Trinidad And Tobago : Natural Gas Monetization As A Driver Of Economic And Social Prosperity

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MINISTRY OF ENERGY AND ENERGY INDUSTRIES

Atlantic LNG Plant

The Energy Sector Is Playing a Major Role in T&T Development



Current Context



The energy industry is the primary driver of economic activity in T&T, accounting for an average of 36.6% of the country's GDP over 2001 to 2005 (based on constant 2000 prices.) For 2005, this is projected be 40.5%



The Government of Trinidad and Tobago has embarked on an ambitious and farreaching programme to achieve widespread and sustainable development by the year 2020. Because of its scale and scope, the energy sector will continue to be a major driver for economic development, while providing a platform for significant development of certain key ingredients in achieving the "Vision 2020" goals:

People,

- Enterprises
- The Capital market
- Innovation
- Technology

This allows us an opportunity to use the energy sector as an agent for sustainable development and diversification.

Government agencies and the stateowned energy companies will play an important role in the realisation of these goals.

Selected Economic Indicators



	2004	2005	2006
Real GDP Growth (%)	6.5	7.0	10.0
Inflation (Year on Year %)	5.6	7.2	4.0 - 5.0*
Unemployment (%)	10.5	8.4	7.0
Public Sector Debt/GDP (%)	49.1	41.3	31.8
External Current A/C Balance/GDP(%)	14.5	17.7	19.0
Oil Prices (WTI) - US\$	41.5	54.4	55.0

Source: Central Bank of Trinidad and Tobago

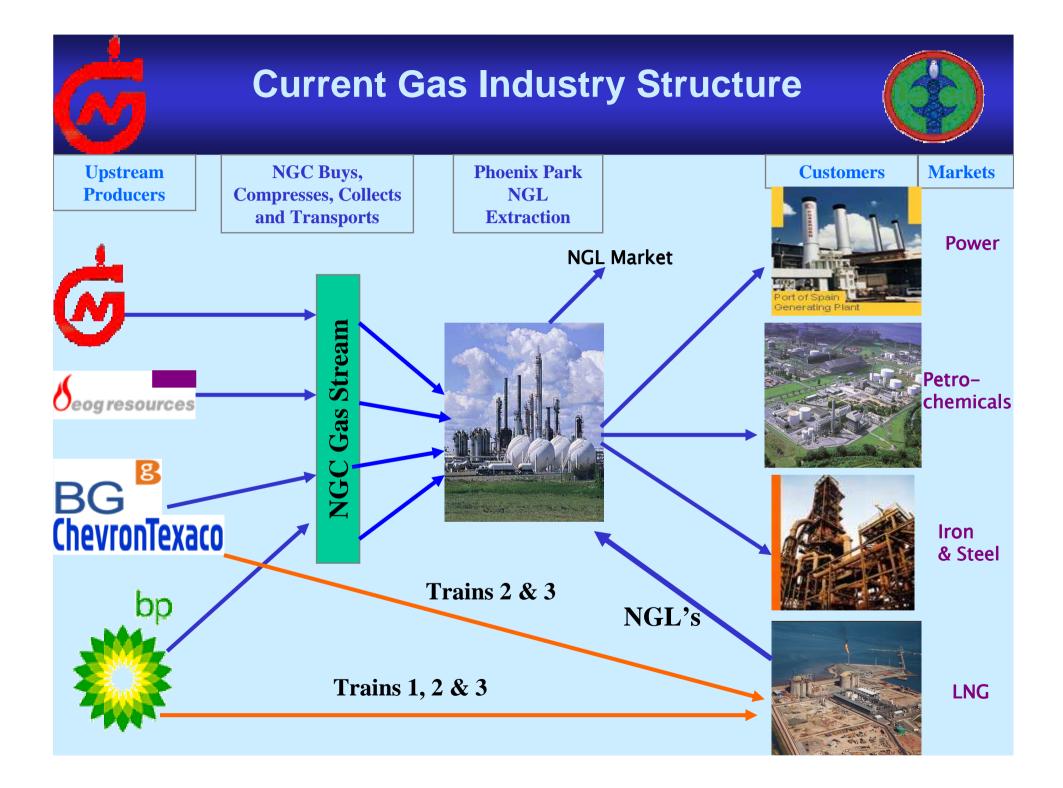
Summary of Natural Gas Resource for Trinidad and Tobago



