



ASSOCIATION OF OIL, GAS AND RENEWABLE ENERGY
COMPANIES OF LATIN AMERICA AND THE CARIBBEAN



2024



ASSOCIATION OF OIL, GAS AND
RENEWABLE ENERGY COMPANIES
OF LATIN AMERICA AND THE CARIBBEAN

**We are driving the
transformation of the O&G
sector, to enable energy
transitions in our region**



VISION

To be a regional reference in strengthening the industry as a provider of sustainable energy that contributes to the energy transition.

MISSION

To promote the integration, operational excellence and sustainable development of the oil, gas and renewable energy industry in the region, through cooperation among members and collaboration with its main stakeholders.

1965

State-owned oil and gas companies

1998

Regional oil and gas operating companies

2010

Oil, gas and biofuels sector companies

2022

Oil, gas and renewable energy

STRATEGIC VECTORS



30

Operating and Service provider member companies - Public and Private

Operating in more than

30

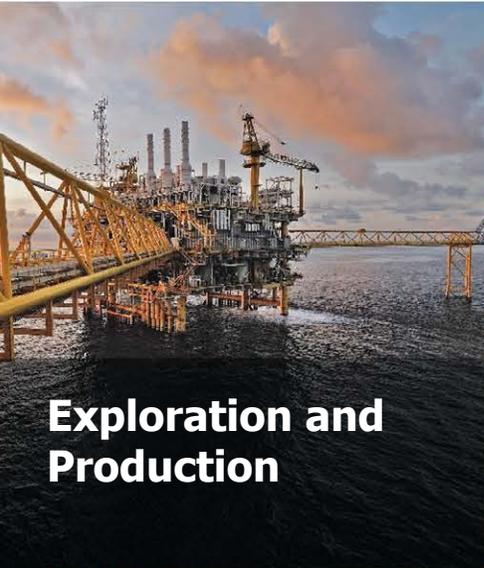
Countries in Latin America and the Caribbean

How we work

10 Technical Committees



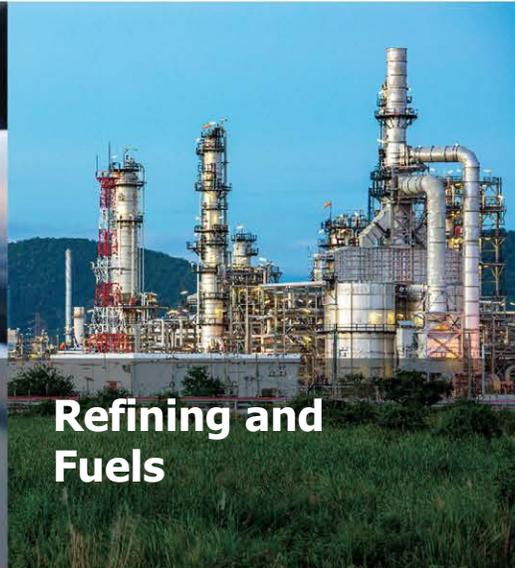
Official languages



Exploration and Production



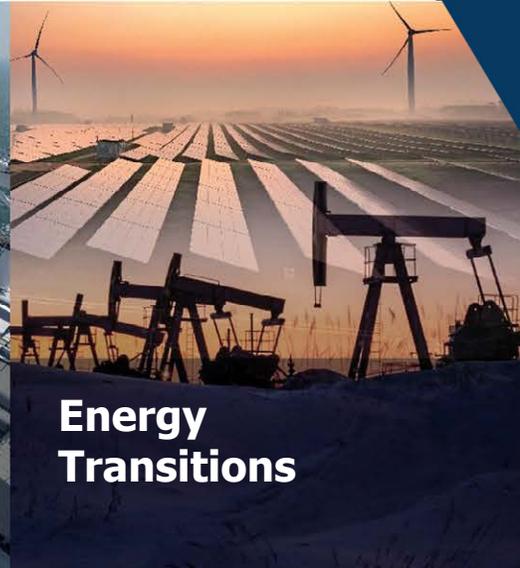
Pipelines and Terminals



Refining and Fuels



Gas and Energy



Energy Transitions



Environment, Health and Safety



Sustainable Management



Industrial Cybersecurity



Human Talent and Knowledge Management



Communications

Value Proposition

1. We provide a forum for the exchange of knowledge and experiences

on operational and management issues among our member companies. We offer assistance to our partners to solve specific problems through various means, in addition to developing a comprehensive training program tailored to their needs.



