



THE NATIONAL GAS COMPANY  
OF TRINIDAD AND TOBAGO LIMITED



# Corporate Overview

The NGC Group of Companies



MEMBERS OF THE NGC GROUP OF COMPANIES

## The NGC Group of Companies

### Group Mission

To *create exceptional value from natural gas* and related energy businesses through our *people* and *strategic partnerships*.

### Group Vision

To be a recognized *global leader* in the development of *sustainable energy-related* businesses

### Core Values

- Integrity
- Employee Engagement
- Excellence
- Safety & Environmental Preservation
- Transparency
- Customer Focus
- Corporate Social Responsibility

## Strategic Pillars: NGC Group



### Develop Organization

- To match the new level of dynamism required of NGC to manoeuvre in a more complex, internationally competitive arena

- Refresh Role Mandate
- Formalize NGC Grp Structure to leverage strengths



### Secure Current Business

- To safeguard current business returns in challenging supply and demand environment

- Secure gas supply
- Contract Optimization
- Operational Excellence



### Grow Locally & Internationally

- To diversify by expanding into adjacent part of the energy value chain locally, and investing to capture value from global discontinuities

- Geographic Diversification
- Increase Commodity Trading



### Strengthen National Contribution

- To deepen our contribution to the country through both financial and non-financial activities

- FDI/Econ Stimulation
- Alternative Energy
- Lower Carbon Footprint
- CSR

# The National Gas Company of Trinidad and Tobago Limited (NGC)



- Incorporated by GORTT in August 1975
- Start-up capital TT\$80,000
- Asset base TT\$46.2 B
- 100% state-owned
- Enabled development of the natural gas sector by providing market for upstream and downstream industries
- Provided a market-related gas pricing model for downstream petrochemical customers

## Primary Business Activities

- Natural gas purchase from natural gas suppliers
- Natural gas aggregation
- Natural gas sales to large industrial customers and light industrial customers (LICs)
- Natural gas transportation and distribution
- Gas transportation services to limited customers
- Ownership, operation and maintenance of 4.4 Bcf/d installed capacity network, Approximately 608 miles (1,000 km) of pipelines) on land and offshore
- Natural Gas Liquids (NGLs) production and marketing
- Joint venture oil and gas production and marketing
- Liquefied Natural Gas (LNG) production, marketing and shipping

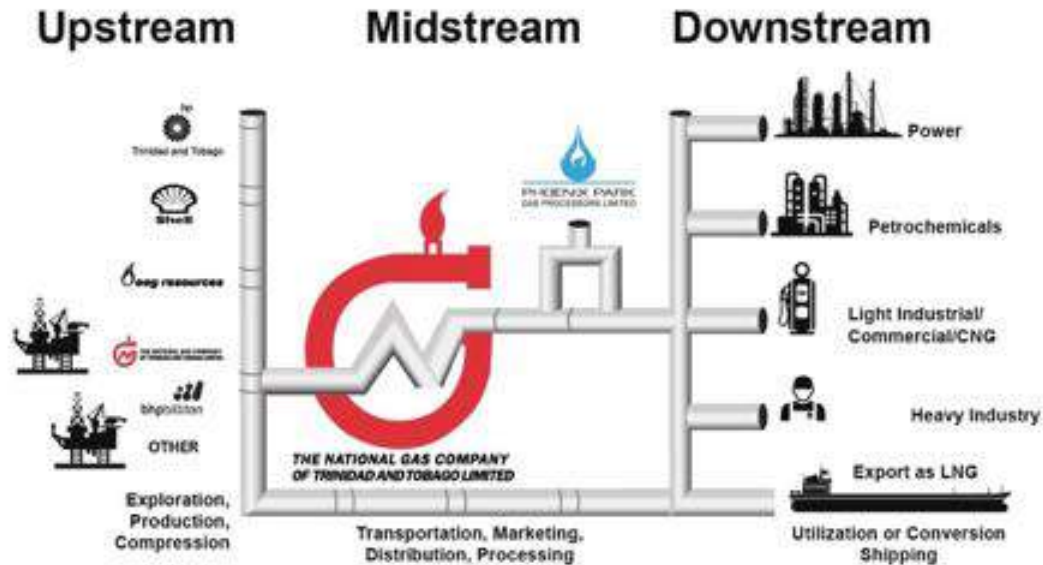
## Corporate Strengths

- Strong asset base of approximately US\$6 billion, including key pipeline transmission and distribution infrastructure
- A diversified Group of Companies – one of the largest business entities in the Caribbean when measured by assets
- International Investment grade credit rating with the financial flexibility to pursue global growth opportunities
- High pipeline reliability and availability record through the effective use of engineering design, construction, maintenance and surveillance activities
- Knowledgeable and experienced staff in natural gas purchase and sale, transportation and distribution, contract negotiation, compression services
- Long term gas purchase and gas sales contracts with major multinationals
- Strong Corporate Social Responsibility programme