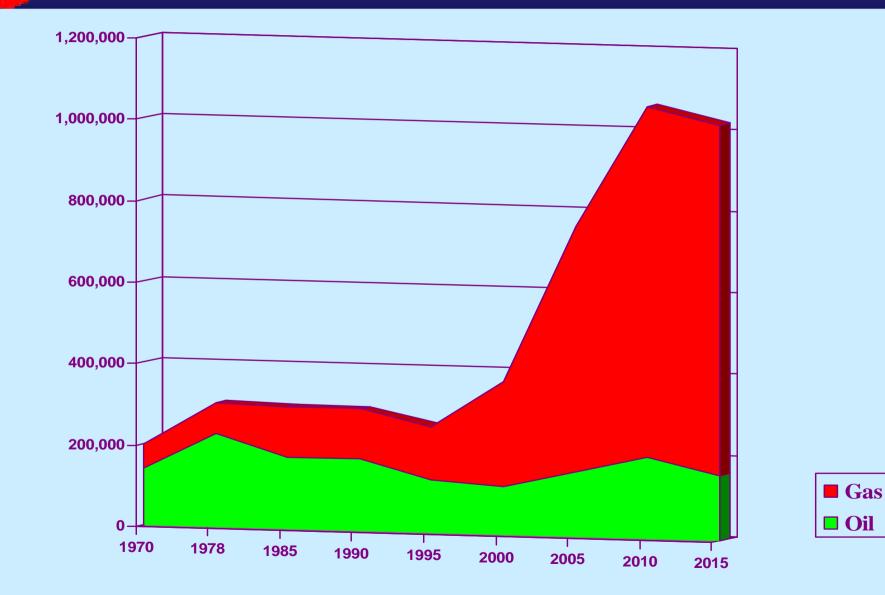
	Gas (TCF)			
	2003	2004	2005	
Proved	20.8	18.8	18.77	
Probable	8.3	8.6	9.03	
Possible	6.1	5.8	7.07	
TOTALS	35.2	33.2	34.87	

Exp Leads ~ 29 TCF

Unrisked Gas leads ~ 30 TCF



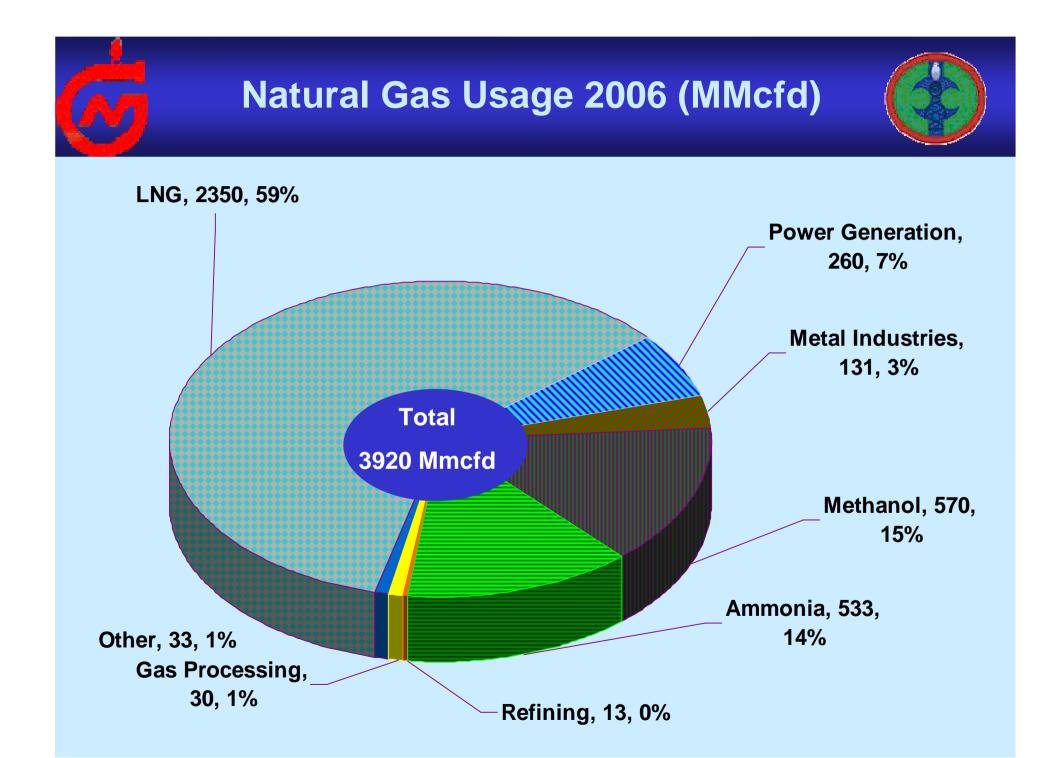
Oil and Gas Production Projection 1980-2020 (BOEPD)



