT PROGRAMS

1. PROFESSIONAL TECHNICAL EDUCATION

2. STEAM EDUCATION

3. RENEWABLE ENERGY AND ENERGY TRANSITION

4. LINKS WITH THE ENERGY INDUSTRY

5. LOCAL DEVELOPMENT

1. PROFESSIONAL TECHNICAL EDUCATION

Objective:

We seek to improve the technical skills and employability of people with technical-professional training courses in specialties oriented to the energy industry, in the priority locations of Neuquén, Mendoza, Río Negro, Chubut, Santa Cruz and Tierra del Fuego.

Programs

Blended learning and online training courses

Milestones 2022

Self-assisted courses through Fundación YPF LAB's digital platform, courses on Automation, Renewable Energy, Industrial Instrumentation and Electrical Installation.

6 provinces.

4,523 enrolled (32% women).

99 courses given.

2,871 people trained in technical specialties.

7,000 people trained in self-administered online courses from Fundación YPF LAB.

2. STEAM EDUCATION

Objective:

Promote energy-related education through the STEAM approach, which integrates science, technology, engineering, art and mathematics. To this end, we grant scholarships and generate content and training activities for students and teachers of all educational levels.

Programs

STEAM Education - Ingenias - Vocations - Scholarships - Eco Challenge.

Milestones 2022

STEAM Education

You and Primary Energy

5,166 elementary school students participated in **214** outreach workshops held in **194** schools located in **16** towns of the **7** focus provinces.

420 teachers trained in **25** workshops and

online conferences.

17,635 books, **691** teaching guides, **1,557** educational games, **193** You and Primary Energy Maps **93** laboratory kits delivered to 194 schools.

You and Secondary Energy

941 teachers from **306** secondary schools in seven provinces trained in the “Energy in High School” and “Project-based Teaching and Learning” cycles.

3,000 teachers trained in self-administered courses on the You and Secondary Energy educational platform.

180 educational games and **3,473** You and Secondary Energy teaching guides delivered to **306** schools.

240 students of **6** schools participated in Energy Clubs.

Ingenias

89 girls took part in the Ingenias Clubs, where they designed **13** websites.

1,270 women participated in the Ingenias + courses, where they are trained in Data Analytics, Front End Programming and UX/UI Design.

20 INGENIAS+ locations.

24 analysis dashboards in Power BI.

25 websites.

18 native Android apps

700 girls from 12 to 18 years old and **280** teachers from technical schools took part in the *TIC TAC* contest.

35 teams from **146** schools developed technological projects to solve community problems.

Vocations

162 high school students visited energy industry facilities, together with YPF professionals.

8,602 high school students in workshops to promote vocations oriented to the energy industry, in alliance with national universities in the seven focus provinces.

Scholarships

194 students from energy-related careers renewed their undergraduate scholarships.

75 scholarships for new students.

60% corresponding to women.

237 mentorships with YPF experts.

Eco Challenge

20 scholarships to the best educational projects presented by technical high schools from all over the country for the construction of an electric car.

3. RENEWABLE ENERGY AND ENERGY TRANSITION

Objective:

Promoting an educational agenda on energy transition, renewable energy and climate change for the community in general and providing training for teachers and technical education instructors.

Programs

Energy Transition and Renewable Energy

Milestones 2022

Mobile Classroom

Through the Mobile Classroom we present a proposal for dissemination with electronic games, trivia and augmented reality.

10 provinces.

25 towns, from Patagonia to the northwest of the country.

347 teachers trained with an impact on more than 70 vocational technical education institutions.

16,400 attendees to outreach activities.

1,600 participants in seven in-person seminars.

800 online attendees through our YouTube channel.

4. LINKS WITH THE ENERGY INDUSTRY

Objective:

We seek to reduce the existing gap between the educational offering of the Neuquina and San Jorge Gulf basins and the needs of the energy industry for the next 10 years.

Programs

Linking industry and education in the Neuquén and Golfo San Jorge Basin.

Milestones 2022

101 students and teachers from technical schools participated in professionalizing practices in Caleta Olivia, Plaza Huincul and Centenario.

2 virtual training environments for simulation of drilling practices delivered to the Universidad Nacional de Patagonia Austral and the Instituto de Educación Técnico Profesional de Añelo.

200 students from technical high schools in a seminar on Drilling and WO organized together with the Universities of Comahue, Río Negro and Southern Patagonia.

11 applied research projects (PICTOS) financed in alliance with Agencia R&D+i

1 Technical Degree in Drilling organized with Universidad Nacional de Río Negro.

5. LOCAL DEVELOPMENT

Objective:

Support cities where the energy industry is present, providing them with participatory planning tools to make their development inclusive and sustainable.

Programs

Sustainable cities - Community participation and training

Milestones 2022

2 immediate action plans for the towns of Caleta Olivia and Pico Truncado.

1 Sustainable Río Grande Strategic Plan.

68 people in workshops for local entrepreneurs in Comodoro Rivadavia.

7 technical assistance to Río Grande municipality through which the following projects and policies were implemented as part of the Action Plan:

→ Updating of the Urban and Land Use and Planning Code

→ Creation of the Under-secretariat of Habitat and Land Use Planning

→ Creation of the local Observatory on Gender-Based Violence and Inequalities.

5 completed projects resulting from the Territorial Development course for municipal technical teams in Caleta Olivia, Senillosa, Cutral Có, Río Grande and Malargüe.

The Cutral Có project made it possible to recover **50%** of the wet waste for composting at the Waste Treatment Plant.

1 square in Malargüe equipped with 23 games, sports machines and LED lighting, which makes it the first square in the city to be 100% lighted with this technology.

138 people in training activities on sustainability, waste management, production and food sovereignty with the municipalities of Rincón de los Sauces and Añelo.

SUSTAINABILITY REPORT 2022

MESSAGE FROM THE PRESIDENT

MESSAGE FROM THE CEO

YPF IN FIGURES - 2022

COMPANY PROFILE

01. ENERGY COMPANY

02. COMMITMENT TO
SUSTAINABILITY

03. CLIMATE ACTION

04. SUSTAINABLE PRODUCTION

05. HEALTH AND SAFETY

06. PEOPLE

07. SHARED SOCIAL VALUE

08. ETHICS AND COMPLIANCE

Ethics and integrity

Management and
Complaints Investigation

Focus Against Corruption

Legal and Regulatory Framework

Financial and fiscal transparency

LEGAL NOTICE

ABOUT THIS REPORT

APPENDICES

EXTERNAL REVIEW REPORT



08. ETHICS AND COMPLIANCE

MATERIAL TOPICS:

- ETHICS & INTEGRITY
- FINANCIAL AND FISCAL TRANSPARENCY



At YPF, we continue enhancing a culture of ethics and transparency in the organization subject to our corporate ethic values, the business sustainability and the reinforcement of our brand. We consolidate by promoting the highest standards, national and international, both within our organization and with the third parties connected to us. In this way, we wish to offer greater trust to the interested parties as well as our stakeholders.

ETHICS AND INTEGRITY

GRI: 3-3; 2-23; 2-24; 206-1

We rely on an independent and autonomous Compliance area which has its own budget, responsible for creating consciousness regarding ethics and compliance throughout the organiza-

tion, installing added value in YPF, and knowing business needs that work with integrity and transparency related to our own activities, along with our partners and in the whole value chain. The goals are approved annually by the Auditing Committee in order to consolidate the company's vision of Ethics and Transparency.

Throughout 2022, the expansion of the Integrity Program and associated resources was ongoing, with the goal of sustaining a continued improvement in fulfilling the integrity and transparency standards which we are subject to as a company, as well as continue strengthening YPF S.A.'s and its subsidiaries' ethics culture.

Our Ethics and Conduct Code

The company's Ethics and Conduct Code is an essential pillar of our Integrity Program; its guidelines and policies are applied to our full staff, Board members, subsidiaries, controlled societies, contractors, sub-contractors, suppliers, consultants and all other business partners who work with YPF directly or in our name.

Although currently being in compliance with the Code does not influence remunerations, the organization's staff must confirm its commitment to the corporate ethics values and Ethics and Behavior Code, by training, undertaking statements on Conflicts of Interest or a Relevant Link with Public Officials; the former is key to building our ethics culture and an important consultation record for the organization.

CORPORATE ETHICS VALUES

- We act with integrity
- We create value
- We give priority to safety
- We are committed to sustainability
- We focus on the customer
- We value gender equality and diversity

INTEGRITY PROGRAM COMPONENTS (PDI)

- Ethics and Conduct Code, as well as associated policies.
- Corruption risks mapping, with periodical updates.
- Integrity Policies.
- Channels for reporting non-compliance with the Ethics and Conduct Code, associated corporate policies and/or the law, in which safety, confidentiality, anonymity option and anti-retaliation is guaranteed for those who report in good faith.
- Anti-retaliation and Management and Complaints Investigation Policies.
- Third Party Program.
- Training and Disclosure Plans.
- Control Systems and Continued Monitoring Program.
- Commitment to «zero tolerance» towards corruption.
- Prohibition for making political contributions.
- Guidelines on the expected attitude of a leader, projections on confidentiality and data protection.
- Interaction guidelines with the public sector and business partners.
- Trustworthy registers and reports.
- Privacy protection of our customers.
- Responsible advertising and use of social networks.
- Maintaining a safe workplace, free of discrimination situations, mistreatment and any form of harassment or abusive behavior, among other topics.

COMMITMENTS AND POLICIES OF RESPONSIBLE ENTERPRISE BEHAVIOR

- **Policy of Donations and Social Investment** Establish the guidelines to prevent risks of integrity within the framework of social investments carried out by YPF.
- **Policy on Gifts, Presents and Hospitality:** Sets the rules for the delivery and acceptance of gifts, presents and hospitality for those who are part of YPF, according to the Ethics and Conduct Code principles.
- **Procedure for the Recording of Gifts, Presents, and Hospitality to Public Officers:** Establishes how YPF staff must report gifts, presents and hospitality that are given to public officials, within the limits allowed by the Interaction Policy with YPF S.A. Public Officials.
- **Anti-corruption Policy for Business Partners:** Conveys to our business partners the anti-corruption privileges matching our internal anti-corruption policy. Additionally, the different documents are unified in a single policy that our business partners must comply with to be connected to YPF.
- **Human Rights and Community Relations Policy** Establishes, defines and conveys a principles statement at YPF to respect and enforce the human rights of the people who form part of the company and all others in the development framework of the operations and activities through a preventive focus within their field of action.
- **Annual Ethics Commitment:** This is an IT tool by which it is possible to accept the Ethics and Conduct Code, take part in e-learning on key guidelines, report a conflict of interest and/or a relevant link with a public official.

Compliance Culture

In 2022, YPF maintained the Compliance Committee presidency of the Instituto Argentino del Petróleo y del Gas (IAPG - Argentine Institute of Oil and Gas), and continued to participate in the Grupo Multipartípe (GMP - Multi-Stakeholder Group) in the EITI Argentina Initiative, which is an autonomous and separate group acting like a collegiate body responsible for supervising implementation in the country of standards according to the rules that govern it and aligned with the EITI Statement of Principles and the National Action Plan. In representation of the oil and mining industry, the Argentine Institute of Oil and Gas (IAPG), the Cámara de Exploración y Producción de Hidrocarburos (CEPH - Chamber of Hydrocarbons Exploration and Production), YPF S.A. and the Cámara Argentina de Empresarios Mineros (CAEM - Chamber of Argentine Mining Companies) participate.

Additionally, to revitalize the government structures of the company, we revised and analyzed new regulation projects for the Ethics Committee, the Diversity Committee and the Domestic Violence Subcommittee. We executed an exhaustive analysis of all the elements in the Integrity and Social Responsibility Program aligned with the commitments and policies of responsible enterprise behavior and the ISO 37001 Norm standards as well as new tendencies.

Training and Awareness

With our annual event #ModoCompliance2022, gathering over 100 people and accompanied by the organization's President and CEO, we renewed the commitment to integrity, adding public-private synergy and regional perspective, with the participation of national and international speakers and referential leaders. At the same time, the implementation and development of the Integrity Program continued within each of the subsidiaries.

In addition, through a wide communication campaign, we reported on our integrity actions in order to present the Compliance area as a strategic partner in the business, reinforcing the individ-

ual and collective commitment of #LoQueVosHacésHaceAYPF Its focus is to highlight the key guidelines and strengthen essential processes as well as the associated integrity policies.

To strengthen our values and rules and include them in all our activities and commercial relations, the company carries out the annual renewal of a 100% acceptance commitment to the Ethics and Conduct Code from all staff, and also offers trainings on the associated policies and procedures, training 3,974 company employees (18%), and 10 Board members (91%). Additionally, in 2022 several trainings in each associate and subsidiary company were carried out (in OPESSA, AESA, Y-TEC, YPF Brasil, YPF Chile, YPF GAS, Fundación YPF), 761 people attended.

COMPLIANCE COMMUNICATION CAMPAIGN #WHATYOUODOFORMSYPF

Topics and Initiatives Released in 2023

- Zero tolerance to bribery and corruption
- Anti-corruption Policy and Anti-corruption Policy for Business Partners
- Key Guidelines of the Ethics and Conduct Code
- Key Processes as Complaint Channels, GRIP and Conflict of Interest Statements
- Annual Ethics Commitment
- Integrity Clause
- Specific anti-corruption campaign through several communication mass media.
- Area Actions and #ModoCompliance2022 Event

In order to validate our commitment to management that values all ethics and integrity standards, we carried out an online self-administered opinion survey that collected those key elements to evaluate the level of knowledge acquired through the trainings, and the degree of commitment and value of the Integrity Program model. Of a total of 10,631 employees outside of the scope of collective agreements and YPF S.A. senior staff, we obtained 21% answers from participants, and reached the following conclusions:

EMPLOYEE SURVEY 2022 - MONITORING AND CONTINUED IMPROVEMENT PROGRAM

- 68% possess knowledge regarding the Ethics and Conduct Code.
- 98% of those surveyed considered that an integrity program supports the company being ethical and transparent.
- For 94% of those surveyed, it is important that Compliance be linked across the board with the organization's different areas.
- 92% considers the Compliance area as a strategic partner for the business development.
- 96% estimates that the Compliance area contributes value to the organization.
- One of the main findings in this survey determines that for most of those asked, the anti-corruption standards become a pillar for the company's integrity culture.

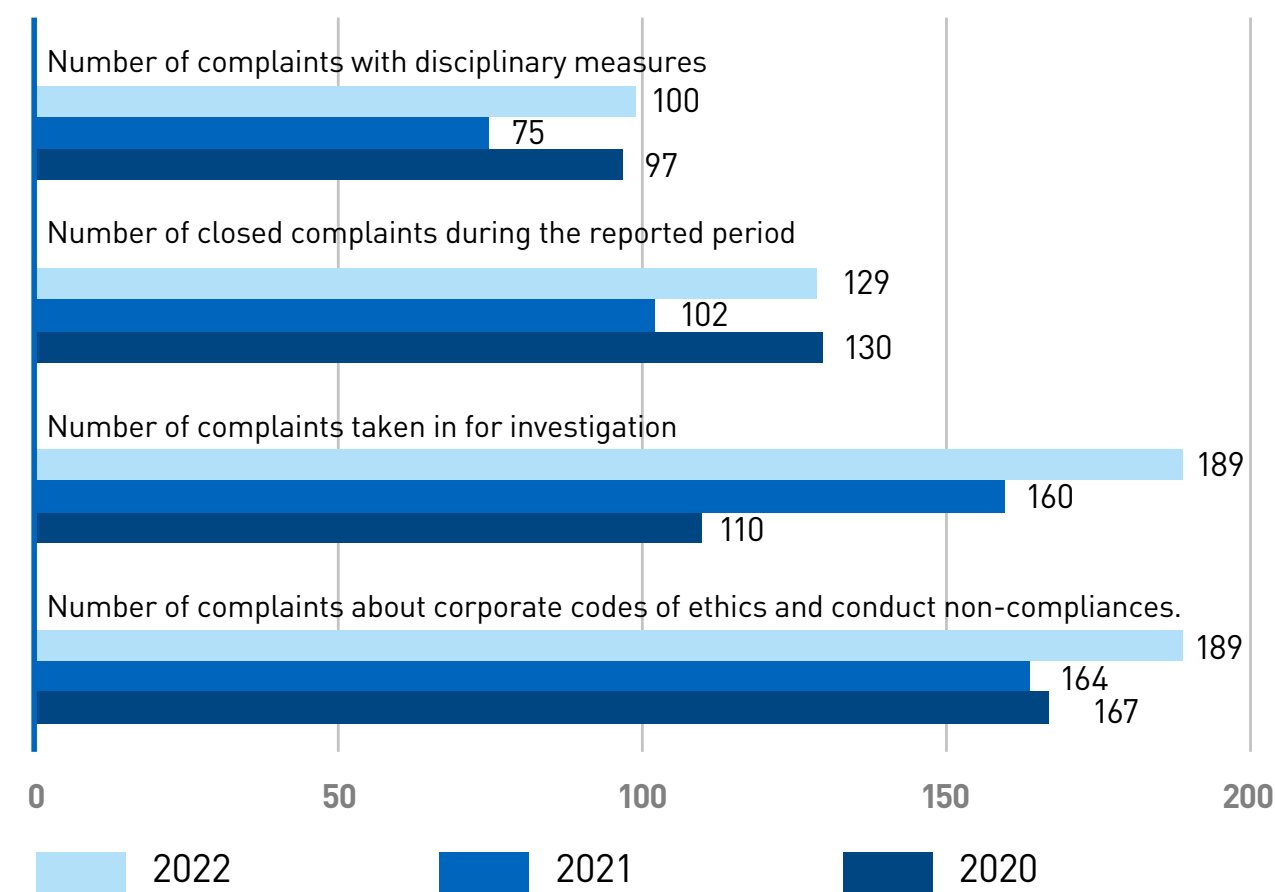
MANAGEMENT AND COMPLAINTS INVESTIGATION

GRI: 2-25, 2-26

YPF identifies non-compliance to its Ethics and Conduct Code as well as associated policies by complaints received through channels created by the company. The complaints are handled by the Management and Complaints Investigation Policy; confidentiality, safety and the anonymity option are guaranteed, and no retaliations are to be taken against anyone who reports in good faith. To this end, the company has an Anti-retaliation Policy.

During 2022, a revision process was carried out on the Management and Complaints Investigation Policy, formalizing its associated process; work was performed on the development of a management and traceability tool.

REPORTS AND INFRINGEMENTS TO YPF S.A.'S AND THEIR SUBSIDIARIES' ETHICS BEHAVIOR CODE

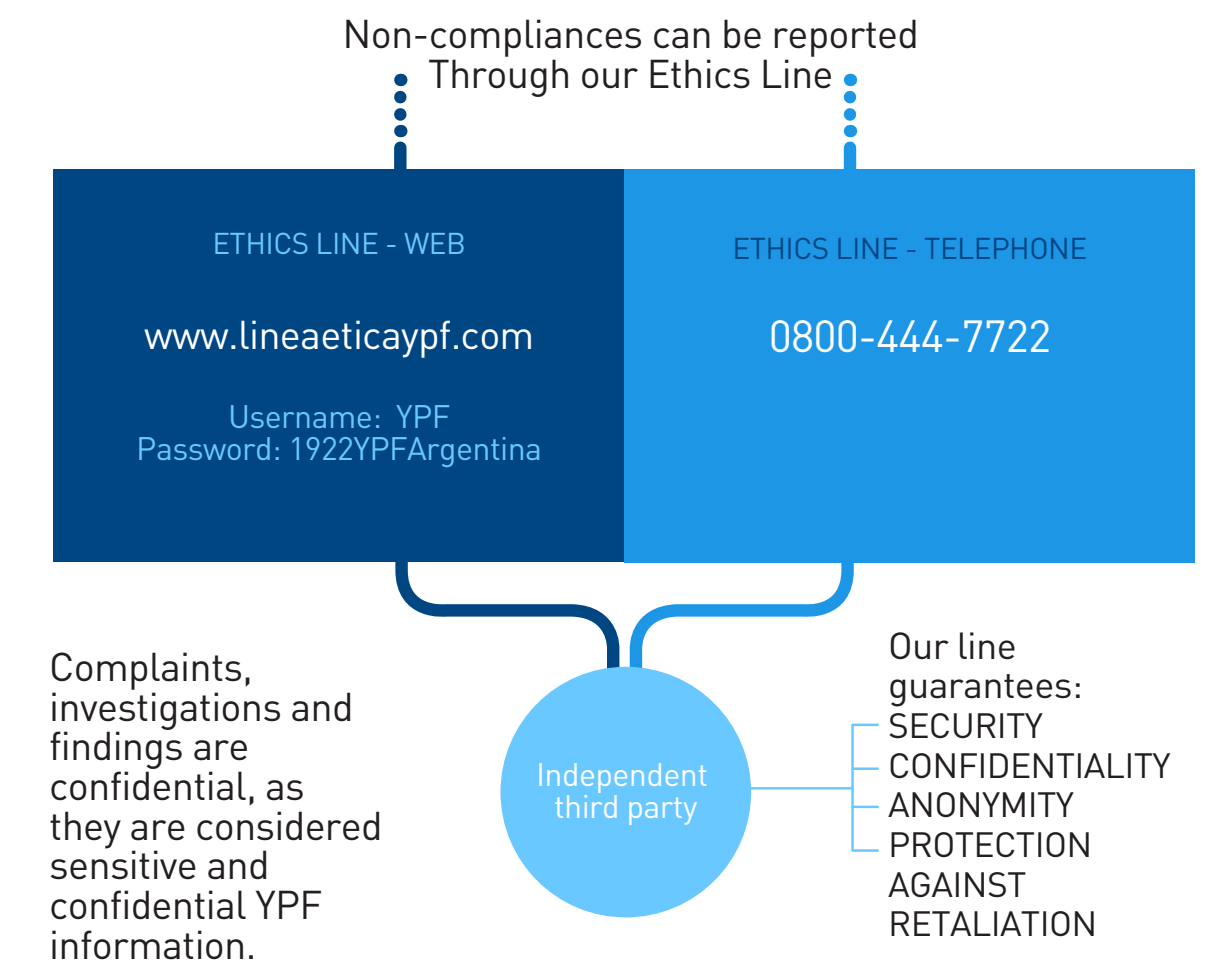


In 2022, most of the reports were received through the Ethics Line (72%). Additionally, for those complaints that were penalized, the consequent actions were disassociation, disciplinary measures, rotation, actions related to suppliers, training regarding treatment issues, conflict of interest statements, coaching actions, monitoring or recommendations, among others.

