



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



INSTITUTIONAL

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Arpel 2025 Annual Report



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ARPEL CONFERENCE 2026

8th EDITION

JUNE 1 - 4, 2026
HILTON HOTEL BUENOS AIRES

Together we are energy

Promoting Oil & Gas Sector Competitiveness, Energy Security and Economic Growth in Latin America and the Caribbean

We invite you to join us at this key event for the future of energy in the region.

+ INFO

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ARPEL 2026



Executive Secretary's Message

2025 marked my fourth year leading the Executive Secretariat. I would like to thank the Board for the trust placed in me and, above all, for its commitment and continued support. As always, I also extend my gratitude to the professionals from our member companies for their time, interest, and enthusiasm. Through their active participation in our committees, events, webinars, training programs, and benchmarking initiatives, they continue to share their knowledge in our workshops and reciprocal technical assistance activities. I would also like to recognize the professionalism and outstanding work of the Secretariat's team, whose dedication and effort make all this possible.

Throughout 2025, Arpel reaffirmed its role as a leading platform for technical cooperation and knowledge exchange within the energy industry of Latin America and the Caribbean, as well as for dialogue with key stakeholders at both regional and global levels.

Two milestones particularly defined the year: the celebration of Arpel's 60th anniversary and the organization of Innovarapel 2025, an event that placed digitalization and cybersecurity at the center of the industry's agenda. Among other notable institutional achievements, we highlight:

- The incorporation of OceanPact and Rystad Energy as new members.
- The signing of Memorandum of Understanding with SPE, IOGP, CBHE, and OPITO.
- The active participation of Arpel professionals in conferences across the region and in global events, bringing the region's perspective and voice to forums such as IOGP, OTC, and OPEC.
- Engagement in the global climate agenda through the organization of a side event at COP30 (Belém, Brazil).
- Two roundtables were held in collaboration with IOGP, OLADE, IGU, and hosted by IAPG within the framework of AOG 2025, combining global and regional perspectives.
- Interviews and articles published in specialized industry media outlets.

Towards the last quarter of the year, we began preparations for our biennial 8th Arpel Conference, to be held in Buenos Aires from June 1 to 4, 2026. The topics and speakers promise an outstanding event—we look forward to welcoming you there.

Arpel was founded in Rio de Janeiro on October 2, 1965, by eight state-owned companies. Over the years, seven more joined, along with independent private companies from the region, global integrated companies, hydrocarbon transporters, refiners, and providers of goods and services.

Since our origins, we have remained focused on the fundamentals: operational excellence and safety. We promote responsible operations, emphasizing greater energy efficiency and the reduction of greenhouse gas emissions. Accelerating our digital transformation is essential to achieving these objectives.

The industry narrative shifted significantly from the first quarter of 2025. A reality check took place regarding the pace of energy transitions, acknowledging the boundary conditions shaped by ever-growing energy demand, and the indispensable role of hydrocarbons as the "bedrock" of energy security and affordability.

In particular, natural gas has moved beyond being considered a "bridge fuel" to becoming a pathway that delivers lower emissions and, due to its non-intermittent nature, indirectly supports renewable energies. This perspective inspired our second white paper on the growth outlook for natural gas in the region.

Energy supply and demand are subject to high levels of uncertainty driven by global geopolitics, social and economic development, complex value chains, the rapid expansion of artificial intelligence, and the sectoral and regulatory policies of our countries. Today, more than ever, we must combine strategic vision with pragmatism and tactical agility.

With the knowledge, experience, technology, creativity, and resilience that have shaped our industry throughout its history, we have the moral obligation to lead toward a future that balances natural resource development with sustainability in our region. Thank you for the honor of continuing to work alongside you in this endeavor.

Carlos Garibaldi
Arpel Executive Secretary



Who we are

Arpel is the regional association that brings together companies from the oil, gas, and renewable energy sector in Latin America and the Caribbean.

Founded in 1965, the organization is made up of national and international operating companies and technology, goods and services providers, with a presence in more than 30 countries across the region.

Through its technical committees, Arpel promotes cooperation among its members, the exchange of knowledge, and the development of best practices across the entire energy value chain—from exploration and production to transportation and refining.

The association acts as a neutral platform for technical collaboration, aimed at strengthening safety, operational efficiency, and sustainability in the sector, while supporting energy transition processes in the region.

STRATEGIC VECTORS

ENERGY TRANSITIONS

OPERATIONAL EXCELLENCE

SUSTAINABLE MANAGEMENT

RELATIONSHIP WITH STAKEHOLDERS

Arpel's footprint in Latin America



6 of every 10 barrels

in LAC are produced by Arpel members.



2 out of 3 units of gas

in LAC come from Arpel companies.



70% of oil transport capacity

in LAC is operated by Arpel members.

~46% of LAC's refining

runs on Arpel members' capacity.

~52,000 km of pipelines:

Arpel's footprint keeps the region connected.

11

Technical Committees



Exploration and Production



Pipelines and Terminals



Refining and Fuels



Gas and Energy



Energy Transitions



Environment, Health and Safety



Sustainable Management



Industrial Cybersecurity



Digital transformation



Human Talent and Knowledge Management



Communications

Arpel members



30

We currently have 30 member companies representing nearly two-thirds of the region's production, transportation, and refining capacity.

+2

Two companies from the oil and gas sector join the region

RYSTAD ENERGY

[LEARN MORE](#)

OCEANPACT

[LEARN MORE](#)

Membership

ACTIVE MEMBERS



PARTNERSHIPS



A year of consolidation, innovation, and regional projection

Throughout 2025, Arpel reaffirmed its role as a leading platform for technical cooperation and knowledge exchange within the energy industry of Latin America and the Caribbean.

In a context of accelerated transformation across the sector, the association promoted initiatives aimed at strengthening operational excellence, advancing the energy transition agenda, and consolidating dialogue with key stakeholders at both regional and international levels.

Two milestones particularly marked the year: the celebration of Arpel's 60th anniversary and the holding of Innovarpel 2025, an event that placed the impact of digitalization and cybersecurity on the industry at the forefront.



Rio de Janeiro hosted Innovarpel 2025 and the celebration of Arpel's 60th Anniversary

On June 24 and 25, Rio de Janeiro hosted Innovarpel 2025, the second edition of ARPEL's technical event focused on Digital Transformation and Industrial Cybersecurity in the oil and gas sector.

During the event, the new Arpel Digital Transformation Committee was officially launched. The technical program also closed with a celebration of the association's 60th anniversary, attended by representatives of member companies and leading regional and international industry institutions.

With the aim of sharing experiences, best practices and lessons learned, Innovarpel 2025 brought together nearly 200 professionals from operator companies and providers of digital and industrial cybersecurity solutions.

The agenda was organized around five thematic blocks:

1. Digital Transformation and Operational Efficiency;
2. Industrial Cybersecurity in the Digital Era;
3. Sustainability, Energy Transitions and Decarbonization;
4. Artificial Intelligence and Decision-Making Automation;
5. Culture, Innovation and Agility: The Path to the Digital Enterprise.

The opening keynote of Innovarpel 2025 was delivered by **Tatiana Escovedo, General Manager of Digital Transformation at Petrobras**, who outlined a clear strategic framework for the challenges and opportunities of digital transformation in the oil and gas sector. Drawing on Petrobras's own journey, she emphasized the centrality of people, a culture of continuous learning, multidisciplinary collaboration, and the intelligent use of data and AI as pillars for accelerating results and sustaining competitiveness. She also underscored the importance of simplifying processes and strengthening organizational adaptability to navigate an environment of accelerated change, always with a value-oriented focus. Her address set the foundations that shaped the rest of the program, which centered on concrete cases of digital transformation applied by companies across the sector.

In this edition, **Artificial Intelligence** emerged as the central theme of both debate and practical demonstrations, reflecting a marked evolution compared to its role in previous years. AI has moved from being an ancillary tool to becoming a strategic component of energy sector modernization, with direct impact on efficiency, safety, and sustainability. Several presentations showed how AI enhances the work of geoscientists by optimizing geological and seismic analysis, improving the interpretation of complex data, and increasing precision in exploration.

In parallel, real-time decision-making automation was showcased, capable of integrating multiple variables and scenarios in dynamic operational contexts, with tangible benefits across the industry's value chain. This consolidation of AI as a driver of decisions and operations reflects a transition toward more predictive, adaptive, and data-driven models.

At the operational level, innovations combining automation, connectivity, and analytics to enhance the supervision and performance of critical assets were highlighted. One of the most disruptive concepts was the remote operation and monitoring of drones, enabling inspections of strategic infrastructure without on-site personnel, reducing occupational risks in hard-to-reach areas, allowing greater monitoring frequency, and lowering operational costs.



These capabilities are already being applied to pipelines, processing facilities, and treatment plants, generating substantial improvements in efficiency and safety. Industrial building management systems applied to pipeline communication monitoring also demonstrated how integrated supervision can detect anomalies, optimize flow, and ensure the operational integrity of transportation, reinforcing business continuity and reducing exposure to failures.

