

Trinidad and Tobago Energy Conference 2018

# Transforming the T&T Natural Gas Industry: Maximizing the Value Chain

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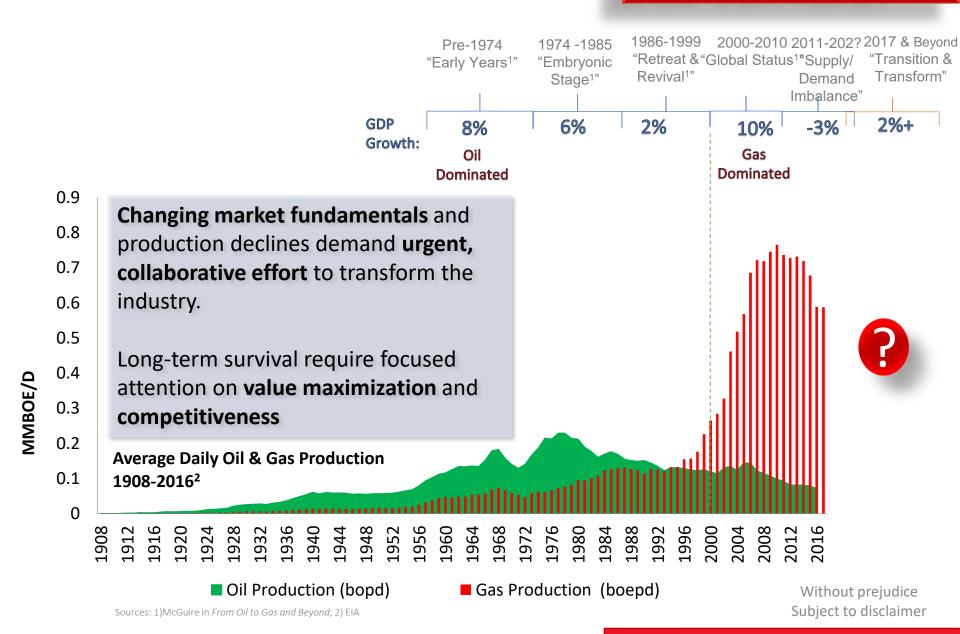
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# Where do we Grow from here?