CHANNELS MADE AVAILABLE BY THE COMPANY TO REPORT NON-COMPLIANCE WITH THE ETHICS AND CONDUCT CODE, ASSOCIATED CORPORATE POLICIES AND/OR THE LAW

- In person: through a conversation with senior staff or a person responsible for the area, a representative of the People and Culture Vice Presidency, Internal Audit or Compliance area.
- Ethics Line, over Internet or by phone, open also to third parties: <https://www.lineadenuncias.com.ar> or phone 0800-444-7722, Mondays through Fridays, from 9 a.m. to 6 p.m.
- Ethics Committee Email: ComiteDeEtica@ypf.com

COMPLAINT LINE



The Ethics Line must be used in good faith.

Conflicts of Interest Process Report

GRI: 2-15

The company has clear rules regarding the conflicts of interest statements process. During 2022, the assessment and management of the conflict of interest statements received by the Compliance Area continued. In this sense, concepts and associated procedures were reinforced; moreover, recommendations based on the different situations stated by the organization's staff were implemented.

The YPF directors are obliged to declare any conflict of such nature, present or likely, as well as any other issue about its existence before the Audit Committee. In addition, our staff must carry out its conflicts of interest statements through a form that is sent to the Compliance area.

We have worked on the implementation of IT tools to facilitate the conflict of interest statements or relevant connections to public officials through the Compliance internal portal, available in the Espacio Ético (Ethics Space). Additionally, we have revised and updated the Conflicts of Interest Policy, as well as its rules and associated procedures.

During 2022, a total of 178 conflicts of interest statements were received from both YPF and subsidiaries. Most (68%) of the statements received were connected to a family member or family relationship (intra-company or to third parties).

FOCUS AGAINST CORRUPTION

GRI: 205-1, 205-2, 205-3

The «zero tolerance» guideline on bribery and corruption is established in the Ethics and Conduct Code, in the Anti-corruption Policy, and in the Anti-corruption Policy for Business Partners. This latter regulation unifies in a single document the provisions our partners must fulfill in order to carry out business with YPF.

In 2022, our internal anti-corruption policy was published and distributed to our value chain.

In our contracts, we updated our anti-corruption clause to transform it into an integrity clause with an ample vision, including diversity and human rights aspects, in order to convey our values to third parties with whom we are connected. At the same time, we worked on the development of a new Money Laundering Prevention and Financing of Terrorism Policy.

“There were no confirmed cases of corruption neither were significant non-compliance with laws and regulations detected in 2022, including claims related to anti-competitive conduct.”

The Compliance area periodically updates the corruption risks map linked to our own staff and to third parties, this covers all business and operations (100%) and is included in the corporate risks map with its respective mitigation actions. Additionally, within the framework of updating the corporate risks map, we began to work on the assessment and identification of emerging risks linked to compliance, and the corruption risks were mapped out in four subsidiaries.

We obtained the ISO 37001 standard Anti-bribery Management System certification by strengthening our integrity and transparency values, complying with the highest national and international standards in anti-corruption matters. This certification covers all YPF operations that require the Board's approval.

We continue by implementing the classification of four levels of integrity risks with mitigation actions for each of them. Within the procedure of classifying the risk, we therefore send a questionnaire to third parties with the aim of requesting them to respond to a series of questions and provide specific information in order to fulfill the respective mitigation actions.

The most significant risks that are evaluated and those which need follow-up are: Delivery of objects of value to public officials,

unions or other organizations, to obtain a benefit in favor of the company; possibility of payments to public officials, community members or service enterprises on a deferred basis; donations without the due control and/or non-compliance of the internal rule to entities that may have a relationship with public officials.

LEGAL AND REGULATORY FRAMEWORK

SASB EM-EP-530A.1, EM-RM-530A.1

In Argentina, the oil and gas industry is subject to extensive national and provincial regulations. To detect and anticipate the management of risks and opportunities that may be present in this environment, YPF forms part of chambers in the industry or technical organizations that interact frequently with officials and legislators.

Similarly, we jointly approach matters such as the development of the different types of hydrocarbon resources, business sustainability, energy transitions, gender equality, development of suppliers or efficiency in managing resources. Additionally, we monitor a group of possible regulations that are evaluated in the National Congress and in provincial legislatures related to economic, tax or environmental matters or related to indigenous communities, among others.



RISKS AND REGULATORY OPPORTUNITIES IN THE SHORT AND MEDIUM TERM

CLASSIFICATION OF REGULATORY RISKS

- New regulations related to mitigation and adaptation to climate change aimed at reducing carbon emissions, improving energy efficiency, and collecting carbon taxes. Classification: Existing-International/National.
- New regulations that grant increased rights to the indigenous communities regarding decision making linked to our current and/or potential operations. Classification: Existing-National/Provincial.
- New regulations linked to creating protected areas that prohibit or limit activities related to our business. Classification: Existing-National.
- Greater regulation or limitations to the use of water for our operations, or increased scrutiny or limitations in the water injection produced through injection wells. Classification: Known Future-National/Provincial
- Greater scrutiny or limitations linked to our operations' atmospheric emissions. Classification: Known Future-National/Provincial
- Regulations related to foreign trade, capital markets, types of exchange rates and taxes at national, provincial, and municipal levels Classification: Emerging - National/Provincial.

REGULATORY OPPORTUNITIES

- New regulations that encourage the circular economy in the corporate environment, especially regarding the revaluation of wastes originated in the hydrocarbon business.
- New regulations that promote the operation of lithium for manufacturing batteries for the use and storage of renewable energy.
- New regulations that promote hydrogen as a renewable energy source.
- Legal framework to promote the LNG industry in Argentina Classification: Known Future-National

Contribution to Public Debate

GRI: 2-28, 415-1

Our participation in public policy topics is aligned with the strategic goals of the company and we contribute to them through a dialog with the governments and the companies in order to contribute to the development of a regulatory framework that is appropriate to the activity's growth.

MAIN INFLUENTIAL TOPICS IN PUBLIC POLICIES

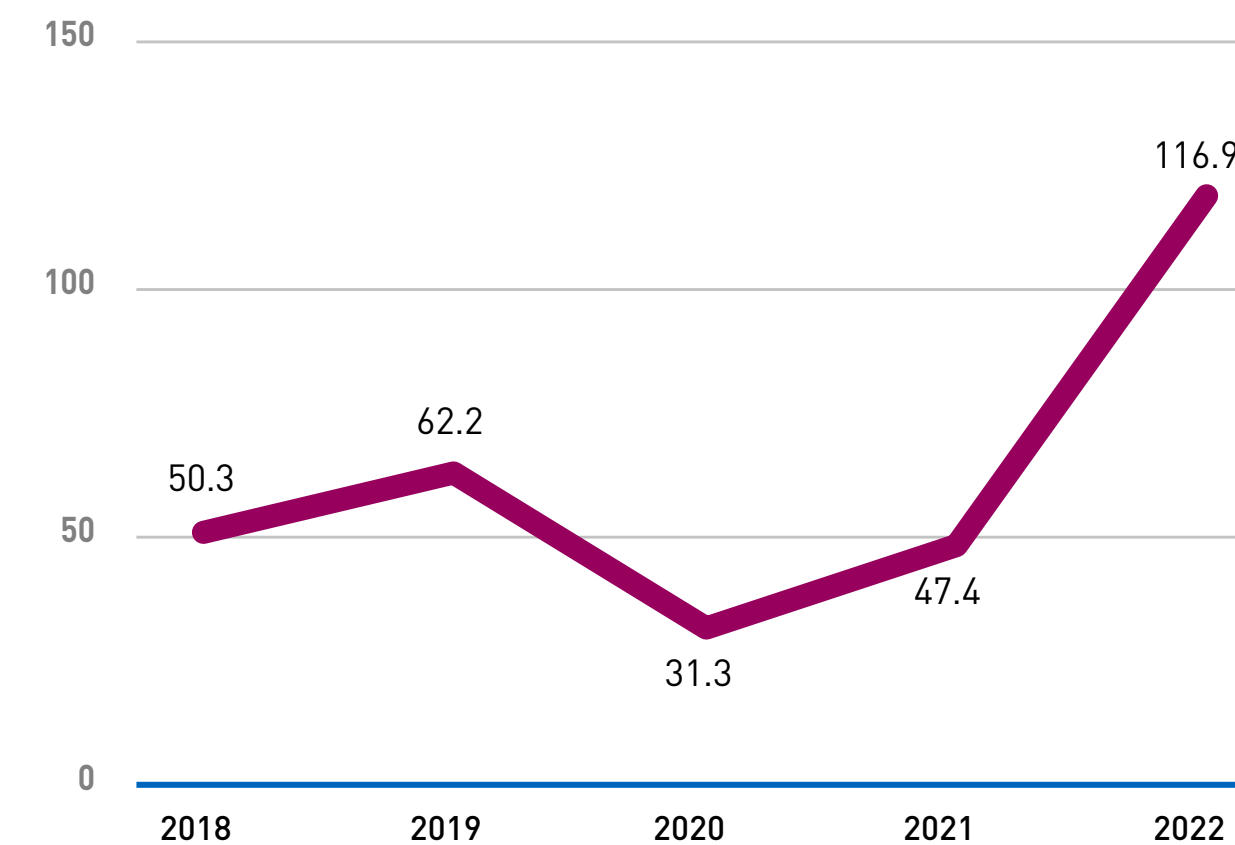
- New legal framework needed to increase natural gas production in Argentina, the transition fuel par excellence.
- Establishing improved practices for the industry in methane emissions management, a subject coordinated by YPF in the IAPG work group.
- Strengthening the development of electric corridors for vehicles and the regulating framework that accompanies the sale of electric power charge in gasoline stations.

The Ethics and Behavior Code prohibits financing election campaigns, political parties, lobbies, interests representation or similar; political campaigns or contributions to local, regional or national candidates; or others (for example, expenses related to voting or referendum measures); therefore, there were no contributions of this type in 2022.

With regards to climate change, we delivered proposals and comments to law projects on methane emissions and the report on climate change before the U.N.



MONEY CONTRIBUTIONS TO SYNDICATE ORGANIZATIONS, MEMBERSHIPS AND OTHERS SUCH AS THINK TANKS AND POLITICAL STUDY CENTERS (IN ARG M)



In 2022, we made contributions for a total of AR\$ 118.7 million within the framework of our participation in business associations, organizations that promote responsible business and study centers. Approximately 85% of the total contribution was designated to promote responsible practices in the oil and gas industry, while 9% was intended for contributions towards research initiatives and a strengthening of standards of a technical nature. Five percent was designated to institutions that boost business relations.

In a total context, they highlight annual memberships and sponsorships of projects linked to the Argentine Oil and Gas Institute (IAPG, with total contributions of AR\$ 58.3 million in 2022); the Asociación Regional de Empresas de Oil & Gas (AR\$ 10.4 million); the Asociación Internacional de Productores de Petróleo y Gas (IOPG - International Association of Oil and Gas Producers, AR\$ 4.2 million); and the Pacto Global de Naciones Unidas (United Nations Global Pact, AR\$ 1.7 million). The amount also covers payment of services which are mainly for training. Additionally, people who work at YPF have different positions within these institutions, forming part of institutes' presidencies, executive committees, technical committees, among others.

FINANCIAL AND FISCAL TRANSPARENCY

GRI: 207-1, 207-2, 207-3, 207-4

At YPF, we act according to a legal framework, with the appropriate tax payments and presentation of tax returns with accurate and complete information. Our strategy seeks to minimize significant fiscal risks, protect our rights and interests and strengthen the link with the different tax authorities.

The Fiscal Policy approved by the Executive Committee and signed by the YPF CFO defines the goals, responsibilities and resources for an comprehensive management of the tax administration in charge of a specialized team of professionals in the hydrocarbon business. All information related to taxes paid is reported in the financial statements of the company with the details required by applicable accounting standards.

TAX STRATEGIES THAT DISTINGUISH OUR FOCUS

- Simplification of the company structure in the tax reports.
- Transfer prices aligned with the creation of value and the arm's length principle.
- Presentation before the Federal Administration of Public Revenue (AFIP) of the country by country report (CbC) indicating the taxes paid by the company in each country.
- Participation in the Extractive Industries Transparency Initiative (EITI), the global standard for the good governance of oil, gas and mineral resources.

The fiscal focus is included in YPF's general strategy through an alignment of the Tax Management goals with those of the company.

Complying with the fiscal policy or strategy is monitored through the specific goals related to the area; additionally, these values are audited by the Internal Auditing sector, with a working plan verifying the payment of certain taxes; an External Audit is also carried out, each with their different roles and tasks.

The interpretation risks are identified through a compilation and knowledge of the tax authorities' positions and jurisprudence versus the positions adopted by the company; they are supervised quarterly and are managed daily through the company model. The operative risks are identified and managed through internal controls designed in routine procedures, which at the same time possess internal and external audits that periodically complement the controls.

There are mechanisms to report concerns regarding a non-ethical or illegal behavior related to taxes; the company has a channel for complaints available and indicated in this chapter.

Tax Report (in AR\$ M)

	ARGENTINA	OTHER COUNTRIES
Earnings before taxes	412,654	-13,477
Income tax accrued	-109,173	261
Income tax paid	-41,707	-

LEGAL NOTICE

This report is not intended to and will not constitute an offer to sell or a solicitation of an offer to sell or buy any security, or a solicitation of any vote of approval, nor will any security be sold in any jurisdiction in which such offer, solicitation or sale would be unlawful prior to registration or qualification under the securities laws of any such jurisdiction.

Forward-looking Statements

Certain matters discussed in this report include forward-looking statements that are subject to risks and uncertainties. Readers are advised that our forward-looking statements do not constitute guarantees of our future actions or developments, which may differ materially from those described or recommended herein. We undertake no duty to provide updates to these forward-looking statements after the date of this report to reflect inconveniences, changes in circumstances or expectations, or the occurrence of expected events. Links to websites in this report are for informational purposes only.

ABOUT THIS REPORT

GRI 2-3, 2-4, 2-5, 2-14

The current YPF Sustainability Report (The “Entity” and/or the “Company”) describes the economic, social and environmental performance of the Company and its subsidiaries during the period between January 1 and December 31, 2022.

This report has been prepared in accordance with the GRI Standards (2021), including with the Oil and Gas Industry Standard GRI 11, published in 2021. In addition, it uses as reference the Exploration & Production, Midstream, and Refinery & Marketing standards from the Sustainability Accounting Standards Board (SASB), as well as the recommendations from the Task

Force on Climate-Related Financial Disclosures.

This year's news are related to the alignment process the Company is carrying out to align the Sustainability Report and the Annual Report published in the U.S. Securities and Exchange Commission under Form 20F, which led the Company to redefine its organizational boundaries in order to obtain a report that integrates financial results with the ESG performance criteria.

For this reason, the information reported for 2022 does not include information regarding YPF LUZ (in which the Company has joint control) and YPF GAS, which financial statements are not consolidated in the Company's financial statements. Additionally, the Company has reviewed certain power purchase agreements orchestrated through power plants' rental contracts over which the Company has no operational control, and whose operation is framed by power purchase agreements, the associated emissions having been classified within Scope 2 for 2022. The comparative information of previous periods has not been modified, and for this reason the latter may not be comparable with the year 2022 metrics. For this reason, the Company has included an estimated recalculation of certain relevant metrics for the previous periods in Appendix B, in order to allow users of this report to obtain additional information for their trends analysis.

The Sustainability Report does not include data on deposits in which we are not operators, nor the information of the subsidiary Metrogas S.A., as allowed by the exception detailed in the GRI standard, which we are working to include next year. We have therefore appropriately disclosed in our report the reasons for the omission related to the content in this framework. On the other hand, and as in previous years, the report contains all activities that have a social relevance, and which are developed by Fundación YPF.

The report has been approved by the Company CEO and was subject to external independent limited review by Deloitte & Co. S.A. on certain sustainability indicators that the Company has

included in the document. The indicators and historical numbers, in some cases, may have been adjusted according to certain factors or reclassified after corresponding analysis. In these cases, the historical series are reconstructed, the adjustments are explained and the indicator is included again in the verification base. In this edition, there have been no significant modifications to the information published in previous reports or to the material topics prioritized, except for the information included in Appendix B.

All values expressed in the report refer to Argentine pesos (\$). When referring to another currency, it will be specifically indicated (US\$: United States dollars).

More information on YPF's performance on environmental, social and governance issues included in this report can be accessed through the corporate website (to access, [click here](#)), where the corresponding GRI table, SASB and TCFD are available. If you have any questions regarding the contents of this report, you can also write to sustentabilidad@ypf.com.

CHAPTER 1: ENERGY COMPANY

	INDICATOR	UNIT	2022	2021	2020	2019	2018
	Total Hydrocarbon Production*	Thousands of BOE per day	503.3	469.7	467.0	514.4	530.2
	Natural gas production*	Million m ³ a day	37.5	35.7	35.6	39.7	42.0
	Oil production*	Thousands of BBL per day	226.0	210.9	206.8	226.1	227.1
	LNG production*	Thousands of BOE per day	41.6	34.4	36.5	38.5	38.8
	Total shale production	Thousands of BOE per day	202.4	138.6	101.0	91.3	55.5
	Shale natural gas production	Million m ³ a day	16.0	10.8	7.5	7.4	4.3
	Shale oil production	Thousands of BBL per day	76.6	52.8	39.4	34.9	22.5
	Shale LNG production	Thousands of BOE per day	25.2	17.8	14.7	9.8	6.2
	Unconventional production (tight + shale)	% of total production	49.2	40.9	35.0	32.8	27.5
SCALE OF THE ORGANIZATION GRI 2-6	Processing level of refineries	%	87	82	73	87	88.8
	Gasoline supply in the country (market share)	%	54	54	53	56	56
	Percentage of participation in the production of oil in the country	%	39	40	43	42	46
	Percentage of participation in the production of gas in the country, including LNG	%	33	31	34	33	37
	Gas oil production	Millions of BBL per year	45.0	43.6	39.3	41.0	41.5
	Naphtha production	Millions of BBL per year	27.0	24.0	17.8	24.8	26.1
	Fuel oil production	Thousands of tons per year	229	390	349	308	234
	Total electricity produced	GWh	10,150	11,444	8,991	8,930	9,710
	Total proven reserves**	Millions of BOE	1,187	1,143	922	1,073	1,080
	YPF LUZ's installed capacity***	MW	3,091	2,384	2,250	1,819	N/A

INDICATOR	UNIT	2022	2021	2020	2019	2018
Sales***	Millions of Argentine pesos	2,526,466	1,271,330	669,186	678,595	435,820
EBITDA***	Millions of Argentine pesos	617,673	365,514	97,435	169,857	121,549
Exercise result***	Millions of Argentine pesos	290,264	-808	-71,017	-33,379	38,606
SCALE OF THE ORGANIZATION (CONTINUED)						
Total liabilities***	Millions of Argentine pesos	2,719,855	1,541,950	1,239,830	1,025,190	631,659
Total net equity***	Millions of Argentine pesos	1,858,304	848,118	683,395	548,099	362,357
GRI 2-6						
Gas stations	Quantity	1,658	1,653	1,632	1,620	1,591
Direct employees (YPF Group)	Quantity	22,330	20,951	19,812	23,376	20,702
Female employees	%	21.6	21.5	21.7	20.5	21.1

*Total hydrocarbon production, including conventional, tight and shale production.

