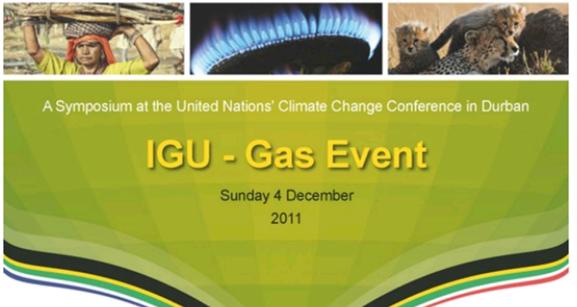


## **COP 17**

UN Climate Change Conference Durban, South Africa 26 November - 9 December 2011







By:
Ho Sook Wah
Chairman, Coordination Committee
International Gas Union (IGU)

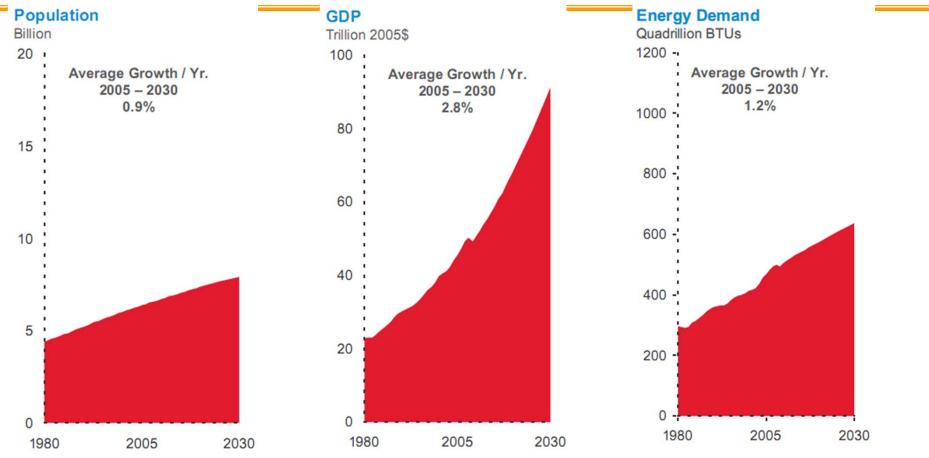
4<sup>th</sup> December 2011 Durban | South Africa





#### WORLD DEMAND FOR ENERGY IS INCREASING





- Key drivers: population growth, economic expansion, urbanisation and individual's prosperity.
- The world faces a dual challenge of energy security and environmental concerns.
- The world's energy equation becomes more complicated as sustainability takes place accordingly.





### NATURAL GAS MEETS GLOBAL NEEDS



#### Global needs:

- More energy
- Affordable energy
- Cleaner energy
- Safe energy

### Natural gas is:

- Abundant
- Affordable
- Acceptable







Natural Gas CARES for the world



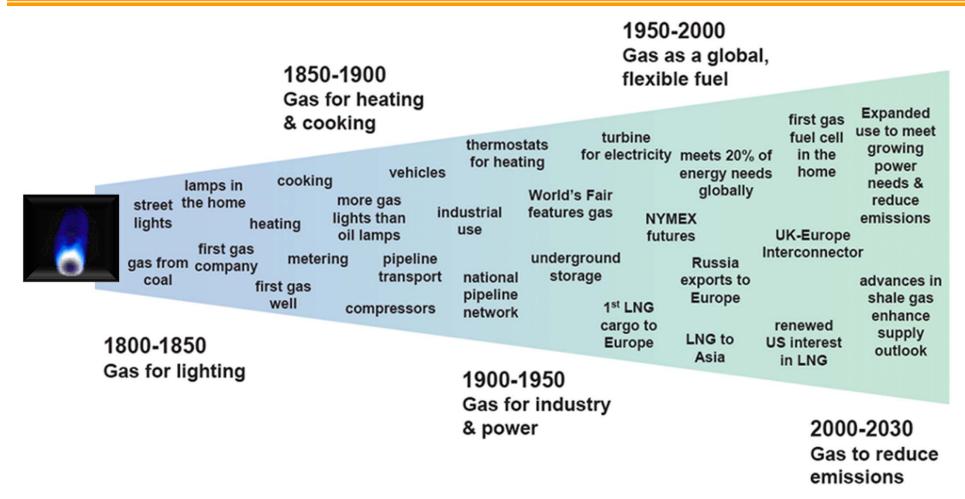
Gas: Part of the long term energy solution





### **GAS USE EVOLVES OVER TIME**





It is adaptable in response to the world's changing needs.