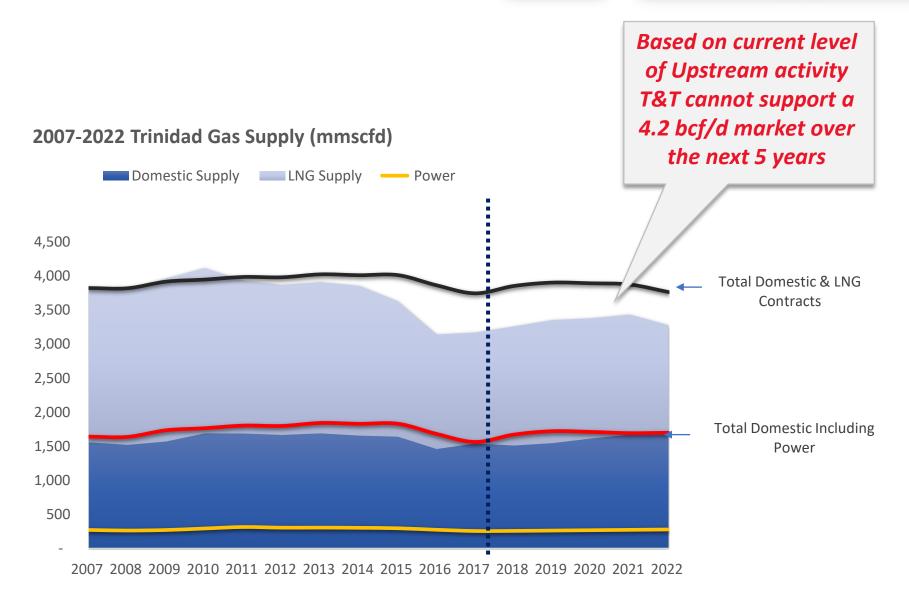




# Industry Update







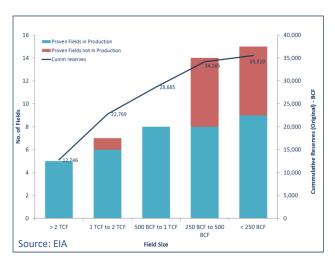
Source: NGC Commercial Database



#### Supply

# Offshore Exploration & Development activity increase

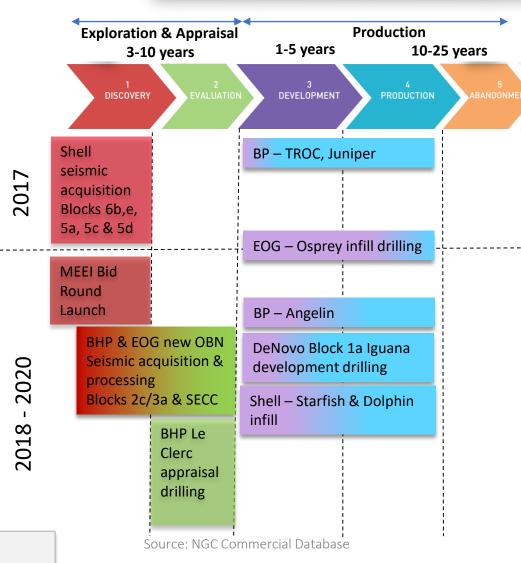
#### **Distribution of Proven Fields by Size**



#### **Drilling Activity and Commerical Success Rates**



Exploration investment critical to finding new hydrocarbons

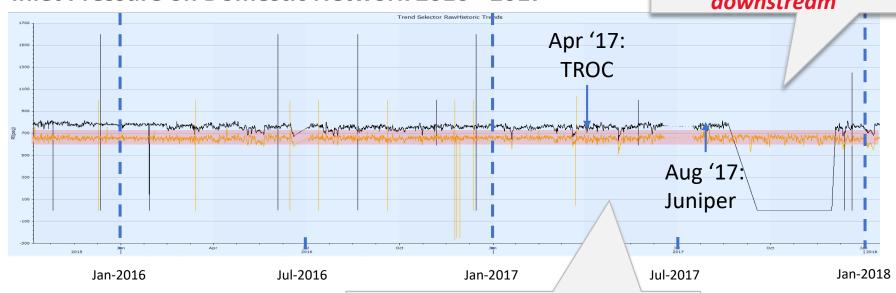


#### NGC as the DOMESTIC AGGREGATOR:

#### More than just a Transporter!

 Greater network stability and supply reliability through coordination of upstream and downstream work plans TROC/Juniper added
capacity (not
incremental volumes);
improving network
stability and reliability
of supply to
downstream

#### Inlet Pressure on Domestic Network 2016 - 2017



Inlet Pressure – Upstream (BUD)Inlet Pressure – Downstream (PPVS)Control Range (650 psi)

Greater Co-ordination of
Downtime through data sharing
with TTUOG and PLEA; less
unplanned downtime