** Reserve estimates were prepared using engineering and geological standard methods, generally accepted by the oil industry and according to the Securities and Exchange Commission (SEC) and the National Securities Commission (CNV) applicable regulations. The method or combination of methods used for each deposit analysis were chosen based on the experience in the area, the extent of development, the quality and reliability of the source information, and the production history. The value of total proven reserves corresponds to developed and undeveloped reserves and it is comprised of the addition of crude oil, gas and LNG reserves, expressed in equivalent barrels. For more details, refer to 20-F, by clicking here. <https://www.ypf.com/english/investors/Lists/InformeAnualForm20/YPF%20Form%2020F%202022.pdf>

*** The information is presented in millions of Argentine pesos and arises from YPF S.A.'s Consolidated Financial Statements, as of Saturday, December 31, 2022, approved by the Board of Directors and the Shareholders Meeting and audited by Deloitte. For more detailed financial information, click here. <https://www.ypf.com/inversoresaccionistas/Paginas/informacion-financiera.aspx>. Reported EBITDA represents Adjusted EBITDA. EBITDA = Operating profit + Depreciation of properties, plants, and equipment + Depreciation for the right to use assets + Amortization of intangible assets + Unproductive exploratory drilling + (Reversion)/Property, plant, and equipment deterioration. Adjusted EBITDA = EBITDA that excludes the impact of IFRS 16 and IAS 29 + non-recurring items. As of 2022, YPF applies bimonetary accounting (EBITDA US\$ \$4,947 M).

CHAPTER 3: CLIMATE ACTION

	UNIT	2022	2021	2020	2019	2018
Total energy consumption (a + b)	GJ	139,919,349	199,813,405	183,063,035	203,010,971	212,537,928
Non-renewable sources						
Total energy consumption from non-renewable sources (a)	GJ	137,486,190	197,563,322	181,426,838	201,497,595	212,064,337
Fuel consumption	10 ⁶ T	2.31	3.82	3.49	3.84	3.87
Purchased electricity	10 ⁶ MWh	2.91	2.46	2.24	2.37	2.31
Purchased steam	10 ⁶ GJ	9.6	11.1	7.67	7.41	7.65
Renewable sources						
Total energy consumption from renewable sources (b)	GJ	2,433,160	2,250,083	1,636,196	1,513,375	321,710
Electricity						
Purchased	GJ	12,900,382	8,863,161	8,056,156	8,483,879	7,756,629
Sold	GJ	1,166,784	36,673,460	28,693,132	25,690,238	28,425,199

Note 1: A conversion factor of 3.6 GJ is used as equivalent to 1 MWh.

Note 2: YPF has no heating or cooling consumption generated by a third party. It does not sell heating, cooling or steam to a third party.

	UNIT	2022	2021	2020	2019	2018	
ENERGY INTENSITY	YPF (weighted)	GJ/production unit	3.96	4.56	4.69	4.77	4.78
302-3	Upstream	GJ/t Oil&Gas produced	2.60	2.75	3.16	3.22	3.31
	Downstream	GJ/t processed crude oil	5.14	5.02	5.10	5.50	5.31

	INDICATOR	UNIT	2022	2021	2020	2019	2018
DIRECT GHG EMISSIONS (SCOPE 1)	Total direct GHG emissions (Scope 1)	tCO ₂ e	9,912,271	15,603,375	15,204,794	16,981,198	17,951,758
	Carbon dioxide emissions (CO ₂)	tCO ₂	8,111,811	12,228,567	11,352,215	12,792,308	13,557,352
	Methane emissions (CH ₄)	tCH ₄	70,359	127,615	147,393	159,857	167,426
	Methane emissions (CH ₄)	% of total Scope 1	18	20	24	24	23
	Nitrous oxide emissions (N ₂ O)	tN ₂ O	139	619	563	646	701
GRI 305-1	Direct GHG emissions per business unit (Scope 1)						
	Upstream	tCO ₂ e	5,679,817	7,840,651	8,685,380	9,991,616	10,565,160
SASB EM-EP 110A.1, EM-EP 110A.2	Conventional Upstream VP	tCO ₂ e	4,295,405	6,524,028	7,233,684	8,427,148	9,362,600
	Non-conventional Upstream VP	tCO ₂ e	1,384,413	1,316,622.8	1,451,696	1,564,468	1,202,560
	Downstream VP	tCO ₂ e	4,060,596	3,855,319	3,437,735	4,300,183	4,352,793
	Gas and Energy VP	tCO ₂ e	170,102	3,907,220	3,081,476	2,689,022	3,033,476
	Services VP	tCO ₂ e	1,756	185	203	377	329

The total of Scope 1 of direct GHG emissions takes into consideration CO₂, N₂O and CH₄. The estimates have the rates of the potential for global warming (PGW) of AR4. YPF does not have biogenic CO₂ emissions.

The calculation to prepare GHG inventories in our operations (operational control approach) is in accordance with the company's Environmental Parameters Guide, which has internationally-validated guidelines as sources of information (API 2021 Compendium, IPCC Guidelines, among others). Base year: 2017. In 2022, Upstream Conventional improved the calculation of emissions that make up the inventory. High uncertainty calculation methods (TIER 1) were migrated to more accurate methodologies (TIER 2/TIER 3) following international standards (Based on API Compendium of Greenhouse Gas Emissions Methodologies for the Natural Gas and Oil Industry, 2021). Sphera, a new tool that manages environmental parameters, was implemented. It centralizes the information from other corporate systems, unifying the reporting criteria between the different business units, and improving information traceability. The data of combustion in flares in energy consumption within the organization is not considered as it is "combustion without use."

	INDICATOR	UNIT	2022	2021	2020	2019
DIRECT GHG EMISSIONS BY SOURCE (SCOPE 1)	Hydrocarbon burning (flaring)	tCO ₂ e	1,723,046	1,270,408	1,293,244	1,374,330
	Other combustion	tCO ₂ e	6,529,442	10,909,734	10,446,631	11,765,860
	Process emissions	tCO ₂ e	11,930	29,900	25,213	27,547
SASB EM-EP 110A.1, EM-EP 110A.2	Other vented emissions	tCO ₂ e	1,116,382	2,168,697	2,696,333	2,979,756
	Other fugitive emissions from operations	tCO ₂ e	531,438	633,721	741,926	833,599

	INDICATOR	UNIT	2022	2021	2020	2019	2018
INDIRECT GHG EMISSIONS (SCOPE 2)	Total indirect GHG emissions when generating energy (Scope 2)	tCO ₂ e	1,928,071	757,093	692,783	688,682	884,484
	Upstream VP	tCO ₂ e	1,106,126	191,221	177,845	-	-
	Downstream VP	tCO ₂ e	820,251	562,711	511,346	-	-
GRI 305-2	Gas and Electricity VP	tCO ₂ e	106	-	-	-	-
	Services VP	tCO ₂ e	1,587	3,160	3,592	-	-

Scope 2 emissions calculation was performed based on the market-based method, since it takes into account the specific factors of each of the sources, which are contractualized.

In the year 2022, electricity purchased from YPF LUZ is accounted for (in previous years it was included in Scope 1 of YPF S.A., and therefore was not considered in this calculation), and the purchase made from third parties by Upstream (leased power plants, also considered in previous years within Scope 1). GUDIS (purchases from distributors) Upstream and Downstream (Logistics, Retail and LPG) consumption, not accounted for in previous years, are also added. Regarding steam: Steam purchased from CILP is added to Cogeneración La Plata of YPF LUZ, whose emissions were not accounted for, as they were inventoried in Scope 1 in previous years. Emission factors (EF) are recalculated, for electric power purchased from third parties, the majority component, the particular EF of each plant/plant are taken, for the remaining electric power purchases (EE) from MEM/CAMMESA (not contractualized), 0.315 tCO₂e/MWh (market factor without including renewable production, since its supply is provided by Y-LUZ); for GUDIS purchases, an EF of 0.273 was considered. tCO₂e/MWh (total energy produced, according to CAMMESA data). For CILC and CILP steam purchases, the EF of 0.178 tCO₂e/MWh was taken.

	INDICATOR	UNIT	2022	2021	2020
OTHER INDIRECT GHG EMISSIONS (SCOPE 3)	Total of other indirect GHG emissions (Scope 3)	tCO ₂ e	69,117,924	66,155,142	57,667,468
	Purchased goods and services (category 1)	tCO ₂ e	1,555,706	1,286,896	866,474
	Waste generated in operations (category 5)	tCO ₂ e	1,731,111	1,066,559	485,987
	Use of sold products (category 11)	tCO ₂ e	65,143,657	63,008,368	55,667,377
	End-of-Life treatment of sold products (category 12)	tCO ₂ e	564,838	599,239	512,178
GRI 305-3	Franchises (category 15)	tCO ₂ e	122,613	194,080	176,565

	INDICATOR	UNIT	2022	2021	2020	2019	2018
GHG EMISSIONS INTENSITY	YPF (weighted)*	tCO ₂ /production unit	0.25*	0.33**	0.37	0.37	0.38
	Upstream (Conventional VP + Non-conventional VP)	tCO ₂ e/t Oil&Gas produced	0.23	0.35	0.40	0.41	0.42
	Upstream (Conventional VP + Non-conventional VP)	kgCO ₂ e/BOE	30	45	53	54	55
	Conventional VP	tCO ₂ e/t Oil&Gas produced	0.34	0.46	0.47	0.47	0.48
	Conventional VP	kgCO ₂ e/BOE	43	62	64	64	64
	GRI 305-4	Non-Conventional VP	tCO ₂ e/t Oil&Gas produced	0.12	0.16	0.24	0.24
Non-Conventional VP		kgCO ₂ e/BOE	15	20	29	29	26
Downstream		tCO ₂ e/t processed crude oil	0.28	0.28	0.29	0.31	0.30
	Gas and Energy VP	tCO ₂ /MWh produced electricity	-	0.32	0.34	0.35	0.36

*Weighted intensity: (Upstream Intensity x Absolute Emissions Upstream + Downstream Intensity x Absolute Emissions Downstream) / (Absolute Emissions (YPF - VP G&E-VPSS)).

**Weighted intensity: (Int. Upstream x Absolute Emissions Upstream+ Int. Downstream x Absolute Emissions Downstream+ Int. G&E VP x Absolute Emissions G&E VP) / (Absolute Emissions YPF).

	INDICATOR	UNIT	2022	2021	2020	2019	2018
REDUCTION OF GHG EMISSIONS GRI 305-5	Total reduction of GHG emissions per CDM projects	tCO ₂	274,924	185,232	113,840	168,687	172,909
	Complejo Industrial La Plata (CILP)	tCO ₂	255,208	163,479	98,263	150,099	152,697
	Complejo Industrial Luján de Cuyo (CILC)	tCO ₂	19,716	21,753	15,577	18,589	20,212

	INDICATOR	UNIT	2022	2021	2020
SASB EM-EP-420A.2	Estimated carbon dioxide emissions included in proven hydrocarbon reserves	tCO ₂ e	432,075,343	423,757,972	337,642,981

	INDICATOR	UNIT	2022	2021	2020	2019
SASB EM-EP-420A.3	Amount invested in renewable energy sources	K of Argentine pesos	10,666,600	6,474,583	7,304,220	11,959,502
	Sales coming from renewable energy sources	K of Argentine pesos	15,316,688	7,558,567	3,377,357	1,836,465

		UNIT	2022	2021	2020	2019	2018
VOLUME OF FLARED AND VENTED HYDROCARBON GRI 066	Gas flaring and venting						
	Gas flaring	t	490,401	560,588	468,702	522,952	369,911
	Gas venting	t	131,183	119,111	112,846	116,918	114,435
	Flared and vented hydrocarbon intensity (Upstream)*						
	Gas flaring/production	t/t	0.013	0.017	0.015	0.014	0.009
GRI 066	Gas venting/production	t/t	0.005	0.005	0.005	0.005	0.004
	Flared and vented hydrocarbon intensity (Downstream)**						
	Gas flaring/production	t/t	0.011	0.013	0.012	0.013	0.010
	Gas venting/production	t/t	0.00053	0.00032	0.00023	0.00024	0.00020

* Volume of flared and vented hydrocarbon by production unit (tons of natural gas and oil produced).

** Volume of flared and vented hydrocarbon by production unit (tons of crude oil processed).

CHAPTER 4: SUSTAINABLE PRODUCTION

WATER MANAGEMENT

	INDICATOR	UNIT	2022	2021	2020	2019	2018
	Total water withdrawal*	megaliters	193,915	206,041	209,422	229,625	231,776
	Total water produced	megaliters	137,486	141,094	146,304	162,804	163,097
	Total water collected	megaliters	56,429	64,947	63,118	66,821	68,679
	Total surface water	megaliters	50,767	46,011	46,620	48,402	49,927
	Total groundwater	megaliters	3,955	17,054	14,973	15,982	16,245
	Total third-party water**	megaliters	1,707	1,883	1,525	2,437	2,507
	Quality of water withdrawal						
	Total Freshwater (≤1,000 mg/L Total Dissolved Solids)	megaliters	56,429	64,947	63,118	66,821	68,679
	Total water withdrawal from other waters (>1,000 mg/L Total Dissolved Solids)	megaliters	137,486	141,094	146,304	162,804	163,097
	Water collection by business						
WATER EXTRACTION	Upstream	megaliters	18,674	17,097	12,369	17,710	16,378
	Conventional VP	megaliters	9,104	9,173	9,987	13,201	12,943
GRI 303-3	Non-Conventional VP	megaliters	9,570	7,924	2,382	4,509	3,435
	Downstream VP	megaliters	37,572	37,186	44,075	44,285	46,595
SASB EM-EP-140A.1	Gas and Energy VP	megaliters	2	10,620	6,622	4,746	5,614
	Other businesses	megaliters	181	44	52	80	92
	Water collection from areas with water stress						
	Total of areas with water stress	megaliters	24,537	23,273	25,099	24,324	23,780
	Total of areas with water stress	% of total withdrawal	43.5	35.8	39.8	36.4	34.6
	Total third-party water	megaliters	221	194	-****	-****	N/A
	Surface	megaliters	21,105	19,237	23,931	22,937	N/A
	Ground	megaliters	3,211	3,842	1,168	1,388	N/A
	Produced	megaliters	N/A***	N/A	N/A	N/A	N/A
	Quality of water withdrawal from all areas with water stress						
	Total Freshwater (≤1,000 mg/L Total Dissolved Solids)	megaliters	24,537	23,273	25,099	24,324	23,780
	Total water withdrawal from other waters (>1,000 mg/L Total Dissolved Solids)	megaliters	0	0	0	0	0

* Extracted water = External collected water + produced water. Produced water is that which accompanies hydrocarbons when extracted, proceeding from the field itself, or that obtained in exploratory probing. After its treatment, it is reused for secondary recovery, hydraulic stimulation, or it is injected for final disposal.

** Does not include seawater. Water from gas carriers not accounted for.

*** Water produced in the stress area has not been identified.

**** In 2020/2019 arid or low water use areas were not considered stress areas, they were included in 2021. In these areas, water is collected from the public water supply and other water inputs.

	INDICATOR	UNIT	2022	2021	2020	2019	2018
WATER COLLECTION SASB EM-EP-140A.1	Intensity of water collection						
	YPF (weighted)	m ³ of water collected/m ³ of oil equivalent	1.26	1.50	1.58	1.46	1.45
	Upstream	kt of collected water/kt of crude oil and gas produced	0.77	0.76	0.57	0.72	0.65
	Conventional Upstream VP	kt of collected water/kt of crude oil and gas produced	0.73	0.65	0.65	0.74	0.66
	Non-conventional Upstream VP	kt of collected water/kt of crude oil and gas produced	0.81	0.95	0.39	0.68	0.62
	Downstream VP	kt of collected water/kt of crude oil processed	2.63	2.74	3.74	3.18	3.25

	INDICATOR	UNIT	2022	2021	2020	2019	2018	
WATER DISCHARGE GRI 303-4	Total water discharge*		166,535	172,574	180,962	197,520	195,799	
	Process water discharge**		28,353	29,422	30,347	26,185	24,700	
	Injected water***		138,182	143,152	150,615	171,335	171,099	
	Process water discharge by destination							
	Surface waterbody		megaliters	24,867	26,392	28,199	22,331	21,151
	Ground waterbody/Formation		megaliters	3,486	3,029*****	2,146	2,925	2,706
	Soil****		megaliters	0	1.33	1.88	929	843
	Process water discharge by business							
	Upstream (Conventional VP + Non-conventional VP)		megaliters	3,486	2,584	1,572	2,134	1,916
	Downstream VP		megaliters	24,867	24,687	28,202	23,893	22,049
	Gas and Energy VP		megaliters					
	Process water discharge by area							
	Receiving fresh waterbody		megaliters	24,867	24,326.55	N/A	N/A	N/A
	Receiving other waterbody		megaliters	3,486*****	4,836	N/A	N/A	N/A
	Process water discharge in areas with water stress							
	Freshwater		megaliters	19,857	18,698	21,442	16,951	14,799
Other water		megaliters	1,711	836	N/A	N/A	N/A	
Hydrocarbon concentration in water discharge								
Produced water discharge		megaliters	3,486	2,584	N/A	N/A	N/A	
Hydrocarbon concentration in produced water discharge		mg/L	56.8	48.9	N/A	N/A	N/A	
Process water discharge		megaliters	28,353	29,422	N/A	N/A	N/A	
Hydrocarbon concentration in process water discharge		mg/L	8.0	5.3	N/A	N/A	N/A	

* Total discharged water = Discharged water + injected water.

** Discharged water: discharged to a receiving body (surface or underground), channels, wastewater network, etc. The water is discharged in compliance with the conditions established by the application authority. It includes the water collected by the Luján de Cuyo Industrial Complex that circulates, as authorized, through the refinery's supply channel, whether it has been incorporated into the production process (consumed water) or not.

*** Injected water: into the deposit itself in order to increase production.

**** In 2022 the definition of receiving body was changed. From 2018-2029 discharged water into dry streams was erroneously considered to be discharged to the ground. In 2020 it was modified to be charged as a surface discharge. From 2022 onwards, irrigation with treated water is considered as discharge to soil, which is why it increases.

***** The quantity discharged into each receiving body is considered, depending on the quality of the receiving body.

The service stations cesspool discharge was considered, which in 2022 was no longer considered because it is not process water.

	INDICATOR	UNIT	2022	2021	2020	2019	2018
WATER CONSUMPTION GRI 303-5	Total water consumption	megaliters	27,396	33,467	28,460	32,105	35,977
	Water consumption from all areas with water stress						
	Consumption from all areas with water stress	megaliters	2,941	3,739	3,657	7,373	8,981
	Consumption from all areas with water stress	% of total consumption	10.7	11.2	12.8	23.0	25.0
	Intensity of water consumption						
	YPF (weighted)	m ³ consumed water/m ³ crude oil eq.	0.62	0.87	0.84	0.89	0.95

* Taking the suggestion of GRI, in cases where there is no direct measurement of water consumption, we have calculated the difference between collected water and process discharge in order to obtain total consumption.

	INDICATOR	UNIT	2022	2021	2020	2019	2018
VOLUME OF PRODUCED WATER AND FLOWBACK GENERATED SASB EM-EP-140A.2	Total of produced water and flowback (Upstream)	megaliters	137,486	141,094	146,304	162,804	163,097
	Discharged	%	2.5	1.8	1.1	1.3	1.1
	Injected	%	97.5	98.2	98.9	99.2	99.7

	INDICATOR	UNIT	2022	2021	2020	2019	2018
USE OF WATER FOR HYDROFRACTURE SASB EM-EP-140A.3, EM-EP-140A.4	Hydraulically fractured wells with public disclosure of chemicals used for fluids.	% of total wells	100	100	100	100	100
	Hydraulic fracturing sites where the quality of underground or surface water has deteriorated compared to a baseline	% of total sites	0	0	0	0	0
	Total volume of hydraulic fracture fluid*	megaliters	8,231.6	7,332.1	1,857.3	3,772.9	2,007.9
	Percentage of hydraulic fracturing fluid used that is hazardous	%	<1	<1	<1	<1	N/A

* More than 95% of the fluid is water, 4% is sand, and less than 1% are chemicals.

OTHER ATMOSPHERIC EMISSIONS

	INDICATOR	UNIT	2022	2021	2020	2019	2018
	Total atmospheric emissions	t	117,302 *	125,102	129,561	155,155	165,331
NITROUS OXIDES (NOX), SULFUR OXIDES (SOX) AND OTHER SIGNIFICANT AIR EMISSIONS	SO ₂	t	5,475	6,116	5,059	6,710	6,390
	NO _x	t	51,253	57,255	62,558	76,350	77,134
	NMVOC	t	36,776	44,578	44,990	51,250	61,129
GRI 305-7	CO	t	20,026	14,061	14,328	17,269	16,640
	Particles	t	3,773	3,092	2,625	3,575	4,038

*Difference in decimals.

