

OVERVIEW OF THE CHILEAN NATURAL GAS INDUSTRY



ABOUT US // NATURAL GAS ASSOCIATION CHILE

We are a trade association that was formed in 2002, **to foster the development of the natural gas industry** in Chile, promote the use of this energy resource in our country and be the link between the private sector and the authorities.

Today the Association represents **10 companies** dedicated to the importation, storage and regasification of LNG, and the transportation, marketing and distribution of natural gas.

AGN has been a member of the IGU, representing Chile as a Charter Member, since 2014.

www.agnchile.cl













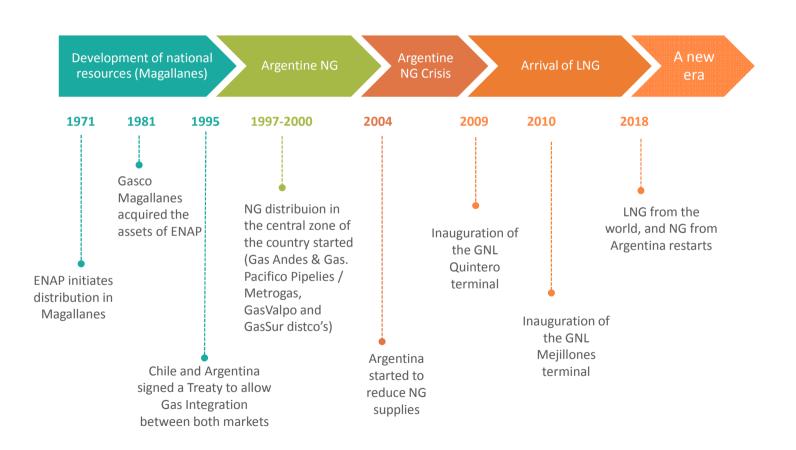








A BRIEF HISTORY // THE CHILEAN NG INDUSTRY



THE NATURAL GAS INDUSTRY IN CHILE

Total investment of more than **US\$ 12 billion** across the whole value chain





CONSUMPTION

- 930,000 residential, commercial & industrial clients
- 15 Generation Plants (10 Combined Cycle & 5 Open Cycle)
- Methanex
- Refineries
- Other large industrial clients



DISTRIBUTION

Metrogas GasValpo

- Gas Sur
- Gasco Magallanes
- Intergas
- Lipigas

COMMERCIALISATION OF LNG BY TRUCKS

Engie Stream Solutions Chile Metrogas

- Lipigas
- ENEL Chile

WHOLESALERS

Agesa GNL Chile INNERGY

- **ENAP**
- ENEL Chile
- Engie Gas Chile

THE CHILEAN GAS MARKET // MAIN CHARACTERISTICS

Most of the NG consumed in Chile between 1997 and 2009 was imported from Argentina through bi-national pipelines, developed by the private sector (All the investment in the gas industry has come from the private sector).

After the 2004 energy crisis in Argentina, gas exports from that country to Chile were rapidly reduced. As a consequence, the gas demand shrank by two-thirds from 2004 to 2008.

Following the crisis, a group of public and private Chilean companies worked together to build LNG terminals to avoid dependence on Argentina.

GNL Quintero was built in the Valparaiso Region and GNL Mejillones in the Antofagasta Region. Plans exist to expand both terminals.

The impulse for a greater presence of natural gas in our energy matrix has been slowed in recent years , and faces a series of barriers in the different segments in which it participates.



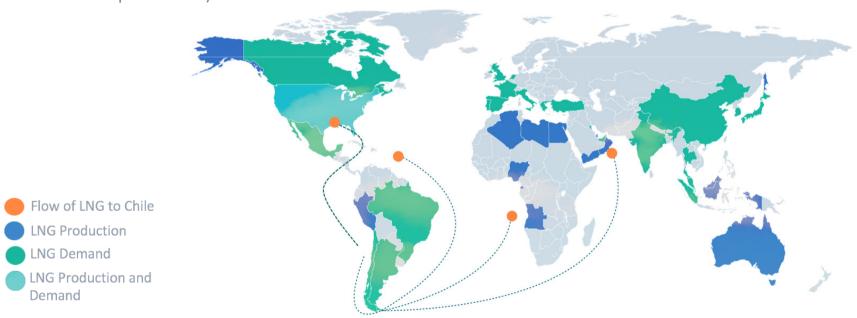


CHILE // IN THE GLOBAL LNG MARKET

LNG has mainly been imported from Trinidad and Tobago, although the percentage has decreased in recent years (92% in 2015 vs. 58% in 2018, of the total of imported LNG).