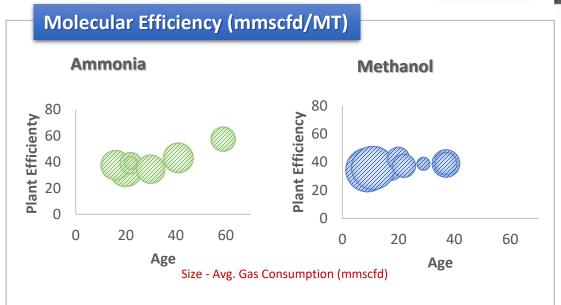
Without prejudice Subject to disclaimer

Source: NGC Operations Database

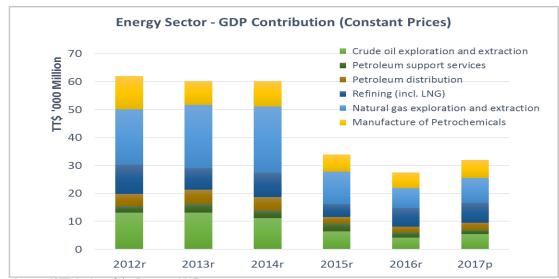




# Molecular Optimization need in downstream



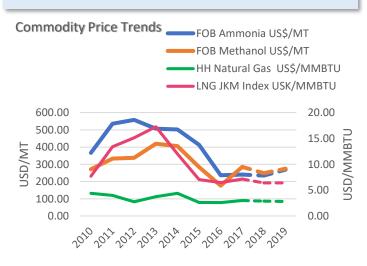
Source: NGC Commercial Database



Source: CBTT, Review of the Economy 2017

## Shifting Market Dynamics: A new equilibrium will be found

- Persistent curtailment and reduced production have undermined our global position.
- US emergence as a net exporter in 2016 continue to shift market fundamental
- Decisions on plant turnarounds stymied by uncertainty around long-term supply; prompts evaluation on best use of gas



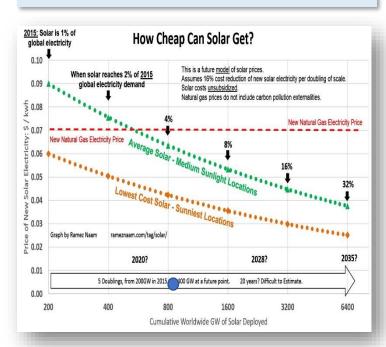
Source: Ferticon (Ammonia), IHS (Methanol), Platts (Nat Gas, LNG)

**Demand Power** 

#### **Restructuring Power Sector**

- Progress made in reducing cost and consumption
- Work continues to re-structure commercial Arrangement
- Transition to Renewals underway

#### Solar Costs falling faster than predicted



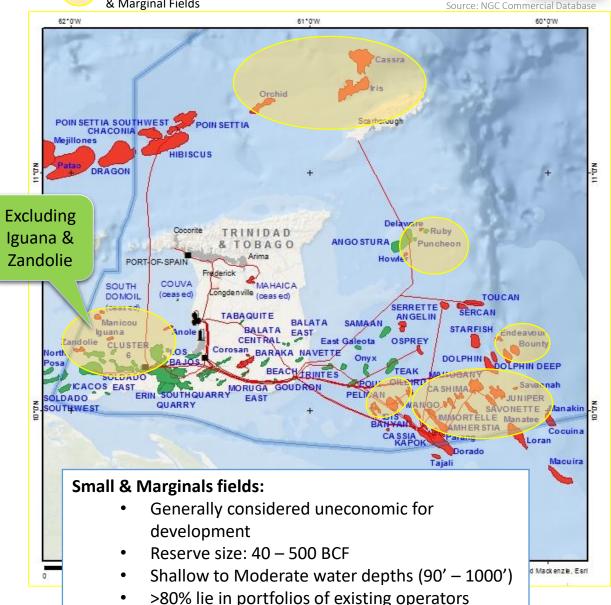
http://rameznaam.com/2015/08/10/how-cheap-can-solar-get-very-cheap-indeed/



# NGC Update



## Unsanctioned Small & Marginal Fields



## PRIORITY DEVELOPMENT

The next best option to close the supply gap!