2. We have direct relationships with governments

in the Region and are recognized as the only organization for the development of the oil and gas industry in Latin America and the Caribbean. Over the years, we have established a solid collaboration scheme with Hydrocarbon Agencies and with OLADE.

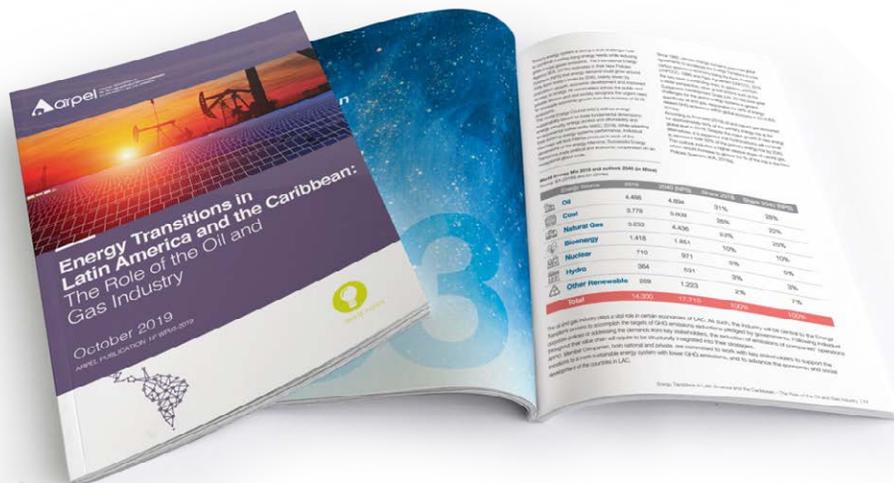
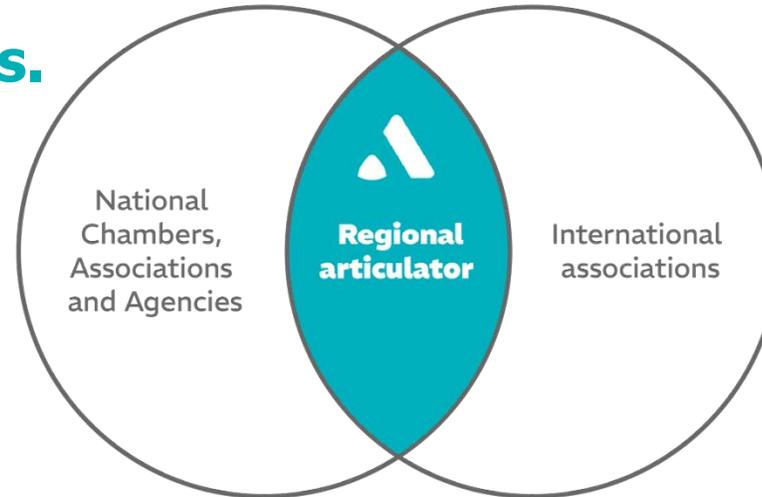


Value Proposition



3. We are the only regional link between international and national business associations.

Furthermore, we coordinate a collaborative international network of specialized professional and industry associations.



4. We drive and support our partners' initiatives in adapting to the new business scenario related to energy transitions.

1. Forum for the exchange of knowledge



Web library Free-access for our members

More than 300 documents.

Guidelines and manuals on best practices, studies and white papers.



Tool to evaluate oil spills response programs (RETOS™)

Training courses and implementation

Implementation of best practices in member companies.

Mutual Technical Assistance;
Training courses; Benchmarking;
Virtual and in-person workshops.



