

7th APEC Oil and Gas Security Network Forum

# Peru: Update on Oil and Gas Security

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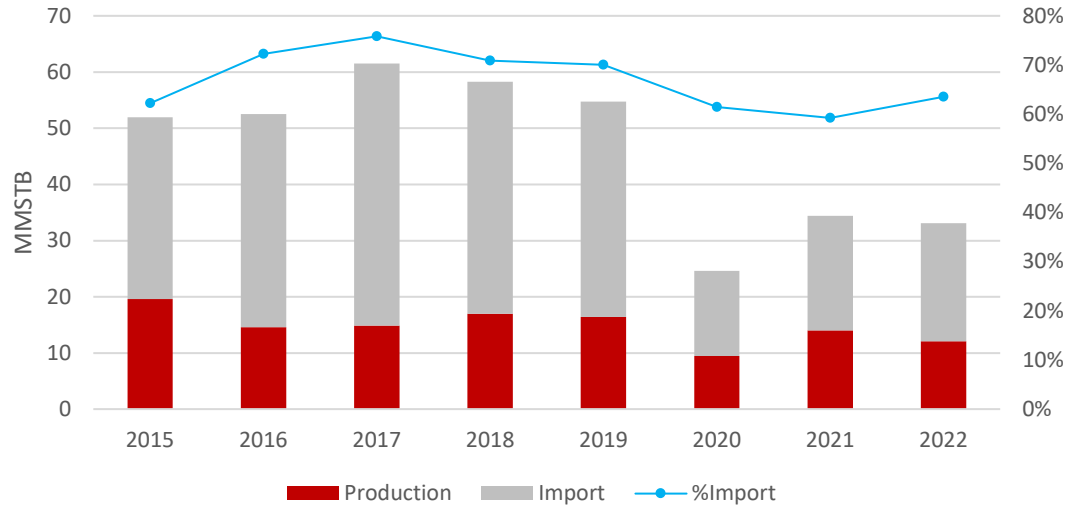
Osaka, Japan  
March 2024

# CONTENT

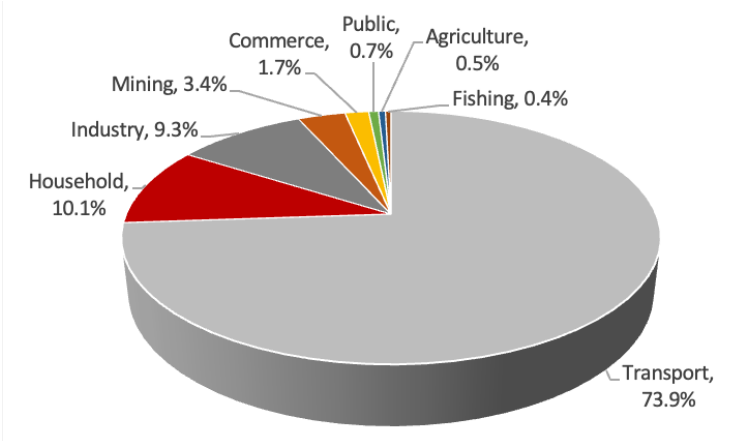
- Liquid Hydrocarbons
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# Liquid Hydrocarbons Supply and Demand