#### **Marginal Fields:**

- MEEI to review holdings, incentives & other support approaches
- Opportunity for strategic partnerships within Upstream

Small Agile Players



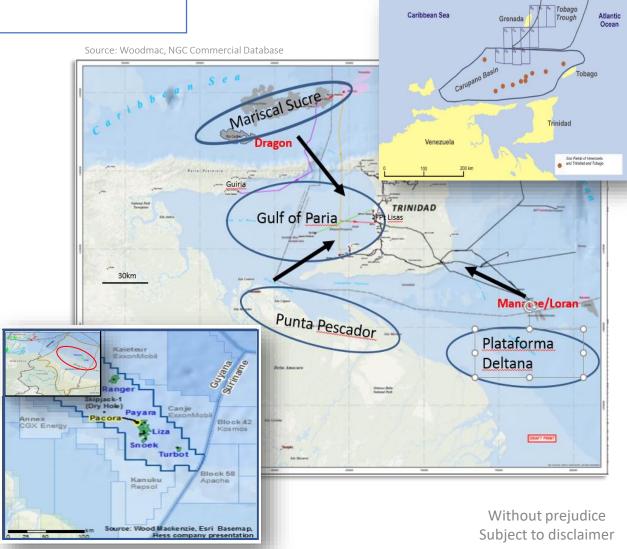
Large Infrastructure
Owners

#### Is US Shale a Potential Alternative Supply?

 Comprehensive FSRU commissioned by NGC concluded that this is unfeasible given the price of gas.

## Secure alternative supply from regional sources

- Negotiations continue with Venezuela for Cross and Across Border Gas
- Watch List: New discoveries in Guyana and Grenada offer potential supply source.









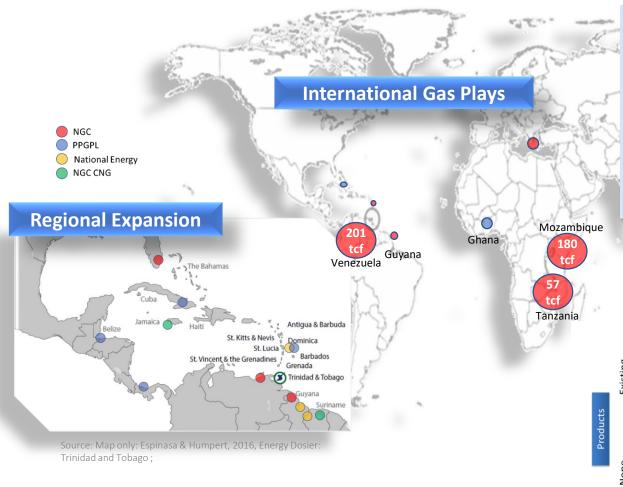




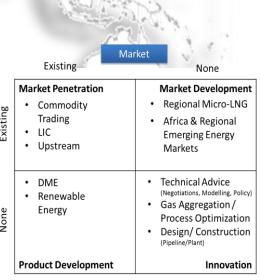
#### THE NGC GROUP OF COMPANIES

Pillar 3

# Growth – International Collaboration; New Markets



Emerging Energy Economies and the Panama Canal will open new markets and traffic to the region, creating opportunities to export energy services and expand operations



#### Country and Industries must reposition to compete globally.

A new way of working is needed!

#### Government/THA

- Trade Missions
- •State to State Agreements
- Diplomatic Corps: Ground Intelligence and Liaison Services, Market Entry Support
- Business Development capacity building

#### **Tertiary & Institutions**

- •Industry Training; Student Exchanges
- Conferences
- •Research & Development

#### **NGC Group**

- •Technical Service Agreements
- •Infrastructural Dev't
- Shipping
- Gas-Based Production & Operations

#### **Business Community**

- Chambers & Associations: Membership Readiness; Business Dev't Support
- •Construction & Energy Services: Sub-contraction; Exchanges
- Financial Services