Oil & Gas Sales, BOEPD

Natural Gas Demand (1997 - 2006)





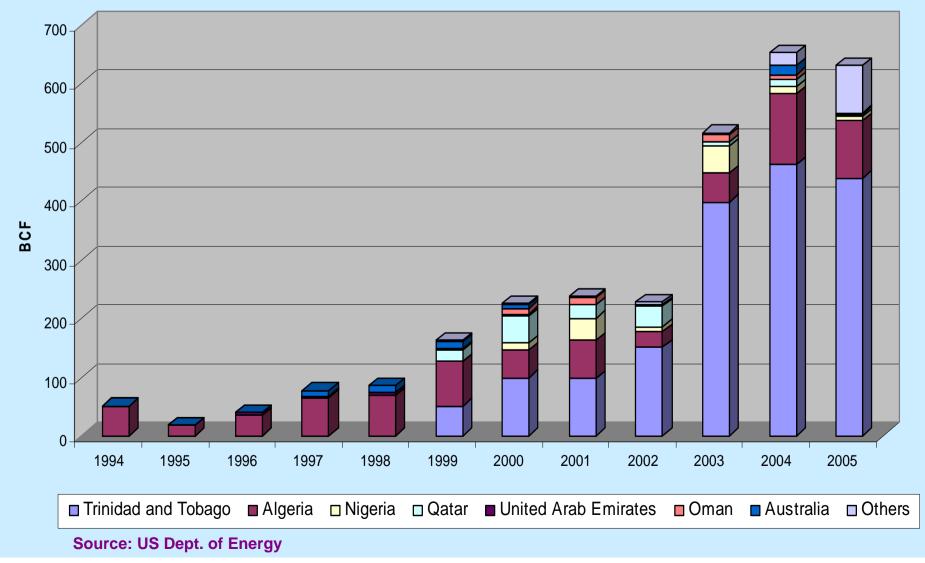
Existing Gas Based Plants



- 1 Natural Gas Liquids Processing Facility (70 MBPD)
- 4 Liquefied Natural Gas Plant (15.2 MTPA)
- 10 Ammonia Plants (6,330 MTPA)
- 1 Urea Plant (550 MTPA)
- 7 Methanol Plants (6,400 MTPA)
- 4 Iron and Steel Mills (2,560 MTPA)
- 4 Power Generation Plants Powergen (3) & Inncogen
- Other
 - Refinery
 - Cement Manufacture
 - Light Industrial/Commercial Consumers 96
 - 2 Gas Fired Air Cooling Projects
 - 4000 CNG powered vehicles

USA LNG Imports -1994-2005

T&T Supplied >70% Of USA LNG Imports from 2003-05



New Initiatives



- New Industrial Estates
- Small scale (2650 bpd) GTL Plant approved (Construction about to commence)
- Value Added requirements
- -Ammonia to UAN; Methanol to Acetic Acid,