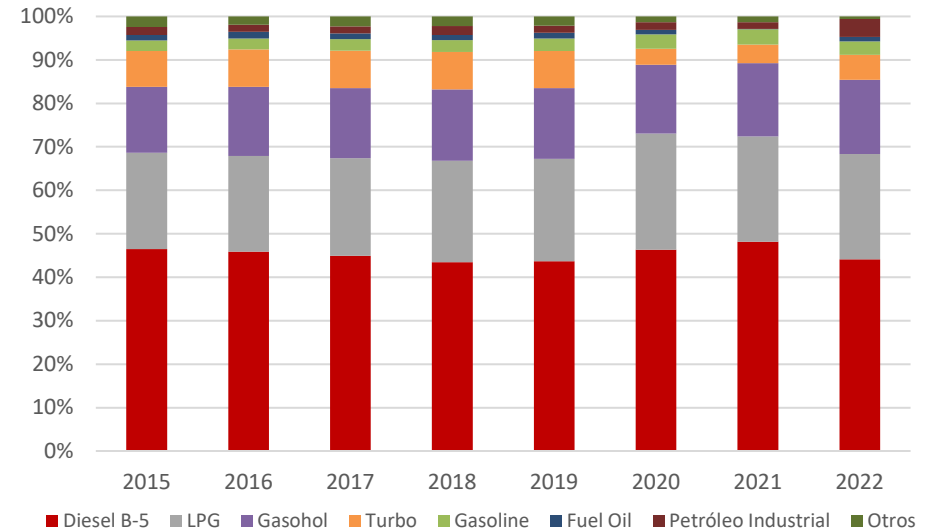
## Oil Supply



## Liquid Hydrocarbons Demand by sector



## Liquid Hydrocarbons Demand by product



Recently, oil imports represent more than 60% of processed crude oil.  
 Transportation sector accounts for the greater part of total oil consumption in Peru.  
 Land transport (highest consumption) depends mainly on Diesel B5 (45%).

# Natural Gas Supply and Demand

## NG Supply

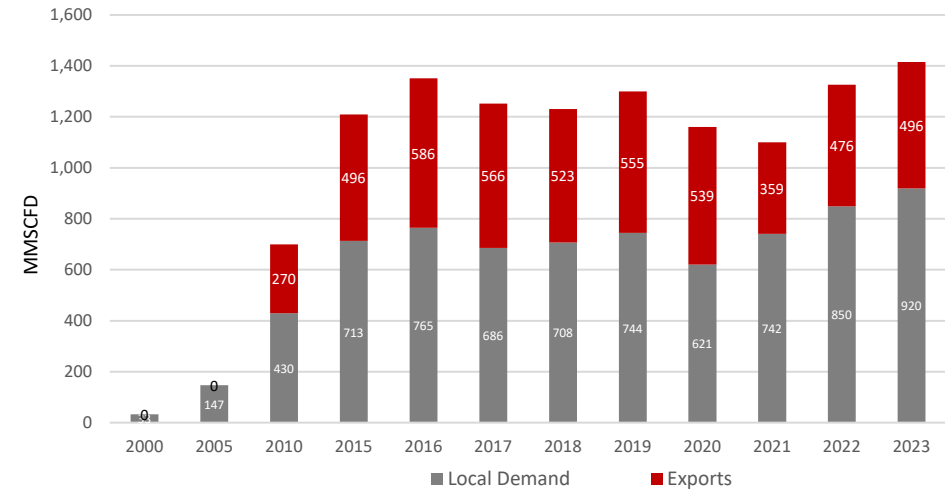
Year	NG reserves and resources - TCF					
	Proved	Probable	Possible	TOTAL	Contingent	Prospective
<b>2021</b>	9.26	1.72	1.38	12.35	4.73	32.05
<b>2022</b>	8.39	1.35	1.12	10.86	4.39	34.25
<b>Variation</b>	<b>-0.87</b>	<b>-0.37</b>	<b>-0.26</b>	<b>-1.49</b>	<b>-0.34</b>	<b>2.20</b>
<b>% Variation</b>	<b>9.36%</b>	<b>21.65%</b>	<b>18.53%</b>	<b>12.09%</b>	<b>7.09%</b>	<b>-6.87%</b>