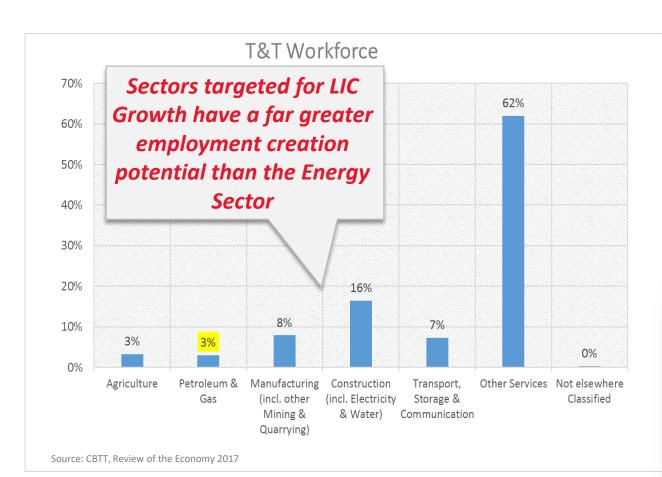
# **Collaboration at the national level** is needed to create the next wave of growth:

- Government Support & Backing
- Collective Industry Know-How
- Access to Local and International Capital & Development Funding
- Creativity and Innovative spirit



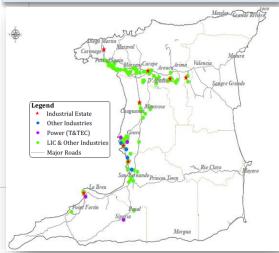


# National Contribution: LIC Growth



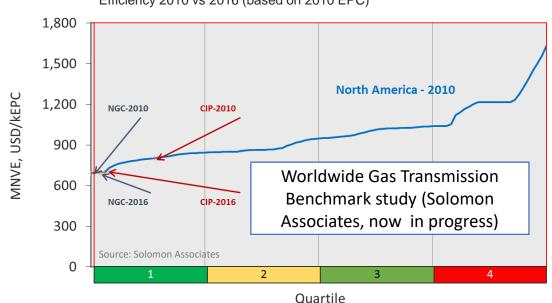
#### **Revitalize Light Industry**

- Alternative Fuel Displacement
- Not just a CSR project: Sustainable, profitable sectoral growth
- Strategic Partnership with TTCIC & TTMA
- Focus on Tobago with THA



Without prejudice Subject to disclaimer

#### Manageable Non-Volume Expenditure Efficiency 2010 vs 2016 (based on 2010 EPC)



# Asset Integrity System Weighted Average Dec 2017 National Average Dec-17 Oct-15 Source: NGC Office of Strategy Management



### **Commitment To Operational Excellent**

NGC continues to rank in the Top Quartile of Benchmarked systems for Operational Efficiency

## Current initiatives include: **Network Optimization**

- Process Safety & AIM
- Debottlenecking

#### **Process Optimization**

- Upgrade ICT Platform
- Supply Chain Management
- Learning Systems

#### **Group Synergies**

- Co-ordinating Planning
- Policy Standards
- Cost Sharing
- Talent Management





"License to Operate"

Philanthropy (Contributions/ Sponsorships)

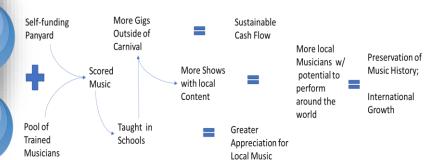
Community Engagement

Community Economic Development

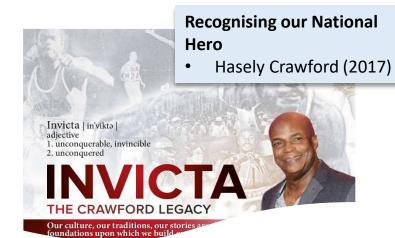
Sustainable National Development

#### **Beyond CSR:**

**Deeper Value** by facilitating **Strategic Partnerships between and among our communities** 







Pillar 4

#### National Contribution: National Heroes

#### **Recognising our National Hero**

• Pat Bishop (2018)

#### Musician



National Treasure

Lecturer

Cultural

Ambassador







#### **Closing Remarks**

- Work differently and with urgency
- Maximize the value chain
- Build and leverage institutional capacity
- Harness our people potential
- Be competitive

Our survival over the next five years and into the future depends on us:

- Collaboration
- Creativity
- Innovation
- Entrepreneurship



## To be here for the long term means navigation through tough times in the short to medium term.

#### We have the potential to do so!