This quality leap is further supported by next-generation operations centers, where production, reservoir, logistics, and safety data converge on real-time visualization platforms. The result is more agile, coordinated decision-making with an integrated view of operations, enabling teams to anticipate events, optimize asset utilization, and break down traditional silos between departments. **Together, drones, smart building systems, and integrated centers form a digital architecture that multiplies the value of AI and advanced analytics, providing the foundation for the next wave of operational improvements.**

In parallel, **Industrial Cybersecurity** was presented as a pillar of operational excellence. Presentations addressed the new digital threat landscape and shared a detailed analysis of a real incident, including actionable lessons

learned. The message was clear: cybersecurity is not merely a compliance requirement, but a critical factor for operational continuity, asset protection, and people's safety. In a context of increasingly digitalized and interconnected operations, having robust defenses and rapid response capabilities is essential for identifying, containing, and mitigating risks with potential impact on critical infrastructure.

The digital era has transformed the threat landscape, and hydrocarbon sector operations require security controls and processes as sophisticated as their industrial systems, integrating practices and technologies that sustainably enhance organizational resilience.

Sustainability and decarbonization were another prominent theme and, at the same time, fertile ground for digitalization. Cases were presented in which digital tools enable granular optimization of energy consumption, improved efficiency in refining and processing, integration of renewable energy into existing operations, and precise measurement and reporting of Scope 1, 2, and 3 emissions. These capabilities support more informed, traceable management aligned with increasingly demanding environmental targets, demonstrating that digital transformation not only drives productivity but also accelerates the transition toward low-carbon operations.

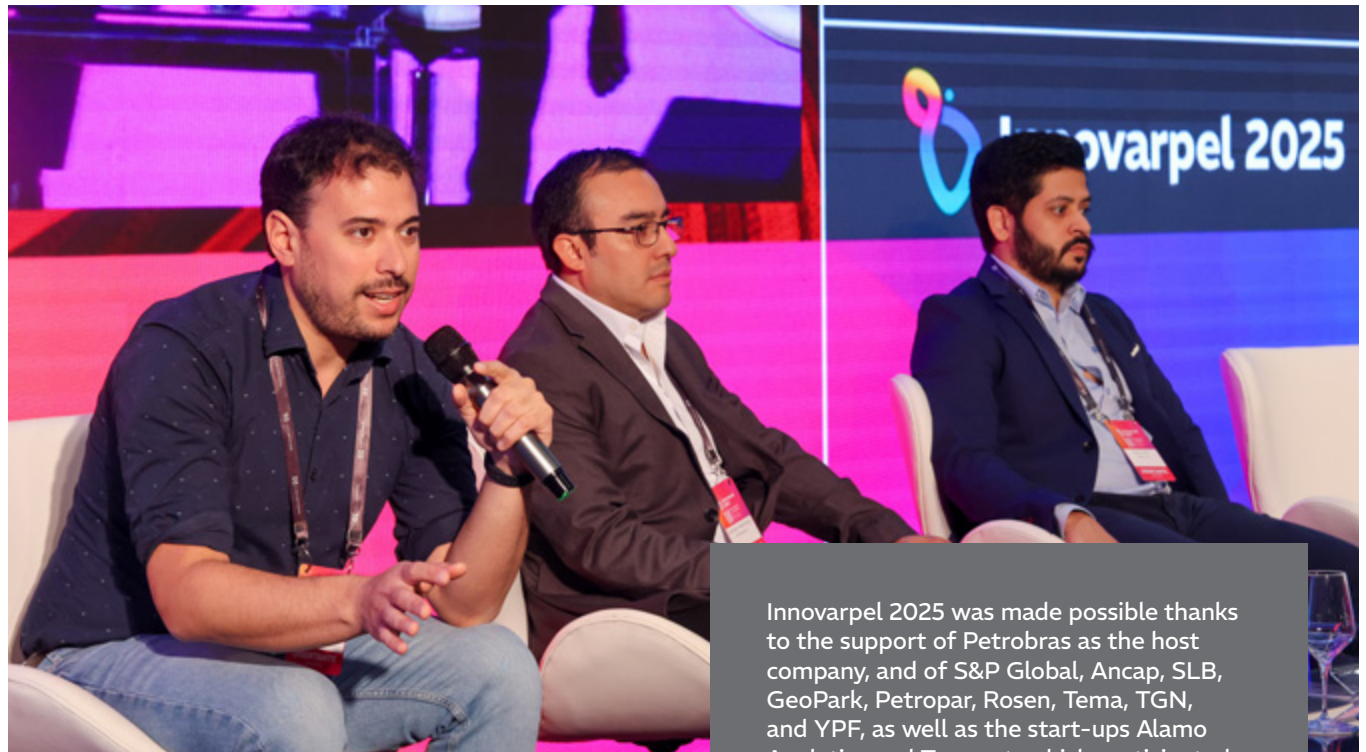
The roadmap is clear: multidisciplinary integration, continuous learning, data-driven decisions, and a value vision encompassing efficiency, safety, and sustainability—preparing the sector for a future of smarter, safer, and lower-carbon operations.



The program also included a block on how digitalization applies to an organization's support services and how IT sector methodologies can be leveraged in our industry, for example, in internal auditing. The use of continuous analysis, data visualization, and automated control testing is transforming auditing from a retrospective function into a preventive capability, better integrated into day-to-day business operations.

Taken together, the presentations at Innovarpel 2025 point to a clear conclusion: AI and digital technologies—underpinned by integrated operational architectures and robust cybersecurity—are redefining how the oil and gas sector explores, operates, protects, and decarbonizes.

From the opening keynote that aligned purpose, people, and data within a framework of continuous transformation, to the applied cases showcasing drones, smart building systems, intelligent operations centers, cybersecurity practices, emissions metrics, and preventive auditing, the event evidenced a profound shift toward predictive, interconnected, and resilient models.



Innovarpel 2025 was made possible thanks to the support of Petrobras as the host company, and of S&P Global, Ancap, SLB, GeoPark, Petropar, Rosen, Tema, TGN, and YPF, as well as the start-ups Alamo Analytics and Teramot, which participated in the new emerging ventures category.



Arpel 60th Anniversary Celebration

Following the conclusion of the Innovarpel 2025 Technical Agenda, Arpel celebrated its 60th anniversary. The event opened with remarks by Carlos Garibaldi and Faye Gerard, representing the international association IOGP.

“Since its inception, Arpel has provided a space for the exchange of knowledge and experience. We share best practices in operational excellence across the entire value chain through mutual assistance initiatives to address specific technical and management challenges, as well as through workshops, committees, training courses, benchmarking studies, guidelines, manuals, and technical publications.

While maintaining our commitment to operational excellence and safety, today we are driving the evolution of the hydrocarbon sector in the context of the energy transition and new risk dynamics, with the goal of ensuring energy security while reducing emissions,” Garibaldi highlighted.

This was followed by remarks from Mishaal Al-Thukair of the Ministry of Energy of Saudi Arabia, Luciene Ferreira Pedrosa of ANP, and Flaubert Matos Machado representing Petrobras.

The session continued with a distinguished panel moderated by Martín Terrado, Chairman of Arpel Board of Directors and Chief Operating Officer of GeoPark.

Panelists included Pedro Miras, President of WPC Energy; Jennifer Miskimins of SPE International; Ángela Livino of OLADE; Carlos González, Vice Chair of Ipieca and Corporate General Manager of HSE at Petrobras; and Cecilia San Román, President of ANCAP.

The celebration concluded with a cocktail reception, bringing participants together in a space for networking and celebrating Arpel’s 60-year journey.









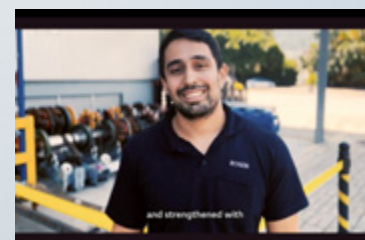
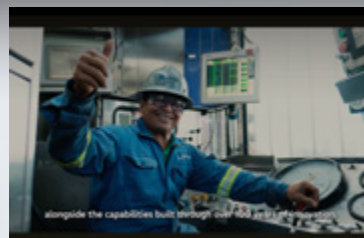
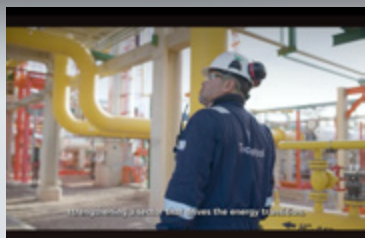
Video Arpel's 60th Anniversary

Together We Are Energy

This video was made possible thanks to the valuable contribution of our member companies, to whom we extend our special thanks for sharing representative material from their operations across the region.

Their contribution reflects not only the diversity and scope of their activities, but also the fundamental role they play in the economic and social development of the countries across the region through job creation, the development of value chains, and their contribution to public revenues.

WATCH THE 60TH ANNIVERSARY VIDEO



ENERGY TRANSITIONS

ADVANCING CLIMATE RISK MANAGEMENT AND THE ENERGY TRANSITION

Throughout 2025, Arpel strengthened its energy transition agenda, focusing on technical capacity building and the exchange of best practices among its member companies.

One of the main developments was the creation of the Arpel Climate Risk Analysis Tool, designed to facilitate the identification and management of physical and transition risks, aligned with international frameworks such as TCFD.

Training and knowledge-sharing initiatives were also promoted on carbon markets, methane emissions, and just energy transitions, further consolidating Arpel as a relevant regional technical actor.

The agenda also included emerging topics such as hydrogen, biofuels and sustainable aviation fuels, as well as the implementation of energy management systems under the ISO 50001 standard.



Climate Risk Management

The Arpel Climate Risk Analysis Tool was developed in collaboration with ERM as an instrument to identify and prioritize physical and transition risks affecting operations in the Oil & Gas sector across Latin America and the Caribbean.

