

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

April 18, 2018



Ministerio de Energía y Minería
Presidencia de la Nación

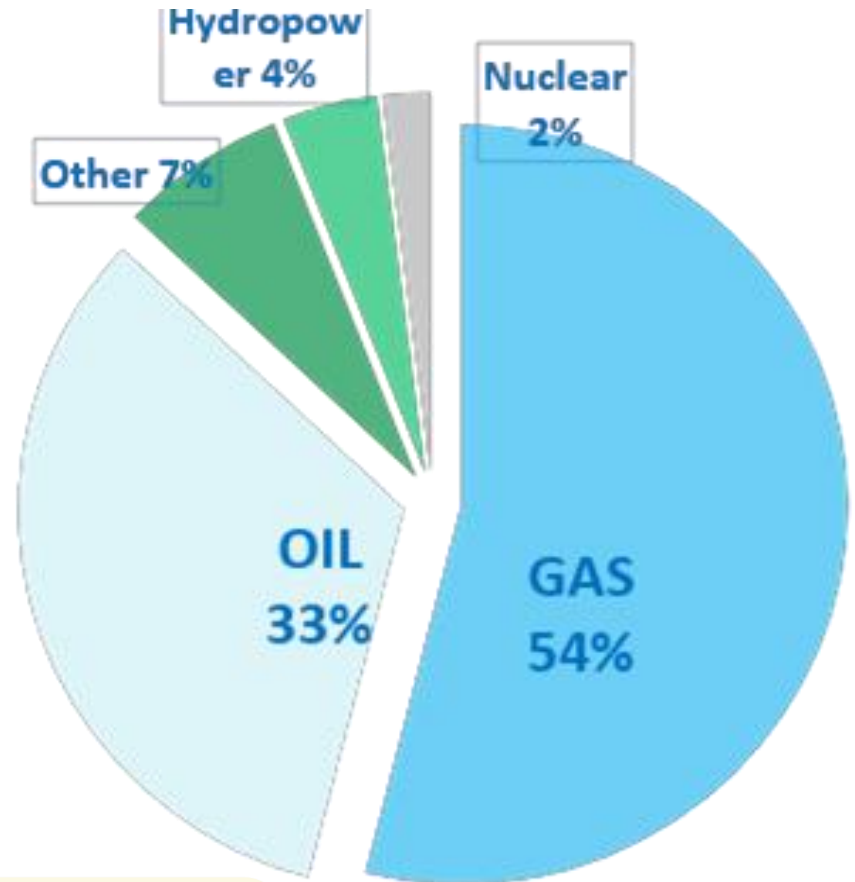


Argentina's sector update

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



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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