2. Direct relationship with governments in the Region



Forums and collaborative activities between Hydrocarbon Agencies and regional industry



Support for the optimization of environmental licensing processes

3. Only regional articulator

Collaborative international network.



Arpel is the only association called to forums of intergovernmental organizations to represent the interests of the regional industry



arpel CONFERENCE 2024
7TH EDITION

April 8 to 12, 2024
Cartagena de Indias, Colombia
Forum for the convergence
of governments, industry and other
stakeholders

4. Energy transitions Adaptation and Evolution to the new



04 Opportunities in renewable energy

The energy transition process can be framed by effective participation of society to reduce its negative impacts, especially on vulnerable groups, and provide adequate technological growth accompanied by the corresponding training, as well as participation in the benefits of this transition, reflected in an improvement in their quality of life, their access to energy, and the coverage of their basic life needs. The development of new technologies, particularly those with low emissions, opens business opportunities for the industry. The energy transition process and the involvement of renewable energies on a larger scale will bring benefits to the industry, which must be shared with society, especially with the most vulnerable groups in the region where it operates.

The gas and oil sector in the region has extensive technical experience and the infrastructure that can be shared to contribute to the development of renewable energies, considering in its energy supply plan the participation of geothermal, wind, hydro, and biomass energy sources, among others, always considering the potential of each region.

In summary, the oil and gas industry has extensive management capacity in the transition to renewable energies, being also just, with several approaches depending on the activity that predominates its process and its degree of influence on the energy production, so some specific opportunities are presented below:

Hydroelectric energy and biomass are present throughout the region. Likewise, there are other specific renewable energy sources for which there is great investment potential in technological development and infrastructure, or in the development of new businesses, as they would allow generating energy at a lower cost, with fewer emissions and diversifying the energy matrix in the countries that are currently dependent on imported fossil fuels, as is the case of Central America and its geothermal potential.

Latin America has the potential to increase its commercial-scale solar and wind energy capacity by more than 450% by 2030 if all 379 projects (GW) of potential new projects in the region come online, according to a report by Global Energy Monitor - GEM 2023. Together with existing distributed and smaller-scale solar capacity, Latin America will be on track to meet, and justifiably exceed, the International Energy Agency's (IEA) 2020 regional net-zero-renewable energy targets if it implements all your possible large scale projects. Competitive renewable resources can also boost low-cost, low-emission hydrogen production, which can help decarbonize heavy industry and freight transportation domestically and internationally.

In its recently published report, the IFA outlines the region's detailed potential for various renewable energy sources. It indicates that bioenergy, particularly biofuels, can help countries in the region meet both energy security and emissions objectives. Brazil, for example, is a leading producer and consumer of biofuels, with bioethanol being a significant portion of the energy used in rural transportation. Advanced bioethanol has considerable potential in LAC, which could become a major global exporter of bioenergy for bioethanol, leveraging its current production capacity. Biogas and biomethane have untapped potential, but supportive policies are needed to stimulate their deployment in power generation and transportation.

Total energy offer in LAC, % of renewables

Country	Coal	Natural Gas	Nuclear	Hydro	Wind, solar, etc.	Biofuels and waste	Oil	Total energy offer in LAC
Ecuador								
Tobago and Tobago								
Peru								
Republic of Venezuela								
Chile								
Colombia								
Argentina								
Brazil								
Total Central & South America	1,372,884	5,762,361	268,439	2,496,266	546,446	5,950,139	10,816,765	27,215,173

Key Drivers for Natural Gas Development and Decarbonization

Gas Resources for Economic Prosperity

LAC-proven natural gas: 285 Tcf
Energy proven reserves: 51 Tcf
LAC production: 11 bcf
Energy production: 18 bcf

Natural Gas Prospective in Latin America and the Caribbean

Introduction

Latin America and the Caribbean (LAC) is a region with significant natural gas resources and production. The region's natural gas resources are estimated to be 285 Tcf, with 51 Tcf of energy proven reserves. The region's natural gas production is 11 bcf, with 18 bcf of energy production.