# Trinidad and Tobago's Natural Gas Value Chain

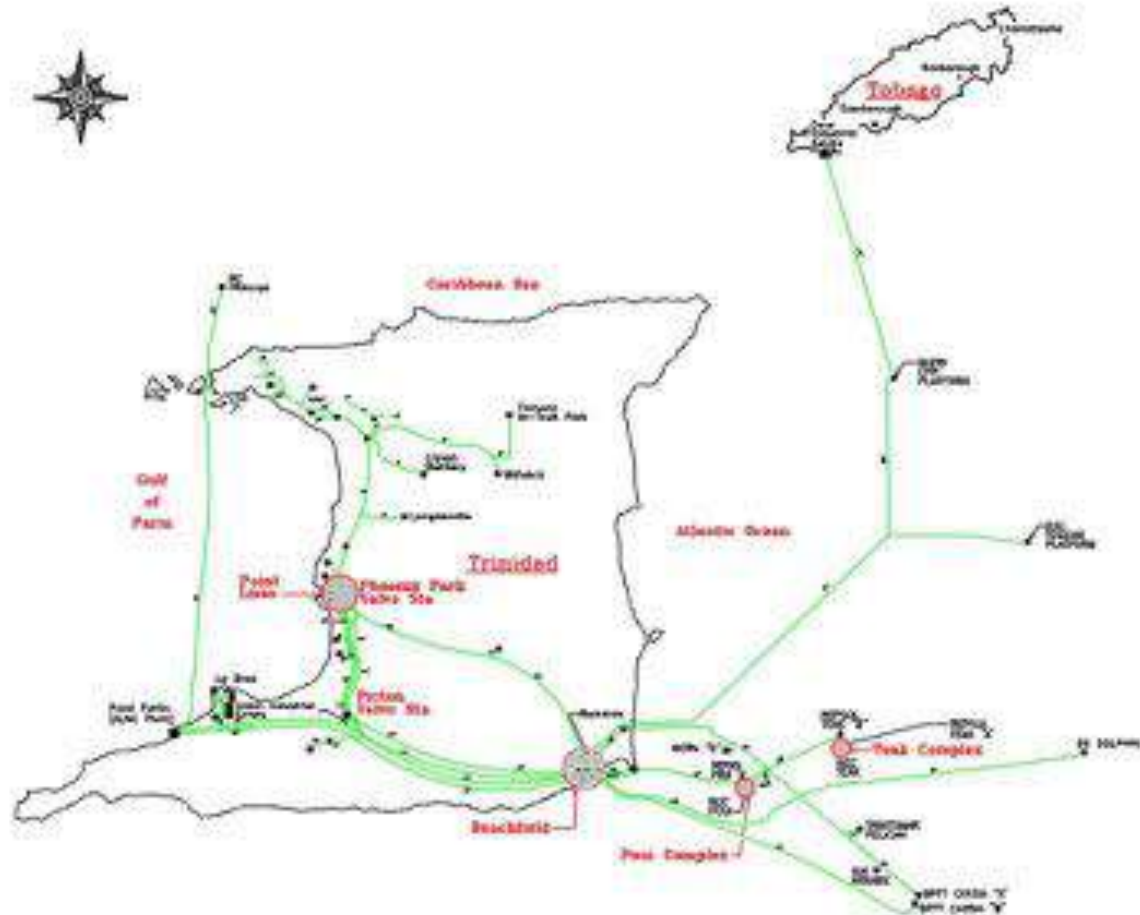
Market Development: Market Research, Project Development, Project Facilitation & Investment Promotion, Infrastructure Development