Aligned with internationally recognized frameworks such as TCFD, the tool was presented to member companies through a dedicated training session to facilitate its adoption and practical application.

The virtual workshop was led by Guillermo Pérez, Natalie Rona, and Sandra Carrillo from ERM.



We thank all member companies that participated in the design, validation, and pilot phases, and encourage them to explore the tool and share feedback or inquiries with Irene Alfaro, Senior Managing Director, at: ialfaro@arpel.org.uy



Arpel Climate Risk Analysis Tool

[DOWNLOAD THE ARPEL TOOL](#)

Carbon Markets

Two virtual workshops were held jointly with IETA, aimed at strengthening technical knowledge on carbon markets and their evolution, continuing the series launched in 2024.



Methane Emissions

Progress was made in updating the regional assessment of methane emissions management, including the repetition of the maturity survey previously conducted and the development of a comparative map of initiatives.

Just Energy Transitions

- Three virtual workshops were held:
 - Two with the participation of external stakeholders
 - One exclusively for member companies

These activities enabled the exchange of approaches and experiences regarding the social and economic aspects of the energy transition in the region.



New Energies and Decarbonization

Technical exchange among member companies was promoted on:

- Hydrogen
- Biofuels
- Sustainable aviation fuels (SAF)
- Scope 3 emissions

Participation in the Global Climate Agenda: Arpel at COP30

Arpel participated in the global climate agenda by organizing a side event at COP30 (Belém, Brazil), strengthening the association's regional positioning on energy transition issues.

This marked the first time in Arpel's history that the association co-organized an official side event at COP30 on **"Just Transition and Adaptation: A Global Business Dialogue"**, together with Ipieca and the United States Council for International Business (USCIB).

The Conference of the Parties (COP) is the United Nations' leading global forum for climate change discussions and negotiations. Brazil hosted the 30th

Conference of the Parties (COP30), held in Belém from November 10 to 21.

The side event, organized by Arpel, Ipieca and USCIB, took place on November 12 and focused on adaptation and just transition, two central themes on the global climate agenda, and enabled discussions on progress toward the Global Goal on Adaptation (GGA) and the UAE Just Transition Work Programme (JTWP), in the tenth anniversary year of the Paris Agreement.



Key messages and conclusions included:

- Energy transition and climate adaptation require cross-sector and cross-regional cooperation.
- The private sector can lead through innovation, community engagement, and green skills development.
- Measuring progress through clear indicators and promoting social dialogue are essential for an equitable transition.
- Public and private policies must complement one another to enable resilience and economic growth.
- Arpel's work was highlighted as a regional reference in just transition and innovation.

Representing Arpel, Irene Alfaro, who leads the Association's Energy Transitions Committee, participated in the event.

The session also featured Agnes Vinblad (USCIB), Mariam Allam (UNFCCC), Isabel Miranda (Ipieca), Justine Garret (IEA), Emilio La Rovere (UFRJ), and Robert Marinkovic (IOE).

OPERATIONAL EXCELLENCE

OPERATIONAL EXCELLENCE AS A PILLAR OF SECTOR SUSTAINABILITY

Operational excellence was consolidated in 2025 as one of the central pillars of Arpel's work, promoting high standards in safety and efficiency.

Throughout 2025, new editions of benchmarking reports were developed, together with numerous technical exchange initiatives in areas such as:

1. Environment, Health and Safety (HSE)
2. Exploration and Production
3. Pipelines and Terminals
4. Refining
5. Industrial Cybersecurity
6. Digital Transformation

In addition, the consolidation of the RETOST™ tool and the strengthening of spill management capabilities position Arpel as a regional and global reference in this field.



Environment, Health and Safety (HSE)



Regular exchange meetings on Process Safety were held, addressing key aspects for integrated management within companies in the sector.

Among the main topics, discussions focused on how organizations structure their process safety management systems, with presentations from Ecopetrol, GeoPark, YPF, ENAP, and Petroperú. In addition, exchanges were held on Tier 3 and Tier 4 indicators, with contributions from CCPS, Chevron, Tema, and Hunt.

The Committee also held meetings focused on Occupational Health, addressing topics of increasing relevance for the industry.

In this context, experiences were shared on mental health, with cases from Petrobras and ANCAP; wellbeing, through Chevron's program; and nutrition, through PAE's WISE program.

In the second half of the year, two webinars were held, as described below.

Data-Driven Safety with PAE and the Institute for a Safety Culture

The Arpel HSE Committee, together with the Institute for a Safety Culture (ICSI), organized a webinar on "Safety Intelligence: Data-Driven Safety", with the participation of PAE.

Diego Turjanski, Branch Manager of ICSI Latam, introduced the concept of Safety Intelligence, inspired by epidemiology: just as this discipline derives valuable insights from a population-based approach, safety can benefit from systematic, data-driven analysis.

Safety Intelligence has two main applications: one aimed at supporting frontline operators through technologies such as smart glasses, proximity sensors, and AI tools; and another focused on supporting system management through cluster analysis, precursor identification, and video analytics.

Three levels of data acquisition were described: serious accidents, high-energy events, and precursors.

Expert analysis remains critical for building valid models, as safety is neither homogeneous nor fully automatable.



The session concluded with a presentation by Sergio Fernández, Executive Manager of Safety and Risk Management at Pan American Energy, explaining how Safety Intelligence is being applied in PAE's operations.

Process Safety Fundamentals: Webinar with IOGP, BP, PAE, and ENAP



WEBINAR

PREVENTING PROCESS SAFETY EVENTS WITH THE IOGP PROCESS SAFETY FUNDAMENTALS

WEDNESDAY, DECEMBER 3RD
2025

12:00 - 1:30 PM GMT-3
(Buenos Aires, Montevideo, Rio de Janeiro, Santiago)

LANGUAGES: SPANISH / ENGLISH
(Simultaneous translation available)

LIMITED SPACES AVAILABLE

Open to Arpel members and non-members
Free of charge
Pre-registration is required

More than 500 oil and gas industry professionals took part in the webinar on Process Safety Fundamentals, organized by Arpel's Environment, Health and Safety Committee in collaboration with IOGP. The event, held in early December, featured speakers from BP, PAE, and ENAP.

Between 2007 and 2024, IOGP members reported 175 fatalities across 86 Process Safety Events (PSEs). To address this situation, the association developed the Process Safety Fundamentals (PSFs) with the aim of reducing—and ultimately eliminating—incidents with fatal or high-severity consequences.

Designed for operations, maintenance, and well activities personnel, the PSFs are based on industry data and highlight the situations most likely to lead to serious incidents. Their purpose is to strengthen awareness, safe behaviors, and operational discipline across the industry.

The webinar hosted by Arpel began with a theoretical presentation of the PSFs delivered by IOGP member companies, which demonstrated how the fundamentals can be integrated into daily operations through safety talks, pre-job planning, last-minute risk assessments, field observations, interventions, and post-task reviews.

Implementation resources—such as guide cards, posters, videos, and translated materials—were also presented to facilitate organizational adoption.

The core message was that the consistent application of the PSFs can significantly reduce the likelihood of fatal events, strengthening a safety culture grounded in clear and concrete actions.

Later, speakers from BP, PAE, and ENAP explained how they have practically implemented the PSFs in their Upstream and Midstream operations. They shared their company-specific journeys and the concrete steps taken to integrate these fundamentals, thereby improving their safety performance.

[WATCH THE FULL WEBINAR RECORDING](#)

Roundtable: Safe and Sustainable O&G Growth Supporting Energy Security – Arpel, IAPG and IOGP

On September 9, within the framework of the Argentina Oil & Gas Expo (AOG) held at the La Rural fairgrounds in Buenos Aires, ARPEL, IAPG, and IOGP co-organized the first edition of the Roundtable “O&G’s Safe and Sustainable Growth in support of Energy Security”.

The in-person event brought together representatives from national, regional, and international operating companies in the oil and gas sector. The session was structured around four thematic pillars. Regarding safety, the 2024 benchmarking data from IOGP and ARPEL were presented. In Occupational Safety, globally, 41% of fatalities were attributed to explosions and fires, with drilling operations accounting for the highest number of fatalities. In the region, ARPEL’s fatality rate has shown a steady decline since 1997, although fires and explosions continue to represent 29% of deaths over the last decade.

Regarding Process Safety, globally, Tier 1 events reached their lowest level since the beginning of the data series. However, both globally and regionally, rates have plateaued in recent years, highlighting the need for new approaches.

In terms of decarbonization and digital transformation, the discussion focused on how companies are applying digital tools to reduce emissions, optimize processes, and improve performance across the entire value chain. Finally, the growth segment addressed the global decline in exploration —with investments 74% below the 2013 peak — and the strategic potential of Latin America and the Caribbean, which since 2020 has contributed 38% of the conventional resources discovered worldwide.



The activity confirmed that oil and gas remain essential to energy security under any foreseeable scenario, and that the sector faces a triple imperative: increasing production, decarbonizing operations, and continuing to improve safety performance.

Meeting this challenge requires sustained investment in exploration, greater industry collaboration, and accelerated digital transformation.



Annual Benchmarking on Industrial and Process Safety

In 2025, 12 companies operating across 12 countries contributed their data to the Industrial Safety report, while 11 companies across 10 countries participated in the Process Safety study. The number of declared man-hours showed a slight increase compared to the previous year.