Source: National Energy Balance 2022

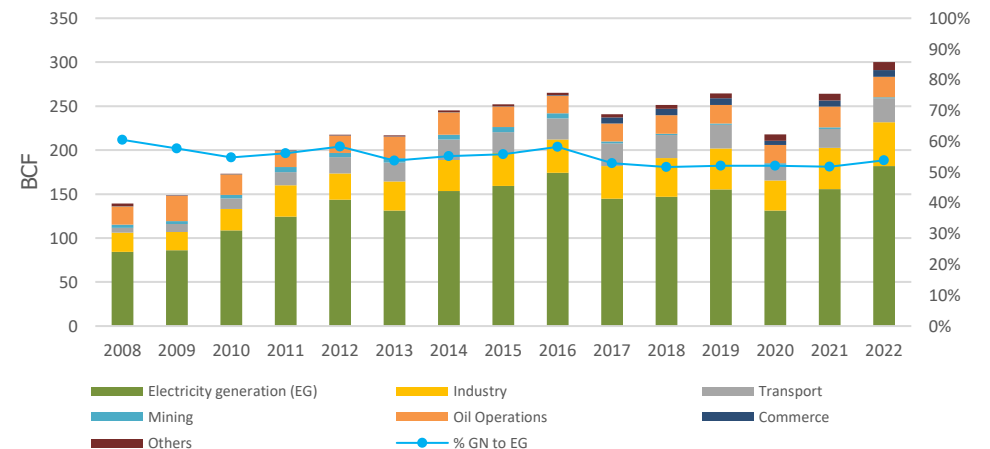
NG from the Camisea field accounts for approx. 90% of total country's demand. In recent years, local demand has increased (48%), while exports remain the same.

Since the start of NG production from Camisea field (2004), Main destination of domestic NG is the electricity sector (currently 54%), followed by the industrial (15%) and transportation (8%) sectors.

## Local Demand and Exports



## NG Demand by sector



# Infrastructure in the Hydrocarbons Sector

## Processing Capacity

Refinery	Processing Capacity (MSTBD )
La Pampilla	110.0
Talara	95.0
Iquitos	12.0
Conchán	15.5
<b>TOTAL</b>	<b>232.5</b>



## NG Infrastructure

Operating Units	Installed capacity
Planta de Separación de Gas Natural – GMP	40 MMSCFD
Planta de Fraccionamiento de LGN – GMP	3,0 MSTBD
Planta Criogénica de Gas Natural	50 MMSCFD
Planta de Separación de Gas Natural – Curimaná	65 MMSCFD
Planta de Fraccionamiento de LGN – Yarinacocha	4,4 MSTBD
Planta de Separación de Gas Natural – Malvinas	1 680 MMSCFD
Planta de Fraccionamiento de Líquidos de Gas Natural (LGN) – Pisco	120 MSTBD
Planta de Licuefacción de Gas Natural – Pampa Melchorita	625 MMSCFD

## NG Pipeline

Infraestructura	Length	Installed capacity
Ducto (Casita - E. Olympic)	33 km	11 MMSCFD
Ducto (Aguaytía - CT Aguaytía)	146 km	55 MMSCFD
Ducto principal (Camisea - Lurín)	729 km	920 MMSCFD
Loop Costa I (Melchorita - Chilca)	105 km	
Loop Costa II (Chilca - City Gate Lurín)	31km	
Ducto de derivación (KP- 277 Ducto principal - City Gate Huamanga)	18 km	
Planta de Compresión Chiquintirca - Ayacucho (distrito de Anco)	-	1 104 MMSCFD
Planta de Compresión Kámani (Cusco (localidad de Kepashiato) – KP- 127 Ducto Principal)	-	1 540 MMSCFD
Ducto (Chiquintirca - Melchorita)	408 km	620 MMSCFD
Poliducto (Camisea - Pisco)	557km	120 MSTBD
Ducto (Humay - Pisco)	40 km	35 MMSCFD

# New Oil Refinery located in Talara



**EURO 6 TECHNOLOGY**  
**Ultra low sulfur fuels**

Purpose: Guaranteeing **supply of fuels in the Peruvian market**, through the incorporation of **new technologies** and at the same time **modernizing predetermined processes**, thus generating an increase of **processing capacity** (from 65,000 to 95,000 barrels of oil per day) and adapting to **international standards**.