	INDICATOR	UNIT	2022	2021	2020	2019	2018
	Intensity of atmospheric emissions – YPF (weighted average)						
NITROUS OXIDES (NOX), SULFUR OXIDES (SOX) AND OTHER SIGNIFICANT AIR EMISSIONS	SO ₂	kg/production unit eq.	0.37	0.38	0.37	0.41	0.40
	NO _x	kg/production unit eq.	2.15	1.63	1.99	2.26	2.21
	NMVOC	kg/production unit eq.	0.96	1.42	1.61	1.44	1.77
PROPRIETARY INDICATOR	CO	kg/production unit eq.	0.51	0.38	0.41	0.43	0.41
	Particles	kg/production unit eq.	0.14	0.19	0.17	0.21	0.23

WASTE MANAGEMENT

INDICATOR	UNIT	2022	2021	2020	2019	2018
Total generated waste	Kt	699.7	532.2	312.0	644.0	535.0
Hazardous waste generated*	Kt	534.7	358.8	230.0	499.0	388.0
Non-Hazardous Waste Generated	Kt	165.0	173.4	82.0	145.0	147.0
Total generated waste (hazardous and non-hazardous) by business						
Upstream	Kt	644.7	474.6	273.9	589.2	473.9
Refining	Kt	38.1	35.6	26.5	35.0	43.3
Chemical	Kt	3.8	2.7	2.1	4.1	5.7
Gas and Energy	Kt	0.5	0.4	1.2	0.2	0.4
Commercial	Kt	6.2	6.5	6.3	11.2	9.4
Logistics	Kt	5.4	11.5	2.1	2.8	1.5
Others	Kt	1.0	1.0	1.3	1.1	1.1
Hazardous waste generated by type						
Drilling muds and cuttings	Kt	213.9	115.6	50.0	197.1	123.4
Spill soil	Kt	199.6	165.5	128.4	193.0	173.0
Tank bottoms	Kt	52.7	30.5	14.9	57.8	41.5
Oil-bearing waters	Kt	23.3	9.6	4.5	5.9	4.9
Pool sludge	Kt	23.2	20.0	17.9	20.8	21.3
Oil-contaminated waste	Kt	11.7	8.3	5.0	8.3	7.2
Biological effluent treatment sludge	Kt	4.3	0.5	1.3	1.4	3.0
Out of stock sodas	Kt	3.5	3.6	2.3	3.0	2.9
Other hazardous waste**	Kt	2.5	5.0	5.7	11.6	10.9
Non-Hazardous waste generated by type						
Water-based drilling muds and cuttings	Kt	144.5	153.6	69.4	125.5	129.5
Scrap	Kt	11.3	12.2	3.4	4.3	4.8
Urban assimilable waste	Kt	6.6	4.8	5.1	6.6	6.6
Wood	Kt	0.9	1.2	0.7	0.7	0.8
Cardboard and paper	Kt	0.4	0.3	0.5	0.3	0.5
Recoverable metals	Kt	0.4	0.04	0.03	0.05	0.00
Plastics and bags	Kt	0.3	0.7	0.6	1.2	1.4
Others non-hazardous waste***	Kt	0.6	0.2	2.4	6.3	3.4

**WASTE GENERATED
GRI 306-3**

* Land with hydrocarbons originating from historical environmental circumstances that are accounted for in the item "Stock of soils with hydrocarbons" is not included.

** Includes used mineral oil, hazardous catalysts, asbestos, ash, waste electrical and electronic equipment, among other non-hydrocarbon wastes.

*** Includes non-hazardous catalysts, tires and belts, used vegetable oil, among others.

	INDICATOR	UNIT	2022	2021	2020	2019	2018		
TOTAL WASTE (HAZARDOUS AND NON-HAZARDOUS)	Intensity of generated waste Upstream								
		Hazardous waste – Upstream	kt/production unit eq.	0.020	0.014	0.015	0.026	0.021	
		Hazardous waste – Conventional Upstream VP	kt/production unit eq.	0.020	0.017	0.017	0.022	0.015	
		Hazardous waste – Non-Conventional Upstream VP	kt/production unit eq.	0.020	0.013	0.012	0.034	0.027	
	PROPRIETARY INDICATOR		Non-hazardous waste – Upstream	kt/production unit eq.	0.007	0.007	0.004	0.005	0.005
			Non-hazardous waste – Conventional Upstream VP	kt/production unit eq.	0.009	0.005	0.003	0.009	0.009
		Non-Hazardous waste – Non-Conventional Upstream VP	kt/production unit eq.	0.004	0.010	0.005	0.00021	0.002	

	INDICATOR	UNIT	2022	2021	2020	2019	2018		
MUD AND DRILL CUTTINGS WASTE	Total generated mud and drill cuttings waste		Kt	358.4	269.2	119.4	322.2	252.5	
		Waste generated by conventional activities	Kt	106.9	79.3	42.2	149.3	172.6	
	PROPRIETARY INDICATOR		Waste generated by non-conventional activities	Kt	151.5	189.9	77.2	172.8	79.9
			Total valued mud and drill cuttings waste	Kt	57.3	79.4	247.4	76.1	45.5
		Total non-valued mud and drill cuttings waste	Kt	234.1	38.5	151.4	256.3	158.9	

	INDICATOR	UNIT	2022	2021	2020	2019	2018	
SOILS WITH HYDROCARBONS IN UPSTREAM	Stock		Kt	722.8	735.3	698.4	769.4	806.4
	PROPRIETARY INDICATOR	Treated	Kt	428.8	271.0	266.4	367.5	349.0

INDICATOR	UNIT	2022	2021	2020	2019	2018
Total treated waste*	Kt	743.3	529.1	639.4	698.3	540.3
Total stock waste	Kt	856.9	873.9	878.7	1,230.4	1,145.2
Waste sent for recovery						
Total	Kt	368.2	209.9	411.5	288.0	263.2
Percentage of waste sent for recovery	%	50	40	64	41	49
Hazardous waste sent for recovery	Kt	323.6	158.4	158.6	207.5	208.2
Reused or re-purposed	Kt	322.9	158.1	158.5	207.3	208.0
Recycled	Kt	0.30	0.3	0.1	0.2	0.2
Other process	Kt	0.29	0	0	0	0
Non-Hazardous waste sent for recovery	Kt	44.61	51.5	252.9	80.4	55
Reused or re-purposed	Kt	33.10	40.5	245.9	46.1	29.0
Recycled	Kt	11.51	11.0	7.0	34.3	26.0
Other process	Kt	0	0	0	0	0
Waste sent for disposal						
Total	Kt	375.7	319.2	227.9	410.3	277.2
Hazardous waste sent for disposal	Kt	353.0	200.9**	135.0	300.2	199.8
Incinerated without energy recovery	Kt	157.1	142.7	85.5	211.5	135.2
Landfill or Safety Cell	Kt	135.0	19.6	18.4	23.7	24.6
Other process	Kt	60.9	38.6	31.0	65.0	40.0
Non-Hazardous waste sent for disposal	Kt	22.1	118.4	92.9	110.1	77.4
Landfill***	Kt	6.8	118.4	92.9	110.1	77.4
Incineration without energy recovery	Kt	0.2	0	0	0	0
Incineration with energy recovery	Kt	0	0	0	0	0
Other process	Kt	15.09	0	0	0	0

* Land with hydrocarbons originating from historical environmental circumstances that are accounted for in the item "Stock of soils with hydrocarbons" is not included.

** No records were kept by type of treatment; however, considering the waste involved, we can estimate the treatment it received.

*** In 2022, external disposal is accounted for. In previous years, water-based sludge reused for quarry backfill was counted as internal disposal.

Other processes: Refers to disposal by composting, drying or physicochemical treatments.

MANAGEMENT OF BIODIVERSITY

	Indicator	2022		2021	
		Quantity	Ha	Quantity	Ha
PROTECTED OR RESTORED HABITATS	Sites that are used for production or extraction activities	76	4,946,200	98	7,831,904
	Sites that have been assessed and mapped regarding biodiversity in the last 5 years	21	1,952,370	28	4,499,861
GRI 304-3	Sites that contain or are adjacent to areas with high biodiversity significant at a global or national level	18	155,741	24	163,796
	Sites that have management plans for biodiversity	2	56,098	2	56,098

	INDICATOR	UNIT	2022	2021	2020	2019	2018
SPECIES THAT APPEAR ON THE IUCN RED LIST AND IN NATIONAL PRESERVATION LISTS WHOSE HABITATS ARE IN AREAS THAT ARE AFFECTED BY OPERATIONS	Total species: Birds	quantity	196	191	188	186	191
	Not threatened	quantity	174	175	175	173	172
	Minor concern	quantity	0	0	0	0	0
	Insufficiently known	quantity	0	1	1	1	1
	Vulnerable	quantity	18	4	4	4	4
	Threatened	quantity	0	9	8	8	9
	Endangered	quantity	2	1	1	1	1
	In Critical Danger	quantity	1	0	0	0	0
	Not considered	quantity	1	1	1	0	1
	Total species: Mammals	quantity	18	18	18	18	18
GRI 304-4	Not threatened	quantity	11	11	11	11	11
	Undetermined	quantity	1	1	1	1	1
	Almost threatened	quantity	2	2	2	2	2
	Vulnerable	quantity	3	3	3	3	3
	Threatened	quantity	0	0	0	0	0
	Endangered	quantity	0	0	0	0	0
	Exotic	quantity	1	1	1	1	1
	Total species: Reptiles	quantity	16	22	22	22	22
	Not threatened	quantity	8	8	8	8	8
	Undetermined	quantity	4	4	4	4	4
Almost threatened	quantity	0	0	0	0	0	
Vulnerable	quantity	2	2	2	2	2	
Threatened	quantity	0	0	0	0	0	
Endangered	quantity	0	0	0	0	0	
Insufficiently known	quantity	2	2	2	2	2	
Not considered	quantity	0	6	6	6	6	

PROTECTED AREAS MANAGEMENT

	LAGUNA LLANCANELO	AUCA MAHUIDA
Geographic Location	A 65,000 Ha wetland, located in the south of the province of Mendoza and declared a Ramsar site.	A 76,213 Ha area, located within the Auca Mahuida provincial reserve in the province of Neuquén, in the category of the multiple use reserves management. Declared a "Protected Paleontologist Area" by Provincial Decree #3603/98.
YPF Production Area	Licensed Production Block located west of the lake. A 24,500 Ha surface and represents 25% of the protected area.	Licensed production blocks on the Auca Mahuida Volcano, Bajo del Toro, Las Manadas and Don Ruíz, with a total surface of 36,212 Ha, representing 49% of the protected area.
Current Species	114 bird life: 97 Non-threatened species and 14 Vulnerable	85 bird life: 77 Non-threatened species, 4 Vulnerable, 2 Endangered, 1 in Critical danger, 1 not considered. 18 mammals: 11 Non-threatened species, 1 Undetermined, 2 almost threatened, 3 Vulnerable, 1 Exotic 22 reptiles: 8 Non-threatened species, 4 Undetermined, 2 Vulnerable, 2 Insufficiently Known, 6 Not considered.
Risks and Mitigation	(R) Opening of locations and new roads – (M) Multiple locations and facilities camouflage Loss of fuel and chemical products in the ground and water – (M) Impermeability of tanks and trucks (R) Sound emissions due to use of generators – (M) Installation of protections for equipment to reduce sound emissions	(R) Opening of locations and new roads – (M) Protection that allows sound reduction emissions (R) Vehicle transit running-over fauna – (M) Speed control and training (R) Impact of drilling during guanacos' calving cycle – (M) Drilling outside of guanacos' mating season (R) Habitat loss and deterioration – (M) Restoring of the habitat in the Payunia region with hand-built rock shelters.

	INDICATOR	UNIT	2022	2021	2020	2019	2018
RESERVES IN PROTECTED AREAS	Percentage of net proven reserves located in sites with protected preservation status or in areas of endangered species habitats	%	6.7	3.1	4.5	N/A	N/A
SASB EM-EP-160A.3	Percentage of net potential reserves located in sites with protected preservation status or in areas of endangered species habitats	%	9.1	4.8	3.2	N/A	N/A

CAPITAL INVESTMENTS AND OPERATIONAL EXPENSES LINKED TO ENVIRONMENTAL MANAGEMENT

	INDICATOR	UNIT	2022	2021	2020	2019	2018
CAPITAL INVESTMENTS AND OPERATIONAL EXPENSES LINKED TO ENVIRONMENTAL MANAGEMENT	Total	US\$	547,727,000	466,879,700	224,388,482	328,160,987	328,146,335
	Capital investments	US\$	417,996,000	365,852,000	152,022,482	229,999,779	228,052,667
	Operational expenses	US\$	129,731,000	101,027,700	72,316,000	98,161,208	100,093,668

CHAPTER 5: HEALTH AND SAFETY

	INDICATOR	UNIT	2022	2021	2020	2019	2018
WORKER TRAINING ON OCCUPATIONAL HEALTH AND SAFETY GRI 403-5 SASB EM-EP-320A.1	Safety training index (STI)						
	STI: own staff	STI*	0.47	0.41	0.20	0.40	0.35
	Average training hours: own staff	hours per person**	10.4	8.6	4.5	N/A	N/A
	STI: contractors	STI	0.78	0.37	0.60	0.71	0.75
	Average training hours: contractors	hours per person**	17.3	8.9	2.5		
	Trained firefighters	quantity	678	110	21	788	640
	Upstream (Conventional VP + Non-conventional VP)	quantity	138	0	0	221	141
	Downstream VP	quantity	524	0	0	496	434
	Gas and Energy VP	quantity	4	46	6	45	65
	AESA	quantity	12	44	3	14	N/A

* STI (%) = hours of training/hours worked x 100.

** Average safety training hours: Training hours/Amount of people.

	UNIT	2022	2021	2020	2019	2018
Fatalities						
Total	quantity	2	1	0	2	3
Own personnel	quantity	0	0	0	0	0
Contract Personnel	quantity	2	1	0	2	3
Fatality Rate (FR)* [per 1,000,000 hours worked]						
Total	FR	0.0161	0.0084	0	0.0141	0.0241
Own personnel	FR	0	0	0	0	0
Contract Personnel	FR	0.0259	0.0126	0	0.0210	0.0366
High-consequence work-related injuries¹						
Total	quantity	5	6	0	7	7
Own personnel	quantity	0	0	0	1	1
Contract Personnel	quantity	5	6	0	6	6
High-consequence work-related injuries rate**[per 1,000,000 hours worked]						
Total	rate	0.040	0.048	0.000	0.048	0.056
Own personnel	rate	0.000	0.000	0.000	0.020	0.023
Contract Personnel	rate	0.065	0.075	0.000	0.063	0.073
Total accidents (fatalities, ACPD and ASPD)***						
Total	quantity	150	161	133	253	290
Own personnel	quantity	31	53	50	121	151
Contract Personnel	quantity	119	108	83	132	139
Total Recordable Injury Frequency Rate**** (TRIFR) [per 1,000,000 hours worked]						
Total	TRIFR	1.21	1.29	1.21	1.73	2.33
Own personnel	TRIFR	0.66	1.18	1.12	2.38	3.54
Contract Personnel	TRIFR	1.54	1.36	1.26	1.38	1.70
Hours worked - millions						
Total	MM hours	124.0	124.7	110.3	146.2	124.6
Own personnel	MM hours	46.7	45.0	44.7	50.9	42.7
Contract Personnel	MM hours	77.3	79.7	65.6	95.3	81.9

* Fatality Rate (FR): amount of fatalities x 1,000,000/Amount of man-hours worked.

** High potential injuries due to work-related accidents rate: Number of High Potential Injuries due to work-related accidents x 1,000,000/Number of hours worked.

*** It does not include accidents in itinere. In itinere accidents with loss of days occurred in transports provided by YPF during 2022 were 2.

**** Recordable injury frequency rate: Number of computable accidents with and without loss of workdays x 1,000,000/Number of hours worked (not including first aid care).

¹ The main types of injuries correspond to: blows to different parts of the body 60%; cuts 17.5%; entrapment 15% and burns 7.5%. The main work-related accident risks are addressed by our Golden Rules for Working at Heights, Lifting Operations, Energy Isolation and Projection and Contact Area. These risks have materialized as incidents with very serious consequences during 2022. In order to eliminate these risks and minimize the occurrence of accidents, different campaigns and trainings have been conducted, as well as changes in the different processes of the Company, using the hierarchy of controls.

	UNIT	2022	2021	2020	2019	2018
WORK-RELATED INJURIES						
Computable accidents* with and without loss of workdays						
Total	quantity	38	42	22	63	61
Own personnel	quantity	4	7	5	10	10
Contract Personnel	quantity	34	35	17	53	51
Accident Frequency Rate (AFR)/Lost Time Injury Frequency Rate (LTIFR)** [per 1,000,000 hours worked]						
Total	AFR/LTIFR	0.32	0.35	0.20	0.44	0.51
Own personnel	AFR/LTIFR	0.09	0.16	0.11	0.20	0.23
Contract Personnel	AFR/LTIFR	0.47	0.45	0.26	0.58	0.66
SASB EM-EP-320A.1						
Days lost by computable accidents						
Total	days	3,480	3,681	1,367	5,602	5,316
Own personnel	days	263	342	119	903	1,102
Contract Personnel	days	3,217	3,339	1,248	4,699	4,304
Hours worked - millions						
Total	MM hours	124.0	124.7	110.3	146.22	124.6
Own personnel	MM hours	46.7	45.0	44.7	50.88	42.7
Contract Personnel	MM hours	77.3	79.7	65.6	95.34	81.9

*Computable accidents: Accidents over which YPF has safety management.

** Accident Frequency Rate (AFR): Number of computable accidents with loss of workdays per 1,000,000 hours worked. Equivalent to the Lost Time Injury Frequency Rate.

	INDICATOR	UNIT	2022	2021	2020	2019	2018
WORK-RELATED ILL HEALTH							
	Fatalities resulting from a work-related illness or disease	quantity	0	0	N/A	N/A	N/A
	Cases of recordable work-related illnesses and diseases	quantity	39	279	N/A	N/A	N/A
	Lost days due to psychopathologies	days	45,466	10,623	12,063	12,146	10,736
Absence rate*							
GRI 403-10	Absences due to non-work-related diseases	days	147,417	142,126	138,089	72,971	98,897
	Absence rate - Total	%	2.50	3.72	3.53	N/A	N/A
Absence rate by gender							
	Women	%	3.93	5.02	5.01	2.60	3.79
	Men	%	3.97	3.03	2.99	1.71	2.00

* Absence rate = lost days due to non-work-related diseases/(working days x population) x 100. An average of 22 working days per month is taken into account.

	UNIT	2022	2021	2020	2019	2018
Psychoactive substance abuse prevention program						
Performed examinations	quantity	45,708	24,088	14,711	69,168	56,383
Detected cases (drugs or alcohol)	quantity	158	77	49	203	415
Cases of sick leave due to drug abuse	quantity	165	77	32	67	25
Cases that led to a treatment program	quantity	41	47	9	13	25
Health service						
Medical consultations at health units	quantity	42,910	59,952	54,495	42,472	0.00
Advanced cardiovascular vital support - trained medical staff - physicians	quantity	0	144	144	144	0
Basic vital support - trained medical staff - nurses	quantity	0	124	124	124	0
Medical examinations (own staff)						
% of the staff with annual examination performed	%	78	60	88	95	95
Performed preventive medical examinations						
Performed preventive medical examinations - Drugs	quantity	23,827	12,656	14,511	35,192	29,619
Preventive medical examinations - Drugs - % of the staff	%	41	90	25	56	53
Performed preventive medical examinations - Alcohol	quantity	21,881	11,432	11,143	33,976	26,764
Preventive medical examinations - Alcohol - % of the staff	%	38	82	20	54	48

**WORKERS
COVERED BY AN
OCCUPATIONAL
HEALTH AND SAFETY
MANAGEMENT
SYSTEM
GRI 403-8**

INDICATOR	UNIT	2022	2021	2020	2019	2018
Process safety events – Tier 1						
Tier 1 events - Total	quantity	42	44	27	23	22
Tier 1 events per 1,000,000 hours worked - Total	Rate	0.339	0.353	0.347	0.217	0.565
Tier 1 events - Upstream	quantity	32	35	9	5	N/A
Tier 1 events per 1,000,000 hours worked - Upstream	Rate	0.656	0.698	0.214	0.082	N/A
Tier 1 events - Downstream	quantity	10	9	18	18	22
Tier 1 events per 1,000,000 hours worked - Downstream	Rate	0.255	0.231	0.508	0.407	0.565
Process safety events – Tier 2						
Tier 2 events - Total	quantity	118	79	60	52	N/A
Tier 2 events per 1,000,000 hours worked - Total	Rate	0.952	0.634	0.770	0.491	N/A
Tier 2 events - Upstream	quantity	91	62	21	16	N/A
Tier 2 events per 1,000,000 hours worked - Upstream	Rate	1.865	1.237	0.498	0.261	N/A
Tier 2 events - Downstream	quantity	27	17	39	36	N/A
Tier 2 events per 1,000,000 hours worked - Downstream	Rate	0.689	0.436	1.103	0.815	N/A
Emergency drills						
Upstream (Conventional VP + Non-conventional VP)	quantity	487	741	446	541	423
Downstream VP	quantity	1,243	1,209	914	1,700	1,719
Gas and Energy VP	quantity	202	37	28	50	45
AESA	quantity	992	56	370	113	N/A

**PROCESS SAFETY
EVENTS**

GRI 11.8.3

SASB EM-EP-540A.1

	SIGNIFICANT SPILLS	UNIT	2022	2021	2020	2019	2018
	Major hydrocarbon spills into a barrel*	amount of barrels	3,502	2,958	5,784	6,289	4,493
	Spill frequency rate						
	Upstream	Number x 1,000,000/Gross production + Accumulated injected water	10.79	12.00	11.48	10.75	9.93
SIGNIFICANT SPILLS	Downstream	Number x 1,000,000/transported m ³	0.06	0.10	0.06	0.05	0.10
GRI 11.8.2	Hydrocarbons in spilled volumes						
SASB EM-EP-160A.2	Production water	%	85	87	74	87	95
	Hydrocarbon	%	15	13	26	13	5
	Hydrocarbon in discharged water						
	Downstream	t	28.00	23.03	31.47	29.64	27.61
	Refiner and chemicals**	t	28.00	23.03	31.33	29.60	27.53

* Hydrocarbon spills, the volume of which is higher than a barrel that has reached the environment, Upstream and Downstream, are included. There were no hydrocarbon spills in the Polar Arctic Circle or that had impact on the coasts.