### **N**ATURAL **G**AS HAS A VARIETY OF USES





Fuel for Gas District Cooling



Fuel for Residential



Fuel for Commercial



Fuel for Automotive



Fuel for Industry



Fuel for Power Generation



Fuel for Petrochemical Feedstock

• Gas is the preferred fuel due to its efficiency, flexibility, economic and environmental credentials as well as a better public acceptance compared to nuclear power and coal-fired plants.

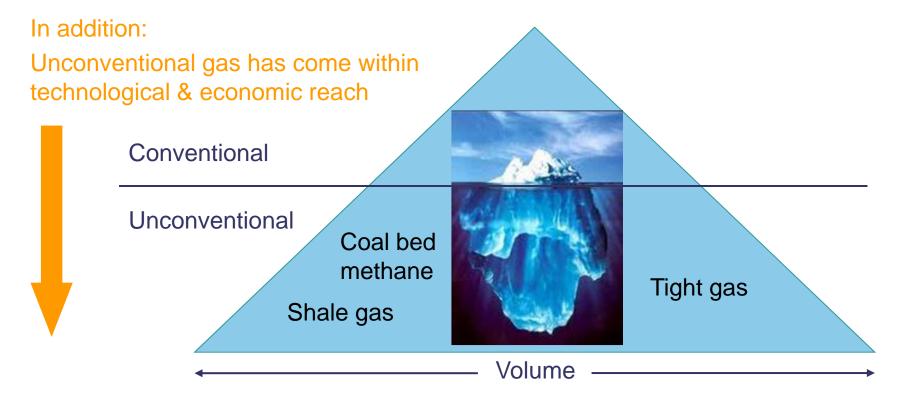




## NATURAL GAS RESERVES — PLENTIFUL WITH MORE TO COME



### Proven conventional reserves are growing



Altogether recoverable resources for over 250 years at current production rates.

- IEA-Golden Age of Gas 2011-





## **S**OME **K**EY **I**SSUES STILL EXIST



### Issues impacting the global gas industry



**Energy Policy and Regulation** 



Shale Gas



**Gas Pricing** 



Image of Gas



Impact of Fukushima





Natural

gas is

clean.

Natural gas

promotes

sustainable

transport.

Natural gas

vehicles

improve

air quality

efficiency

in large

cities.

and energy

## Natural Gas offers a Realistic Path To a Low Carbon Economy

Unlike renewable

technologies that

must be heavily

subsidized by

governments,

to affordably

reduce their

emissions.

natural gas use

allows countries

Natural

gas does

not reauire

subsidies.





Gas can serve as

a flexible partner in

like wind and solar,

power generation

for intermittent

energy sources

facilitating the

phase-in of

renewables.

**Gas-fired plants** 

require less

time than

plants.

construction

nuclear or coal

Natural

gas

saves

time.

It is a clean, affordable, reliable, efficient, and secure energy source.

Natural

gas is

versatile.



The natural gas

sector has the

best safety

industry.

record in the

Natural

gas is

safe.