The region's natural gas resources are primarily concentrated in Colombia, Venezuela, and Brazil. Colombia has the largest natural gas reserves in the region, followed by Venezuela and Brazil. The region's natural gas production is primarily concentrated in Colombia, Venezuela, and Brazil.

The region's natural gas resources and production are expected to grow significantly in the coming years. This is due to a number of factors, including the region's large natural gas reserves, the region's growing economy, and the region's increasing demand for natural gas.

The region's natural gas resources and production are expected to play a key role in the region's economic development and decarbonization. Natural gas is a clean-burning fuel that can help reduce the region's greenhouse gas emissions. Additionally, natural gas is a versatile fuel that can be used in a wide range of applications, from power generation to industrial processes.

Natural Gas in the Transition to Low-Carbon Economies

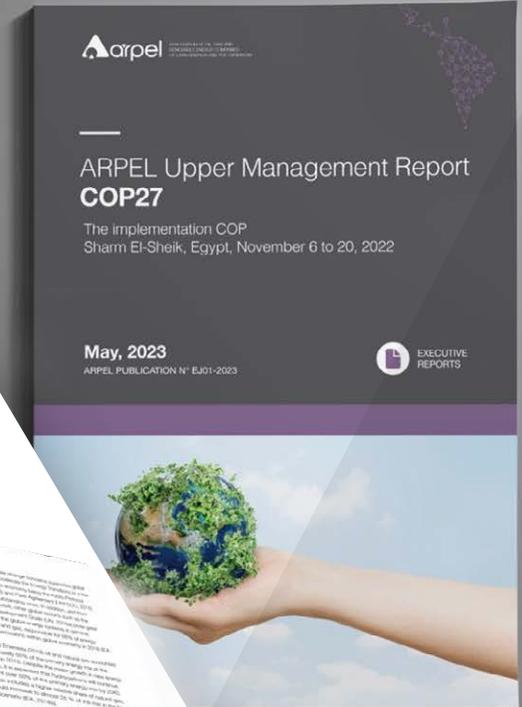
The Case for Latin America and the Caribbean

APRIL 2023

Arpel, YGU, olade

4. Energy transitions

Adaptation to the new business scenario



arpel ASOCIACIÓN DE LÍDERES REGIONALES DE GAS Y PETRÓLEO DE LATINOAMÉRICA Y EL CARIBE

Honeywell

VIRTUAL WORKSHOP

H2 as an ally on the road to net-zero: Technology, regulation and sector strategy

November 15 and 16, 2023

Simultaneous translation (Spanish - English)

Time for November 15
4:00 to 6:00 p.m.
(Mexico Time GMT-6)

Time for November 16
09:00 a.m. to 3:45 p.m.
(Mexico Time GMT-6)

arpel ASOCIACIÓN DE LÍDERES REGIONALES DE GAS Y PETRÓLEO DE LATINOAMÉRICA Y EL CARIBE

Programa ARPEL de Alta Gerencia

3era. edición
Potenciando la visión de los Líderes regionales del sector Gas y Petróleo

ARPEL Leadership Program

3rd. edition
Empowering the vision of the Regional Leaders from the Gas & Oil Industry

arpel ASOCIACIÓN DE LÍDERES REGIONALES DE GAS Y PETRÓLEO DE LATINOAMÉRICA Y EL CARIBE

S&P Global
Commodity Insights

Energy Transitions in Latin America and the Caribbean: The Role of the Oil and Gas Industry

October 2019
ARPEL PUBLICATION N° 14-10003-2019

Energy Source	2018	2024 (Est.)	Share 2018	Share 2024 (Est.)
Oil	4,498	4,884	31%	30%
Coal	3,776	3,809	26%	22%
Natural Gas	3,253	4,438	23%	29%
Bioenergy	1,418	1,801	10%	10%
Nuclear	710	971	5%	6%
Hydro	364	501	3%	3%
Other Renewable	289	1,253	2%	7%
Total	14,300	17,716	100%	100%

Energy Transitions in Latin America and the Caribbean: The Role of the Oil and Gas Industry

Members



ACTIVE MEMBERS



Members



PARTNERSHIPS





Thank you



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