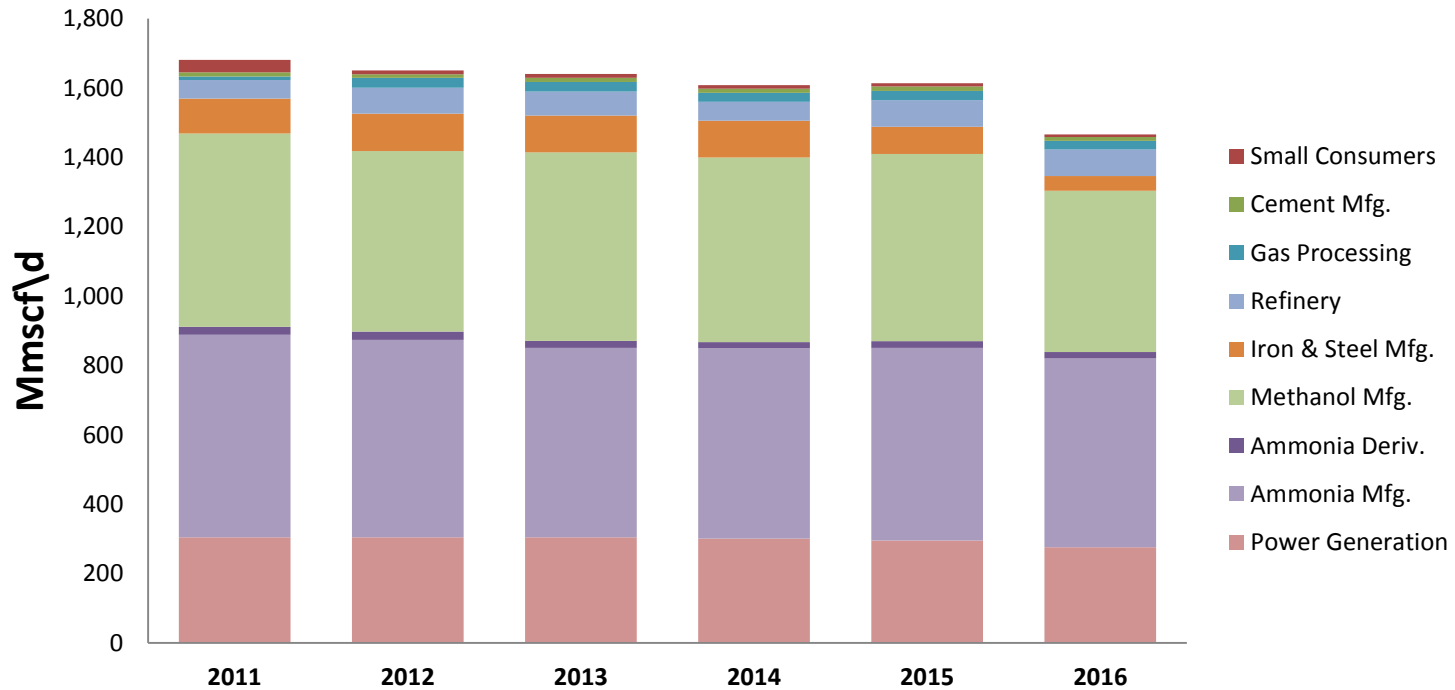
## NGC'S SUPPLY COMMITMENTS

- 10 Ammonia Plants
- 1 Urea Plant
- 7 Methanol Plants
- 1 Ammonia Urea Melamine (AUM) facility
- 1 Cement Manufacturing Customer
- Over 100 Light Industrial Customers
- 5 Power Generation Sites
- CNG

## Trinidad and Tobago's Pipeline Network



## T&T Natural Gas Consumption by Sector 2011-2016





## The NGC Group of Companies

NGC is involved in activities throughout the energy value chain, through subsidiaries and investments. Its major subsidiaries are:

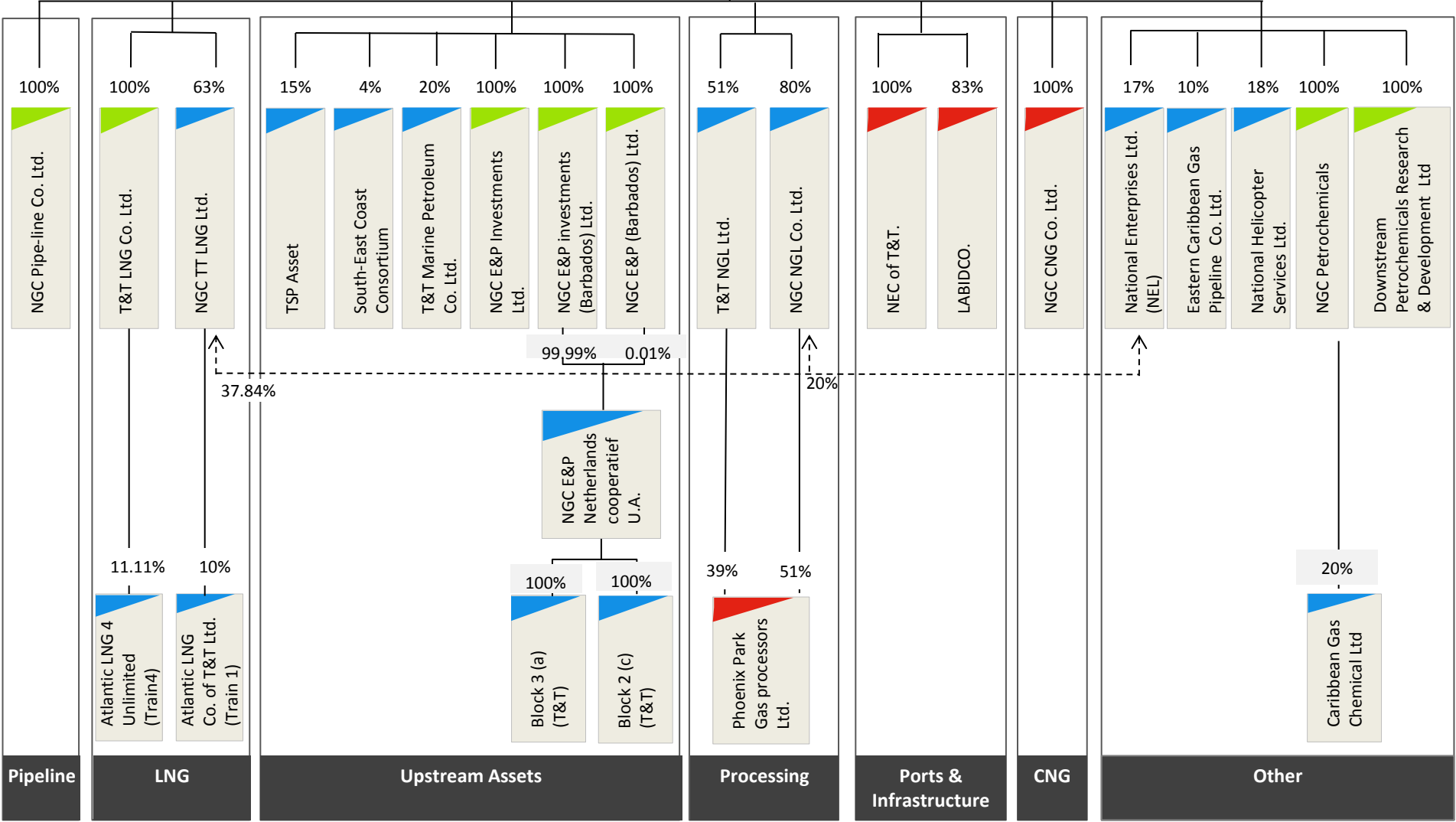
- **National Energy Corporation of Trinidad and Tobago Limited (National Energy)**
  - conceptualizes, promotes, develops energy-based projects and manages industrial sites, port and marine infrastructure
- **Phoenix Park Gas Processors Limited (PPGPL)**
  - engaged in natural gas processing and the aggregation, fractionation and marketing of Natural Gas Liquids (NGLs) propane, butane and natural gasoline
- **NGC CNG Company Limited (NGC CNG)**
  - promotes and implements nationally. Compressed Natural Gas (CNG) as a cleaner, cheaper fuel for the country's transportation sector
- **Trinidad and Tobago NGL Limited (TTNGL)**
  - incorporated to hold 39% of the shares in PPGPL; listed on the Trinidad and Tobago Stock Exchange following country's first ever energy IPO