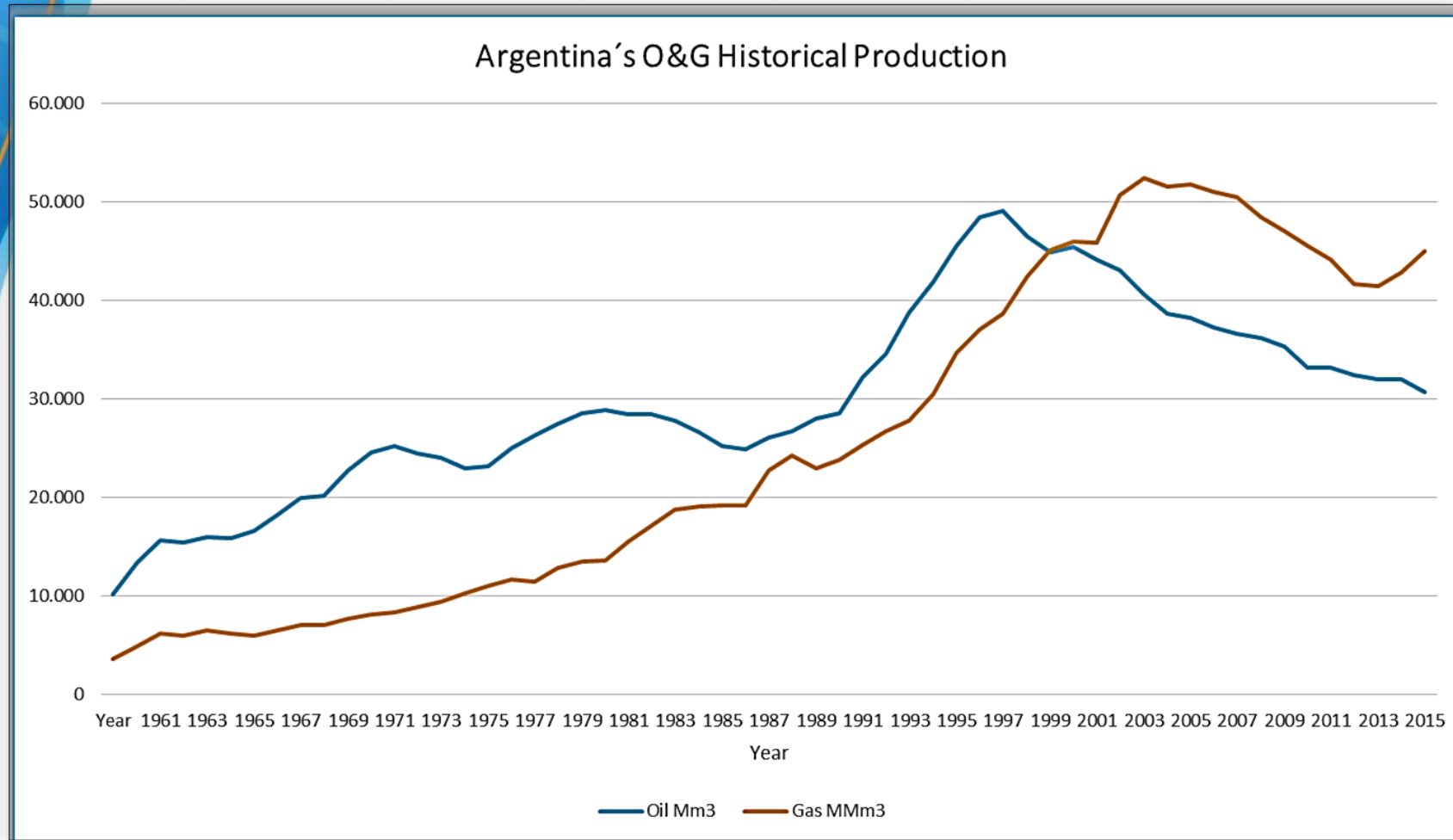
1,377 MCF/d capacity in 2 LNG FRSUs

1,165 MCF/d capacity natural gas export

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

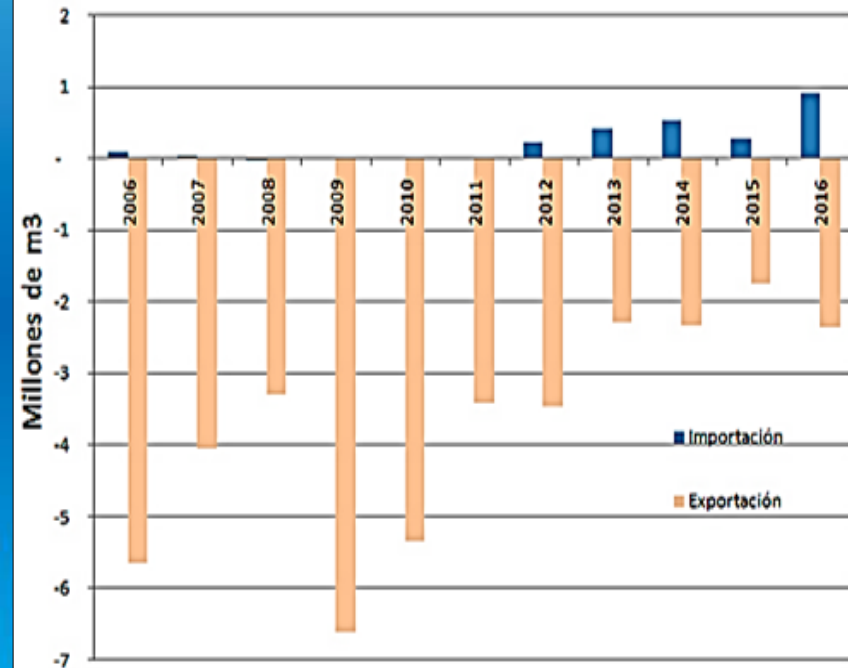
98,8%+ of electricity coverage & 8.8+ MM households with natural gas