** Refining and chemicals had 100% of hydrocarbon discharged into water by 2022 and 2021.

INDICATOR	UNIT	2022	2021	2020	2019	2018
Total of the Staff of YPF Group	People	64,216	59,956	54,796	67,673	62,905
Direct employment (own staff)	People	22,330	20,951	19,812	22,376	20,702
Indirect employment (contractors)	People	41,886	38,993	34,984	45,297	42,203
Distribution of own personnel by gender						
Women	%	21.6	21.5	21.7	20.5	21.1
Men	%	78.4	78.5	78.3	79.5	78.9
Distribution of own personnel by age range						
Under 30 years old	%	15.4	14.0	15.4	18.1	18.9
Between 30 and 50 years old	%	71.1	72.4	71.2	68.0	66.9
Over 50 years old	%	13.5	13.7	13.5	13.9	14.2
Distribution of own personnel by type of employment contract						
Permanent contract	%	85.4	90.3	94.7	88.6	92.4
Temporary contract	%	14.6	9.7	5.3	11.4	7.6
Distribution of own personnel by geographic distribution						
Buenos Aires/CABA	%	46.9	44.9	46.6	50.1	48.0
Chubut / Santa Cruz / Tierra del Fuego	%	11.4	12.2	11.4	10.9	12.6
Mendoza	%	10.8	12.3	12.7	11.8	12.7
Neuquén	%	21.2	19.8	17.8	15.2	14.6
Rest of the country (Argentina)	%	8.9	10.3	10.8	11.7	11.7
Other countries	%	0.8	0.5	0.8	0.4	0.5

Human Resources items cover YPF S.A. and all controlled companies, excluding Metrogas.

	INDICATOR	UNIT	2022	2021	2020	2019	2018
EMPLOYEES GRI 2-7, 2-8	Direct staff distribution by work category						
	Executive officers	%	0.5	0.5	0.5	0.4	0.5
	Managers	%	2.9	3.1	3.1	3.1	3.2
	Heads	%	13.4	4.1	4.4	5.9	8.7
	Analysts and coordinators	%	83.2	27.6	27.6	25.3	22.5
	Senior staff under agreement	%	12.3	15.8	16.4	13.2	17.0
	Core staff under agreement	%	50.3	48.9	48.0	52.0	48.2
	Direct staff distribution by nationality						
	Argentina	%	95.8	96.2	96.6		
	Venezuela	%	1.2	1.1	1.0		
Bolivia	%	0.8	0.6	0.4			
Chile	%	0.6	0.7	0.6			
Brazil	%	0.5	0.5	0.5			
Other nationalities	%	1.1	0.9	0.9			

INDICATOR	UNIT	2022	2021	2020	2019	2018
Regular Directors						
Men	%	90.9				
Women	%	9.1				
Executive officers						
Women	%	16.2	9.7	10.6	10.0	9.5
Men	%	83.8	90.3	89.4	90	90.5
Under 30 years old	%	0.0	0.0	0.0	0.0	0.0
Between 30 and 50 years old	%	53.3	54.4	56.7	57.0	57.9
Over 50 years old	%	46.7	45.6	43.3	43.0	42.1
Managers						
Women	%	17.7	17.4	15.4	14.3	12.7
Men	%	82.3	82.6	84.6	85.1	86.9
Under 30 years old	%	0.0	0.0	0.0	0.0	0.0
Between 30 and 50 years old	%	62.1	65.4	65.4	58.9	56.7
Over 50 years old	%	37.9	34.6	34.6	41.1	43.3
Heads						
Women	%	19.0	18.1	15.7	14.9	13.0
Men	%	81.0	81.9	84.3	82.4	81.1
Under 30 years old	%	1.6	0.4	0.3	1.1	0.1
Between 30 and 50 years old	%	75.3	80.7	82.8	77.7	74.0
Over 50 years old	%	23.1	18.9	16.9	21.2	25.9
Analysts and coordinators						
Women	%	22.2	39.1	30.0	30.0	30.3
Men	%	77.8	69.5	70.4	70.0	69.7
Under 30 years old	%	18.3	9.2	9.4	11.0	13.7
Between 30 and 50 years old	%	70.9	77.7	78.1	74.7	74.6
Over 50 years old	%	10.9	13.1	12.5	13.2	11.7

**DIVERSITY IN
GOVERNMENT
AGENCIES AND
EMPLOYEES**
GRI 405-1

	INDICATOR	UNIT	2022	2021	2020	2019	2018
DIVERSITY IN GOVERNMENT AGENCIES AND EMPLOYEES/ (CONTINUED)	Senior staff under agreement						
	Women	%	11.4	11.0	10.7	11.1	10.4
	Men	%	88.6	89.0	89.3	88.9	89.6
	Under 30 years old	%	5.4	4.3	5.6	7.3	7.5
	Between 30 and 50 years old	%	88.4	74.0	71.8	71.8	71.5
	Over 50 years old	%	26.1	21.7	22.6	20.9	21.0
	Core staff under agreement						
	Women	%	20.0	20.6	21.9	19.1	21.5
	Men	%	80.0	79.4	78.1	80.9	78.5
	Under 30 years old	%	23.1	22.0	24.6	27.0	30.0
Between 30 and 50 years old	%	68.1	68.7	66.4	63.3	62.0	
Over 50 years old	%	8.8	9.3	9.0	9.7	8.7	
GRI 405-1	Executive positions in areas that generate revenue						
	Women	%	11.5	17.9	14.9	14.1	11.1
	Science, Technology, Engineering, Engineering and Mathematics (STEM) positions						
	Women	%	15.4	16.4	11		
COLLECTIVE BARGAINING AGREEMENTS	Own personnel under agreement						
	Direct staff with union representation (own staff)	%	37.5	41.0	42.8	41.0	44.3
	Indirect staff with union representation (contractors)	%	75.3	77.0	72.0	74.3	81.2
GRI 2-30							

	INDICATOR	UNIT	2022	2021	2020	2019	2018
ANNUAL TOTAL COMPENSATION RATIO GRI 2-21	Annual total compensation ratio						
	YPF S.A.	Ratio (times)	20	18	14	19	21
	YPF Group	Ratio (times)	25	23	23	24	27
	Ratio of percentage increment of total annual compensation						
	Percentage increment of total annual compensation of the highest paid person	%	133	75	64	68	32
	Percentage increment of the median of the total annual compensation of Employees all employees	%	114	69	30	47	32
	Ratio of percentage increment of total annual compensation	Ratio (times)	1.2	1.1	2.1	1.5	1.0

* Ratio of the total annual compensation of the highest paid person in the organization versus the median of the total compensation of all other employees. Staff out of the union.

	INDICATOR	UNIT	2022	2021	2020	2019	2018
RATIO OF BASIC WAGE AND OF THE COMPENSATION OF WOMEN VERSUS MEN GRI 405-2	Female wages, as compared to male wages						
	Total	%	93.5	93.9	92.0	95.9	95.9
	Executive officers	%	89.8	91.2	85.2	92.4	96.2
	Managers	%	94.5	94.9	93.2	99.4	96.2
	Supervisors	%	93.7	94.1	93.3	96.4	96.2
	Analysts and coordinators	%	96.1	96.6	95.7	99.1	98.4
	Senior staff under agreement	%	93.9	93.4	93.3	91.0	90.3
	Core staff under agreement	%	93.2	93.0	91.3	97.0	99.0

INDICATOR	2022		2021		2020		2019		2018	
	PEOPLE	RATE	PEOPLE	RATE	PEOPLE	RATE	PEOPLE	RATE	PEOPLE	RATE
Total hires	4,975	22.3%	3,829	18.3%	1,325	6.7%	5,343	23.9%	4,259	20.6%
Total turnover (voluntary and involuntary)	2,693	12.0%	2,375	12.5%	3,893	20.0%	3,664	16.4%	1,834	9.1%
Total voluntary turnover	1,000	4.5%	840	4.0%	958	4.8%	671	3.0%	523	2.5%
Hires by gender										
Women	838	3.8%	469	2.2%	94	0.5%	493	2.2%	662	3.2%
Men	4,137	21.2%	3,360	16.0%	1,231	6.2%	4,850	21.7%	3,597	17.4%
Turnover by gender										
Women	380	1.7%	252	1.2%	410	2.1%	279	1.2%	282	1.4%
Men	2,313	10.4%	2,375	11.3%	3,483	17.6%	3,385	15.1%	1,552	7.5%
Hires by age group										
Under 30 years old	1,791	8.0%	1,110	5.3%	394	2.0%	1,779	8.0%	1,661	8.0%
Between 30 and 50 years old	2,842	12.7%	2,364	11.3%	811	4.1%	3,141	14.0%	2,293	11.1%
Over 50 years old	342	1.5%	355	1.4%	120	0.6%	423	1.9%	305	1.5%
Turnover by age group										
Under 30 years old	612	2.7%	520	2.5%	725	3.7%	912	4.1%	472	2.3%
Between 30 and 50 years old	1,695	7.6%	1,451	6.9%	2,266	11.4%	2,127	9.5%	998	4.8%
Over 50 years old	386	1.7%	404	1.9%	902	4.6%	625	2.8%	364	1.8%
Hires by region										
Buenos Aires / CABA	374	1.7%	1,625	7.6%	551	2.8%	2,976	13.3%	2,063	10.0%
Chubut / Santa Cruz / Tierra del Fuego	8	0.0%	481	2.3%	44	0.2%	302	1.3%	542	2.6%
Mendoza	283	1.3%	94	1.4%	592	0.5%	392	2.6%	392	1.9%
Neuquén	1,383	6.2%	1,337	6.2%	542	2.7%	846	3.8%	630	3.0%
Rest of the Country	2899	13.0%	36	0.4%	10	0.4%	386	2.7%	386	3.1%
Other countries	30	0.1%	24	0.1%	22	0.1%	20	0.1%	0	0.0%
Turnover by region										
Buenos Aires / CABA	222	1.0%	1,404	6.7%	2,547	12.9%	1,711	7.6%	692	3.3%
Chubut / Santa Cruz / Tierra del Fuego	300	1.3%	166	0.8%	213	1.1%	175	0.8%	241	1.2%
Mendoza	356	1.6%	198	0.9%	223	1.1%	583	2.6%	244	1.2%
Neuquén	750	3.4%	801	3.8%	447	2.3%	581	2.6%	271	1.3%
Rest of the Country	1,035	4.6%	96	0.5%	440	2.2%	597	2.7%	386	1.9%
Other countries	30	0.1%	10	0.0%	23	0.1%	17	0.1%	0	0.0%

**NEW HIRING OF
EMPLOYEES AND
STAFF TURNOVER**
GRI 401-1

AVERAGE CONTRACTING EXPENSES	INDICATOR	UNIT	2022	2021	2020	2019	2018
	Average expenses by full-time employee	US\$/ETC	425	537	746	513	622

PERCENTAGE OF VACANT POSITIONS FILLED BY IN-HOUSE CANDIDATES	INDICATOR	UNIT	2022	2021	2020	2019	2018
	Vacant positions filled by in-house candidates	%	29.4	40.8	65	30	35

	INDICATOR	UNIT	2022		2021		2020		2019		2018	
			WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN
PARENTAL LEAVE GRI 401-3	Employees entitled to parental leave	People	281	357	329	361	367	459	338	456	371	468
	Employees who took parental leave	People	278	357	326	361	340	422	335	456	371	468
	Reinstatements	People	267	355	315	359	331	418	333	451	371	468
	Back-to-work rate*	%	96	99	97	99	97	99	99	99	100	100
	Active employees a year after their return**	People	284	334	305	393	300	429	294	444	373	488
	Retention rate***	%	87	93	90	94	90	94	95	93	91	94

* Back-to-work rate = Reinstatements/employees who took parental leave.

** Leave taken one year prior to the reported year, with 12 months completed during the reported year.

*** Retention rate = Active employees one year after their return/employees who took parental leave.

	INDICATOR	UNIT	2022	2021	2020	2019	2018	
AVERAGE TRAINING HOURS PER YEAR BY EMPLOYEE	Training hours							
	YPF Group	Hours	276,007	296,714	223,717	573,696	606,418	
	YPF S.A.	Hours	161,111	165,384	174,190	442,485	398,213	
	Average training hours per person							
	YPF Group	Hours / ETC	12.4	14.2	11.3	25.7	29.3	
	Women [YPF Group]	Hours / ETC	15.9	18.7	9.6	28.9	30.6	
	Men [YPF Group]	Hours / ETC	11.4	12.9	11.8	24.9	29.0	
	Executive officers [YPF Group]	Hours / ETC	4.4	3.9	2.6	45.0	28.6	
	GRI 404-1	Managers [YPF Group]	Hours / ETC	23.0	29.8	9.5	50.3	56.6
	Heads [YPF Group]	Hours / ETC	22.9	24.3	18.0	67.1	48.1	
	Analysts and coordinators [YPF Group]	Hours / ETC	18.0	20.2	15.2	32.5	47.6	
	Senior staff under agreement [YPF Group]	Hours / ETC	14.7	14.2	22.6	32.9	20.9	
	Core staff under agreement [YPF Group]	Hours / ETC	5.7	8.8	4.7	14.1	20.8	
Average training expenses								
	YPF Group	US\$/ETC	291	202	131	394	116	

	DISTRIBUTION OF PURCHASES BY REGION	UNIT	2022	2021	2020	2019	2018
EXPENSES RATIO FOR LOCAL SUPPLIERS GRI 204-1	Upstream						
	National	%	4.3	4	51	9	64
	Chubut and Santa Cruz	%	27.2	27	17	25	11
	La Plata	%	0	0	0	0	0
	Mendoza	%	16	18	11	17	6
	Neuquén and Río Negro	%	52.4	51	21	49	19
	Downstream						
	National	%	78	96	81	62	63
	Chubut and Santa Cruz	%	0.1	0	0	0	0
	La Plata	%	15.2	0	15	23	28
Mendoza	%	4.1	3	4	13	7	
Neuquén and Río Negro	%	2.3	1	0	2	1	
Geographic distribution of suppliers based on their ability to provide services							
	Argentina	Quantity	4,970	4,761	4,919	6,111	7,995
	Area of the City of Buenos Aires	Quantity	39	51	61	113	1,180
	Central Area	Quantity	38	34	47	56	162
	Great La Plata Area	Quantity	138	158	183	215	231
	Coastal Area	Quantity	50	56	54	63	55
	Area of the Argentine NW	Quantity	14	46	10	14	13
	Western Area	Quantity	643	606	665	828	990
	Pampas Area	Quantity	132	109	63	105	92
	Southern Area	Quantity	325	314	338	376	900

INDICATOR		2022	2021	2020	2019	2018
Suppliers with valid qualifications	Quantity	5,441	5,083	5,276	6,721	6,546
Qualification processes	Quantity	772	597	477	646	601
Total of audited suppliers	Quantity	743	576	458	602	550
New audited suppliers	Quantity	143	87	64	102	40
Qualification results						
Complete qualification	Quantity	617	467	364	472	448
Provisional qualification	Quantity	99	58	55	118	112
Not accepted	Quantity	56	72	58	56	41
Performance assessment						
Assessed suppliers	Quantity	5,196	4,044	4,289	5,086	2,326
Result - Very good	Quantity	1,703	1,791	1,780	2,000	1,196
Result - Good	Quantity	2,432	1,069	731	889	465
Result - Average	Quantity	779	450	387	749	219
Result - Poor	Quantity	282	734	1,391	1,448	446
Sanctioned suppliers	Quantity	1	6	3	13	16
Environmental and social aspects assessment						
New suppliers that have approved selection filters according to environmental criteria	%	20	42.5	43.8	35.3	70.0
Assessed suppliers regarding environmental impact	Quantity	575	523	643	752	377
Suppliers identified as having significant negative social impacts	Quantity	0	0			
New suppliers that have approved selection filters according to social criteria	%	61	71.0	65.6	32.0	100.0
Assessed suppliers regarding social impact	Quantity	666	579	712	836	
Suppliers identified as having significant negative social impacts	Quantity	0	0			
Suppliers according to criticality level (of the total with effective qualification status)						
High	%	43	41	38	32	34
Medium	%	33	34	34	38	38
Low	%	24	25	28	29	28

**QUALIFICATION
AND ASSESSMENT
OF SUPPLIERS**

**GRI 414-1, 414-2,
308-1, 308-2**

	INDICATOR	UNIT	2022	2021
TAX REPORTING BY COUNTRY GRI 204-7	Earnings before taxes			
	Argentina*	Mill. of Argentine pesos	412,654	62,337
	Other countries**	Mill. of Argentine pesos	-13,477	1,264
	Income tax accrued			
	Argentina	Mill. of Argentine pesos	-109,173	-64,279
	Other countries	Mill. of Argentine pesos	261	-130
	Income tax paid			
	Argentina	Mill. of Argentine pesos	-43,707	-385
	Other countries	Mill. of Argentine pesos	-	-130

* Argentina includes YPF S.A. and its subsidiaries located in Argentina, including OPESSA, AESA, Metrogas, Y-TEC.

** Other countries include the following countries, entities and activities: Chile (YPF Chile; 70 people; marketing of lubricants and aviation fuels, and hydrocarbon research and exploration), Brazil (YPF Brazil; 100 people; marketing of petrochemical products), United States (YPF Holding inc, YPF Services; 0 persons; investment and financing activities), Bolivia (YPF Internacional; 0 persons; investment activities), Colombia (YPF Colombia SAS; 0 persons;), Peru (YPF Peru; 0 persons;), Uruguay (Wokler Investment S.A., Lestery SA, Miwen S.A.; 0 persons). Report data Country by Country 2021.

MAIN TOPICS CONTRIBUTED (2022)			
	Topic	Description of the corporate position	Total monetary contribution (Argentine pesos)
8.2.1 CONTRIBUTION TO PUBLIC DEBATE	Promote responsible practices in business and in the oil and gas industry.	YPF participates in several committees and working groups of the main Oil and Gas associations that promote responsible practices and knowledge sharing in the industry, including issues related to energy transition, resource efficiency, and climate change adaptation.	AR\$ 101.0 M
	Strengthening of technical institutions or initiatives	YPF supports the development of commercial relationships, both nationally and internationally, in order to promote and develop the industry in Argentina.	AR\$ 17.7 M
MOST SIGNIFICANT CONTRIBUTIONS (2022)			
GRI 415-1	Name of the organization	Type of organization	Total monetary contribution (Argentine pesos)
	IAPG(Argentine Institute of Oil and Gas)	Industry association	AR\$ 58.3 M
	Arpel (Regional Association of Oil and Gas Companies)	Industry association	AR\$ 10.4 M
	IOGP(International Association of Oil and Gas Producers)	Industry association	AR\$ 4.2 M

ASSOCIATION	PARTICIPATION
National	
APLA - Latin American Petrochemical and Chemical Association.	Member of the Board and the Logistics Commission. Monthly and quarterly meetings.
CADER - Argentine Chamber of Renewable Energy.	Member of the Board of Directors. Bimonthly meetings
CAEM - Argentine Chamber of Mining Business Owners.	Participation in various activities of the industry
CAI - Argentine Center of Engineers	Member of the Board and the Energy and Mining, Young CAI, Urban Planning, and Housing Commissions. Monthly, bimonthly, and semi-annual meetings.
CEADS - Argentine Business Council for Sustainable Development	Participating members. Periodic meetings on ESG-relevant topics.
CEPH - Chamber of Companies that Produce Hydrocarbon	Member of the Board and of the Communications, Taxes, Crude Oil, Regulatory Framework, Gas, Security, Labor, Inter-Chambers, Vaca Muerta, and Competitiveness Commissions. Monthly, bimonthly, and semi-annual meetings.
CIQyP - Argentine Chamber of the Chemical and Petrochemical Industry	Member of the Board of Directors and of the Environmental Affairs, Raw Materials and Energy, Small and Medium Chemical Industry, Commercial, Commercial Affairs Commissions, and of Chemical Regulations work group. Monthly, bimonthly, and semi-annual meetings.
IAPG - Argentine Institute of Oil and Gas	Member of the Board of Directors and the Young Professionals, Energy Transitions, Technological Innovation, Integrity of Oil and Gas Pipelines, Asset Management and Reliability, SSO, and Environment Commissions, among others. Monthly, bimonthly, and semi-annual meetings.
International	
AmCham - American Chamber of Commerce in Argentina	Member of the Environment and Sustainability Commissions. Monthly meetings
ARPEL - Regional Association of Companies of the Oil, Gas, and Biofuel Sector in Latin America and the Caribbean	Member of the Board of Directors and of Social Responsibility, Communications, Pipelines and Terminals of ARPEL, Refining and Fuels, Climate Change, Industrial Health and Safety, and Cybersecurity Commissions, among others. Monthly and bimonthly meetings
IGU - International Gas Union -Represented in Argentina by IAPG 3 - Argentine Institute of Oil and Gas	Chairman of the Compliance Committee. Monthly, bimonthly, and semi-annual meetings.
IOGP - International Association of Oil & Gas Producers	Member of the Environment and Safety Commissions. Meetings without specific frequency
Argentine Network for the United Nations Global Compact	Presidency of the Board of Directors. Participation in the work groups of Circular Economy, Climate Care, Sustainability in the Value Chain, Human Rights, and Companies and Sustainable Transport. Regular meetings
SIGTTO - International Gas Transport Terminal Operators	Meetings without specific frequency.
SPE - Society of Petroleum Engineers	Member of the Broadcasting and Publications, Conferences, and Social Meetings Committees. Monthly and bimonthly meetings
WCA - World Compliance Association	Partners

**MEMBERSHIPS
AND ASSOCIATIONS**

GRI 2-28

APPENDIX B

RECALCULATION OF HISTORICAL VALUES FOR COMPARATIVE PURPOSES

(SEE SECTION "ABOUT THIS REPORT" ON PAGE 88).