Regarding Industrial Safety, a decrease is noted across the various indicators compared to the previous year. However, when examining the last five years, no substantial improvement in performance is observed. In 2024, 2 fatalities were reported, representing an improvement over the 3 recorded in 2023. We must redouble our efforts to reverse the upward trend in incident rates and achieve our goal of zero fatalities.

In Process Safety, the results show a significant improvement compared to the previous year. High-severity incidents (Tier 1) decreased notably, falling from 14 to 8 cases, while Tier 2 incidents dropped from 30 to 24. This reduction in both indicators reflects positive progress in process risk control and facility integrity.

Participation in these ARPEL studies allows member companies to identify operational gaps and establish collaboration networks to optimize their safety standards.

We encourage all member operating companies to integrate their data into this process, as these reports offer a unique comparative perspective in the region.

As an exclusive benefit for our members, these benchmarking reports constitute the most robust knowledge base for industrial and process safety in the regional oil and gas industry.

From the Executive Secretariat, we reaffirm our support for the operators who contribute to strengthening this data ecosystem, which is essential for the sector's operational excellence.



Occupational Safety Benchmarking in the oil and gas industry in Latin America and the Caribbean

[DOWNLOAD](#)



Process Safety Benchmarking in the oil and gas industry in Latin America and the Caribbean

[DOWNLOAD](#)

Exploration and Production



Arpel's Exploration and Production Committee continued promoting technical exchange initiatives aimed at optimizing operational performance and strengthening member company competitiveness.

Technical activities addressed:

- Unconventional resources in Vaca Muerta formations
- Energy consumption optimization
- Implementation of quality management models

A workshop cycle on operational decarbonization was also conducted jointly with Ipeca, focusing on methane emissions reduction.

Reciprocal technical assistance initiatives among member companies were also promoted.

Tecpetrol presented a management system implementation case study: Pesquería Power Plant in Mexico

More than 100 professionals from the sector across the region, as well as from Mexico, the United States, and Canada, participated on May 7 in a new edition of the series of talks for sharing best practices in Upstream.

On this occasion, the technical webinar was led by member company Tecpetrol and focused on: Quality Management: Implement, Certify, Win – The Path to Operational Excellence.

The presentation was given by Fausto Eduardo González Ruiz, Quality Manager at Tecpetrol, and was moderated by Pablo Amoedo, coordinator of the Exploration and Production Committee at Arpel.

The objective of the webinar was to share the process, benefits, lessons learned, and challenges of implementing a certified management system in an industrial plant, demonstrating how this quality management approach contributes to operational excellence and alignment with the business's strategic objectives.



[WATCH THE FULL WEBINAR RECORDING](#)

Unlocking the Potential of Vaca Muerta: An Exchange with the Venezuelan Association of Gas Processors

In late November, the conference “Unlocking the Potential of Vaca Muerta” was held virtually. Jointly organized by the Venezuelan Association of Gas Processors (AVPG) and Arpel, it was primarily aimed at professionals from Venezuela’s gas sector and the wider region. The event featured a presentation by Pablo Amoedo, Arpel’s Upstream Manager, and was moderated by José Cuello, a member of the AVPG Executive Committee.

Technical Content of the Conference

The presentation traced the development of Vaca Muerta from the initial geological assessment and characterization stage to its consolidation as a world-class play, structuring it into five phases: initial geological assessment and characterization; pilot projects and an accelerated learning curve; industrial scaling; the first “Factory” phase; and the current stage of large-scale expansion and production consolidation. Key enabling factors were analyzed in detail, including extended-reach horizontal drilling, multi-stage hydraulic fracturing (including dual frac and simulfrac), the digitization of operations, and the optimization of logistics for water, sand, and evacuation infrastructure.

Relevance for the Gas Sector and for Arpel’s Member Companies

The focus on natural gas held particular interest for the Venezuelan audience, highlighting that Vaca Muerta accounts for nearly half of Argentina’s gas production and holds resources equivalent to more than 200 years of domestic consumption at current levels. The expansion projects for major trunk gas pipelines and the Argentina LNG plan were presented, both aimed at transforming this potential into sustained LNG exports to markets in the Americas, Europe, and Asia.

Social License, Regional Development, and Regulatory Frameworks

Another key focus was building social license in the Neuquén Basin, based on permanent dialogue forums, transparent environmental monitoring, high-quality local employment, and ESG standards aligned with international best practices. Regulatory and public policy changes that enabled the scale-up were also reviewed, ranging from incentive programs for unconventional gas to the current frameworks that underpin major infrastructure investments and export-oriented projects.

Value of Regional Exchange

This activity aligns with Arpel’s objective of promoting the exchange of experiences among producing countries in order to accelerate collective learning and enhance the region’s competitiveness. The lessons learned from Vaca Muerta in the areas of unconventional resource development, evacuation infrastructure, liquefaction, and the management of socio-environmental impacts provide valuable inputs for Arpel’s member companies as they assess their own gas projects and resource monetization strategies.

Refining and Fuels



Arpel's Refining and Fuels Committee promoted technical exchange and continuous improvement initiatives across the region.

One of the main milestones was the Best Practices Workshop on Operation and Maintenance of Coker Units, held in Argentina.

Technical exchange spaces were also maintained on refinery operation and maintenance, FCC units, hydroprocessing, and plant shutdowns.

Best Practices Workshop on Coker Units at AXION Energy's Campana Refinery

AXION Energy's Campana Refinery hosted the Best Practices Workshop on Coker Unit Operation and Maintenance, held from August 12 to 14.

The in-person meeting—which also included the virtual participation of around twenty professionals—was organized by the Arpel Refining Committee, led by Ricardo Buyatti, and brought together 80 technicians from AXION Energy, Becht, DeltaValve, Ecopetrol, Honeywell, Raízen, RUHRPUMPEN, Wood, and YPF.

The first day's agenda included best practices in feedstock quality, fractionation towers, and plant shutdowns, as well as the operation and actions to extend the operating time of coker unit furnaces.

The second day focused on the exchange of experiences in the operation, safety, maintenance, and integrity of the chambers, and concluded with a panel on best practices in incident resolution.

On the third day, the professionals visited the Campana Refinery.



Pipelines and Terminals



The Pipelines and Terminals Committee focused its work during 2025 on strengthening technical tools aimed at improving infrastructure integrity across the region.

Arpel Guide for Repairing Illegal Pipeline Taps

It was published with the objective of providing technical guidelines for damage assessment and the selection of repair methodologies, promoting operational safety, environmental protection, and business continuity.

The document covers the different stages involved in managing these incidents, from damage identification and characterization to the implementation of repair solutions, incorporating technical, operational, and safety criteria.

The guide was developed with the participation of specialists from different companies in the sector (RECOPE, TGP, REFINOR, OLDELVAL, PAE, YPFB, TRANSPETRO), consolidating the industry's experience and expertise in the region and positioning itself as a reference for the management of this type of event.



Arpel Guide for Repairing Illegal Pipeline Taps

[DOWNLOAD](#)

Webinars

Three webinars were held to exchange best practices on the following topics:

- Pipeline anomaly assessment using integrity management software.
- Experiences in the use of Arpel technical guidelines on geo-hazard control.
- Risk management in TGN's natural gas transportation system: evolution and experience.

In parallel, the Committee met to analyze the use of optical fiber for acoustic detection of activities affecting pipelines; advances in controlling third-party activities in operations; and experiences in the certification of control room operators.



Pipeline Inspection Innovation: Technical Visit to ROSEN Brazil

Within the framework of the Rio Pipeline Conference, Arpel organized a technical visit to ROSEN's facilities in Brazil, bringing together professionals from member companies for an in-person exchange and technology update session focused on pipeline integrity.

The event combined specialized technical presentations with a tour of the facilities, providing participants with first-hand insight into advanced inspection and integrity assessment technologies.

In parallel, a meeting of the Pipelines and Terminals Committee was held, strengthening exchanges among its members and helping identify priority topics for collaborative work.



ENAP hosts workshop on Facilities Integrity Management

ENAP hosted the second Best Practices Exchange Workshop on Facilities Integrity Management, held from October 8 to 10 in Concepción, Chile. The event included a visit to the Bío Bío Refinery.

The in-person event was organized by Arpel's Pipelines and Terminals Committee, coordinated by Fabián Sánchez, and aimed to promote the exchange of experiences in facilities integrity management, as well as to strengthen networking among member companies and their technical teams.

More than 100 professionals from Costa Rica, Colombia, Ecuador, Peru, Argentina, Uruguay, and Chile took part in the workshop.

Key takeaways highlighted by participants included the evolution of integrity management, the importance of the human factor, applicable regulations and standards, and the value of teamwork within project teams and the Committee.

The event's technical agenda included the following topics:

- Digital Asset: Challenging Paradigms in Decision-Making
- Risk Management in Oil Pipelines
- Applicable Regulations and Standards in Integrity Management
- Smart Pipeline Management
- Lessons Learned from Internal Inspection Projects
- Challenging Technology in Pipeline Integrity Management
- Studying and Addressing Stress Corrosion Cracking
- Competency Development Programs
- Pipeline Cleaning
- Geotechnical Risk Management, among other topics



Industrial Cybersecurity

The second phase of the comparative cybersecurity maturity study was carried out, including individual assessments and a consolidated regional analysis.

The objectives of the project are to identify gaps in cybersecurity capabilities, promote continuous improvement, protect critical assets against cyber threats, comply with security regulations and standards, and foster collaboration and cooperation among member companies.

