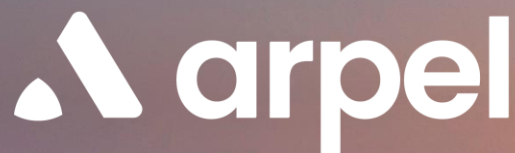




ASSOCIATION OF OIL, GAS AND RENEWABLE ENERGY  
COMPANIES OF LATIN AMERICA AND THE CARIBBEAN





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



**32**

Operating and Service  
provider member  
companies - Public and  
Private

Operating in more than

**30**

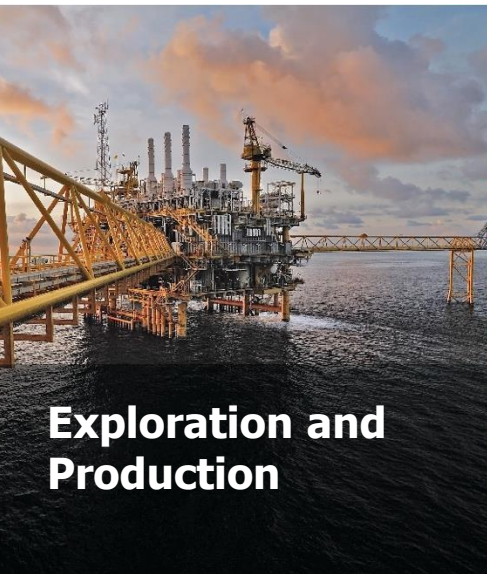
Countries in Latin  
America and the  
Caribbean

# 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.

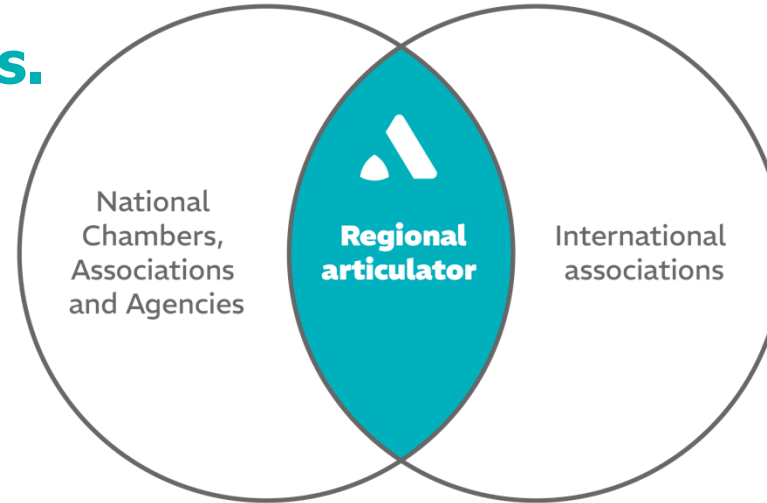


# Value Proposition



## 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

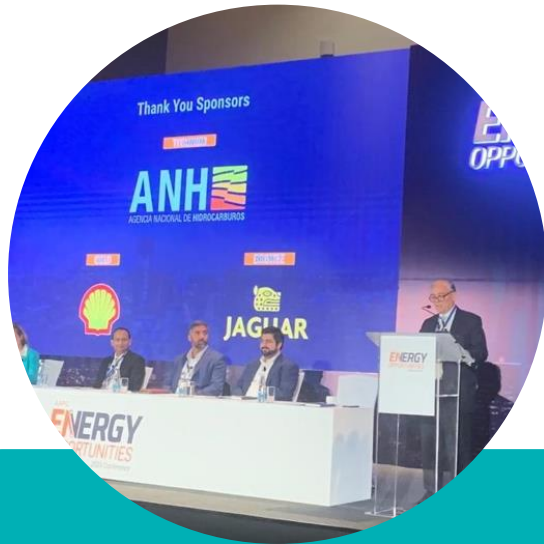
## Implementation of best practices in member companies.

