

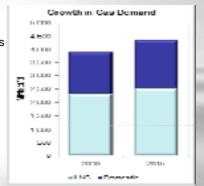
Update on Pipeline and Infrastructure Projects

Trinidad and Tobago Petroleum Conference 25th-26th January 2010

Presented by:
Wade Hamilton –
Vice president Technical Services

Natural Gas Demand Growth

- Forecasted demand growth
 - Start up of new Metals plants
 - Increased power generation requirements
 - Debottlenecking of existing plants
 - Increase in LIC Sector & CNG expansion
- New Gas fields being developed
 - BHP Billiton
- New Estate development
 - Union Industrial Estate
 - Tamana EnTech Park
 - Cove Industrial Estate



Network

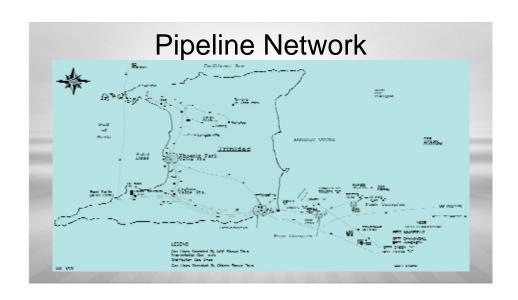
Network Gas Pipelines Total of 799 Km Transmission Capacity of 4.4 Bcf/d

 Offshore Transmission Gas Pipelines 198 Kn 	Offshore T	e Transmission G	Bas Pipelines	198 Km
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Large Diameter Distribution Pipelines
 155 Km

Small Diameter Distribution Pipeline65 Km

New gas pipeline additions @ end of 2010177 Km



Major Ongoing Projects

- North-East Offshore (NEO) Transmission Pipeline
- Transmission Pipeline to Cove Estate, Tobago
- Distribution Pipeline to Union Industrial Estate
- Liquid Fuels Pipeline Network
- Distribution Pipeline to Tamana In-Tech Park
- Expansion of the Distribution System



NEO Project Overview

The Project

 The construction of 36 inch offshore pipeline from the BHP Billiton field to the 36 inch Bud Offshore pipeline

Project Drivers

- Open access to new field where there is no gas pipeline infrastructure
- Opportunity to develop other marginal fields as it lowers the infrastructure development cost for other players.
- New source of gas from BHP for Domestic market

1000 mmscfd 94 km 36-inch US\$ 350 Million
36-inch
US\$ 350 Million
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Sabata :

NEO Progress







NEO Progress







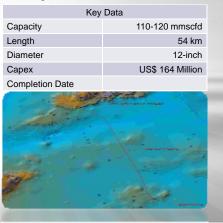
Tobago Pipeline Project Overview

The Project

 The construction of a 12 inch diameter line from BHP Billiton field to Cove Estate Tobago

Project Drivers

- Gas Supply to Power Generation Plant at Cove.
- Gas Supply to Light Industry at Cove
- Transportation of gas for Eastern Caribbean Gas Pipeline Co.
- Domestic supply to Tobago









Tobago Gas Processing Facility

- Plant Capacity
- Single train
- min. 15 mmscfd
- max. 100 mmscfd
- Metering system



Tobago Gas Processing Facility









NEO/Tobago Local Content Total local Content 18%

Service Type	Contractor
Civil works	Carillion
Mechanical	API
Sub-sea Geotechnical/Geophysical	Capital Signal
Horizontal Directional Drilling Support	OTSL
Concrete Coating	Bredero Shaw/TCL
Pressure Vessels	Mustapha Engineering Works

Project Overview

■ Tobago Receiving/Metering Station > Cove Industrial Estate, Tobago

- > Processing Capacity: 100MMSCFD

■ Tobago Pipeline

- > Start: BHPB Gas Export Platform, Offshore
- **Ends: Cove Industrial Estate, Tobago**
- 54km long
- > Water depth: 34-92m
- > Size: 12"