# NGC Group of Companies: Legal Structure

 Operated Company  
 Fully Owned  
 Partially Owned

The Government of the Republic of Trinidad and Tobago

The National Gas Company of Trinidad and Tobago Limited





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# Subsidiary Profiles



MEMBERS OF THE NGC GROUP OF COMPANIES

## National Energy - Current Mandate

The conceptualization, promotion, development and facilitation of new energy-based and downstream industries in Trinidad and Tobago

Identifying and developing new industrial estates

Identifying and developing new industrial deep water ports to facilitate these estates

Own and operate marine and other infrastructural assets to facilitate all gas-based petrochemical and metal plants

Development and Management of La Brea and Union Industrial Estates

Towage and Harbour operations

Sustainable management of the environment



## Operating Assets

- Six (6) petrochemical piers
- Iron & Steel Dock
- Harbour, Channel & Turning Basin

### Ten (10) vessels

- Eight (8) Tugs
- One (1) Passenger Launch
- One (1) Fast Crew Supply Vessel

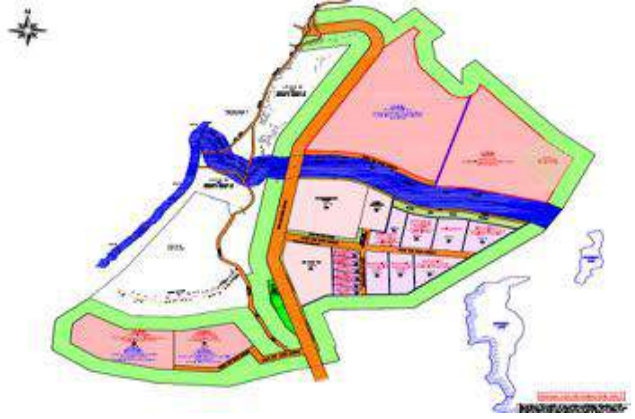
Facilities Managed



Port of Brighton, La Brea



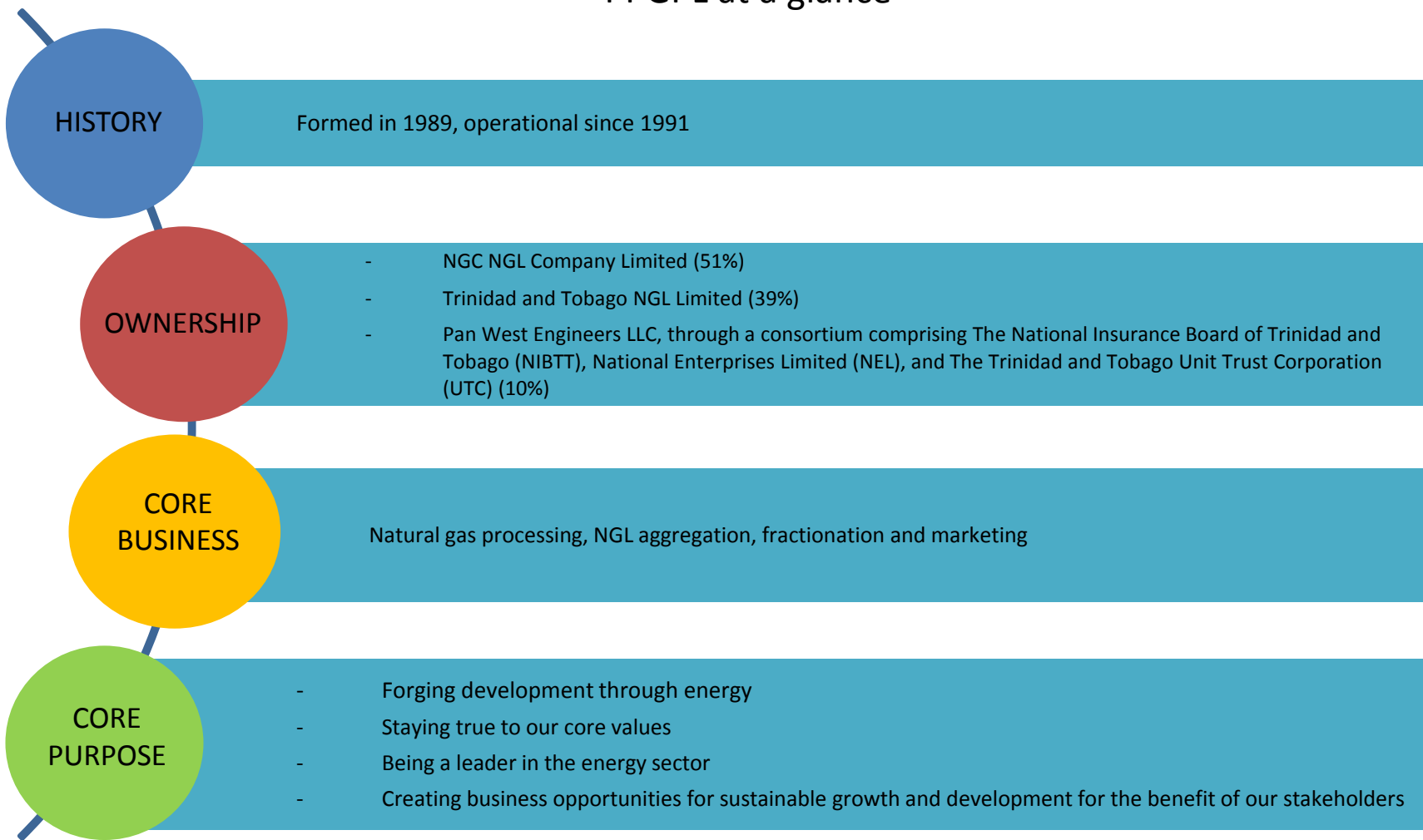
Port of Galeota



Union Industrial Estate



## PPGPL at a glance

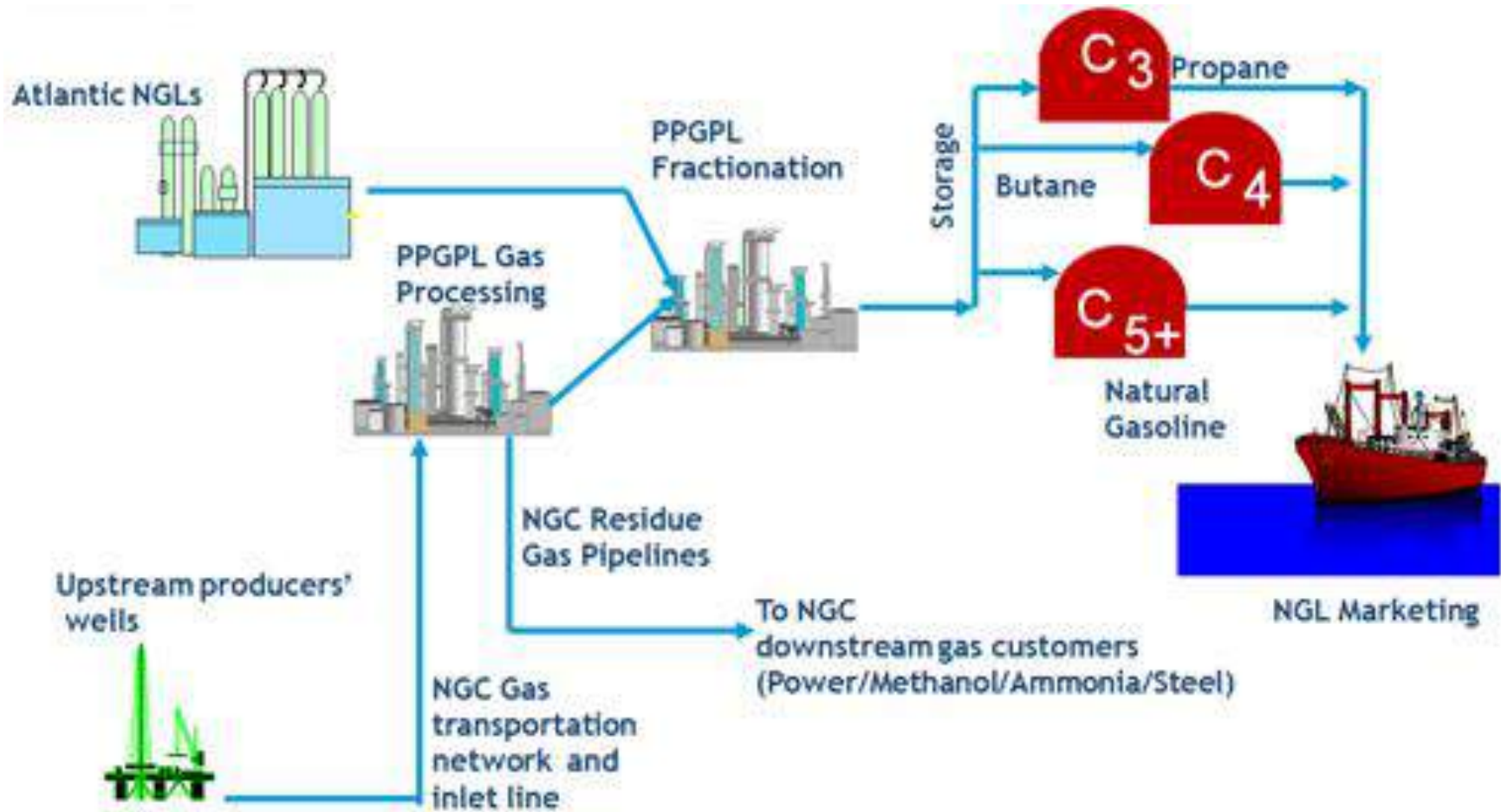


## Overview of Operations

Facilities	Operations
Three cryogenic natural gas processing plants – 1.95 Bcf/d	Processing “wet gas” supplied by NGC and Petrotrin from offshore fields
Two fractionation plants - 70,000 barrels / day	Residual clean dry gas, returned to NGC and Petrotrin