- Location : Talara - Piura
- Owner : PETROPERU



Investment

**6,128.40**

MMUSD

Start of operations:

**December 2023**

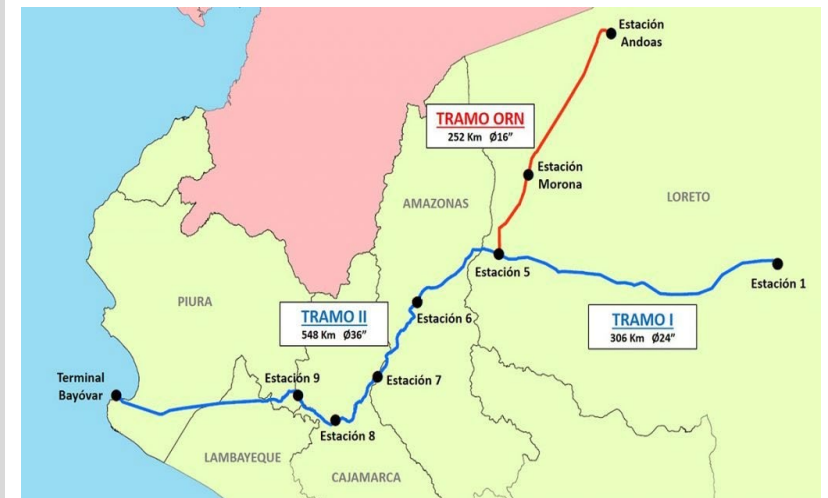


# About Oil Security Policy

- Regulation to establish level of inventories:
  - ❑ 3 days dispatch on average for LPG
  - ❑ 15 days dispatch on average for liquids
- Former Talara Refinery has been modernized, expanding its refining capacity from 65 to 95 MSTBD, and allowing the processing of heavier crude oil, mainly of domestic origin.

## Activities in progress:

- Technical and social strengthening of the North Peruvian pipeline, in order to carry crude oil from the Peruvian jungle to refineries located on the coast.
- Evaluation of regulation to promote investments in oil exploration and extraction. It will reactivate the hydrocarbon sector for a safe energy transition.
- Development of a long-term energy plan oriented to depend less on oil imports.



# Project: Fuel Inventory Agency

## Current Fuel Market Situation:

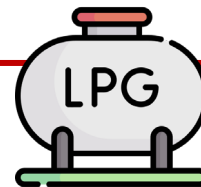
The price of LPG and Diesel, between October 2020 and September 2021, increased by more than 70%.

Centralized fuel storage infrastructure

Dependence on diesel and LPG imports, and vulnerability to weather situations

Status: Pending approval by the Congress

The functions of the AIC are:



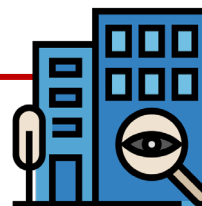
### To promote

The execution of hydrocarbon storage facilities considered strategic by the Government



### To mitigate

The impact of the increase in international fuel prices on local prices.