Argentina's sector update



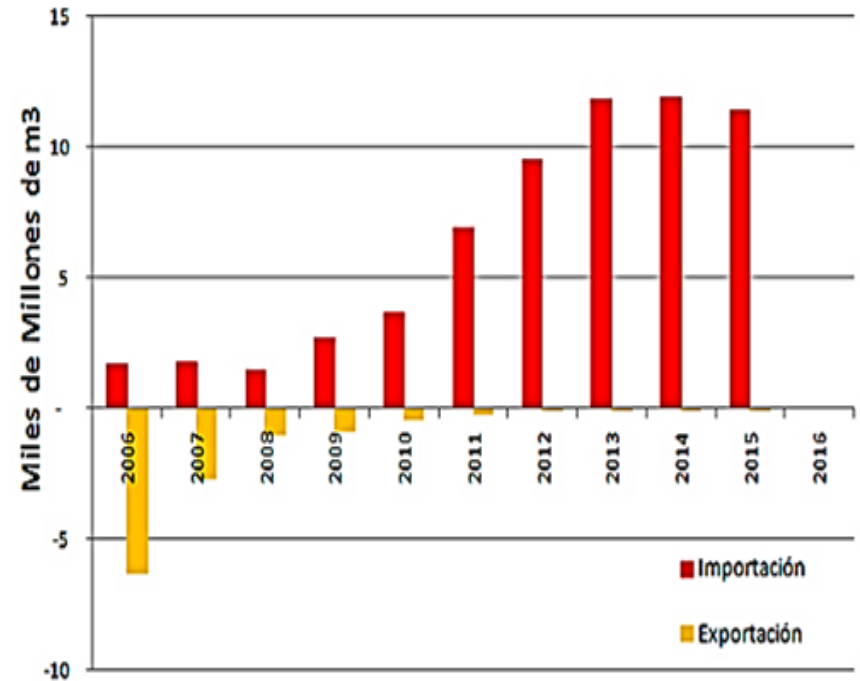
Argentina's sector update

Importación y Exportación de Petróleo



Fuente: SIPG - IAPG

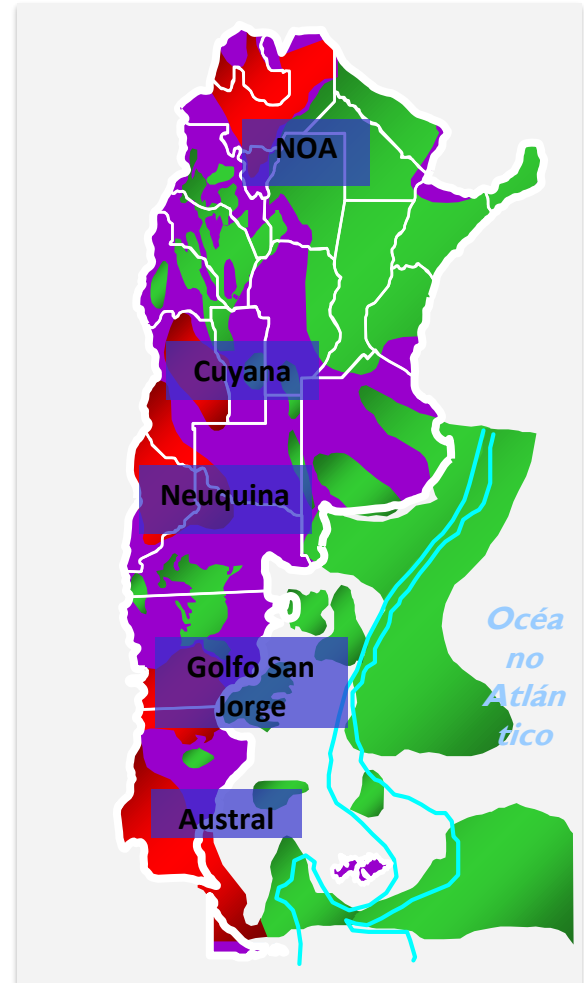
Importación y Exportación de Gas Natural



