

# High Level Energy Forum

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Global Forum on Sustainable Energy  
GFSE - [www.gfse.at](http://www.gfse.at)

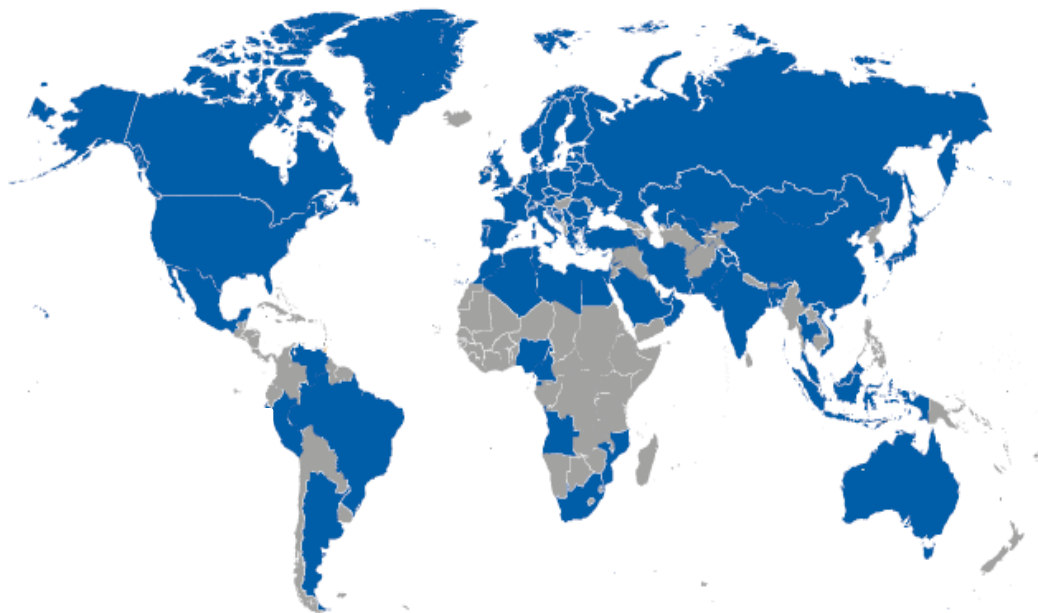


## How natural gas can contribute to Paving the Way for Sustainable Energy for All

Torstein Indrebø  
Secretary General of IGU

Accra, 30 October 2012

# IGU represents over 95% of the global gas market



**IGU members**  
**83 Country members**  
**39 Company members**



- Has served the global gas industry since 1931
- Promotes political, technical & economic progress of the gas industry
- Supports and facilitates the global transfer of technology and know-how
- Emphasises sound environmental performance
- The World Gas Conference every 3 years

# What is the current situation with regard to energy?

## Some facts:

- More than 1.4 bn people without access to electricity
- Some 2.5 bn people use traditional biomass for cooking & heating

## Need for:

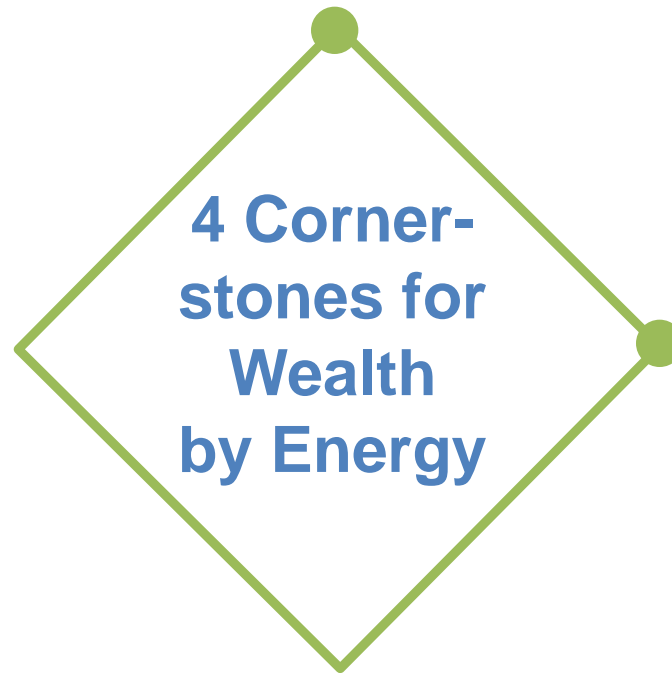
- Electricity – no blackouts
- Better indoor & outdoor air quality
- Enhanced economic development & more jobs