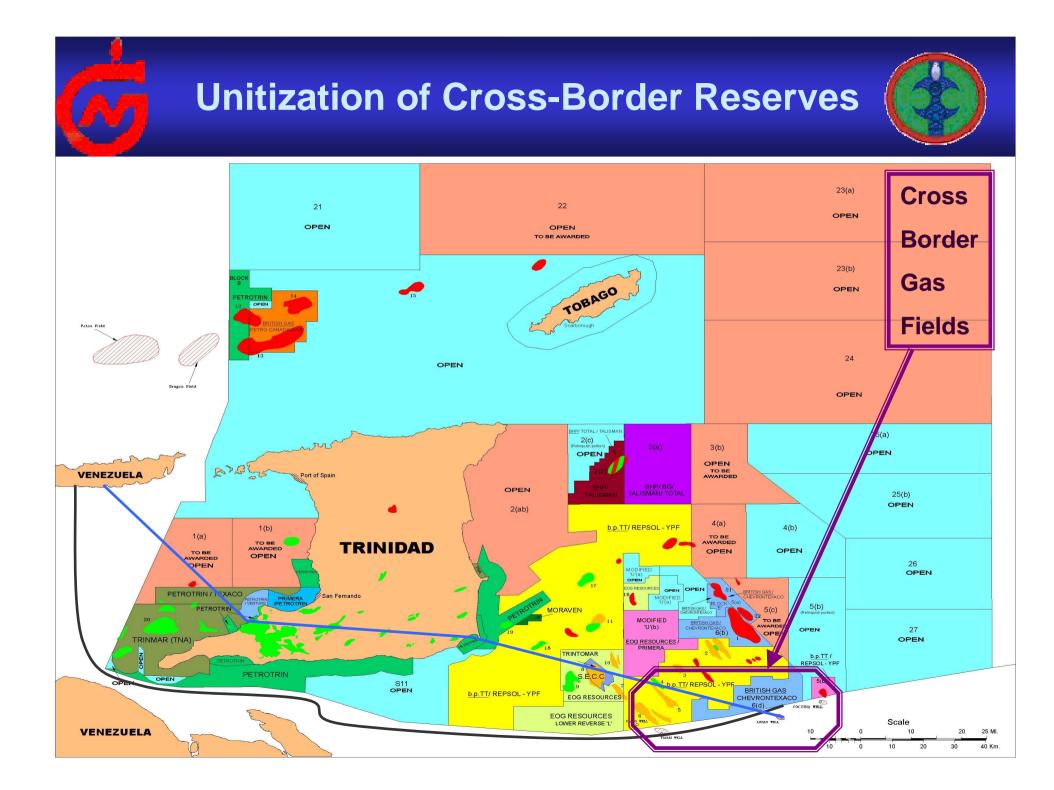
-Methanol to Propylene, Methanol to Power

- Caribbean Gas Pipeline(feasibility study)
- Metals 2 Al smelters
- Downstream LNG Investments

Major New Projects

- CLICO AUM (UAN/Melamine)
 - 60,000 tpy melamine
 - 1,400,000 tpy UAN (urea ammonium nitrate)
- First UAN (Ammonium/UAN)
 - 300,000 tpy ammonia
 - 900,000 tpy UAN
- Alutrint Aluminum Smelter & Downstream
 - 125,000 tpy aluminum and downstream products
- Alcoa Smelter & Downstream
 - 341,000 tpy aluminum and downstream products
- Essar Steel HBI (hot briquette iron)
 - 1,100,000 tpy HBI and 3,300,000 tpy downstream steel slabs and hot rolled coils
- Union Estate Fertilizer Complex including MTP
 - 700,000 tpy ammonia
 - 950,000 tpy UAN
 - 460,000 tpy polypropylene and downstream