Fuente: SIPG - IAPG

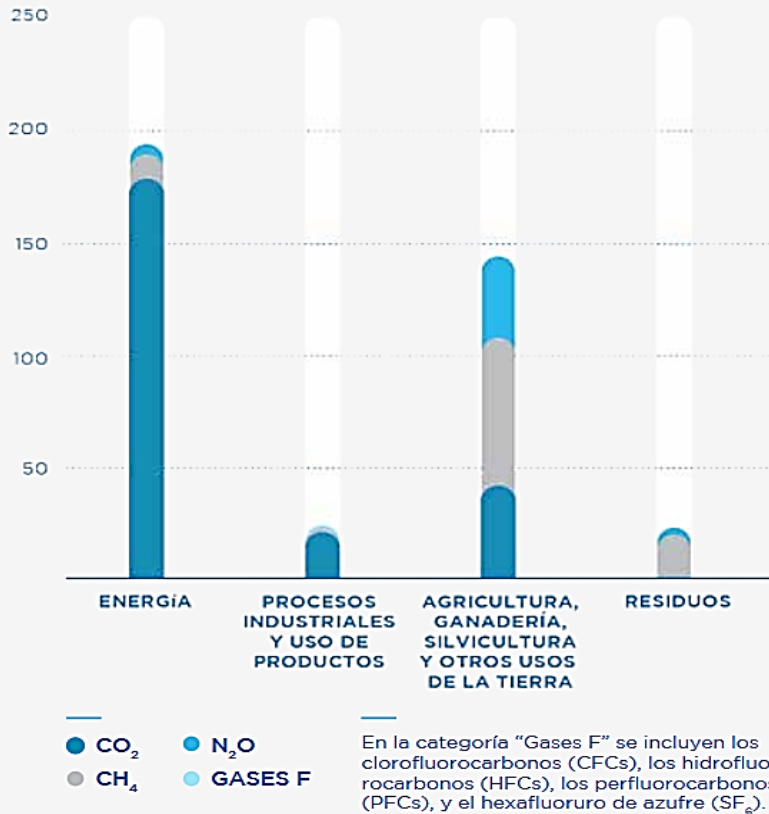
Argentina's sector update

- 24 Sedimentary basins
- 5 Productive Basins

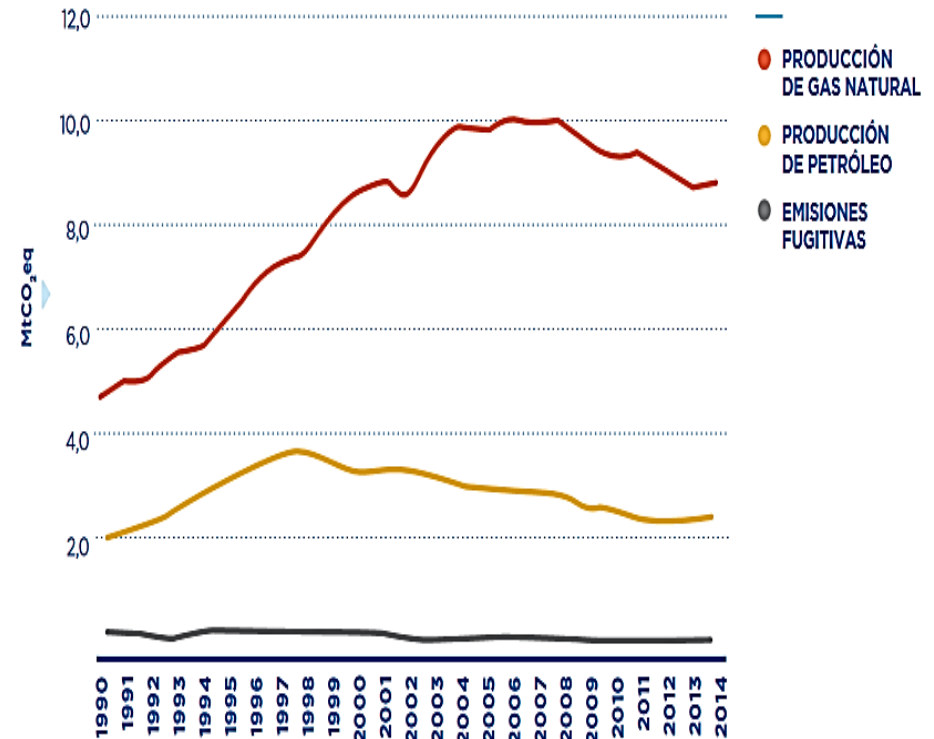


Methane emissions & fugitive emissions

Gases por sector (MtCO₂eq)



Emisiones fugitivas



Country National Communication