In order to carry out an estimated recalculation of certain relevant metrics, Grupo YPF took into account the incidents that exceeded 5% in previous periods, to allow the users of this report to obtain additional information for their trend assessment.

	INDICATOR	UNIT	2021	2020	2019	2018
ENERGY CONSUMPTION WITHIN THE ORGANIZATION GRI 302-1	Estimated recalculation of YPF LUZ and YPF GAS in GRUPO YPF values					
	GRUPO YPF REPORTED (2018-2021 organizational boundary)*	GJ	199,813,405	183,063,035	203,010,971	212,537,928
	YPF LUZ	GJ	69,298,920**	54,732,511**	47,563,235**	53,103,389**
	YPF GAS	GJ	17,180			
	GRUPO YPF HISTORICAL RECALCULATION***	GJ	130,514,485***	128,330,524***	155,447,736***	159,434,539***
	YPF LUZ Incidence	%	35	30	23	25
	YPF GAS Incidence	%	0.00860			

* The reports published between 2018 and 2021 included the values of YPF LUZ and YPF GAS. ypf.com/LaCompania/Documents/ypf-reporte-de-sustentabilidad-2021.pdf

** YPF Luz presents its own sustainability report, from which the detailed metrics were obtained. See report published in <https://www.ypluz.com/Sustentabilidad/Reporte/2021>

*** It is recalculated by subtracting the published values of YPF LUZ; according to the GRUPO YPF definition.

	INDICATOR	UNIT	2021	2020	2019	2018
WATER EXTRACTION GRI 303-3	Estimated recalculation of YPF LUZ and YPF GAS in GRUPO YPF values					
	GRUPO YPF REPORTED (2018-2021 organizational boundary)*	megaliters	206,041	209,422	229,625	231,776
	YPF LUZ	megaliters	10,619**	6,621**	4,746**	5,613**
	YPF GAS	megaliters	14			
	GRUPO YPF HISTORICAL RECALCULATION	megaliters	206,041***	209,422***	229,625***	231,776***
	YPF LUZ Incidence	%	4.9	3.0	2.0	2.3
	YPF GAS Incidence	%	0.00661			

* The reports published between 2018 and 2021 included the values of YPF LUZ and YPF GAS. ypf.com/LaCompania/Documents/ypf-reporte-de-sustentabilidad-2021.pdf

** YPF Luz presents its own sustainability report, from which the detailed metrics were obtained. See report published in <https://www.ypluz.com/Sustentabilidad/Reporte/2021>

*** Historical values are not recalculated; according to GRUPO YPF's definition.

	INDICATOR	UNIT	2021	2020	2019	2018
	Estimated recalculation of YPF LUZ and YPF GAS in GRUPO YPF values					
DIRECT GHG EMISSIONS (SCOPE 1) GRI 305-1	GRUPO YPF REPORTED (2018-2021 organizational boundary)*	tCO ₂ e	15,603,375	15,204,794	16,981,198	17,951,758
	YPF LUZ	tCO ₂ e	3,924,586**	3,063,856**	2,673,464**	3,016,636**
	YPF GAS	tCO ₂ e	24			
	GRUPO YPF HISTORICAL RECALCULATION	tCO ₂ e	10,851,814***	11,488,534***	13,431,818***	14,022,847***
	YPF LUZ Incidence	%	25	20	16	17
	YPF GAS Incidence	%	0.00015			

* The reports published between 2018 and 2021 included the values of YPF LUZ and YPF GAS. ypf.com/LaCompania/Documents/ypf-reporte-de-sustentabilidad-2021.pdf

** YPF Luz presents its own sustainability report, from which the detailed metrics were obtained. See report published in <https://www.ypluz.com/Sustentabilidad/Reporte/2021>

*** Recalculated by subtracting the published values of YPF LUZ and the emissions of the power plants leased by YPF that pass Scope 2, according to GRUPO YPF's definition.

	INDICATOR	UNIT	2021	2020	2019	2018
	Estimated recalculation of YPF LUZ and YPF GAS in GRUPO YPF values					
INDIRECT GHG EMISSIONS (SCOPE 2) GRI 305-2	GRUPO YPF REPORTED (2018-2021 organizational boundary)*	tCO ₂ e	757,093	946,215	1,083,896	1,162,126
	YPF LUZ	tCO ₂ e	N/A	N/A	N/A	N/A
	YPF GAS	tCO ₂ e				
	GRUPO YPF HISTORICAL RECALCULATION	tCO ₂ e	1,979,592***	1,740,415***	1,997,645***	2,120,182***
	YPF LUZ Incidence	%				
	YPF GAS Incidence	%				

*** Scope 2 emissions calculation was performed based on the market-based method, since it takes into account the specific factors of each of the sources, which are contractualized.

In the year 2022, electricity purchased from YPF LUZ is accounted for (in previous years it was included in Scope 1 of YPF S.A., and therefore was not considered in this calculation), and the purchase made from third parties by Upstream (leased power plants, also considered in previous years within Scope 1). GUDIS (purchases from distributors) Upstream and Downstream (Logistics, Retail and LPG) consumption, not accounted for in previous years, are also added. Regarding steam: Steam purchased from CILP is added to Cogeneración La Plata of YPF LUZ, whose emissions were not accounted for, as they were inventoried in Scope 1 in previous years. Emission factors (EF) are recalculated, for electric power purchased from third parties, the majority component, the particular EF of each plant/plant are taken, for the remaining electric power purchases (EE) from MEM/CAMMESA (not contractualized), 0.315 tCO₂e/MWh (market factor without including renewable production, since its supply is provided by Y-LUZ); for GUDIS purchases, an EF of 0.273 was considered. tCO₂e/MWh (total energy produced, according to CAMMESA data). For CILC and CILP steam purchases, the EF of 0.178 tCO₂e/MWh was taken.

	INDICATOR	UNIT	2021	2020	2019	2018
	Estimated recalculation of YPF LUZ and YPF GAS in GRUPO YPF values					
WASTE GENERATED GRI 306-3	GRUPO YPF REPORTED (2018-2021 organizational boundary)*	Kt	532.2	312.0	644.0	535.0
	YPF LUZ	Kt	0.4**	0.3**	0.2**	0.2**
	YPF GAS	Kt	0.1			
	GRUPO YPF HISTORICAL RECALCULATION	Kt	532.2***	312.0***	644.0***	535.0***
	YPF LUZ Incidence	%	0.06909	0.08372	0.02648	0.04439
	YPF GAS Incidence	%	0.00997			

* The reports published between 2018 and 2021 included the values of YPF LUZ and YPF GAS. ypf.com/LaCompania/Documents/ypf-reporte-de-sustentabilidad-2021.pdf

** YPF Luz presents its own sustainability report, from which the detailed metrics were obtained. See report published in <https://www.ypluz.com/Sustentabilidad/Reporte/2021>

*** Historical values are not recalculated; according to GRUPO YPF's definition.

	INDICATOR	UNIT	2021	2020	2019	2018
	Estimated recalculation of YPF LUZ and YPF GAS in GRUPO YPF values.					
WORK-RELATED INJURIES ACCIDENT FREQUENCY RATE (AFR)/LOST TIME INJURY FREQUENCY RATE (LTIFR)** [PER 1,000,000 HOURS WORKED] SASB EM-EP-320A.1	GRUPO YPF REPORTED (2018-2021 organizational boundary)*	Number of computable accidents with loss of workdays per 1,000,000 hours worked. Equivalent to the Lost Time Injury Frequency Rate.	0.35	0.20	0.44	0.51
	YPF LUZ	Number of computable accidents with loss of workdays per 1,000,000 hours worked. Equivalent to the Lost Time Injury Frequency Rate.	0.38 **	0.19**	0.74 **	0.00**
	YPF GAS	Number of computable accidents with loss of workdays per 1,000,000 hours worked. Equivalent to the Lost Time Injury Frequency Rate.	N/A	N/A	N/A	N/A
	GRUPO YPF HISTORICAL RECALCULATION	Number of computable accidents with loss of workdays per 1,000,000 hours worked. Equivalent to the Lost Time Injury Frequency Rate.	0.35***	0.20***	0.44***	0.51***
	YPF LUZ Incidence	%	0%	0%	0%	0%
	YPF GAS Incidence	%				

* The reports published between 2018 and 2021 included the values of YPF LUZ and YPF GAS. ypf.com/LaCompania/Documents/ypf-reporte-de-sustentabilidad-2021.pdf

** <https://www.ypluz.com/Sustentabilidad/Reporte/2021>

*** Historical values are not recalculated; according to GRUPO YPF's definition.

GRI STANDARDS

SUSTAINABILITY REPORT 2022

MESSAGE FROM THE PRESIDENT

MESSAGE FROM THE CEO

YPF IN FIGURES - 2022

COMPANY PROFILE

01. ENERGY COMPANY

02. COMMITMENT TO SUSTAINABILITY

03. CLIMATE ACTION

04. SUSTAINABLE PRODUCTION

05. HEALTH AND SAFETY

06. PEOPLE

07. SHARED SOCIAL VALUE

08. ETHICS AND COMPLIANCE

LEGAL NOTICE

ABOUT THIS REPORT

APPENDICES

APPENDIX B

GRI Standards

SASB Standards

TCFD Index

EXTERNAL REVIEW REPORT

GRI STANDARD	CONTENTS	GRI 11 CODE	PAGE NUMBER OR URL	RESPONSE, EXPLANATION OR OMISSION	GLOBAL COMPACT	SDGS	EXTERNAL VERIFICATION
General Contents							
1	Declaration of use		88	YPF has reported in alignment with GRI Standards for the period between January 1, 2021 and December 31, 2021.			
1	Sector Standards		88	GRI 11: Oil and Gas Sector 2021			
2-1	Organizational details		6				
2-2	Entities included in the organization's sustainability reporting		88	To see the Consolidated Financial Statements click here .		12	
2-3	Reporting period, frequency and contact point		88	YPF's sustainability reports are submitted annually. See the reports by clicking here: YPF Sustainability - Executive Summary		12	
2-4	Restatements of information		88, 122			12	
2-5	External assurance		138			12	
2-6	Activities, value chain and other business relationships		10				
2-7	Employees		61, 112-113		No. 6	8	
2-8	Workers who are not employees		61, 112-113			8	
2-9	Governance structure and composition		11				
2-10	Nomination and selection of the highest governance body		11				
2-11	Chair of the highest governance body		11	According to the Bylaws, the Chairperson of the Board of Directors may not be a General Manager or CEO. For further information, click here: YPF S.A. Statute			

GRI STANDARD	CONTENTS	GRI 11 CODE	PAGE NUMBER OR URL	RESPONSE, EXPLANATION OR OMISSION	GLOBAL COMPACT	SDGS	EXTERNAL VERIFICATION
2-12	Role of the highest governance body in overseeing the management of impacts		12, 21	The company's Board of Directors establishes the general business strategy and approves the strategic plan prepared by management, taking into account environmental, social and corporate governance aspects. Supervises the implementation of the plan based on financial and non-financial indicators. (See the Code of Corporate Governance, pages 3, 4, 6, and 7, clicking here). Members of the Board (ypf.com) The Board of Directors is in charge, through the Risk and Sustainability Committee, of monitoring the proper implementation of integral risk management policies, promoting best practices in sustainability matters, and preparing and approving the annual and quarterly Financial Statements, as well as the corresponding Emission Prospectus and Form 20-F, among other functions. Board of Directors Committees (ypf.com)			
2-13	Delegation of responsibility for managing impacts		12-13, 21				
2-14	Role of the highest governance body in sustainability reporting		21	One of the functions of the Board of Directors is to supervise — through its various Committees (Audit Committee, Risk and Sustainability Committee)— and review that all the information to be reported in the Financial Statements, Annual Report, Corporate Governance Code, shareholder proposals before each Shareholders' Meeting, 20F and Sustainability Report, among others, is correctly reflected in the aforementioned documents. One of the functions of the Board of Directors is to supervise —through its various Committees (Audit Committee, Risk and Sustainability Committee)— and review that all the information to be reported in the Financial Statements, Annual Report, Corporate Governance Code, shareholder proposals before each Shareholders' Meeting, 20F and Sustainability Report, among others, is correctly reflected in the aforementioned documents. Board of Directors Committees (ypf.com)			
2-15	Conflicts of interest		84				
2-16	Communication of critical concerns		21				
2-17	Collective knowledge of the highest governance body		11	The experience of the current members of the Board of Directors can be accessed by clicking here: Board of Directors Committees (ypf.com)			
2-18	Evaluation of performance of the highest governance body		12				
2-19	Remuneration policies		12				
2-20	Process to determine remuneration		12				
2-21	Annual total compensation ratio		-	In 2022, the ratio of the total annual compensation of the highest paid person at Grupo YPF was 25 times of that compared to the average of the other employees (versus 23 times in 2021 and 2020). 1.17 was the ratio of percentage increase in the total annual compensation of the highest paid people compared to the rest of the employees (versus 1.09 in 2021).			

GRI STANDARD	CONTENTS	GRI 11 CODE	PAGE NUMBER OR URL	RESPONSE, EXPLANATION OR OMISSION	GLOBAL COMPACT	SDGS	EXTERNAL VERIFICATION
2-22	Statement on sustainable development strategy		3-4				
2-23	Policy commitments		12, 27, 81		No. 10	16	
2-24	Embedding policy commitments		27, 81				
2-25	Processes to remediate negative impacts		27, 72, 83				
2-26	Mechanisms for seeking advice and raising concerns		11, 72, 83		No. 10	16	
2-27	Compliance with laws and regulations		-	No payments of environmental fines in excess of US\$ 10,000 were recorded in the Company in 2022.			
2-28	Membership associations		21, 86, 121			17	
2-29	Approach to stakeholder engagement		23			17	
2-30	Collective bargaining agreements		65		No. 3	8	
Material Topics							
3-1	Process to determine material topics		24			12	
3-2	List of material topics		25			12	
11.1 GHG Emissions [Material Topic YPF: CO ₂ and Methane Emissions Management]							
3-3	Management of material topics	11.1.1	33, 36-38				
302-1	Energy consumption within the organization	11.1.2	38, 91		No. 7, 8	7, 8, 12, 13	•
302-2	Energy consumption outside the organization	11.1.3	-	Unavailable information.	No. 8, 9	7, 8, 12, 13	
302-3	Energy intensity	11.1.4	38, 91		No. 8	7, 8, 12, 13	
305-1	Direct (Scope 1) GHG emissions	11.1.5	36, 92		No. 7, 8	13	•
305-2	Energy indirect (Scope 2) GHG emissions	11.1.6	36, 93		No. 7, 8	13	•
305-3	Other indirect (Scope 3) GHG emissions	11.1.7	38, 93		No. 7, 8	13	
305-4	GHG emissions intensity	11.1.8	36, 93		No. 8, 9	13	
	Methane Emissions	Other	92				
	Volume of flared and vented hydrocarbon	Other	94				

GRI STANDARD	CONTENTS	GRI 11 CODE	PAGE NUMBER OR URL	RESPONSE, EXPLANATION OR OMISSION	GLOBAL COMPACT	SDGS	EXTERNAL VERIFICATION
11.2 Climate adaptation, resilience and transition [Material topic YPF: Business model resilient to climate change and regulations; Production and development of renewable and low-carbon energy]							
3-3	Management of material topics	11.2.1	34				
201-2	Financial implications and other risks and opportunities due to climate change	11.2.2	14-16, 30-32, 35		No. 7	13	
305-5	Reduction of GHG emissions	11.2.3	37, 94		No. 8, 9	13	
	Approach to public policy development and lobbying on climate change	11.2.4	-	Both on a national and provincial level, the oil and gas industry in Argentina is subject to an extensive regulation. To halt and manage in advance risks and opportunities that may arise in this environment, YPF participates in industrial chambers that interact with authorities and legislators in the government's three levels, such as the Chamber of Hydrocarbons Production Companies (CEPH). Moreover, it is a member of technical agencies such as the Argentine Oil and Gas Institute (IAPG) and the Chamber of Chemical and Petrochemical Industry (CIQyP). In this way, we jointly approach matters such as the development of different types of hydrocarbon resources, business sustainability, energy transitions, gender equality, the development of suppliers or efficiency in the management of resources. Also highlighted is the monitoring of a group of possible regulations being evaluated by the National Congress and the provisional legislatures related to the economy, taxation, environmental or native communities, among others. Regarding IAPG activities, the Methane Emissions Committee presidency stands out, its goal is to establish and maintain transparent practices that promote lowering operation emissions, create a space to share and transmit experiences among the industry's different actors and encourage joint initiatives in order to strengthen actions to lower emissions.	No. 8, 9	13	
	Disclosures aligned with the Taskforce on Climate-related Financial Disclosures (TCFD) framework.	Other	137	See TCFD Index.			
11.3 Air emissions [Material Topic YPF: Air quality and air pollution near populated areas]							
3-3	Management of material topics	11.3.1	50				
305-7	Nitrogen oxides (NO _x), sulfur oxides (SO _x) and other significant air emissions	11.3.2	50, 98		No. 7, 8	12	•
416-1	Assessment of the health and safety impacts of product and service categories	11.3.3	18			12	
11.4 Biodiversity [Material Topic YPF: Biodiversity and impact on ecosystems]							
3-3	Management of material topics	11.4.1	47				
304-1	Owned, leased or managed operation centers located within or adjacent to protected areas or areas of high biodiversity value outside protected areas	11.4.2	103		No. 7	12, 15	

GRI STANDARD	CONTENTS	GRI 11 CODE	PAGE NUMBER OR URL	RESPONSE, EXPLANATION OR OMISSION	GLOBAL COMPACT	SDGS	EXTERNAL VERIFICATION
304-2	Significant impacts of activities, products, and services on biodiversity	11.4.3	47-48		No. 7	12, 15	
304-3	Habitats protected or restored	11.4.4	47-48, 102-103		No. 7	12, 15	
304-4	IUCN Red List species and national conservation list species with habitats are in areas affected by operations	11.4.5	102		No. 7	12, 15	
11.5 Waste [Material Topic YPF: Responsible Waste Management]							
3-3	Management of material topics	11.5.1	49				
306-1	Waste generation and significant waste-related impacts	11.5.2	49		No. 8	12	
306-2	Management of significant waste-related impacts	11.5.3	49		No. 8	12	
306-3	Waste generated	11.5.4	49, 99-100		No. 8	12	•
306-4	Waste diverted from disposal	11.5.5	49, 101		No. 8	12	
306-5	Waste directed to disposal	11.5.6	49, 101		No. 8	12	
11.6 Water and effluents [Material Topic YPF: Water and effluents]							
3-3	Management of material topics	11.6.1	45				
303-1	Interactions with water as a shared resource	11.6.2	45		No. 7, 8	6	
303-2	Management of water discharge-related impacts	11.6.3	45		No. 8	6	
303-3	Water withdrawal	11.6.4	45, 95-96		No. 7, 8	6	•
303-4	Water discharge	11.6.5	46, 96		No. 8	6, 12	
303-5	Water consumption	11.6.6	97		No. 8	6, 8, 12	
11.7 Closure and rehabilitation							
3-3	Management of material topics	11.7.1	50				
402-1	Minimum notice periods regarding operational changes	11.7.2	65	YPF S.A. is committed to complying with the terms and modalities established by the legal regulations, its internal rules, and the Collective Bargaining Agreements to which it is subscribed or through the Activity Chambers it formally integrates.		8	