Six product storage tanks - 1,250,000 barrels	Fractionating NGLs from processed gas and NGLs supplied by ALNG into propane, butane and natural gasoline
Two product loading docks - 54,000 cbm	Fractionating butane into iso-butane and normal butane
A natural gas liquids (“NGLs”) pipeline between Atlantic LNG (“ALNG”) at Point Fortin, Trinidad to the Point Lisas processing facilities	<ul style="list-style-type: none"> <li>▪ Marketing and sale of propane, butane and natural gasoline               <ul style="list-style-type: none"> <li>▪ Iso-butane is supplied to Petrotrin via pipeline</li> <li>▪ Propane, butane and natural gasoline is exported</li> </ul> </li> </ul>



# Overview of Operations



## Operating Performance



*PPGPL's Facility*

- PPGPL has operated at an average operational uptime in excess of 98% since its inception
- The Company has an exceptional safety record:
  - US Gas Processors Association (“US GPA”) safety award for 16 years
  - 1 lost workday case in the past 22 years
  - TT OSH – National Safety Awards – Finalist in 2006 & 2007
- High quality outputs:
  - The propane produced meets the highest standard (HD5) set by the US GPA
  - The butane contains no olefins, a contaminant commonly found in refinery-grade butane
  - Only one valid demurrage claim incurred over 2,700 cargoes

## Key Marketing Strengths

- Consistent supplier to key Central American markets
- Consistently achieved average NGL freight on board product prices at average premium above Mont Belvieu prices for term contracts