Ministerio de Energía y Minería
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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.

Law 26.197 (2006)

- **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

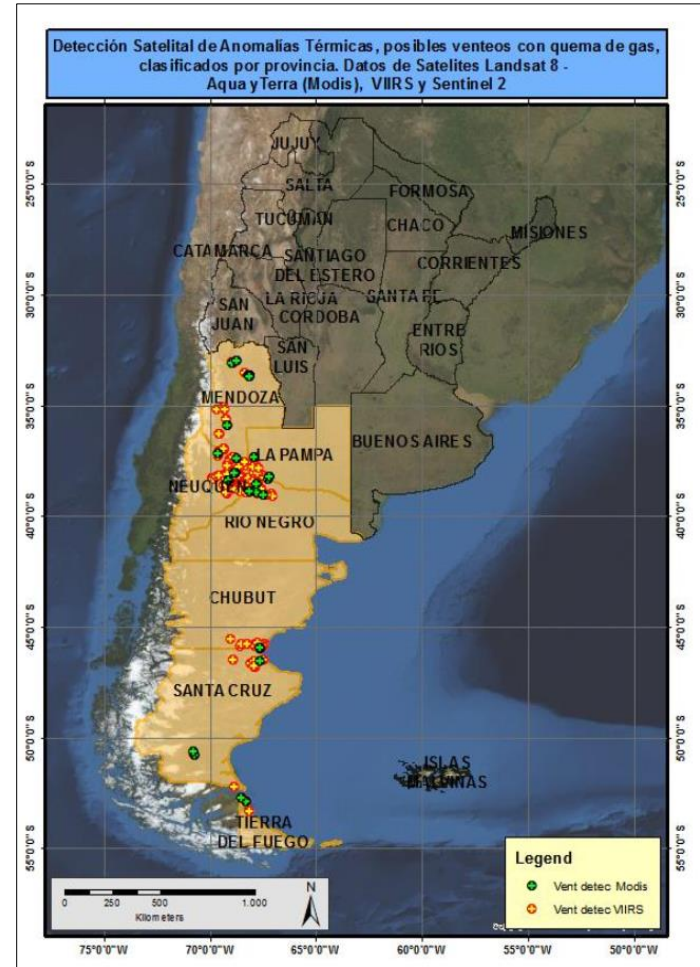
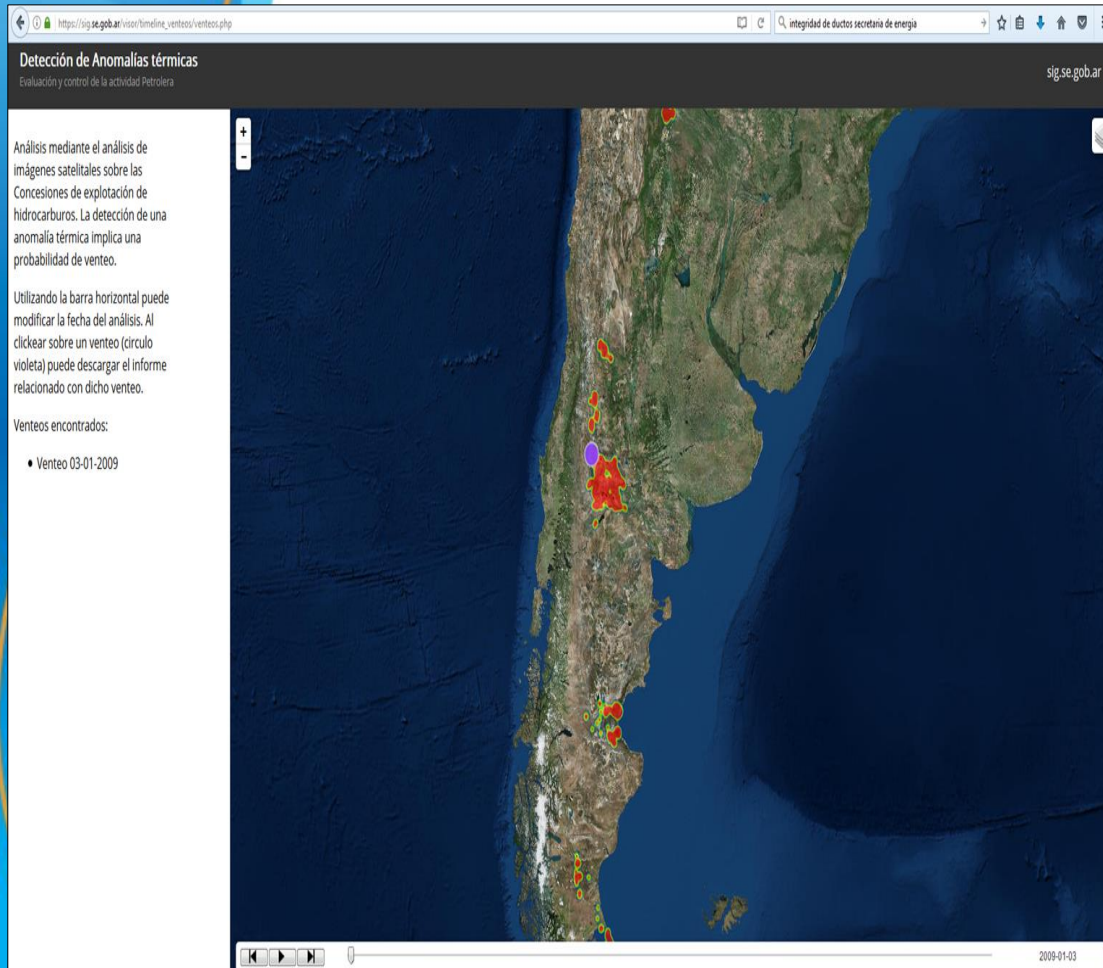