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  
7<sup>TH</sup> 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 business scenario



**Arpel** ASSOCIATION OF GAS PRODUCERS, OPERATORS, REGULATORS AND TRADING COMPANIES OF LATIN AMERICA AND THE CARIBBEAN

December 2023  
Arpel Publication  
# WPO2-2023

**Just Energy Transitions**  
in Latin America and the Caribbean

## 04 Opportunities in renewable energies

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 transitions to renewable energies, being also not, with several approaches depending on the activity that predominates in 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 460% by 2030 if all 319 gigawatts (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 potentially exceed, the International Energy Agency's (IEA) 2030 regional net zero renewable energy targets if it implements all your possible larger 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 IEA 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 fueling a significant portion of the energy used in road transportation. Advanced biofuels have considerable potential in LAC, which could become a major global exporter of kerosene for biojets, 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
Enxader								
Trinidad and Tobago								
Peru								
Bolivia								
Chile								
Colombia								
Argentina								
Brazil								
<b>Total Central &amp; South America</b>	<b>1,372,884</b>	<b>5,762,361</b>	<b>268,439</b>	<b>2,496,266</b>	<b>546,446</b>	<b>5,950,139</b>	<b>10,816,765</b>	<b>27,215,173</b>

Source: <https://www.iea.org/reports/central-america-and-the-caribbean>

## SECTION A Key Drivers for Natural Gas Development and Decarbonization Gas Resources for Economic Prosperity

**LAC-proven reserves: 285 Tcf**  
**Newly proven reserves: 51 Tcf**  
**LAC production: 11 bcf**  
**Newly 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 primarily concentrated in Colombia, Venezuela, and Peru. Colombia is a major natural gas producer and exporter, while Venezuela and Peru are also significant producers. The region's natural gas production is primarily used for domestic consumption, but there is growing interest in exporting natural gas to other regions, particularly in Asia and Europe.

Prospective consumption of natural gas

The prospective consumption of natural gas in LAC is expected to increase significantly over the next few decades. This is driven by a combination of factors, including population growth, industrialization, and the need for clean energy. Natural gas is seen as a key component of a diversified energy mix, particularly in the context of decarbonization. The region's natural gas resources are well-positioned to meet this growing demand, and there is significant potential for investment in natural gas infrastructure and production.

## WHITE PAPER Natural Gas in the Transition to Low-Carbon Economies

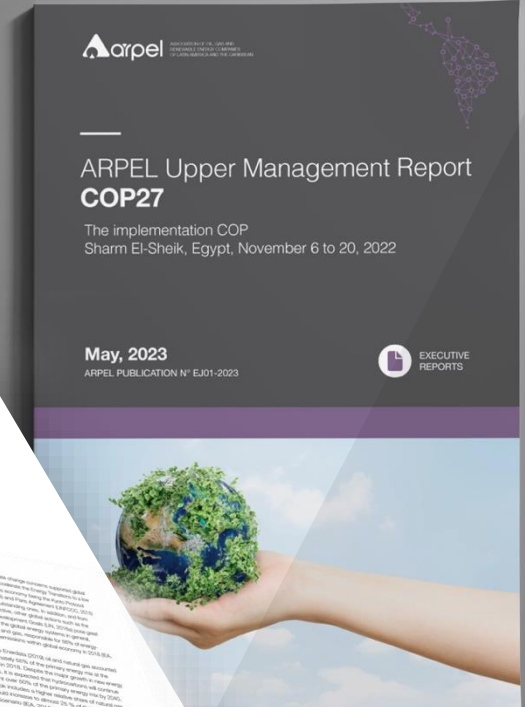
The Case for Latin America and the Caribbean

APRIL 2023

IGU olade Arpel

# 4. Energy transitions

## Adaptation and Evolution to the new business scenario



**arpel** 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)

**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** **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° WPOS-2019

**World Energy Mix 2018 and outlook 2040 (in Mtoe)**

Energy Source	2018	2040 (2018)	Share 2018	Share 2040 (2018)
Oil	4,488	4,984	31%	29%
Coal	3,778	3,909	26%	22%
Natural Gas	3,253	4,436	23%	25%
Bioenergy	1,418	1,851	10%	10%
Nuclear	710	971	5%	5%
Hydro	364	531	3%	3%
Other Renewable	289	1,223	2%	7%
<b>Total</b>	<b>14,300</b>	<b>17,715</b>	<b>100%</b>	<b>100%</b>

The oil and gas industry plays a vital role in certain economies of LAC. As such, the industry will be central to the energy transition process to accomplish the targets of GHG emissions reductions pledged by governments. Following the energy transition, the value chain will require to be structurally reimagined into three strategies: expansion of operations of existing oil and gas assets, diversification into other energy sources, and investment in new sustainable energy systems with lower GHG emissions, and to advance the economic and social development of the countries in LAC.

Energy Transitions in Latin America and the Caribbean: The Role of the Oil and Gas Industry | 14

# Members



## ACTIVE MEMBERS



# Members



## PARTNERSHIPS





# Thank you



**Regional Headquartes:**

Luis A. de Herrera Av., 1248. WTC. Tower 2. Floor 7. Of. 717.  
CP 11300. Montevideo, Uruguay | Ph: (+598) 2623-6993  
info@arpel.org.uy

**www.arpel.org**

