Argentina Update to the Global Methane Initiative (GMI) Oil & Gas (O&G) Subcommittee

April 18, 2018
Argentina’s sector update

Natural Gas Production
1,588 BCF

Oil Production
186,858 kboe

Biofuels Production
0,9+ Mm3 of Bioethanol (corn & sugar cane)
2,6+ M Tonnes of biodiesel (soybean)

Significant role of Natural Gas & Oil in Energy Matrix
Argentina’s sector update

- 8 refineries with 627 kbbl/d capacity
- 4,900+ gas stations
- 15,989+ Km of gas pipelines and 1,160+ Km of oil pipelines
- 2,542 MCF/d capacity of natural gas import
- 1,377 MCF/d capacity in 2 LNG FRSUs
- 1,165 MCF/d capacity natural gas export

Large shale gas (2° world) & oil (4° world resources)

98.8%+ of electricity coverage & 8.8+ MM households with natural gas
Argentina’s sector update

Argentina’s O&G Historical Production

Ministerio de Energía y Minería
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Global Methane Initiative
Argentina’s sector update

Importación y Exportación de Petróleo

Importación y Exportación de Gas Natural

Fuente: SIPG - IAPG

Global Methane Initiative
Argentina’s sector update

- 24 Sedimentary basins
- 5 Productive Basins
Methane emissions & fugitive emissions

Country National Communication

Ministerio de Energía y Minería
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Global Methane Initiative
Argentina - O&G REGULATORY FRAMEWORK

Law 17.319 (1967) Hydrocarbons Law
- Main piece of legislation governing exploration and production activities at federal level.

Federal Constitution
- Amended in 1994
- Natural resources, within in whose territories they are located.

- Jurisdiction over all oil and gas fields were transferred by the state to the provinces where the fields are located
- Continental shelf and beyond the 12 miles remain the property of the state and are subject to exclusive federal jurisdiction

Law 27.007 (2015)
- Responded to unconventional O&G challenges
- Extended time periods for exploration permits plus the extension of exploitation concessions for offshore activities or when unconventional hydrocarbons are involved.
- The provinces and the Secretary of Energy may establish a common type of “concession contract” to standardize the conditions for investors in each province
- All areas unassigned when the law passed should be leased through public bids to third parties.
Regulatory framework

At federal level, the Energy Secretariat has enacted Resolutions No. 263/93 and No. 143/98 that forbid venting and set out gas venting exceptions and requirements.

Some provinces have issued specific flare and vent rules, other provinces apply National’s standards set out in the above resolutions.
Challenges to emission reduction

- Weak prices
- Regulatory framework focus on sanctions
- Provinces control capacity
- Need for investment in exploration and production (shale; mature fields)
- Data gathering and validation
O&G Project Outlook

- GoA Mains goals:
  - Data Collection & analysis
  - Identified associated gas monetization projects and efficiency gaps

- Approaches to overcoming challenges
  - Energy pricing reform
  - Capacity building
    - New Undersecretary of Energy Efficiency
    - Satellite Flaring Detection Program
  - Partnership with other stakeholders
Program for Thermal Anomalies - MINEM

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Las imágenes superior e inferior, corresponden a zonas offshore donde se han detectado Anomalías Térmicas, posibles ventanas quemando gas, mediante el uso de imágenes infrarrojas y térmicas provenientes de los sensores OLS y TIRS montados en el satélite Landsat 8.
Contact Information & webs

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- Minem Open Data:  www.datos.minem.gob.ar
- Minem’s Satellite Detection Flaring Program
  www.sig.se.gob.ar/visor/timeline_venteos/venteos.php
- GHG National Inventory:
  www.inventariogegeiambiente.gob.ar