# YOU CAN'T TURN ON THE SUN OR THE WIND WITH A SWITCH





- □ Variability creates complex grid balancing & supply security issues
- ☐ Gas-fired generation can play a key role in maintaining grid stability and supply security





## NATURAL GAS ENABLES RENEWABLE ENERGY



### Natural Gas - Wind - Solar

Natural gas can produce clean base load support for intermittent renewables







An ideal combination

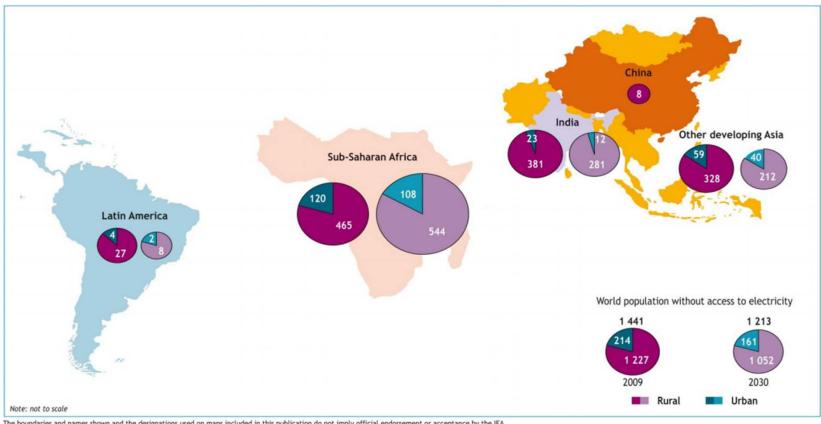




## **OVERCOMING ENERGY POVERTY** WITH NATURAL GAS



#### Number of people without access to electricity (in million)



- The boundaries and names shown and the designations used on maps included in this publication do not imply official endorsement or acceptance by the IEA.
- In 2010, 1.4 billion people or 20% of the world's population do not have the access to electricity.
- By 2030, 1.2 billion people or 15% of the world's population will still lack the access to electricity despite more widespread prosperity and more advanced technology.

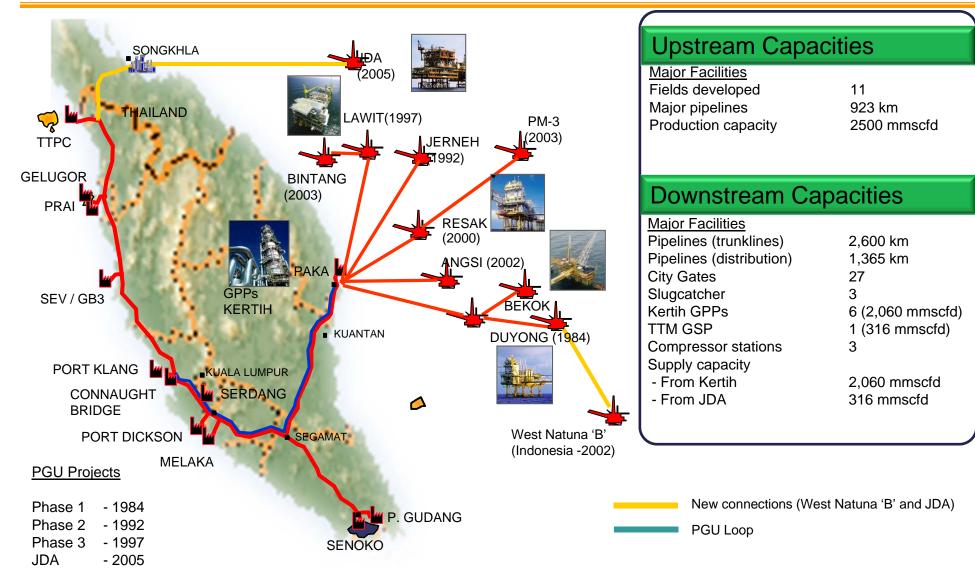




Source of Data: CIRU, PETRONAS

## ENERGY ACCESS - CASE STUDY ON MALAYSIA





**TOTAL INVESTMENT = USD 8 BILLION** 





## WELCOME TO THE 25<sup>TH</sup> WORLD GAS CONFERENCE











# "GAS: SUSTAINING FUTURE GLOBAL GROWTH"

Kuala Lumpur Convention Centre 4 to 8 June, 2012

www.wgc2012.com/,www.igu.org/



## THANK YOU FOR YOUR KIND ATTENTION I

