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# Arpel Leadership Program

**M3** | MODULE 3

## **GAS AND RENEWABLE ENERGIES. THEIR ROLE AS ENERGY FUELS IN AN INCREASINGLY DECARBONIZED WORLD**

IN-PERSON COURSE  
Monterrey, Mexico  
2025

# Agenda



The energy transition is increasingly central to policymakers across the world. Decarbonization efforts span various parts of the energy landscape, with the power sector being a central focus of many actions that enable the energy transition. This module will explore the role of natural gas and renewables to date and examine the key trends that will keep them both as essential fuels of the global economy.

The first part of the module will provide a recap of the global picture and key trends, highlighting the role of renewables. It will take a special look at established and emerging technologies and their potential to disrupt established energy paths. The second day will focus on the natural gas sector and how various fuels compete and complement each other to varying degrees, especially in Latin America's power sector.

The module is complemented with interactive sessions where participants will understand the structural changes to Latin America's energy sector, assess risks, and develop strategies that different players must pursue in a changing environment. Participants will also engage in scenario exercises to fully understand driving forces and major uncertainties in the region, emphasizing technological factors to support business strategies and forward-thinking.

## DAY 1

# RENEWABLES, ENERGY MIX AND SCENARIOS

### SESSION 1

#### RENEWABLE ENERGY IN THE GLOBAL ENERGY MARKET

- Where do renewables fit in across global energy markets?
- How and where are renewables growing most rapidly?
- Renewable energy and the scenarios. What signposts are most important as we look forward?
- Policy and support mechanisms overview: what has worked and what hasn't. What are the hidden costs?
- Filtering out the noise. How much back-up do renewables really require? Is cheap natural gas a source of support or competition?
- Key technological advancements. What is holding back the market from expanding further? How competitive will green technologies be compared to conventional alternatives?

### SESSION 2

#### BREAK OUT SESSION

### SESSION 3

#### INNOVATION AND EMERGING TECHNOLOGIES

- Can renewables continue to grow without another breakthrough? Where are the limits to how much intermittent generation grids can integrate reliably?
- How will costs evolve? Can renewables continue to show annual cost declines and efficiency improvements? How far is battery storage from being an economic threat to natural gas for backup?
- How do smart grids, battery storage, and distributed generation change the equation?

### SESSION 4

#### BREAK OUT SESSION

DAY 2

# LATIN AMERICA'S ENERGY MIX, SCENARIOS AND THE ROLES OF RENEWABLES AND NATURAL GAS

## SESSION 1

### NATURAL GAS: BRIDGE FUEL OR A KEY CONTRIBUTOR?

- What is the role of natural gas in the future energy mix? Cheap, reliable, and less carbon intensive power, or flexible backup to fuel renewables expansion?
- Scenarios and global gas markets. What are the key signposts for the gas industry as we look out over the next 20 years.
- From rigid and regional to local and flexible. How is LNG changing the power market?
- Cheap, clean, and flexible. Natural gas' unique attributes and why gas is essential for future power grids.
- Key technological advancements. Can natural gas keep up?

## SESSION 2

### BREAK OUT SESSION

## SESSION 3

### LATIN AMERICA'S PATH TO THE FUTURE: THE ROLES OF RENEWABLES AND NATURAL GAS

For this session, we will go into a deeper dive of scenarios and how renewables and natural gas are playing out in selected countries of Latin America

## SESSION 4

### BREAK OUT SESSION

DAY 3

# TECHNICAL VISIT

## INSTRUCTORS

**S&P Global**  
Commodity Insights



**David Crisostomo**

Director Latin America  
Gas & Power



**Marcela Rosas**

Director for the Latin America  
Gas, Power and Climate  
Solutions practice



**Emanuel Simon**

Director of the Latin America  
Power and Renewables

## David Crisostomo

David Crisostomo is a Director for the Latin America Climate and Sustainability team at S&P Global Commodity Insights. He is an expert in the Mexican gas and power markets with prior experience in Andean power markets as well. His research and analysis include gas and electricity market fundamentals, modelling, regulatory framework analysis and implications for business opportunities. Mr. Crisostomo's research has included natural gas transportation studies, distributed power potential in Mexico and Latin America, power generation and transmission investment opportunities, asset valuations, and the analysis of operational and investment strategies for utilities, financial institutions and other market participants. Before joining IHS Markit (S&P Global Commodity Insights) in 2011, he was at Iberdrola Spain, where he developed a power dispatch tool for the Spanish market, and prior to Iberdrola, he worked at ABB.

## Marcela Rosas

Marcela Rosas is a Director for the Latin America Gas, Power and Climate Solutions practice. She is an expert in fundamental analysis and outlooks for the largest natural gas markets in the Americas, including scenario development. Her experience includes running gas simulation models that provide balanced market projections for gas demand, pipeline flows (and prices in the case of the United States and Canada). She has covered the North American gas markets, and currently covers the Andean Region and Southern Cone markets.

Ms. Rosas has contributed regularly to service reports for Global gas and LNG services, to consulting projects and studies. Her research has included reports on the drivers of natural gas price volatility and fundamentals, on LNG arbitrage between markets in the Pacific and the Atlantic Basins, on North American LNG exports, on the effect of global gas prices on different markets, and more recently on the potential for Argentina gas to reach Brazil.

Ms. Rosas' past professional experience includes project logistics, bidding, and sales for the pipeline inspection industry. She holds a BA from Mexico Autonomous Institute of Technology and an MS from the Colorado School of Mines and the French Petroleum Institute

## Emanuel Simon

Emanuel Simon is a Director of the Latin America Power and Renewables team at S&P Global Commodity Insights. He has more than 15 years of experience in energy markets in Latin America, with roles spanning from lead project engineer to market advisor in the power sector.

Prior to joining S&P Global, Simon was with Siemens, where he worked with engineering design for the power sector, the oil and gas industry, and energy efficiency projects.

He also held a position as a business development engineer, responsible for pursuing new business initiatives across the company's portfolio of products and services.

Simon holds a Bachelor of Science in Electrical Engineering from Federal University of Santa Catarina, has completed postgraduate studies in engineering at Federal University of Rio de Janeiro (UFRJ), and holds a Master of Science from UFRJ.



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