GRI STANDARD	CONTENTS	GRI 11 CODE	PAGE NUMBER OR URL	RESPONSE, EXPLANATION OR OMISSION	GLOBAL COMPACT	SDGS	EXTERNAL VERIFICATION
404-2	Programs for upgrading employee skills and transition assistance programs	11.7.3	67			4, 8	
	Operational sites with closure plan, closed or in the process of being closed	11.7.4	50				
	Decommissioned structures left in place	11.7.5	-	Unavailable information.			
	Total monetary value of financial provisions for closure and rehabilitation	11.7.6	-	Unavailable information.			
	Soils with hydrocarbons - Upstream	Other	100				
11.8 Asset integrity and critical incident management [Material topic YPF: Incident Preparedness and Response]							
3-3	Management of material topics	11.8.1	57-58				
306-3 (2016)	Significant spills	11.8.2	109		No. 7	12	
	Total number of Tier 1 and Tier 2 process safety events	11.8.3	108		No. 7	12	
	Oil sands mining operations	11.8.4	-	YPF does not have oil sands operations, therefore it does not have this type of facilities.			
11.9 Occupational health and safety [Material Topic YPF: Occupational health and safety]							
3-3	Management of material topics	11.9.1	49-50				
403-1	Occupational health and safety management system	11.9.2	52		No. 1	8	
403-2	Hazard identification, risk assessment, and incident investigation	11.9.3	52		No. 1	8	
403-3	Occupational health services	11.9.4	55		No. 1	8	
403-4	Worker participation, consultation, and communication on occupational health and safety	11.9.5	54		No. 1	8	
403-5	Worker training on occupational health and safety	11.9.6	54, 104		No. 1	8	
403-6	Promotion of worker health	11.9.7	55		No. 1	8	
403-7	Prevention and mitigation of occupational health and safety impacts directly linked by business relationships	11.9.8	52		No. 1	8	
403-8	Workers covered by an occupational health and safety management system	11.9.9	52, 107		No. 1	8	
403-9	Work-related injuries	11.9.10	55, 105-106		No. 1	8	•
403-10	Work-related ill health	11.9.11	55.106		No. 1	8	

GRI STANDARD	CONTENTS	GRI 11 CODE	PAGE NUMBER OR URL	RESPONSE, EXPLANATION OR OMISSION	GLOBAL COMPACT	SDGS	EXTERNAL VERIFICATION
11.10 Employment practices [Material Topic YPF: Talent management]							
3-3	Management of material topics	11.10.1	61				
401-1	New employee hires and employee turnover	11.10.2	63, 115		No. 6	5, 8	
401-2	Benefits provided to full-time employees that are not provided temporary or part-time employees	11.10.3	63-64	YPF has no part-time employees. Temporary employees have the same benefits as own employees.	No. 6	8	
401-3	Parental leave	11.10.4	62, 116		No. 6	5, 8	
402-1	Minimum notice periods regarding operational changes	11.10.5	65	YPF S.A. is committed to complying with the terms and modalities established by the legal regulations, its internal rules, and the Collective Bargaining Agreements to which it is subscribed or through the Activity Chambers it formally integrates.		8	
404-1	Average hours of training per year per employee	11.10.6	66, 117			4, 8	
404-2	Programs for upgrading employee skills and transition assistance programs	11.10.7	67			4, 8	
414-1	New suppliers that were screened using social criteria	11.10.8	69, 119		No. 2	8	
414-2	Negative social impacts in the supply chain and actions taken	11.10.9	69-70		No. 2	8	
	Average cost of hiring	Other	116				
	Vacant positions filled by internal candidates	Other	116				
404-3	Percentage of employees receiving regular performance and professional development evaluations	Other	67			8	
11.11 Non-discrimination and equal opportunities [Material topic YPF: Diversity and Equal Opportunities]							
3-3	Management of material topics	11.11.1	61				
202-2	Proportion of senior management hired from the local community	11.11.2	-	In 2022, 97% of the total senior executives (Directors) of Grupo YPF were hired from the local community, defined as Argentina (naturalized citizens or permanent visa holders).	No. 6	8	
401-3	Parental leave	11.11.3	65, 116		No. 6	5, 8	
404-1	Average hours of training per year per employee	11.11.4	66, 117			4, 8	
405-1	Diversity of governance bodies and employees	11.11.5	61, 112-113		No. 6	5, 8	

GRI STANDARD	CONTENTS	GRI 11 CODE	PAGE NUMBER OR URL	RESPONSE, EXPLANATION OR OMISSION	GLOBAL COMPACT	SDGS	EXTERNAL VERIFICATION
405-2	Ratio of basic salary and remuneration of women to men	11.11.6	62, 114		No. 6	5, 8	
406-1	Incidents of discrimination and corrective actions taken	11.11.7	63		No. 6	5, 8	
11.12 Forced labor and modern slavery [Material topic YPF: Human Rights]							
3-3	Management of material topics	11.12.1	27-28				
409-1	Operations and suppliers at significant risk for incidents of forced or compulsory labor	11.12.2	27-28	Based on the assessment tools available, YPF did not identify forced labor risks in operations and suppliers with current contracts for the period covered by this report.	No. 4	8	
414-1	New suppliers that were screened using social criteria	11.12.3	69, 119		No. 2	8	
11.13 Freedom of association and collective bargaining [Material topic YPF: Human Rights]							
3-3	Management of material topics	11.13.1	27-28				
407-1	Operations and suppliers in which the right to freedom of association and collective bargaining may be at risk	11.13.2	27-28	The company respects and promotes freedom of association and collective bargaining. Based on the assessment tools available, YPF did not identify significant risks to freedom of association in operations and suppliers with current contracts for the period covered by this report.	No. 3	8	
11.14 Economic impacts [Material Topic YPF: Economic Impact and Local Development]							
3-3	Management of material topics	11.14.1	19			8	
201-1	Direct economic value generated and distributed	11.14.2	19			8, 9	
202-2	Proportion of senior management hired from the local community	11.14.3	-	In 2022, 97% of the total senior executives (Directors) of Grupo YPF were hired from the local community, defined as Argentina (naturalized citizens or permanent visa holders).	No. 6	8	
203-1	Infrastructure investments and services supported	11.14.4	72, 76-79	Through its social investment activities (page 72), YPF makes investments in infrastructure which has a public benefit, as well as Fundación YPF activities (pages 73-76), particularly the Sustainable Cities program (page 76).		9, 11	
203-2	Significant indirect economic impacts	11.14.5	16-17, 17-18, 69-71, 76-79	The main indirect economic impacts of YPF activities include: contributions to the innovation and development of new technologies and knowledge (see information on Y-TEC on pages 16-17); services and energy products availability to Argentina's industries, providing productive activities (see information on YPF Agro and our clients on pages 17-18), investment, purchase and employment in Argentina's regions, supporting local economies (see information on our local purchases and programs to enhance the national supply chain such as Ympulso on pages 69-72); and the training and education of professionals and teachers in Argentina (see information on Fundación YPF's educational activities on pages 76-79).		8	

GRI STANDARD	CONTENTS	GRI 11 CODE	PAGE NUMBER OR URL	RESPONSE, EXPLANATION OR OMISSION	GLOBAL COMPACT	SDGS	EXTERNAL VERIFICATION
204-1	Proportion of spending on local suppliers	11.14.6	69, 118			8	
308-1	New suppliers that have been screened using environmental criteria	Other	69, 119		No. 8	12	
308-2	Negative environmental impacts on the supply chain and actions taken.	Other	69, 119		No. 8	12	
11.15 Local communities [Material Topic YPF: Impact and relationship with the communities]							
3-3	Management of material topics	11.15.1	72				

GRI STANDARD	CONTENTS	GRI 11 CODE	PAGE NUMBER OR URL	RESPONSE, EXPLANATION OR OMISSION	GLOBAL COMPACT	SDGS	EXTERNAL VERIFICATION
413-1	Operations with local community engagement, impact assessments, and development programs	11.15.2	23-24, 27-28, 52, 72, 73-74, 75-79	<p>All YPF operative blocks (41) have community consulting processes. This represents 100% of the assets in activity or 41% of the total concession areas (a total of 99). Of the assets in development, 8 have consulting processes, which represent 47% of the exploratory blocks (a total of 17).</p> <p>(i, ii, iii) All YPF operations have environmental and social impact evaluations (100%). The results of these are made available to the public by the state agency that oversees this process. Additionally, YPF publishes information on its own website regarding its main projects, as well as evaluation and management processes, including in Vaca Muerta (https://desafiovacamuerta.ypf.com/), YPF Luz renewable energies projects (https://www.ypfluz.com/OurAssets/Home), and the offshore exploration projects (https://offshore.ypf.com/). (iv) All YPF's significant operations have local community development programs that consider local needs, including Fundación YPF activities (see pages 75-79). (v, vi, vii, viii) We also have participation and consulting process plans for local communities, including consideration of vulnerable communities. The information on our process to identify local interested parties and to evaluate the material topics is found on pages 23-24. The information on our process of due diligence is on pages 27-28. The information on our activities with community relations, including the claim mechanisms, is found on page 72. There is a ground team dedicated to the native communities, with specific consulting processes (see pages 73-74). We provide a work relations area, which includes an employees' network regarding concerns and a process for people's participation in the development, implementation and evaluation of the safety and health system (page 52).</p>	No. 1		
413-2	Operations with significant actual and potential negative impacts on local communities	11.15.3	27-28	We implemented a process of due diligence and a mapping of human rights risks with the object of identifying real and potential negative impacts on local communities.	No. 1		
	Number and type of grievances from local communities identified	11.15.4	72		No. 1		
11.16 Land and resource rights							
3-3	Management of material topics	11.16.1	72-73				
	Involuntary relocation	11.16.2	73	In 2022, we did not require or encourage the relocation of any community, nor did we receive any information from the communities where we operate regarding third parties seeking resettlement.	No. 1		
11.17 Rights of indigenous peoples [Material Topic YPF: Impact and relationship with the communities]							
	Management of material topics	11.17.1	73				

GRI STANDARD	CONTENTS	GRI 11 CODE	PAGE NUMBER OR URL	RESPONSE, EXPLANATION OR OMISSION	GLOBAL COMPACT	SDGS	EXTERNAL VERIFICATION
411-1	Incidents of violations involving rights of indigenous peoples	11.17.2	73		No. 2		
	Operations where indigenous peoples are present or are affected by the organization's activities	11.17.3	74		No. 2		
	Free, previous and informed consent	11.17.4	73		No. 2		
11.18 Conflict and security							
3-3	Management of material topics	11.18.1	28				
410-1	Security personnel trained in human rights policies or procedures	11.18.2	28		No. 2		
11.19 Anti-competitive behavior [Material Topic YPF: Ethics and integrity]							
3-3	Management of material topics	11.19.1	84				
206-1	Legal actions for anti-competitive behavior, antitrust, and monopoly practices	11.19.2	84	There was no significant non-compliance with laws and regulations detected in 2022, including claims related to anti-competitive conduct.	No. 10	16	
11.20 Anti-corruption [Material Topic YPF: Ethics and integrity]							
3-3	Management of material topics	11.20.1	84				
205-1	Operations assessed for risks related to corruption	11.20.2	84	The Compliance area periodically updates the corruption risks map linked to our own staff and to third parties, this covers all business and operations (100%) and is integrated to the corporate risks map with its respective mitigation actions.	No. 10	16	
205-2	Communication and training about anti-corruption policies and procedures	11.20.3	82		No. 10	16	
205-3	Confirmed incidents of corruption and actions taken	11.20.4	84	There were no confirmed cases of corruption or significant non-compliance of laws and regulations in 2022.	No. 10	16	
	Approach to contract transparency	11.20.5	-	We are part of the EITI Argentina Multi-Stakeholder Group. For further information, click here. Argentina EITI and Grupo Multipartícipe Argentina.gob.ar	No. 10	16	
	Beneficial owners / actual beneficiaries	11.20.6	-	We are part of the EITI Argentina Multi-Stakeholder Group. For further information, click here. Argentina EITI and Grupo Multipartícipe Argentina.gob.ar	No. 10	16	
11.21 Payments to governments [Material Topic YPF: Financial and fiscal transparency]							
3-3	Management of material topics	11.21.1	87				
201-1	Direct economic value generated and distributed	11.21.2	19				

GRI STANDARD	CONTENTS	GRI 11 CODE	PAGE NUMBER OR URL	RESPONSE, EXPLANATION OR OMISSION	GLOBAL COMPACT	SDGS	EXTERNAL VERIFICATION
201-4	Financial assistance received from government	11.21.3	-	Considering we are the main energy group in Argentina, the YPF clients and suppliers portfolio includes both the public and private sectors entities. According to the NIC 24 demands regarding "Disclosure on related parties", our main transactions with government entities are disclosed on pages 238-239 of our Form 20-F 2022. Available at: https://www.ypf.com/english/investors/Lists/InformeAnualForm20/YPF%20Form%2020F%202022.pdf		16	
207-1	Approach to tax	11.21.4	87			16	
207-2	Tax governance, control and risk management	11.21.5	87			16	
207-3	Stakeholder engagement and management of concerns related to tax	11.21.6	87			16	
207-4	Country-by-country reporting	11.21.7	87			16	
	Oil and gas purchased from the State	11.21.8	-	N/A due to non-existence.		16	
11.22 Public policy							
3-3	Management of material topics	11.22.1	84, 86				
415-1	Political contributions	11.22.2	86	In 2022, YPF did not make any contributions to political parties or their representatives, in accordance with the policies and guidelines established by the company for these matters.	No. 10	16	
Other Material Topics							
Material Topic YPF: Corporate Governance							
3-3	Management of material topics		11				
Material Topic YPF: Cost Competitiveness							
3-3	Management of material topics		8-9				
Material Topic YPF: Innovation and Digital Transformation							
3-3	Management of material topics		16, 17				

GRI STANDARD	CONTENTS	GRI 11 CODE	PAGE NUMBER OR URL	RESPONSE, EXPLANATION OR OMISSION	GLOBAL COMPACT	SDGS	EXTERNAL VERIFICATION
Material Topic YPF: Customer Experience							
3-3	Management of material topics		18				
417-1	Requirements for product and service information and labeling	GRI 417-1	18				
417-2	Incidents of non-compliance concerning product and service information and labeling	GRI 417-2	18				
417-3	Incidents of non-compliance concerning marketing communications	GRI 417-3	18				
418-1	Substantiated complaints concerning breaches of customer privacy and losses of customer data	GRI 418-1	18		No. 1		

OIL AND GAS: EXPLORATION & PRODUCTION (EM-EP), MIDSTREAM (EM-MD), REFINING AND MARKETING (EM-RM)

TOPIC	EXPLORATION AND PRODUCTION	MIDSTREAM	REFINING AND MARKETING	METRICS	PAGE NUMBER OR URL	RESPONSE, EXPLANATION OR OMISSION
GHG Emissions	EM-EP-110a.1	EM-MD-110a.1	EM-RM-110a.1	Gross global Scope 1 emissions, percentage methane, percentage covered under emissions-limiting regulations	36, 92	All GHG emissions associated with our operations are covered by the Argentine Government regulations.
	EM-EP-110a.2			Amount of gross global Scope 1 emissions from: (1) flared hydrocarbons, (2) other combustion, (3) process emissions (4) other vented emissions and (5) fugitive emissions	92	
	EM-EP-110a.3	EM-MD-110a.2	EM-RM-110a.2	Discussion of long-term and short-term strategy or plan to manage Scope 1 emissions, emissions reduction targets, and an analysis of performance against those targets	33, 36-38	
Air quality	EM-EP-120a.1	EM-MD-120a.1	EM-RM-120a.1	Air emissions of the following pollutants: (1) NO _x (excluding N ₂ O), (2) SO _x , (3) Volatile organic compounds (VOC), (4) Particulate matter (PM ₁₀) and (5) H ₂ S	50	
			EM-RM-120a.1	Number of refineries in or near areas of dense population	9	YPF has 3 industrial complexes located in or near densely populated areas (>50.000 people): La Plata, Lujan de Cuyo, and Plaza Huincul.
Water management	EM-EP-140a.1		EM-RM-140a.1	(1) Total fresh water withdrawn, (2) total fresh water consumed, (3) recycled percentage, (4) percentage of each in regions with High or Extremely High Baseline Water Stress	46, 95-96	
	EM-EP-140a.2			Volume of produced water and flowback generated; percentage (1) discharged, (2) injected, (3) recycled; hydrocarbon content in discharged water	97, 109	
	EM-EP-140a.3			Percentage of hydraulically fractured wells for which there is public disclosure of all fracturing fluid chemicals used	97	Information on the hydraulic fracturing activities, including the chemicals used in the process, is reported to the corresponding entity (RENPRE), who make it available to the public.
	EM-EP-140a.4			Percentage of hydraulic fracturing sites where ground or surface water quality deteriorated compared to a baseline / Policies and practices related to the quality of ground and surface water management	97	
			EM-RM-140a.2	Number of incidents of non-compliance associated with water quality permits, standards, and regulations	N/A	In process of registry

- SUSTAINABILITY REPORT 2022
- MESSAGE FROM THE PRESIDENT
- MESSAGE FROM THE CEO
- YPF IN FIGURES - 2022
- COMPANY PROFILE
- 01. ENERGY COMPANY
- 02. COMMITMENT TO SUSTAINABILITY
- 03. CLIMATE ACTION
- 04. SUSTAINABLE PRODUCTION
- 05. HEALTH AND SAFETY
- 06. PEOPLE
- 07. SHARED SOCIAL VALUE
- 08. ETHICS AND COMPLIANCE
- LEGAL NOTICE
- ABOUT THIS REPORT
- APPENDICES
 - APPENDIX B
 - GRI Standards
 - SASB Standards
 - TCFD Index
- EXTERNAL REVIEW REPORT

TOPIC	EXPLORATION AND PRODUCTION	MIDSTREAM	REFINING AND MARKETING	METRICS	PAGE NUMBER OR URL	RESPONSE, EXPLANATION OR OMISSION
Hazardous Materials Management			EM-RM-150a.1	Amount of hazardous waste generated, percentage recycled	99-101	
			EM-RM-150a.2	(1) Number of underground storage tanks (USTs), (2) Number of UST releases requiring cleanup, and (3) Percentage in states with UST financial assurance funds.	-	They are declared to the Energy Secretariat that supervises the installation, operation and closure of underground tanks. This information is made available to the public who can request it. All the YPF network of gasoline stations facilities comply with the legal requirements that authorize said facilities. These requirements are regulated and controlled by the National Energy Secretariat. These controls are carried out by enterprises authorized by said entity, and according to the facility's age the certificate's valid term is established. The valid current resolutions are: Res. 1102/04; Res. 404/94 and modifiers.
Biodiversity and Ecological Impacts	EM-EP-160a.1	EM-MD-160a.1		Description of environmental management policies and practices for active operations	43-44	
	EM-EP-160a.2	EM-MD-160a.4		Number and aggregate volume of hydrocarbon spills, volume in Arctic, volume impacting shorelines with ESI rankings 8-10, and volume recovered	-	YPF does not operate in the Arctic.
	EM-EP-160a.3			Percentage of (1) proved and (2) probable reserves in or near sites with protected conservation status or endangered species habitat.	103	
		EM-MD-160a.2		Percentage of land owned, leased or managed within protected conservation status areas or endangered species habitats.	102	
		EM-MD-160a.3		Surface area of altered land, percentage of affected area recovered	N/A	In process of registry
Safety, Human Rights and Native Communities Rights	EM-EP-210a.1			Percentage of (1) proved and (2) probable reserves in or near areas of conflict	-	YPF does not operate in areas of conflict.
	EM-EP-210a.2			Percentage of (1) proved and (2) probable reserves in or near indigenous lands	-	13% of YPF's proven net reserves and 9% of probable reserves are located in areas where native communities live or are close to them.
	EM-EP-210a.3			Discussion of engagement processes and due diligence practices with respect to human rights, indigenous rights, and operation in areas of conflict	27-28	
Community Relations	EM-EP-210b.1			Discussion of process to manage risks and opportunities associated with community rights and interests	72-74	
	EM-EP-210b.2			Number and duration of non-technical delays	N/A	In process of registry

TOPIC	EXPLORATION AND PRODUCTION	MIDSTREAM	REFINING AND MARKETING	METRICS	PAGE NUMBER OR URL	RESPONSE, EXPLANATION OR OMISSION
Workforce health and safety	EM-EP-320a.1		EM-RM-320a.1	(1) Total recordable incident rate (TRIR), (2) fatality rate, (3) near miss frequency rate (NMFR), and (4) average hours of health, safety, and emergency response training for (a) full-time employees, (b) contract employees, and (c) short-service employees	104-106	The near miss frequency rate is not reported.
	EM-EP-320a.2	EM-MD-540a.4	EM-RM-320a.2	Discussion of management systems used to integrate a culture of safety throughout the exploration and production lifecycle	52-54	
Reserves and capital expenditure	EM-EP-420a.1			Sensitivity of hydrocarbon reserve levels to future price projection scenarios that account for a price on carbon emissions	-	For now this type of assessment is not carried out.
	EM-EP-420a.2			Estimated carbon dioxide emissions embedded in proved hydrocarbon reserves	94	
	EM-EP-420a.3			Amount invested in renewable energy, revenue generated by renewable energy sales	94	YPF Luz investments are reported.
	EM-EP-420a.4			Discussion on how price and demand for hydrocarbons and/or climate regulation influence the capital expenditure strategy for exploration, acquisition, and development of assets	30-35	
Business Ethics and Transparency	EM-EP-510a.1			Percentage of (1) proved and (2) probable reserves in Countries that have the 20 lowest rankings in Transparency International's Corruption Perception Index	-	We do not operate nor have reserves in countries that are in the lowest positions of Transparency International Corruption Perception Index.
	EM-EP-510a.2			Description of the management system for the prevention of corruption and bribery throughout the value chain	81-84	
Competitive behavior		EM-MD-520a.1		Total amount of monetary losses as a result of legal proceedings associated with federal pipeline and storage regulations	N/A	In process of registry
Price transparency and integrity			EM-RM-520a.1	Total amount of monetary losses as a result of legal proceedings associated with price fixing or price manipulation	84	
Product specifications and clean fuel blends			EM-RM-410a.1	Percentage of Renewable Volume Obligation (RVO) met through: (1) production of renewable fuels, (2) purchase of "separated" renewable identification numbers (RIN)	-	YPF is not subject to this or an equivalent regulation. YPF is not subject to this or an equivalent regulation. The information on our renewable energy production is on pages 38.
			EM-RM-410a.2	Total addressable market and share of market for advanced biofuels and associated infrastructure	-	YPF establishes goals for the cut-off of its biofuels in its products in line with Argentina's national regulation. In 2022, this was 4.8% in diesel fuel and of 11.8% in gasolines.
Management of the Legal and Regulatory Environment	EM-EP-530a.1		EM-RM-530a.1	Discussion of corporate positions related to government regulations and/or policy proposals that address environmental and social factors affecting the industry	84-86	