O&G Project Outlook

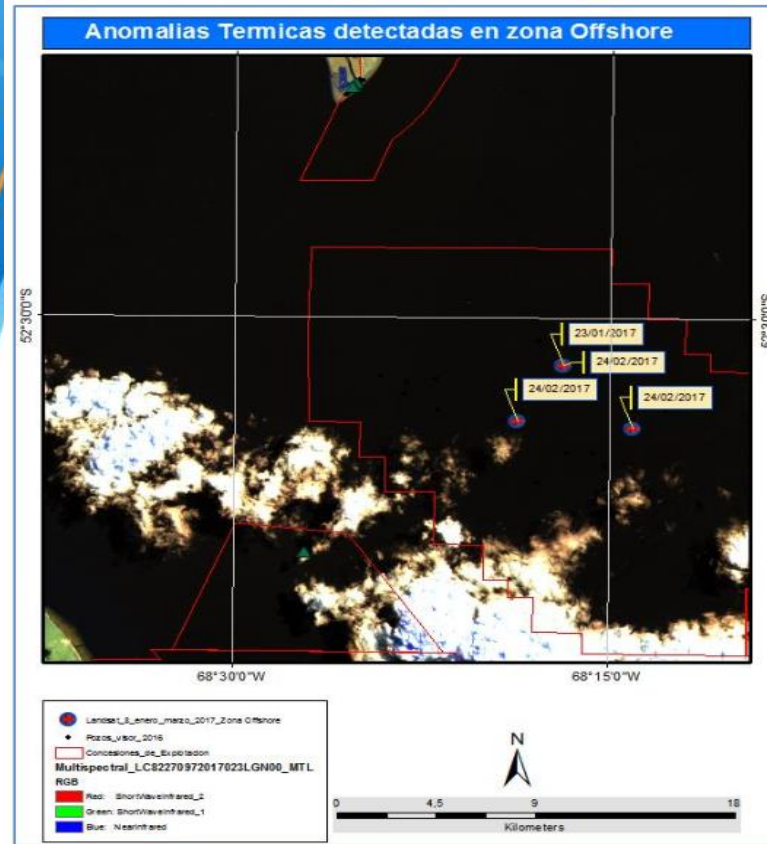
- GoA Mains goals:
 - Data Collection & analysis
 - Identified associated gas monetization projects and efficiency gaps
- Approaches to overcoming challenges
 - Energy pricing reform
 - Capacity building
 - New Undersecretary of Energy Efficiency
 - Satellite Flaring Detection Program
 - Partnership with other stakeholders



