Committee on Sustainable Energy

The Role for Gas in Energy Access and Economic Development

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Access to energy – key to social and economic development

- Farming and agriculture
- Water and irrigation
- Industrial development & job creation
- Health services & education

Gas – can support all sectors of society
The Gas Value Chain

Upstream

Midstream

Gas – many options for utilisation!

Power

Industrial

Transport

Commercial

Residential
IGU support available to UN/World Bank - focus on domestic market development

- Share best practice strategies
  - Country master plans on gas utilisation
  - Public/private - roles & governance
- Share successful business models
  - Sector based: power, industry, distribution, CNG, LNG
- Financing models for gas infrastructure

IGU membership – a pool of competence!
Case: Impact of gas power plant (CCGT, 55% efficiency, ~50% load factor)

- A family of 4: 1500 kwh/yr (basic needs)

- Standard 420 MW plant - 340 mill Sm3
  - Power for 5 million persons

- Standard LNG export plant – 6 bill Sm3
  - Power for ~90 million persons

- Nigeria gas production 2013
  - ~40 billion Sm3

420 MW

Approx.
1,9 million KWH

1,3 million families / 5 million people
Industrial development

- Industrial plant – ammonia/fertilizers
  - For domestic and export markets

- Industrial plant - methanol
  - Diversify energy export

- Small scale industry
  - Need stable power supply

- Added value and job creation
- Anchoring projects to secure financing
Energy access and......

- Less indoor and outdoor pollution
- Reduction of deforestation
- Reduced land erosion
- Reduced gas flaring from oil production

Protecting the environment and saving lives!