TOPIC	EXPLORATION AND PRODUCTION	MIDSTREAM	REFINING AND MARKETING	METRICS	PAGE NUMBER OR URL	RESPONSE, EXPLANATION OR OMISSION
Critical Incident Risk Management	EM-EP-540a.1		EM-RM-540a.1	Process Safety Event (PSE) Rates for Loss of Primary Containment (LOPC) of greater consequence (Tier 1) and lesser consequence (Tier 2)	108	
	EM-EP-540a.2			Description of management systems used to identify and mitigate catastrophic and tail-end risks	57-58	
			EM-RM-540a.2	Challenges to Safety Systems indicator rate (Tier 3)	-	Tier 3 process safety events are not reported.
			EM-RM-540a.3	Discussion of measurement of Operating Discipline and Management System Performance through Tier 4 Indicators	-	Tier 4 process safety events are not reported.
Operational Safety, Emergency Preparedness and Response		EM-MD-540a.1		Percentage of significant reportable pipeline incidents	58	All the incidents in our own oil pipelines are registered and reported.
		EM-MD-540a.2		Percentage of (1) natural gas and (2) hazardous liquid pipelines inspected	58	All gas facilities have an integrity model and go through programed inspections with different technologies.
		EM-MD-540a.3		Number of (1) accident releases and (2) non-accident releases (NAR) from rail transportation	-	Only coke is transported by rail. Therefore this indicator is not considered relevant.
Activity metrics	EM-EP-000.A			Production of: (1) oil, (2) natural gas, (3) synthetic oil, (4) synthetic gas	9, 89	
	EM-EP-000.B			Number of offshore sites	9, 89	
	EM-EP-000.C			Number of terrestrial sites	9, 89	
		EM-MD-000.A		Total metric ton kilometers of: 1) natural gas, 2) crude oil, and 3) refined petroleum products transported, by mode of transport	-	The length and capacity of our main pipelines is reported on the Energy Secretariat's website. LINK
			EM-RM-000.A	Refining throughput of crude oil and other feedstocks.	9, 89	
			EM-RM-000.B	Refining operating capacity	9, 89	

TCFD INDEX

TCFD PILLAR	RECOMMENDED REPORTS	WHERE TO FIND RELEVANT YPF INFORMATION
Governance	a) Describing the board of directors' control over climate-related risks and opportunities.	<ul style="list-style-type: none"> Resilience to climate change, focus and governance, p. 34. Sustainability Governance, p. 21 CDP Response to Climate Change – C1.1
	b) Describing the role of management in evaluating and managing climate-related risks and opportunities.	<ul style="list-style-type: none"> Resilience to climate change, focus and governance, p. 34. Sustainability Governance, p. 21 CDP Response to Climate Change – C1.2, 1.3
Strategy	a) Describing climate-related risks and opportunities identified by the organization in the short, medium and long term.	<ul style="list-style-type: none"> Resilience to climate change, identification, evaluation and risk management, p. 35 Main emerging risks, pp. 14-16 CDP Response to Climate Change – C2.1, 2.3, 2.4
	b) Describing the impact of climate-related risks and opportunities on the organization's businesses, strategy and financial planning.	<ul style="list-style-type: none"> Climate Challenge and Energy Outlook, pp. 30-32 Resilience to climate change, identification, evaluation and risk management, p. 35 CDP Response to Climate Change – C2.3, 2.4, 3.1, 3.3, 3.4
	c) Describing the resilience of the organization's strategy, considering different climate-related scenarios, such as a scenario with 2°C or less.	<ul style="list-style-type: none"> Climate Challenge and Energy Outlook, pp. 30-32 Resilience to climate change, identification, evaluation and risk management, p. 35 CDP Response to Climate Change – C3.2, 3.3, 3.4
Risk Management	a) Describing the organization's processes to identify and evaluate climate-related risks.	<ul style="list-style-type: none"> Resilience to climate change, identification, evaluation and risk management, p. 35 CDP Response to Climate Change – C2.1, 2.2
	b) Describing the organization's processes to manage climate-related risks.	<ul style="list-style-type: none"> Resilience to climate change, identification, evaluation and risk management, p. 35 Risk Management, pp. 13-14 CDP Response to Climate Change – C2.1, 2.2
	c) Describing how processes to identify, evaluate and manage climate-related risks are integrated into the organization's overall risk management.	<ul style="list-style-type: none"> Risk Management, pp. 13-14 CDP Response to Climate Change – C2.1, 2.2

TCFD PILLAR

RECOMMENDED REPORTS

WHERE TO FIND RELEVANT YPF INFORMATION

Metrics and goals

a) Disclosing the metrics used by the organization to evaluate climate-related risks and opportunities in accordance with its strategy and risk management process.

b) Disclosing Scope 1, Scope 2 and, if applicable, Scope 3 greenhouse gas (GHG) emissions and related risks.

c) Describing the goals used by the organization to manage climate-related risks and opportunities and performance against goals.

- Sustainability priorities and contribution to ODS, p. 26
Metrics related to climate change risks and opportunities
- Energy efficiency (consumption, sources, intensity), pp. 38, 91
- Burned and vented hydrocarbon, p. 94
- Methane emissions, pp. 37, 89
- Emission reductions for CDM projects, p. 94
- Domestic Price of Carbon, p. 35
- Estimated CO₂ emissions from reserves incorporated in proven hydrocarbon reserves, p. 94
- Amount invested in renewable energy sources and sales generated, p. 94
- Capacity and generation of renewable energy, avoided emissions, and capacity factor, p. 38
- Water management, pp. 45-46, 95-97, including water extraction from areas under water stress.
- Waste Management, pp. 49-50, 99-101
- Low-carbon oil and gas operations - climate metrics and performance discussion:
- GHG emissions scope 1 (intensity, total, by business, by activity), pp. 36-37, 92
- GHG emissions scope 2, pp. 36-37, 93
- GHG emissions scope 3 (Goods and services purchased, Waste generated in operations, Use of products sold, Franchises), pp. 38, 93
- CDP Response to Climate Change - C6, C7
- Road Map to Climate Change, p. 33
- Sustainability Priorities and Contribution to SDGs, p. 26
- CDP Response to Climate Change - C4.1, 4.2



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INDEPENDENT LIMITED ASSURANCE REPORT OF INDEPENDENT PUBLIC ACCOUNTANTS

ON SELECTED INFORMATION INCLUDED IN THE 2022 ANNUAL SUSTAINABILITY REPORT

To the President and Directors of
YPF S.A.
CUIT N°: 30-54668997-9
Legal address: Macacha Güemes 515
Ciudad Autónoma de Buenos Aires

1. Identification of the information subject to assurance engagement

We have been engaged to perform a limited assurance engagement on selected information contained in the 2022 Annual Sustainability Report of YPF S.A. (the "Company"), for the period beginning on January 1, 2022 and ended December 31, 2022.

Our work was carried out by an independent and multidisciplinary team including professionals with experience in assurance engagement and sustainability specialists.

Our limited assurance engagement was made solely in respect to the selected sustainability information included in Appendix A. Our assurance report does not extend to prior period information or other information included in the 2022 Annual Sustainability Report, or other information related to such report that may contain images, audios, videos or references to other documents in the internet.

2. Criteria used for the preparation of the information subject to assurance ("Criteria")

The selected sustainability information, included in Appendix A, has been prepared and presented in accordance with the standards of the Global Reporting Initiative (2021) and the Oil & Gas Chapter ("GRI").

3. Responsibility of the Company's Board of Directors and Management for the selected information

The Board of Directors and Management of YPF S.A. is responsible for:

- a) the preparation and presentation of selected information in accordance with the standards of the Global Reporting Initiative (GRI);
- b) the design, implementation and maintenance of the processes for its preparation, and of the bases and criteria for its preparation;

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2.

c) the internal control that management deems necessary to enable the preparation of information free from material misstatements, whether due to fraud or error.

4. Responsibilities of the public accountant

Our responsibility is to express a limited assurance conclusion based on the work performed. We have carried out our work in accordance with the standards on Other Assurance Engagements established in the section V.F of Technical Resolution No. 37 (RT 37) of the Argentine Federation of Professional Councils of Economic Sciences (FACPCE, for its acronym in Spanish).

These standards require to comply with ethical requirements, as well as to plan and execute the engagement in order to obtain limited assurance about the selected information contained in the 2022 Annual Sustainability Report, has been prepared and presented according to the aforementioned criteria and is free of material misstatements.

However, the absence of a generally accepted methodology or practice for identifying, evaluating and measuring non-financial information may result in different assumptions and criteria and thus values not necessarily comparable with those of other entities, which represents an inherent limitation.

In a limited assurance engagement, accurate and sufficient evidence is obtained as part of a systematic process, including obtaining an understanding of the subject matter of the engagement and of other circumstances of the work, to make inquiries primarily to the persons responsible for the preparation of the selected information, and to apply other appropriate procedures, but in which the procedures are significantly less in scope than a reasonable assurance engagement and therefore does not provide assurance that we have become aware with all significant matters that might be identifiable, for that reason we do not issue a reasonable assurance opinion on whether the selected information has been prepared, in all material respects, in accordance with GRI.

5. Procedures performed

The procedures we have performed were based on our professional judgment and included inquiries, observation of the processes performed, inspection of documents, analytical procedures, evaluation of the adequacy of quantification methods and reporting policies, and verification of agreement or reconciliation with the underlying records.

Among the procedures performed are the following:

- a) Inquire to the Board of Directors, Management and entity's personnel responsible for the collection of the information and of the preparation of the selected information contained in the 2022 Annual Sustainability Report with the purpose of obtaining an understanding of the company's sustainability policies, actions implemented and those systems used for the compilation of the information; however, our procedures did not include carrying out procedures in order to assess the appropriateness of the process implemented by the Company for the identification of material reportable topics in accordance with the guidelines established by GRI;
- b) Selectively review, where appropriate and depending on the results of the inquiries made, the supporting documentation used to collect, calculate and compile the selected information;

3.

c) Analyze and understand the information systems and methodology used to compile the quantitative data corresponding to the selected information contained in the 2022 Annual Sustainability Report;

d) obtain an understanding of the entity's control environment and information systems relevant to the preparation of selected sustainability information; however, we did not evaluate the design of specific control activities or obtain elements of judgment about their implementation, nor did we test their operating effectiveness;

(e) assess whether the entity's methods for developing the estimates are adequate and have been consistently applied in the preparation of the selected information. However, our procedures did not include corroboration of data on which the estimates were based nor did we independently develop our own estimates to evaluate the entity's estimates through comparison;

(f) carry out analytical procedures and test of details, through representative samples, on the information that is the subject of this report and corroborate that the data have been measured, recorded, collected, and reported properly.

We are independent of YPF S.A. and have fulfilled the other ethics responsibilities in accordance with the requirements of the Code of Ethics of the Professional Council of Economic Sciences of Ciudad Autónoma de Buenos Aires and Technical Resolution No. 37 of the FACPCE.

We believe that the evidence obtained is sufficient and appropriate to provide a basis for our limited assurance conclusion, exclusively on the selected information corresponding to the year ended on December 31, 2022.

6. Emphasis of matter

Without modifying our limited assurance conclusion, we emphasize the information contained in the section "About this Report" included in 2022 Annual Sustainability Report of YPF S.A., which indicates that: "This year's news are related to the alignment process the Company is carrying out to align the Sustainability Report and the Annual Report published in the U.S. Securities and Exchange Commission under Form 20F, which led the Company to redefine its organizational boundaries in order to obtain a report that integrates financial results with the ESG performance criteria.

For this reason, the information reported for 2022 does not include information regarding YPF LUZ (in which the Company has joint control) and YPF GAS, which financial statements are not consolidated in the Company's financial statements. Additionally, the Company has reviewed certain power purchase agreements orchestrated through power plants' rental contracts over which the Company has no operational control, and whose operation is framed by power purchase agreements, the associated emissions having been classified within Scope 2 for 2022. The comparative information of previous periods has not been modified, and for this reason the latter may not be comparable with the year 2022 metrics. For this reason, the Company has included an estimated recalculation of certain relevant metrics for the previous periods in Appendix B, in order to allow users of this report to obtain additional information for their trends analysis."

4.

7. Conclusion

On the basis of the work described in the "Procedures Performed" Section 5 of this report, nothing has come to my attention that causes us to believe that the information identified in Section 1 of this report has not been prepared, in all material aspects, in accordance with the provisions of the Criteria section of this report.

City of Buenos Aires, August 31, 2023

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C.P.C.E.C.A.B.A. - T° 1 - F° 3



Sergio M. Vicari (Partner)
Certified Public Accountant (U.B.A.)
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MESSAGE FROM THE PRESIDENT

MESSAGE FROM THE CEO

YPF IN FIGURES - 2022

COMPANY PROFILE

01. ENERGY COMPANY

02. COMMITMENT TO SUSTAINABILITY

03. CLIMATE ACTION

04. SUSTAINABLE PRODUCTION

05. HEALTH AND SAFETY

06. PEOPLE

07. SHARED SOCIAL VALUE

08. ETHICS AND COMPLIANCE

LEGAL NOTICE

ABOUT THIS REPORT

APPENDICES

APPENDIX B

GRI Standards

SASB Standards

TCFD Index

EXTERNAL REVIEW REPORT

Appendix A
Page 1 of 3

Indicator	Metric	Unit	2022	
GRI 302-1 (2016): Energy Consumption Within the Organization	Total energy consumption (a + b)		GJ	139.919.349
	Non-renewable Sources	Energy consumption from non-renewable sources (a)	GJ	137.486.190
		Fuel consumption	10 ⁶ T	2,31
		Purchased electricity	10 ⁶ MWh	2,91
		Purchased steam	10 ⁶ GJ	9,6
	Renewable Sources	Energy consumption from renewable sources (b)	GJ	2.433.160
		Purchased	GJ	12.900.382
Electricity	VeSoldinda	GJ	1.166.784	

Indicator	Metric	Unit	2022	
GRI 305-1 (2016): Direct GHG emissions (Scope 1)	Total direct GHG emissions (Scope 1)		tCO2e	9.912.271
	Carbon dioxide emissions (CO2)		tCO2	8.111.811
	Methane emissions (CH4)		tCH4	70.359
	Methane emissions (CH4)		% of total scope 1	18%
	Nitrous oxide emissions (N2O)		tN2O	139
	Direct GHG emissions per business unit (Scope 1)	Upstream VP	tCO2e	5.679.817
		Conventional Upstream VP	tCO2e	4.295.405
		Non-conventional Upstream VP	tCO2e	1.384.413
		Downstream VP	tCO2e	4.060.596
		Gas and Energy VP	tCO2e	170.102
Services VP		tCO2e	1.756	

Indicator	Metric	Unit	2022	
GRI 305-2 (2016): Energy indirect GHG emissions (Scope 2)	Total indirect GHG emissions when generating energy (Scope 2)		tCO2e	1.928.071
	Upstream VP		tCO2e	1.106.126
	Downstream VP		tCO2e	820.251
	Gas and Electricity VP		tCO2e	106
	Services VP		tCO2e	1.587

Indicator	Metric	Unit	2022	
GRI 305-7 (2016): Nitrogen oxides (NOx), sulfur oxides (SOx), and other significant air emissions	Total atmospheric emissions		t	117.302
	SO2		t	5.475
	NOx		t	51.253
	COVM		t	36.776
	CO		t	20.026
	Particles		t	3.773

Indicator	Metric	Unit	2022	
GRI 303-3 (2018): Water withdrawal	Total water withdrawal		megalitres	193.915
	Total water produced		megalitres	137.486
	Total water collected		megalitres	56.429
	Total water collected	Surface water	megalitres	50.767
		Groundwater	megalitres	3.955
		Third-party water	megalitres	1.707
	Quality of water withdrawal	Freshwater (<=1,000 mg/L Total Dissolved Solids)	megalitres	56.429

Appendix A
Page 2 of 3

Indicator	Metric	Unit	2022	
GRI 303-3 (2018): Water withdrawal	Total water withdrawal by business	Other water (>1,000 mg/L Total Dissolved Solids)	megalitres	137.486
		Upstream VP	megalitres	18.674
		Conventional Upstream VP	megalitres	9.104
		Non-conventional Upstream VP	megalitres	9.570
		Downstream VP	megalitres	37.572
		Gas and Energy VP	megalitres	2
		Other businesses	megalitres	181
	Total water withdrawal from all areas with water stress	Total of areas with water stress	megalitres	24.537
		Total of areas with water stress	% of total withdrawal	43,5%
		Third-party water	megalitres	221
		Surface water	megalitres	21.105
	Quality of water withdrawal from all areas with water stress	Groundwater	megalitres	3.211
		Produced	megalitres	N/D***
Freshwater (<=1,000 mg/L Total Dissolved Solids)		megalitres	24.537	
Other water (>1,000 mg/L Total Dissolved Solids)		megalitres	0	

Indicator	Metric	Unit	2022	
GRI 306-3 (2020): Waste generated	Total generated waste		Kt	699,7
	Hazardous waste generated		Kt	534,7
	Non-Hazardous Waste Generated		Kt	165
	Total generated waste (hazardous and non-hazardous) by business	Upstream	Kt	644,7
		Refining	Kt	38,1
		Chemical	Kt	3,8
		Gas and Energy	Kt	0,5
		Commercial	Kt	6,2
		Logistics	Kt	5,4
		Others	Kt	1
		Drilling muds and cuttings	Kt	213,9
		Spill soil	Kt	199,6
		Tank bottoms	Kt	52,7
	Hazardous waste generated by type	Oil-bearing waters	Kt	23,3
		Pool sludge	Kt	23,2
		Oil-contaminated waste	Kt	11,7
		Biological effluent treatment sludge	Kt	4,3
		Out of stock sodas	Kt	3,5
		Other hazardous waste	Kt	2,5
		Water-based drilling muds and cuttings	Kt	144,5
		Scrap	Kt	11,3
		Urban assimilable waste	Kt	6,6
		Wood	Kt	0,9
	Non-Hazardous waste generated by type	Cardboard and paper	Kt	0,4
		Recoverable metals	Kt	0,4
		Plastics and bags	Kt	0,3
		Others non-hazardous waste	Kt	0,6

Indicator	Metric	Unit	2022	
GRI 403-9 (2018): Work-related injuries	Fatalities	Total	quantity	2
		Own personnel	quantity	0

Appendix A
Page 3 of 3

Indicator	Metric	Unit	2022	
GRI 403-9 (2018): Work-related injuries	Fatality Rate (FR)* [per 1,000,000 hours worked]	Contract Personnel	quantity	2
		Total	FR	0,0161
		Own personnel	FR	0
	High-consequence work-related injuries	Contract Personnel	FR	0,0259
		Total	quantity	5
		Own personnel	quantity	0
	High-consequence work-related injuries rate [per 1.000.000 hours worked]	Contract Personnel	quantity	5
		Total	rate	0,040
		Own personnel	rate	0,000
	Total accidents (fatalities, ACPD and ASPD)	Contract Personnel	rate	0,065
		Total	quantity	150
		Own personnel	quantity	31
	Total Recordable Injury Frequency Rate (TRIFR) [per 1,000,000 hours worked]	Contract Personnel	quantity	119
		Total	TRIFR	1,21
Own personnel		TRIFR	0,66	
Hours worked - millions	Contract Personnel	TRIFR	1,54	
	Total	MM hours	124,0	
	Own personnel	MM hours	46,7	
		Contract Personnel	MM hours	77,3

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MORE INFORMATION ON YPF S.A.

The Company

[ypf.com](https://www.ypf.com)

Our reports

Investors Center:

<https://www.ypf.com/inversoresaccionistas/Paginas/home.aspx>

Sustainability:

[YPF Sustainability - Executive Summary](#)

Feedback

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to communicate use the detailed channels

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YPF #En Red

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Márquez Diseño

External Revision

Deloitte & CO S.A.

Acknowledgments

Members of YPF S.A. Sustainability Committee and all the
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VP of Sustainability and Operational Excellence

and YPF S.A. Communication Fundación YPF

YPF