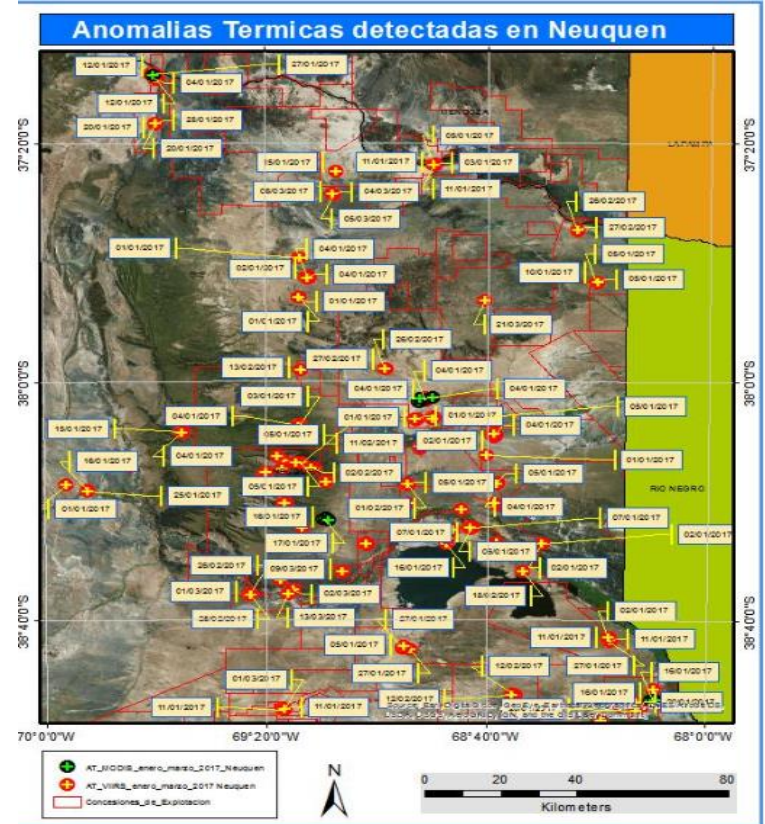
Program for Thermal Anomalies -MINEM



Program for Thermal Anomalies - MINEM



Las imágenes superior e inferior, corresponden a zonas offshore donde se han detectaron Anomalías Térmicas, posibles venteos quemando gas, mediante el uso de imágenes infrarrojas y térmicas provenientes de los sensores OLS y TIRS montados en el satélite Landsat 8



Las imágenes superiores, corresponden a zonas con anomalías térmicas, posibles venteos quemando gas, detectados dentro de las concesiones de explotación de la provincia de Neuquen. En este caso las detecciones fueron realizadas por, VIIRS y MODIS y muchas de las mismas en sitios donde ya se han detectado con anterioridad.



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.inventariogeambiente.gob.ar