■ North East Offshore (NEO) Pipeline

- > Start: BHPB Gas Export Platform, Offshore
- Ends: New Abyssinia, Trinidad
- > 94km long
- > Water depth: 12m-62m
- Size: 36"





Overall Project Status			
Tobago			
Engineering Design	100%		
Civil Works Facility	65%		
HDD Installation of 12 inch pipe	100%		
Overall	60%		
NEO			
Engineering Design	100%		
HDD Installation of 36 inch pipe	65%		
9 km of onshore 36" pipeline	0%		
Overall	60%		
Overall	60%		



Project Overview

- New Supply to Union and LABIDCO Estates
- Construction of 11 km 24 inch diameter spur pipeline, Inlet Receiving Station, metering and regulation station to deliver 250 mmscfd
- Construction of 2 km low pressure HDPE distribution pipeline for tenants in the Labidco estate
- Capex US\$ 42 million

Union Estate

- Current Status
- Engineering Design Completed
 - Universal Pegasus Enesco
 - EIA Contractor REAL CEC awarded
 - Material procurement May 08 Aug 09
 - Pipe contract for 24 Inch & 16 Inch Tubecero Mexico

Union Estate

- Construction Feb 2010
 - Pipeline Contract awarded API Pipeline Company
 - Civil works contract pending award

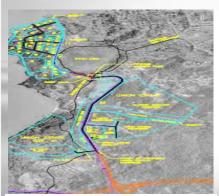
Jan 2010

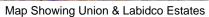
Mechanical Works to Tender

Feb 2010

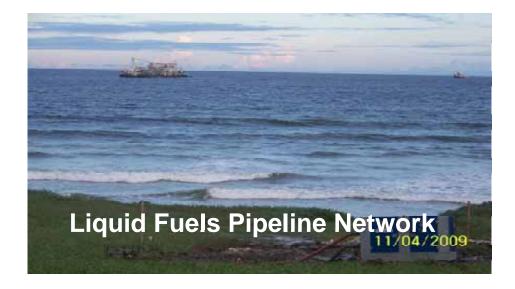
 Expected First Gas Commissioning to Estate July 1st 2010

Photos of Union & Labidco





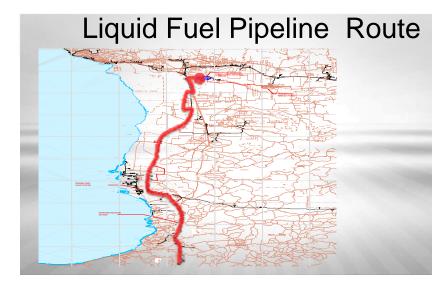




Liquid Fuel Pipeline Network Project

- Construct an 8" Steel Multiproduct Pipeline from PAP to Caroni (35km Long) to transport two (2) grades of gasoline (95 Octane; 92 Octane) Diesel Fuel & Jet Fuel.
- Construct a new state of the art Road Tank Wagon Loading Facility at eTecK's Industrial Estate at Caroni.
- Construct a dedicated Jet Fuel Pipeline (11 km Long) from Caroni to Piarco Airport
- Capex US\$ 115 Million
- Target Completion Q4 2010





Liquid Fuel Pipeline

- Replacement of existing antiquated loading facilities at Sea Lots and PAP with new state of the art facilities.
- Increased security of supply from either of two (2) loading facilities at Caroni or Sea Lots.
- Reduced Road Tank Wagon traffic on the highways.
- Elimination of emissions from loading facilities.
- Phased-out, expensive marine and Jet Fuel handling from PAP.