Total CAPEX – US\$6.5 Billion -- Investment Decisions – 2006-07



Caribbean Gas Pipeline - Proposed Routing



Domingo AN REPUBLIC PUERTO RICO ANGUILLA VIRGIN ISLANDS

> ANTIGUA AND BARBUDA MONTSERRAT GUADELOUPE

Plan A – Guadeloupe Plan B – Puerto Rico DOMINICA MARTINOUE

ST. LUCIA

BARBADOS

TOBAGO

GREMAN A

Caracas de Prison



Government Realizations



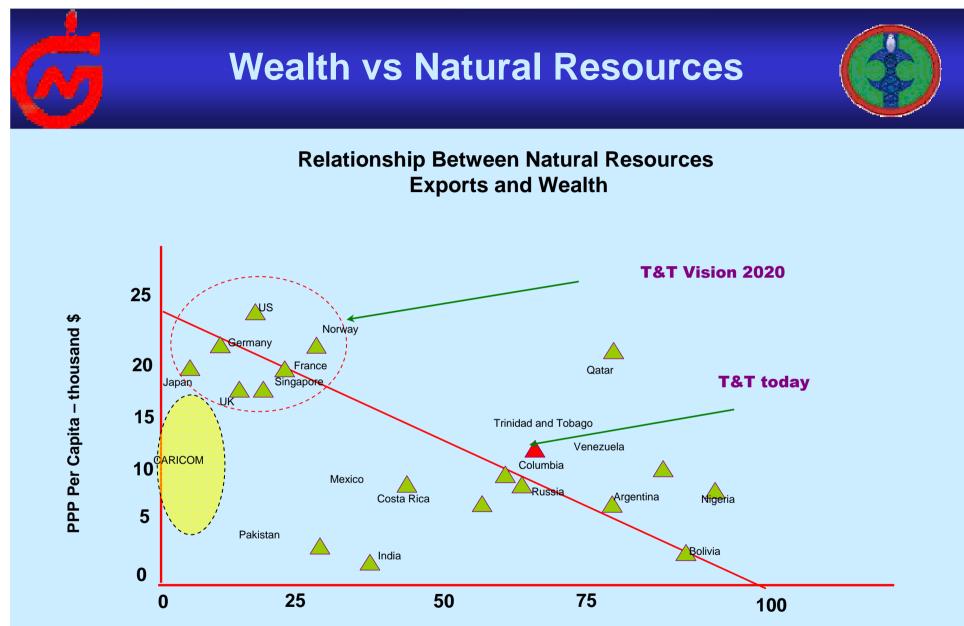
Trade and Investment are inexorably linked and positively correlated

Trinidad and Tobago is a small country Has a small domestic market

Investment orient has also been facilitated by Government investment in industrial infrastructure

Economic success best achieved via development of a vibrant export oriented sector

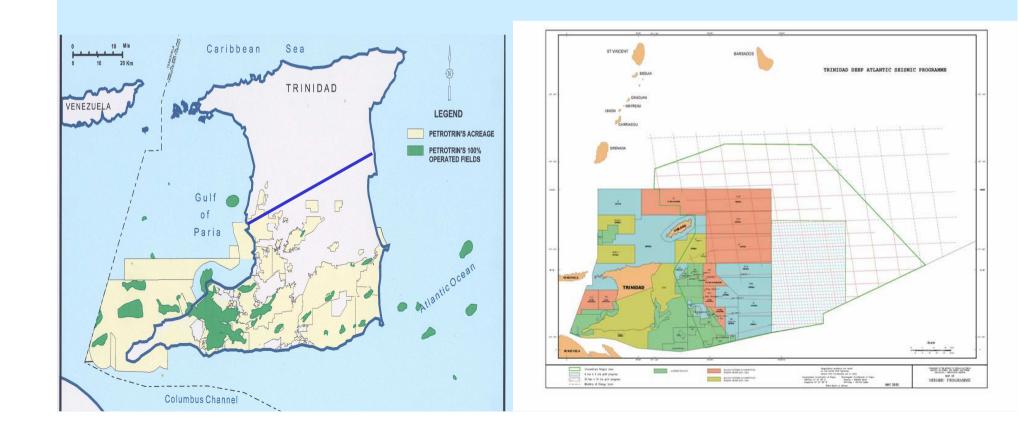
r Aim has been to provide a good environment for investment through quick decision-making on major projects



% of Exports in Natural Resources

Ensuring Continued Economic Prosperity Finding New Reserves -- Exploration

- Phase 1 Southern Basin Land acreage (Ongoing)
- Phase 2 Shallow Marine Acreage (Ongoing)
- Phase 3 Deep Atlantic (Q4 2006)