However, following the development of US Gulf Coast LNG exports, imports from that country have became more relevant (25% in 2018).

The rest came from Equatorial Guinea (17.4% in 2018). Some cargoes from Qatar have come in the last years.



THE "NEW" NATURAL GAS INTEGRATION WITH ARGENTINA

SINCE 2016

After several years, Chile and Argentina resume the exchange of natural gas. The countries state-owned production companies (ENAP and ENARSA), agreed to supply natural gas from Chile to Argentina during the "winter" season (May-September), and enable swap exchanges.

IN DECEMBER 2017

Chile and Argentina signed a new agreement enabling the exchange of energy (through swaps) between both countries.

IN AUGUST 2018

Argentina authorized the sale, export, import and transportation of natural gas between both countries, without the obligation to return such volumes.

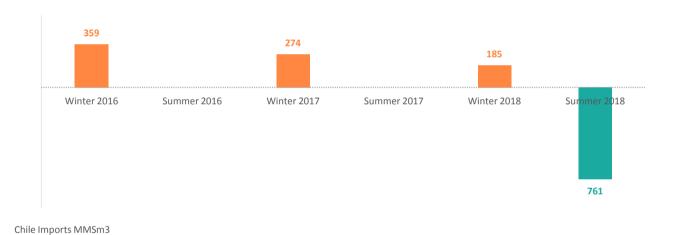
So far, these operations have been limited to interruptible contracts during the "summer" season (October-April).

Last summer an average of **4,19 MMs/m3 per day** was imported.



THE "NEW" ENERGY INTERGRATION // WITH ARGENTINA

Chile Exports MMSm3 NG Exports/Imports between Chile and Argentina 2016-2018 (MMSm3)