In addition, webinars and exchange panels on best practices were held, with the participation of companies and industry experts.

Progress was also made in defining a business case for the development of a security and trust network coordinated by Arpel, aimed at the early detection and mitigation of cyber threats.



Industrial Cybersecurity 4.0: Leveraging AI to Combat Real-Time Threats

More than 200 professionals took part in the panel for exchange and reflection on "Industrial Cybersecurity 4.0: Leveraging AI to Combat Real-Time Threats," organized in early November by Arpel's Cybersecurity Committee.

The event featured three distinguished panelists: Jeimy Cano, Ariel Pizzo from 4i Digital, and Julio Ardita from CISIAR, who discussed current challenges and the role of Artificial Intelligence in preventing cyberattacks, while also sharing best practices applied in real industrial environments.

The panel was moderated by Leonardo Iglesias, Executive Cybersecurity Manager at YPF, and Pablo Amoedo, Coordinator of Arpel's Cybersecurity Committee.

Artificial Intelligence as a Key Tool for Both Defenders and Attackers

The panelists emphasized that artificial intelligence is already a key tool for both defenders and attackers, allowing large volumes of data to be analyzed and processed to detect threats in real time. However, its integration requires consideration of the context and maturity level of each organization, taking into account not only technology, but also processes, culture, and governance.

The importance of frameworks such as NIST, C2M2, and others was highlighted as tools for assessing maturity and defensive capabilities, as well as the critical value of data governance and the integration of strategies tailored to OT environments, which are far more demanding and complex than traditional IT environments.



[WATCH THE RECORDING](#)

It should also be noted that attackers use AI to refine their techniques and conceal themselves, making it urgent for companies to adopt intelligent solutions, strengthen processes, and train staff, as automated defense still depends on human intervention in industrial environments.

Finally, participants were encouraged to broaden the traditional view of cybersecurity—confidentiality, integrity, and availability—to include dimensions such as authenticity, usefulness, and possession of information, and to promote regional collaboration and the exchange of best practices in order to strengthen the sector's resilience.

Digital Transformation

The Digital Transformation Committee began its first year of operations in 2025, positioning itself as a key platform to support member companies in their digitalization processes and the strategic adoption of emerging technologies.

The main milestone of the year was the organization of Innovarpel 2025, a technical event dedicated to Digital Transformation and Industrial Cybersecurity, held on June 24–25 in Rio de Janeiro. Within this framework, the Committee's launch meeting also took place, marking the formal start of its activities.

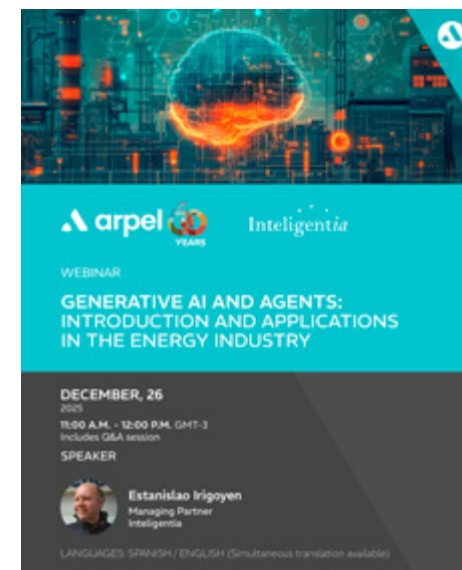
During the second half of the year, the Committee made progress in consolidating its work agenda, focusing on priority topics such as artificial intelligence applied to industry and the use of Big Data, promoting spaces for exchange among specialists from member companies.

Webinar: Generative AI and Agents

On December 10, ARPEL hosted the webinar “Generative AI and Agents: Introduction and Applications in the Energy Industry.” The free event, held with simultaneous English interpretation, brought together more than 150 professionals from 15 countries and over 70 companies.

The session was led by Estanislao Irigoyen, Managing Partner of Inteligentia SRL, with extensive experience in AI, Machine Learning, and Big Data projects across the oil, gas, and energy sectors, and a lecturer at the University of Buenos Aires and speaker at forums such as SPE, IAPG, and the OAS.

The presentation traced the historical evolution of artificial intelligence and introduced the core concepts of Generative AI: systems that create new content—text, images, code, or video—through Large Language Models (LLMs). Topics included prompt engineering, the risk of “hallucinations,” and the RAG (Retrieval-Augmented Generation) architecture as a means to govern knowledge sources. The session also explored AI agent architectures—from LLM workflows to multi-agent systems capable of reasoning, planning, and executing autonomous actions—and presented concrete use cases across the energy value chain: seismic interpretation, predictive maintenance, refinery optimization, leak detection, and HSE management, among others.



As a conclusion, the activity showed that Generative AI is an amplifier of human capabilities: it preserves specialized organizational knowledge, simplifies access to it, and automates routine tasks with measurable impact. Its adoption also creates new professional profiles and can be deployed on existing infrastructure, establishing itself as a tangible source of innovation and value for the energy industry.

Arpel's RETOS™ Experience and Its Global Impact on Oil Spill Preparedness Assessment

The Arpel RETOS™ tool (Readiness Evaluation Tool for Oil Spills) and its corresponding International Guide for Oil Spill Response Planning and Preparedness Assessment (2023) have positioned Arpel as a key and relevant actor within the regional and international oil spill response community.

The main outcome of this joint effort with international industry (Ipieca) and government stakeholders (International Maritime Organization – IMO) is the provision of a consistent and globally accepted evaluation framework. This framework filled a critical gap that existed prior to 2008, when no formal or broadly adopted compilation of international best practices was available to systematically assess preparedness and planning beyond contingency plan content alone.

Since its creation in 2010, the RETOS™ tool—developed by Arpel—has been used by governments and companies in more than 115 countries and has been officially endorsed by IMO and Ipieca. This recognition has facilitated its adoption by key organizations worldwide, improving collaboration between government and industry and enabling greater alignment of regional response capabilities.



Components of the RETOS™ Assessment

RETOS™ is designed as a scalable self-assessment tool that:

- Considers seven different scopes from both government and industry perspectives (including facilities, business lines, and national programs).
- Offers three levels of assessment: basic, intermediate, and advanced.
- Is based on ten evaluation categories related to oil spill preparedness and response planning. The Guide compiles more than 600 detailed aspects and over 500 international best practice references.
- Its web-based application facilitates collaborative work and ensures information integrity and confidentiality, promoting efficient and secure cloud-based assessments.

International Endorsement and Capacity Building

IMO's support is reflected in several initiatives that expand RETOS™ reach:

- Development of a dedicated online training course based on content provided by Arpel.
- Support for RETOS™ training activities in multiple countries, with Arpel assisting nations in evaluating their National Contingency Plans.

Through Arpel's institutional network, RETOS™ has been used by regional and international organizations across Central America, the Wider Caribbean, Africa, Southeast Asia, the Mediterranean, and the South Pacific to assess national plans and identify improvement opportunities.

Human Capital

Training professionals in oil spill management is a strategic pillar for strengthening response systems.

Since the creation of RETOS™ 15 years ago, Arpel has led the training of industry and public sector professionals through courses and workshops—both in-person and virtual—contributing to capacity building, standardization of criteria, and the consolidation of a global community of practice in spill management.



Operational and Regulatory Considerations for the Efficient Use of Dispersants in Oil Spill Response

The Arpel report, Operational and Regulatory Considerations for the Efficient Use of Dispersants in Oil Spill Response (April 2025 Edition), provides a regional overview of the regulatory requirements for pre-approval and authorization of dispersant use in oil spill response across Argentina, Brazil, Canada, Colombia, Costa Rica, Chile, Ecuador, El Salvador, the United States, Guatemala, Guyana, Honduras, Mexico, Nicaragua, Panama, Peru, Suriname, and Uruguay.

It also identifies opportunities for improvement to support the effective

use of dispersants in oil spill response, as well as operational considerations that require advance planning.

The report is expected to contribute to the development and updating of regulations and policies related to oil spill response and to support countries as a reference document for implementing good practices and strengthening collaboration among countries.

It also aims to improve operational considerations within dispersant management programs.



Operational and Regulatory Considerations for the Efficient Use of Dispersants in Oil Spill Response

[DOWNLOAD](#)

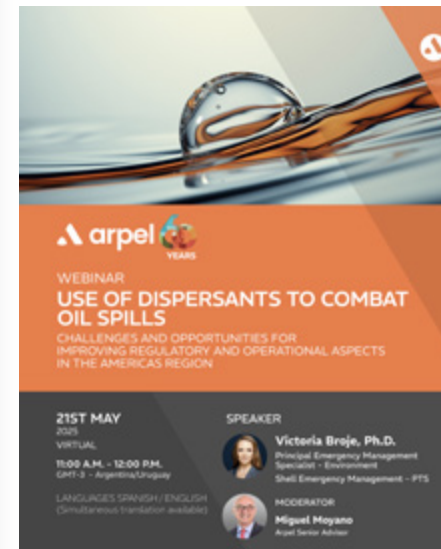
Use of Dispersants to Combat Oil Spills

Challenges and Opportunities to Improve Regulatory and Operational Aspects Across the Americas

Globally, approximately 14.5 million barrels of crude oil are transported by sea every day and around 28 million barrels are produced daily onshore and offshore.

Oil spills represent a risk that both industry and governments have managed for years. In response, different oil spill preparedness and response strategies have been developed, one of which is the use of dispersants in oil spill response.