Carbon Footprint Reduction

The benefit of the project is that the pipeline will eliminate the use of Road tanker wagon for transportation of jet fuel as well as the elimination of the use of the Ship for transportation of products to SeaLots

Carbon Reduction - 3.5 million tonnes/yr

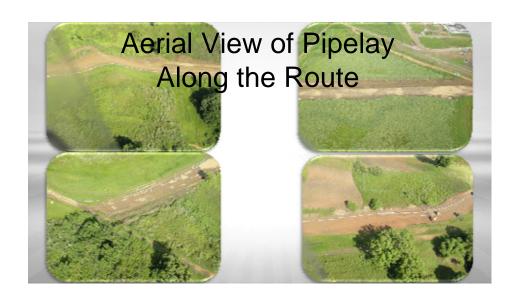
Liquid Fuel Pipeline Network Project

- Engineering Contact awarded to KBR
 - Engineering Design 100% completed
 - Procurement being handled by KBR 90% completed
- Pipe Supply Ansa Technologies 100% completed
- Control Building & Utilities Engineering LeeYoung & Partners 98% completed
- Pipeline Construction completed
- Main Mechanical works to be awarded Q1 2010
- Expected Commissioning latter part Q4 2010

Local Content Overall Local Content Value approx. 37% **Building & Utilities** Lee Young & Partners Site prep Namalco Pipeline from PAP to Pierre Fecility Rd South M Contractors Ltd-Pipeline from Pierre Rd to Caroni and Caroni to Trinweld Contractors Ltd Piarco Tanks Foundations Jagmohan Main Product Storage tanks-Damus Site Inspectors & Project management Service Trinidad Project Management Services In PAP - Product Tanks Chicago Bridge Iron Works (CBI)

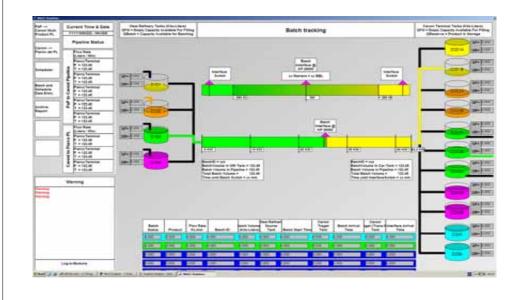


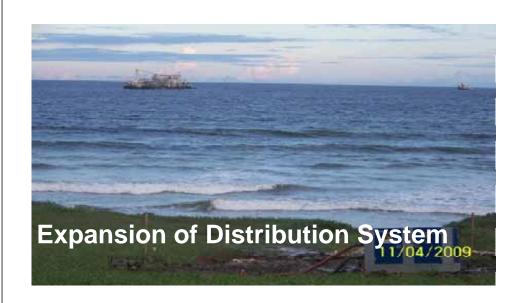




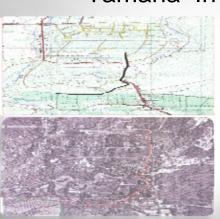








Tamana InTech Park



- Construction of 3 km 6 inch supply line and 10 km of 6 inch low pressure distribution network within the Estate.
- Contractor API
- Commissioning Feb 2010



eTech Tamina Park Progress





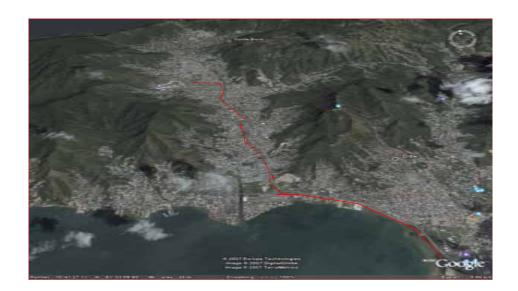
New Projects 2010 -2013

- Aggressive Development programme for LIC sector
 - Diego Martin pipeline extension
 - CNG Expansion Programme
 - Gas to Secondary Schools
 - Promotion of Gas Cooling

Distribution System Expansion



- eTeck Diamond Vale Industrial Estate
 - Construction of 6 km of 6 in diameter pipeline from Westmoorings to Diamond Vale
 - CEC Awarded
 - Construction to commence Q2 2010



Reforestation

- Additionally, NGC has adopted a "No Net Loss" Principle with regard to forest removal.
- NGC has committed to replant 315 ha of critically degraded forest areas
- In 2009 38 ha was replanted bringing us to a total of 88 ha to date

