Egyptian Natural Gas Industry Development

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United Nations – Economic Commission for Europe
Working Party on Gas 17th annual Meeting
Geneva, Switzerland
January 23-24, 2007
Egyptian Natural Gas Industry History

Early Gas Discoveries: 1967

First Gas Production: 1975

Total = 71 Million Tons

Oil
46%

Natural Gas
54%
Natural Gas Industry Main Indicators (November 2006)

- Gas Production: 5.6 BCF/D
- Gas Sales: 5.1 BCF/D
- LPG Production: 2.6 K Ton/D
- Propane Production: 0.6 K Ton/D
- C$_2$/C$_3$ mix Production: 1.4 K Ton/D
- Condensates Production: 105 KBBL/D
Total Pipelines Network Length = 16156 KM
By December 2006:

National Grid Length (High Pressure) = 5700 Km
Total Length = 16,156 Km
National Gas Grid Capacity Development

MMCMD

1996/1997: 36
2001/2002: 100
2006/2007: 130
2016/2017: 180
Natural Gas Demand by Sector Share (2005/2006)

- Electricity: 39%
- Export: 35%
- Residential: 1%
- Vehicles: 1%
- Petroleum: 7%
- Cement: 5%
- Fertilizers: 7%
- Industry: 7%
- Vehicles: 1%
Natural Gas Consumption Development

Average Annual GR = 11.2%

Natural Gas Consumption Development
2.4 BCM

34.1

Electricity
Fertilizer
Industry
Cement
Petroleum
Res. & Comm.
Vehicles
Natural Gas Consumption By Sector Share (2005/2006)

- Electricity: 62%
- Industry: 10%
- Petroleum: 10%
- Cement: 7%
- Fertilizer: 8%
- Residential: 2%
- Vehicles: 1%
NGV Industry Current Situation
(End of November 2006)

- Operating Companies: 6
- Converted Vehicles: 75 Thousand
- Fueling Stations:
  - Operating: 110
  - Under Construction: 17
- Conversion Centers: 54
- Natural Gas Consumption: 27.4 MMCM/Month (Nov.)

### Vehicle Types and Usage

- Taxi: 72%
- Buses: 2%
- Mirobuses: 3%
- Private: 9%
- Light Trucks: 1%
- Pik-up: 7%
- Fork Lift: 3%
- Others: 3%
Gas Export Projects – Cont.

Through Pipelines:

**ArabGas Pipeline:**
Total Capacity = 10 BCM

To Jordan, Syria & then to Lebanon, Cyprus and Europe

“Phase I “ To Jordan:
(Al Arish – Taba- Aqabah)

Export : 1.1 - 3 Billion CM / Y.
Operation : July 2003.
“Phase II ” Aqaba–Rehab:

36”/393 Km Pipeline System
Investments: US $ 270 - 300 million

“Phase III ” Jordan/Syria/Turkey

36”/ 540 Km Pipeline System
Investments: US $ 400 - 500 million
As LNG: Two Projects

**First Project with Union Fenosa (at Damietta):**

- Contract was signed in July 2000.
- One train of a total capacity of 7.6 BCM annually (4.8 million tons LNG).
- Investment: over US $ 1.3 billion (EGAS 20% & UF 80%)

Export of the first LNG Cargo: Jan. 20, 2005
The Second Project with BG, Petronas, GDF, EGPC & EGAS (at Idku):

- Contract was signed in April 2001.
- Two trains of total capacity 12 BCM annually (7.2 MM tons).
- Investment: US $ 1.9 billion
- Investment Shares:
  - EGPC & EGAS 24%,
  - BG, Petronas 35.5% each,
  - GDF 5%

Export of the first LNG Cargo: May 2005
Export of the first LNG cargo from train two: September 2005
2nd Project in Idku (Alex.)
Egyptian LNG Export

To USA

To Italy
NGL Recovery Development Project (UGD)

Objective: Extract Gas Valuable Derivatives

Capacity: 1100 MMSCFD from Offshore Gas Field North Port Said

Operation: End 2004

Ann. Products:
- 330 thousand tons LPG (local market)
- 280 thousand tons propane (export)
- 500 thousand tons ethane (feedstock for Petrochemical industry)
- 1 million barrel condensates (local refineries)

Production & Export Started January 2005
Thank You