The webinar presented the main findings of the Arpel report Operational and Regulatory Considerations for the Efficient Use of Dispersants in Oil Spill Response (April 2025 Edition), providing an overview of key regulatory requirements for pre-approval and authorization of dispersant use in oil spill response across the Americas, as well as operational considerations requiring advance planning. The report identifies opportunities for improvement to support the effective use of dispersants in oil spill response.



[WATCH THE FULL WEBINAR RECORDING](#)

Mutual Technical Assistance (ATRS)

**Exclusive
Benefit** for
Arpel Member
Companies



Throughout 2025, new instances of Mutual Technical Assistance (ATR) were carried out among Arpel member companies.

The ATRs are managed and monitored by Arpel Directors and Project Managers of the Executive Secretary.

These technical exchanges aim to find solutions to specific problems by sharing the knowledge and experience of professionals from member companies.

[REQUEST ASSISTANCE >](#)

2025

40

MUTUAL
TECHNICAL
ASSISTANCES

19

ARPEL MEMBER
COMPANIES
PARTICIPATED

TOPICS | JANUARY–DECEMBER 2025

REGULATIONS FOR WORK UNDER FLARE

AMMONIA NEUTRALIZATION

PACKINOX WASHING PROCESS

FURNACE DECOKING IN THE COKER UNIT

EMERGENCY DUE TO BLACKOUT IN COKE DRUM COOLING

PIPELINE FAILURE DETECTION USING NEW TECHNOLOGIES

RISK ANALYSIS AND MANAGEMENT AS AN INTEGRITY TOOL

TOOLS FOR DETECTING THIRD-PARTY ACTIVITIES

CLOUD-BASED VAULT SOLUTION FOR PASSWORD STORAGE WITH SSO (SINGLE SIGN-ON) AND AD (ACTIVE DIRECTORY)

ESMERALDAS HYDROCARBON SPILL

BEST PRACTICES IN REFINERY LABORATORIES

HEAT EXCHANGER FOULING IN AN ALKYLATION UNIT

REPAIR OF IN-SERVICE LPG PIPING

SUPPLY OF CRITICAL INPUTS

DIGITAL TRANSFORMATION – SERVICE STATION ARCHITECTURE

IMPLEMENTATION OF ARPEL GUIDELINES FOR GEOTECHNICAL CONTROL

STEAM NETWORK MANAGEMENT – VM-RTO IMPLEMENTATION

SLOP ELIMINATION IN REFINERY OPERATIONS

STEAM NETWORK MANAGEMENT IN REFINERIES

FACILITIES AND WORK METHODOLOGIES IN REFINERY LABORATORIES

TROUBLESHOOTING FOULING OF TRAYS IN TOPPING TOWERS

TRAINING STRUCTURE

AMMONIA INERTING IN AN ALKYLATION UNIT

HYDROCRACKER EQUIPMENT

EXPERIENCE IN THE USE OF ARPEL GUIDELINES FOR GEOTECHNICAL RISK CONTROL

GAS PIPELINE REPAIRS USING TYPE B SLEEVES

FACILITIES FOR SLOP ELIMINATION IN REFINERIES

EXPERIENCE IN CERTIFICATION OF CONTROL ROOM OPERATORS

RECURRENT FAILURES IN SULFUR RECOVERY UNITS (SRU)

ORGANIZATION AND OPERATION OF ENGINEERING DEPARTMENTS

EXPERIENCE IN TEMPORARY REPAIR OF AIR COOLER TUBES

PC3 COMPRESSOR WASHING

WASHING SYSTEM FOR RECYCLE COMPRESSORS IN PLATFORMING UNITS

BEST PRACTICES FOR DELTAVALVE INSTALLATION

BEST PRACTICES IN PERSONNEL TRAINING

STRATEGIC PLANNING TOPICS

REFINERY OPERATOR TRAINING

Gas and Energy



Natural Gas Stakeholder Dialogue Arpel, IGU, IAPG and OLADE

On September 8, the *Natural Gas Stakeholders' Dialogue Series Latin America and the Caribbean* took place in Buenos Aires, bringing together regional energy stakeholders in a closed, in-person meeting.

Jointly organized by Arpel, IAPG, IGU and OLADE, and supported by ACP, AGN, CBHE, IBP, Naturgas and IEA, the dialogue was held at La Rural fairgrounds in Buenos Aires within the framework of Argentina Oil & Gas Expo (AOG), one of the region's leading industry events.

Opening remarks were delivered by Carlos Garibaldi (Arpel), David Williams (OLADE), Luz Stella Murgas (IGU), and Ernesto López Anadón (IAPG), who highlighted the relevance of natural gas in the context of energy transition.



The event brought together **50 participants from 34 companies and institutions across 10 countries**, including representatives from Argentina, Brazil, Venezuela, Peru, Bolivia, Uruguay, Paraguay, Chile, Colombia, and an international organization.

The dialogue created a space for strategic exchange among operating companies, international organizations, industry associations, academia, and public authorities. The agenda was structured around six thematic sessions addressing the main challenges and opportunities for natural gas development in the region.

The first session focused on global gas market dynamics in a context of geopolitical uncertainty, based on the presentation of the 2025 Global Gas Report by IGU, with contributions from Luz Stella Murgas and expert Roberto Brandt. The discussion then turned to opportunities for regional gas integration and the development of infrastructure in the Southern Cone, with contributions from Esteban Kiper (OLADE), Pablo Frías (TGN), and Enrique Martínez (TGP).

The agenda also examined the role of natural gas in support of a lower-emissions energy transition, with presentations by Edmar Almeida (PUC Rio) and Camilo Morales (Naturgas). The role of liquefied natural gas (LNG) was also discussed. Perspectives on opportunities for export development and LNG's contribution to energy systems with a high share of renewable generation were presented by María Julia Aybar (Hunt Oil).

The second part of the day focused on prospects for integrating lower-emission gases, including biomethane and hydrogen, as well as their contribution to the energy transition, with participation from Edmar Almeida.

Finally, the role of natural gas in social development and poverty reduction was addressed through the case of

Colombia, presented by Juan Manuel Rojas (Promigas). The exchange helped identify opportunities, barriers, and recommendations to advance natural gas development in Latin America and the Caribbean, consolidating this regional dialogue space among key sector stakeholders.

The meeting concluded with a networking dinner aimed at building a shared and pragmatic vision on the role of natural gas in more sustainable energy systems and regional social development.

Arpel particularly highlighted the value of these dialogue and collaboration initiatives, as well as the support of the Argentine Institute of Oil and Gas (IAPG) as host of the event.



SUSTAINABLE MANAGEMENT

Sustainable management continued to strengthen its position as a key pillar of Arpel's agenda, promoting spaces for technical exchange, capacity building, and trend analysis on ESG-related matters.

Activities focused on supporting member companies in incorporating sustainability criteria into business management, with an emphasis on impact measurement, reporting quality, and reputational risk management.

Within this framework, a specialized workshop was held in Cali, Colombia, focused on reputational risks associated with greenwashing and the quality of sustainability reporting, within the context of the event **“Hechos de Sostenibilidad.”**

The meeting addressed communication practices related to sustainability and the importance of ensuring consistency and credibility in reported information.

In addition, technical exchange activities were held on governance trends, cumulative impact management, including seminars with MSCI references focused on ESG criteria and their impact on company evaluations by financial markets.



In partnership with Ipieca, Arpel continued the webinar series focused on implementing sustainability reporting standards, with emphasis on international standards and best practices. In addition, direct support was provided to member companies, including ANCAP, to strengthen their sustainability reporting and management capabilities.

As part of the annual agenda, the virtual session **“Looking Toward 2026”** was also held, focusing on emerging sustainability trends, the evolution of reporting standards, and corporate governance challenges.



RELATIONSHIP WITH STAKEHOLDERS

Throughout 2025, Arpel strengthened its institutional positioning and its network of relationships at both regional and international levels, promoting dialogue with key stakeholders in the energy sector, multilateral organizations, industry associations, academia, and specialized media.

Signing of agreements and strengthening of the institutional network SPE, IOGP, CBHE and OPITO

Throughout 2025, Arpel strengthened its role as a regional convener through the signing of strategic agreements with regional and international organizations across the energy sector.



In this context, agreements were signed with the **Society of Petroleum Engineers (SPE)**, the **International Association of Oil & Gas Producers (IOGP)**, and the **Cámara Boliviana de Hidrocarburos y Energía (CBHE)**, aimed at promoting knowledge exchange, technical development, and cooperation on priority topics for the industry.

Arpel also signed a **Memorandum of Understanding with OPITO**, a global organization specialized in training and safety standards for the energy industry. In partnership, joint activities were planned in areas such as global standards development, knowledge exchange, and collaboration opportunities, positioning Arpel as a bridge between Latin America and the Caribbean and the international energy community.

Arpel in the regional and global energy agenda

In this context, Arpel actively participated in the regional and global energy agenda, promoting dialogue with key stakeholders, multilateral organizations, academia, and the media.

The year began with participation in **CERAWeek 2025**, held in March in Houston, one of the leading global energy events, where key trends in energy transition, energy security, and market evolution were discussed.

In April, Arpel participated in the **International Gas & Energy Forum (IGEF)**, where Executive Secretary Carlos Garibaldi took part as a keynote speaker in a session dedicated to strategies for leading the energy transition in Latin America, sharing the regional perspective on the role of natural gas in this process.