### To Supervise

That all companies have fuel safety stocks, as established by Peruvian law



### To Guarantee

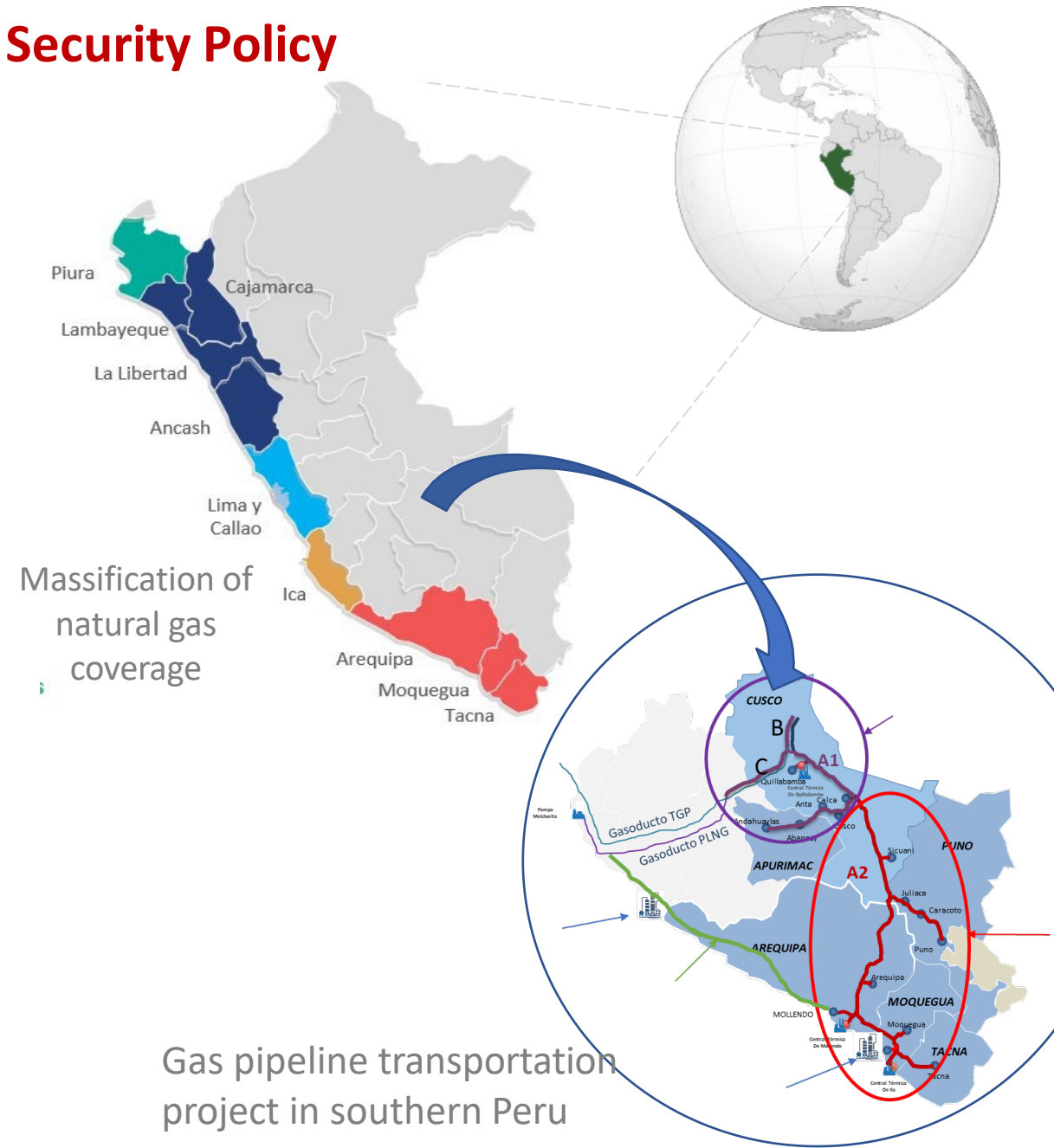
The supply of national fuel demand



# About Natural Gas Security Policy

- Regulation to establish level of inventories for LNG (guaranteeing a minimum stock monthly of LNG loading of 30 calendar days)
- Intensification of a massification of NG policy nationwide in order to harness our NG resources. Currently, NG is used as a transition fuel to renewable energy sources

- Activities in progress:
- Institutional strengthening to close infrastructure gaps, such as the execution of the gas pipeline transportation project in southern Peru or the evaluations of other alternatives. Objective: to provide energy security.
  - Evaluation of regulation to promote investments in the exploration and extraction of natural gas. It is important to reactivate the hydrocarbon sector for a secure energy transition.



Massification of natural gas coverage

Gas pipeline transportation project in southern Peru



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