- International reputation for rapid vessel turnaround
- High customer satisfaction noted via annual customer survey:
  - 90% in 2015
  - 95% in 2014
  - 94% in 2013



## NGC CNG Overview

- NGC is mandated by the Government of Trinidad and Tobago to accelerate and expand the use of Compressed Natural Gas (CNG) as a major alternative transportation fuel in the country. The switch to CNG is expected to take place in 2 phases.
- The first phase was projected to cost TT\$500 million (now reduced) and involves the construction of 22+ new or revamped CNG-only fuel stations and conversion of 17,500+ vehicles.
- The second phase, if sanctioned, is projected to cost TT\$1.57 billion for the construction of more stations and increasing demand.
- Primary motivations are reduction of subsidy and lowered fuel prices to the population.



## CNG Campaign Progress

- The vehicle market in Trinidad & Tobago for OEM CNG vehicles is evolving quickly with several options in various classes:
  - Bi-fuel (gas and CNG) Honda City CNG passenger vehicles available for purchase
  - First 100% CNG freightliner truck launched in 2016 - this is the first time a CNG freightliner truck has been exported from North America
  - 2 CNG 'maxi-taxis' on the road, with others on the way
- 13 CNG filling stations in operation, with 13 new supply points planned for opening in 2017
- 5 mobile refuelling units to be commissioned
- 3000+ CNG vehicles estimated to be in use



Mercedes-Benz



JINBEI



## CNG Campaign Progress

**Target CNG Sales Volumes with NGV targets  
(Diminished marketing expenses after 2018)**