That same month, the Association participated in the **Naturgas Congress**, in Barranquilla, Colombia, where challenges and opportunities for the development of natural gas in Latin America were discussed.



In May, Arpel participated in the **Madrid Energy Conference** organized by the **Institute of the Americas**.



Arpel at the 9th OPEC Seminar in Vienna: Energy needs and priorities of developing countries

Arpel was invited to participate in the 9th OPEC International Seminar held at Holburg Palace, Vienna, on July 9 and 10.

The OPEC International Seminar is considered one of the most important events in the energy industry, and its 2023 edition attracted more than 1,000 participants, including ministers from OPEC and non-OPEC countries, CEOs, heads of international organizations, and journalists.

Carlos Garibaldi, Executive Secretary of Arpel, returned to this important event after participating in 2023. This year, he took part in the panel entitled “Developing Countries’ Energy Needs and Priorities – Roads to Eradicate Energy Poverty.”

In his remarks, Garibaldi discussed Latin America and the Caribbean’s low contribution to greenhouse gas emissions, the impact of structural and energy poverty on the region’s socioeconomic development, and the resulting right of its countries to develop and monetize their natural resources and choose their own paths and pace to achieve just, equitable, and inclusive transitions.

According to the different scenarios projected for the coming decades, hydrocarbons will continue to be the backbone of energy security. For this reason, Garibaldi questioned initiatives to restrict capital flows to the oil and gas industry, the need to invest more in exploration, and the urgency to attract capital for all necessary forms of energy, mining, and infrastructure.

In closing, the Executive Secretary of Arpel mentioned as best practices having a clear State policy, making environmental permitting processes more efficient, strengthening regional integration systems, and improving public-private cooperation.

The panel also included Jassim Alshirawi, Secretary General of IEF; Omar Farouk Ibrahim, Secretary General of APPO; Angela Wilkinson, Secretary General and CEO of WEC; NJ Ayuk, Executive Chairman of the African Energy Chamber; Anibor Kragha, Executive Secretary of ARDA; and Husein Safar, Board Member of the Libyan NOC.

WATCH THE ARPEL EXECUTIVE SECRETARY’S SPEECH AT THE 9TH OPEC SEMINAR



In addition to providing institutional support and serving on the Organizing Committee, Arpel participated in the agenda of the **2025 Natural Gas Seminar of the Brazilian Petroleum and Gas Institute (IBP)**, held on May 14–15 in Rio de Janeiro.



In June, Arpel participated in **SEOGS 2025**, in Paramaribo, Suriname, where it presented the opportunities for natural gas development in the region.





At the end of July, Arpel participated in the **II Regional Methane Summit**, in Lima, Peru, and in September in the **XXII Colombian Oil, Gas and Energy Congress**, in Barranquilla, Colombia.

In October, Arpel participated in **OLADE Energy Week**, in Chile.

Towards the end of the year, the Association had a prominent participation in **Ingepet 2025**, in Lima, Peru.

Taken together, these participations not only helped showcase Arpel's technical work, but also enabled the identification of emerging trends, opportunities for cooperation, and the strengthening of the Association's role as a regional facilitator in the energy sector.



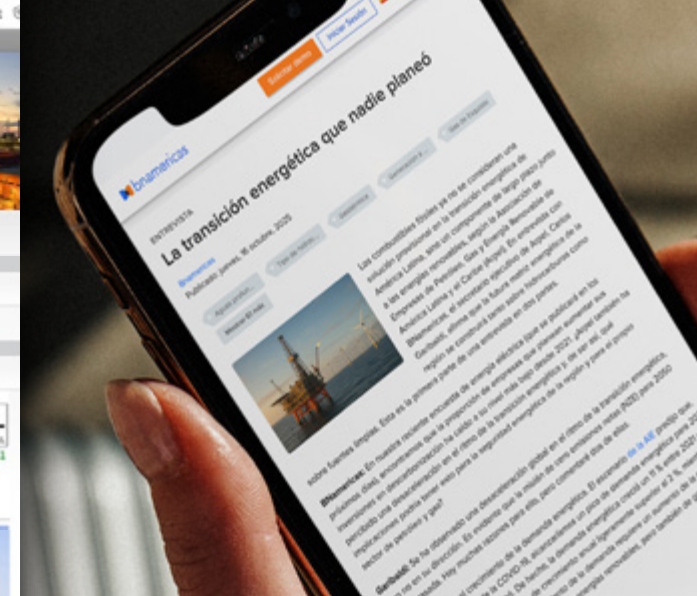
Media Coverage

During 2025, Arpel strengthened its presence in specialized media outlets across the region and internationally.

Interviews, articles, and editorial collaborations were managed to amplify institutional messages and increase the visibility of initiatives developed by the Association.

BNAMERICAS
EXPLORER
JPT / SPE
ENERGIMINAS

PETROLEUM
PETRONOTICIAS
PROACTIVO



Río de Janeiro será marco de la celebración del **60º aniversario** de Asociación de Empresas de Petróleo, Gas y Energía Renovable de América Latina y el Caribe (Arpel), organización fundada en 1965 en Río de Janeiro, Brasil, por ocho empresas estatales de petróleo: Ancap, PDVSA, Ecopetrol, ENAP, Petroperú, Petrobras, YPF e YPFB.

"Arpel fue creada como un vehículo de cooperación y asistencia recíproca entre empresas del sector, con el propósito principal de contribuir activamente a la integración y al desarrollo energético sostenible en la región. Llevamos 60 años fomentando la excelencia operativa y el impacto socioambiental positivo

Training

During 2025, Arpel developed training programs aimed at strengthening technical capacities in key areas of the energy industry through virtual, in-person, and in-company training initiatives tailored to the needs of member companies and organizations across the region.

6 TRAINING PROGRAMS
DELIVERED IN 2025

+170 PROFESSIONALS
TRAINED

PARTICIPATION OF OPERATING
COMPANIES, PUBLIC ORGANIZATIONS,
AND SERVICE PROVIDERS

ACTIVITIES DELIVERED IN IN-PERSON,
VIRTUAL, AND IN-COMPANY FORMATS

REGIONAL REACH WITH PARTICIPANTS
FROM DIFFERENT COUNTRIES ACROSS
LATIN AMERICA AND THE CARIBBEAN

Mechanical Facilities Integrity Management for YPFB

In March 2025, Arpel conducted an in-company technical workshop at YPFB facilities (Bolivia), focused on corrosion control and asset integrity management.

Delivered by Fabián Sánchez, the activity addressed key topics such as the evolution and implementation

of integrity management systems, applicable international standards, risk analysis, as well as corrosion fundamentals, monitoring, and control. The workshop brought together more than 30 YPFB professionals and combined technical content with practical cases and field experiences.



Executive Program in Industrial Safety Management

Arpel delivered the Executive Program in Industrial Safety Management for the oil and gas industry, developed jointly with CETAP.

The program, delivered virtually in synchronous format between May and October, brought together 31 professionals from industry companies and addressed key aspects for effective industrial safety management.



CURSO VIRTUAL
PROGRAMA EJECUTIVO DE GESTIÓN DE LA SEGURIDAD INDUSTRIAL PARA LA INDUSTRIA DEL PETRÓLEO Y GAS
PUNTOS FOCALES CLAVE PARA UNA GESTIÓN EXITOSA
CICLO 2025

INICIA 8 DE MAYO 2025 | Informes e inscripción: pegsiyog.cetapsa.com

Idioma: Español | Modalidad: Aula Virtual + streaming | Duración: 5 meses

El Programa Ejecutivo forma a líderes y profesionales de distintas áreas para integrar la seguridad como pilar de su desempeño y crecimiento profesional, dentro de la organización.

Sustainability and ESG Management at ANCAP

An in-company course on integrating sustainability into industry operations was delivered for ANCAP in virtual format, with the participation of 25 professionals. The training focused on strengthening the incorporation of environmental, social, and governance (ESG) criteria into business management.

Oil Spill Preparedness and Response RETOST™

Two editions of the course on evaluation of oil spill preparedness and response programs (RETOST™ V3.0) were delivered. An open edition, conducted virtually in synchronous format, brought together participants from organizations such as ANCAP, EP Petroecuador, Oleoducto Transandino, LAMOR, and Clean Pacific, promoting regional exchange of experiences. Additionally, an in-company edition was delivered for the DIMAR, with the participation of 35 professionals.

Energy Management

A course on energy management and ISO 50001 was delivered in asynchronous virtual format for professionals from different organizations across the regional energy sector.

Participating companies and institutions included Aguaytia Energy, CNPC Peru, MIMEN-DGH, Osinergmin, Olympic Peru, Perupetro, Pluspetrol Peru, and UNNA Energía, strengthening capabilities in energy efficiency and management systems.

Communications

in
11,162

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FOLLOWERS



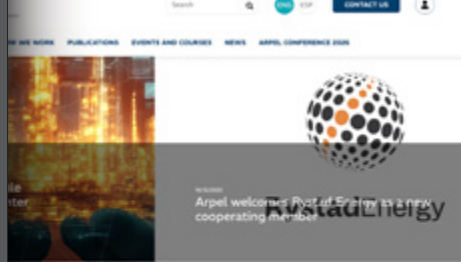
23,000

ARPEL NEWSLETTER
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IN 2025



Arpel welcomes Rystad Energy as a new cooperating member

Process Safety Fundamentals: Webinar with IOPG, BR, PAE, and ENAP

Unlocking the Potential of Vaca Muerta: An Exchange with the Venezuelan Association...