The Local Value Adder





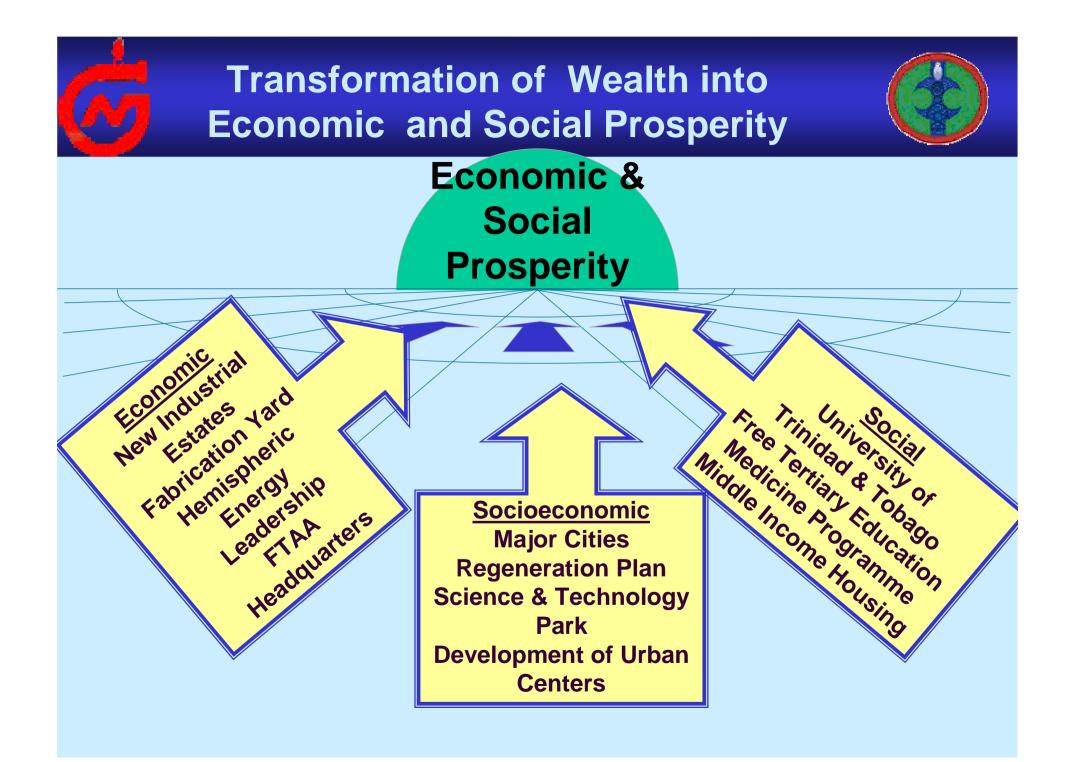


OBJECTIVE

Leverage The Energy Sector To Lead To Sustainable Development Of Non-energy Sectors

STRATEGIES

- Intensify links between energy sector and non-energy sector
- Balance investment portfolio to include value added
 products and services
- Increasingly Shift focus away from "capital intensive industries" to "knowledge industries.
- Ensure investment is *productive* (future wealth generating) investment rather than sunk cost investment.
- Encourage strong export-orientation of goods and services





Offshore Platform Fabrication Yard





Government Campus Plaza – 50% Complete







International Waterfront Centre 25%Complete





Brian Lara International Cricket Stadium Construction Underway





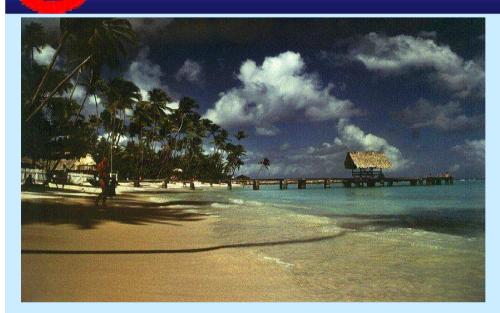


















Trinidad and Tobago: Where Possibilities are Endless!!



World Cup - Dortmund, June 10, 2006



TRINIDAD AND TOBAGO 2 – SWEDEN 1 !!!