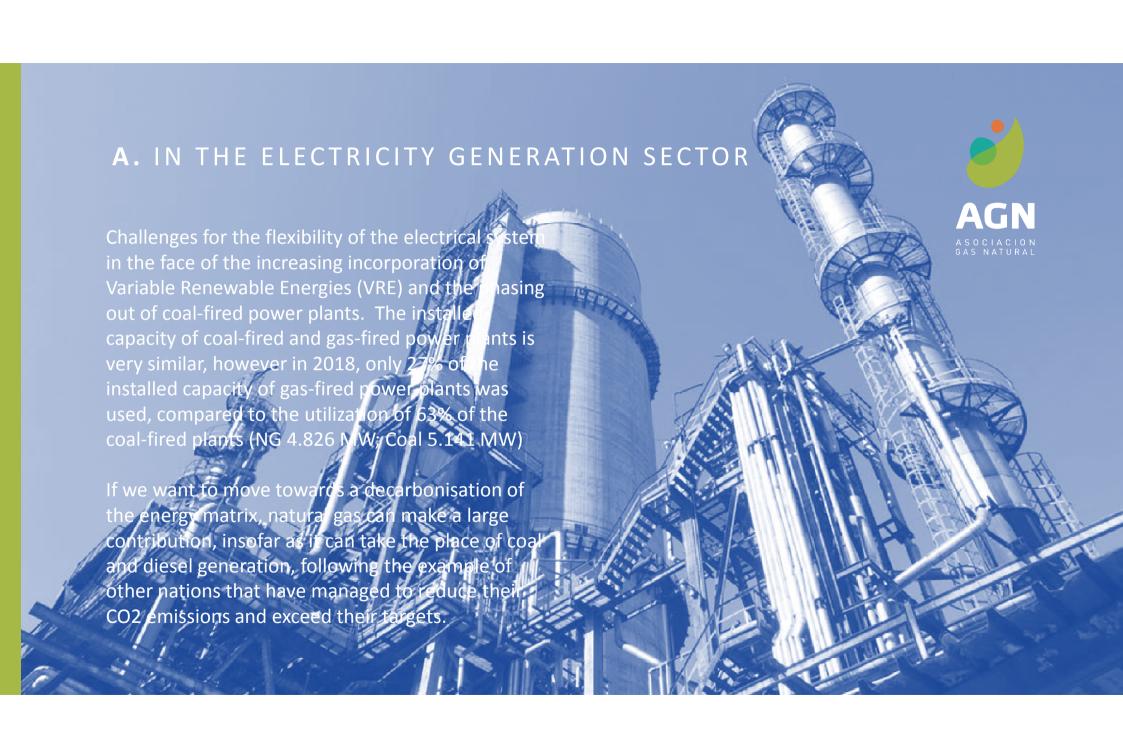


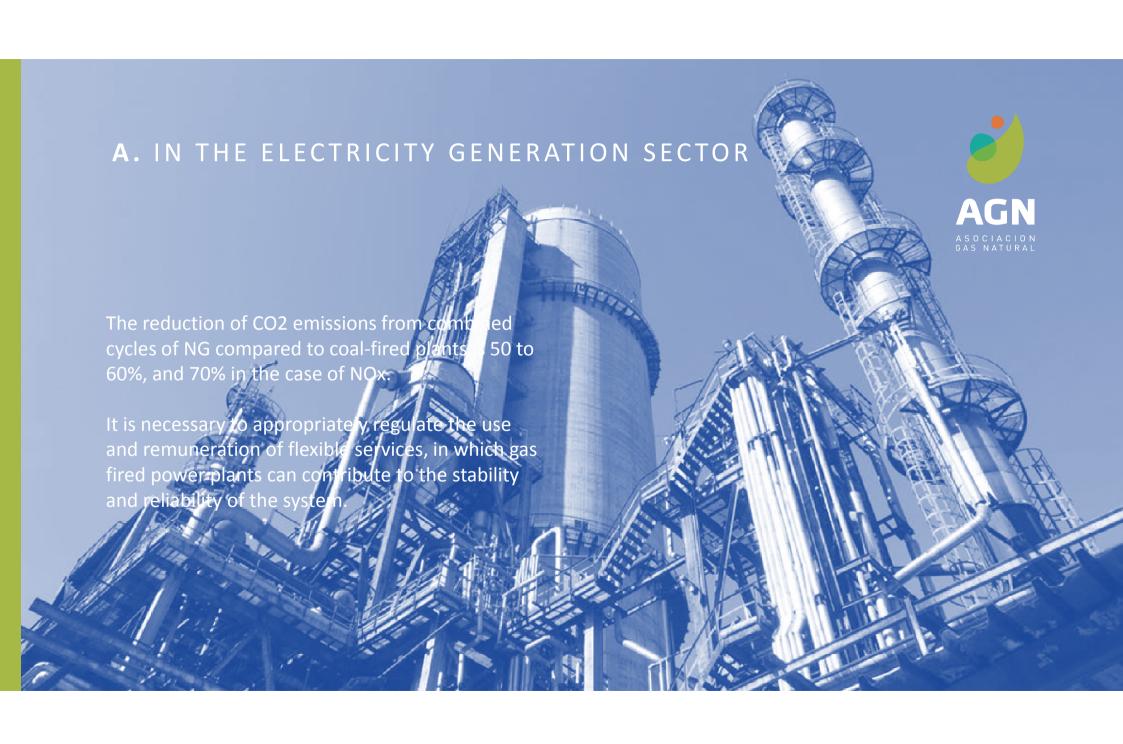
Winter season: May to September Summer season: October to April

Source: Enargas



PRINCIPAL CHALLENGES AND OPPORTUNITIES IN THE CHILEAN NATURAL GAS SECTOR















In Chile, one of the core concepts of the Roadman, in the 2050 Energy Policy is to encourage the partition of the energy matrix, assigning role to natural gas.

At AGN we are convinced that it is possible to obtain important social and economic benefits with a greater use of natural gas, especially in the regions with increasing environmental problems. The country has a reliable supply of LNG that provides the security the system needs, and an infrastructure (including cross-border gas pipelines with Argentina) that would allow the current consumption levels of natural gas to be increased.

Air pollution is the biggest environmental risk to health. In line with the UN 2030 agenda, air quality should be an integral part of the environmental discussions taking place at COP 25.







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