Arpel strengthens its commitment to the energy transition at COP30

Data-Driven Safety with PAE and the Institute for a Culture of Safety

Industrial Cybersecurity 4.0: Leveraging AI to Combat Real-Time Threats

RETOS™ presented at the International Maritime Emergency Conference

ANCAP hosts Extraordinary Assembly Meeting

Arpel at INGEPET 2025: Geopolitics and the Energy Transition, and the Role of Women in...

ENAP hosts workshop on Facilities Integrity Management

60 years of collaboration to build the energy future of Latin America and the...

Arpel's 60th Anniversary

Best Practices Workshop on Coker Units at AXION Energy's Campora Refinery

Arpel and CBHE sign memorandum to promote cooperation and sustainable energy...



Arpel Newsletter, Nº 40 Thursday, October 2, 2025

COP30: A milestone for Arpel and its member companies on the path to the Paris Agreement

by Irene Alfaro
Senior Managing Director
arpel

COP30, held in Belém, Brazil, marked a turning point for the region and Arpel, consolidating its role as a reference in the just energy transition and climate adaptation. For the first time in its history, Arpel organized an official side event together with Iapca and the United States Council for International Business (USCIB), entitled "Just Transition and Adaptation: A Global Business Dialogue." This meeting provided an opportunity to delve deeper into progress toward the Global Goal on Adaptation (GGA) and the UAE Just Transition Work Programme (JTWP), on the tenth anniversary of the Paris Agreement.

Regional leadership in a just transition
Arpel's active participation at COP30 not only demonstrated the association's commitment to the global climate agenda, but also positioned the region as a key player in shaping innovative and equitable solutions. The event underscored the need for cooperation across sectors and regions, highlighting that the energy transition and climate adaptation require private sector leadership, innovation, community engagement, and the development of green skills.

Complementarity between public and private policies, measuring progress through clear indicators, and promoting social dialogue were identified as key elements for an equitable transition. Arpel consolidated its position as a regional leader in energy justice and innovation, reaffirming its determination to work collaboratively and share best practices.

Looking ahead: challenges and opportunities
The work carried out at COP30 lays the foundations for the years ahead. Looking ahead to the 2026 conference, Arpel will continue to strengthen its strategic pillars, expand the scope of its initiatives, and promote the active engagement of its member companies in building a more resilient and sustainable region. The path toward achieving the goals of the Paris Agreement is challenging, but the experience of COP30 shows that, through strong partnerships and collective action, it is possible to move forward toward a just, inclusive, and sustainable energy transition.

Unlocking the Potential of Vaca Muerta: An Exchange with the Venezuelan Association of Gas Processors

In late November, the conference "Unlocking the Potential of Vaca Muerta" was held virtually. Jointly organized by the Venezuelan Association of Gas Processors (AVPG) and Arpel, it was primarily aimed at professionals from Venezuela's gas sector and the wider region. The event featured a presentation by Pablo Ancoedo, Arpel's Operations Manager, and was moderated by José Cuervo, a member of the AVPG Executive Committee.

Arpel
Asociación de Empresas de Petróleo, Gas y Energía Renovable de América Latina y el Caribe
and Gas - Montevideo, Uruguay • 9K followers • 2-10 employees

Arpel organizó junto a International Gas Union, IAPG y OLACDE - Organización Latinoamericana y Caribeña de Energía el Diálogo de Stakeholders del Gas Natural en América Latina y el Caribe, el cual tuvo lugar el día de la apertura de la RAGD en Buenos Aires.

La inauguración estuvo a cargo de Carlos Garibaldi, Secretario Ejecutivo de Arpel, Guido Mainini de OLACDE, Luis María Vargas Maya en representación de IGL y Ernesto López Anadón de IAPG.

El evento contó con la participación de profesionales de Argentina, Brasil, Venezuela, Perú, Bolivia, Uruguay, Paraguay, Chile y Colombia, quienes intercambiaron sobre las oportunidades del gas natural, cuáles son las barreras para su desarrollo y recomendaciones para superarlas.

Desde Arpel celebramos la realización de este espacio de diálogo de alcance regional, y agradecemos especialmente el apoyo del IAPG como anfitrión del evento.

#gas #argentina #petróleo #hidrocarburos #energía #latinoamérica

MÁS DIÁLOGO DE STAKEHOLDERS DEL GAS NATURAL EN AMÉRICA LATINA Y EL CARIBE

Reactions: Like, Comment, Report, Send

Most relevant: Elio Silva, M.D., Professor of Pathology at MD Anderson Cancer Center

Arpel
SERIE DE WEBINARIOS REGIONALES SOBRE METANO

En asociación con Arpel, ACP y AMEXHC, y con el apoyo de IOPG y OIEHC, Iglca está lanzando una serie de webinars que destacan la región de América Latina. Los webinars se organizarán durante tres semanas consecutivas entre agosto y septiembre.

El tercer webinar estará enfocado en el desarrollo de inventarios: elaboración de un inventario básico de metano, iniciativas regionales de inventario y experiencias con campañas de medición a nivel de sitio (nivel 4) para emisiones fugitivas de metano.

Quedantes:
• Luciana PIRIL, IOP
• Paola Alexandra Medina Gomez, Ecopetrol
• Gilmar Alves da Silva Junior, Petróleos

Modera: Adam Parcel (Iglca) - Chevron

Más interesante: <https://bit.ly/3y7yFM>

#Arpel #IOPG #LatinAmérica #Metano #Iniciativa AMEXHC + IOPG - The Oil & Gas Decarbonization Charter (ODGC) - Iglca

GeoPark, YPF and Pan American Energy form the Chairmanship and Vice-Chairmanship of Arpel's new Board of Directors

During 2025, Arpel carried out key governance activities aimed at strengthening its strategic direction and fostering the participation of its member companies.

Within this framework, the election of the Association's new Board of Directors took place, with GeoPark assuming the Chairmanship and YPF and Pan American Energy serving as Vice-Chairs, consolidating a leadership structure that reflects Arpel's diversity and regional scope.

Martín Terrado, Chief Operating Officer of GeoPark, will serve as the highest authority on the Board of Directors of Arpel until November 2026.

Meanwhile, the vice presidency held by YPF and Pan American Energy will be carried out by Juan Manuel Ardito, Vice President Operations Upstream at YPF, and Fernando Guzmán Cieri, Operation Environmental Executive Manager at PAE.

In addition, an Extraordinary Assembly of Representatives was held in Montevideo, Uruguay, with ANCAP as the host company. During the meeting, key topics related to the Association's institutional management and future direction were addressed.

ANCAP was represented by its Chairwoman, Cecilia San Román; General Manager Nicolás Spinelli; and Miguel Tato, Board Advisor.

Following the Assembly of Members, the panel "Global and Regional Trends" took place, moderated by Carlos Garibaldi, and featuring presentations by Jeremy Martin, Vice President of the Institute of the Americas, University of California San Diego; Francisco Monaldi, Director at the Baker Institute, Rice University; and Felipe Pérez, Research Director and Strategist at S&P Global.



Governance

Board of Directors

President:

GEOPARK

Vice Presidents:

PAE

YPF

Directors:

ANCAP

STAATSOLIE

S&P GLOBAL

TEMA

TGN

Fiscal Commission

President:

PETROPAR

Alternate Members:

PERÚ LNG / HUNT OIL

ROSEN

About us

Arpel Executive Secretariat



CARLOS GARIBALDI
Executive Secretary



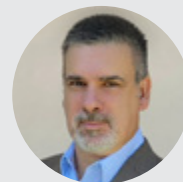
IRENE ALFARO
Energy Transitions



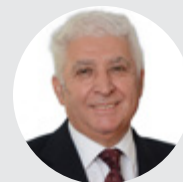
PABLO FERRAGUT
Gas and Energy
Human Talent



TIPHAÏNE LE MOENNER
Operational Excellence
Digital Transformation
Health, Safety, and Environment



PABLO AMOEDO
Upstream
Cybersecurity



RICARDO BUYATTI
Refining



FABIÁN SÁNCHEZ
Pipelines and Terminals



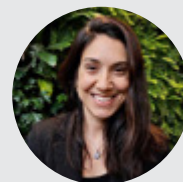
FERNANDO UBERTI
Administration
and Finance



MIGUEL MOYANO
Contingency
Planning



VERÓNICA FERREIRA
Courses and Events



MARÍA EUGENIA GUZMÁN
Institutional Relations
and Communications



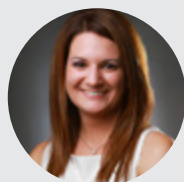
GABRIELA PRITSCH
Executive
Coordination



DIEGO MUSES
Information
technology



FERNANDA ARETA
Graphic Design



EVANGELINA MONTELONGO
Marketing

The deliverables produced during 2025 are available on Arpel's website (<https://www.arpel.org/>) and on its social media channels: YouTube, LinkedIn, X, and Instagram.

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 ARPEL

2025 Arpel Annual Report



INSTITUTIONAL

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ARPEL is a non-profit association gathering oil, gas and renewable energy sector companies and institutions in Latin America and the Caribbean. Founded in 1965 as a vehicle of cooperation and reciprocal assistance among sector companies, its main purpose is to actively contribute to industry integration and competitive growth, and to sustainable energy development in the region.

Its members currently operate in more than 30 countries in Latin America and the Caribbean, including national and international operating companies; technology, goods and services providers for the value chain, and national and international institutions in the sector.



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