**Investment barriers have to be overcome**

# What are the success factors?

## Political & legal framework



## Knowledge

- Use of energy sources
  - Infrastructure
- Distribution systems
- Commitment of people

## Economics

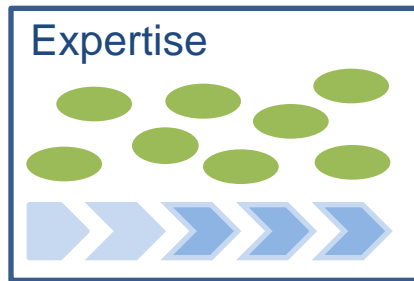
- Business models
  - Investments
- Affordability for all
- Industrial development
  - Employment/ jobs

## Resource availability

- Base load by gas

# Why is IGU here?

IGU is here to use its wide knowledge base to offer support in realising the success factors



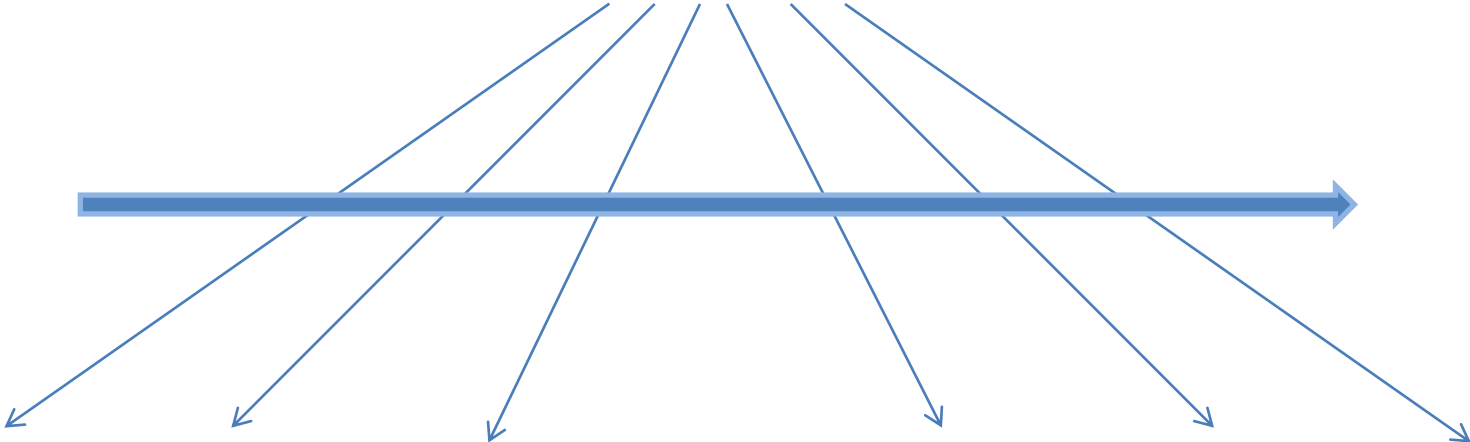
- Forming a energy portfolio with gas
- Realise synergies of renewables and gas
- Building a robust infrastructure
- Effective and efficient energy use
- Economic development by the use of gas

# The major Energy Sources

**Today the world  
needs it all**



**...but cleaner and  
efficient**



**Coal**



**Oil**



**Gas**



**Nuclear**



**Wind**



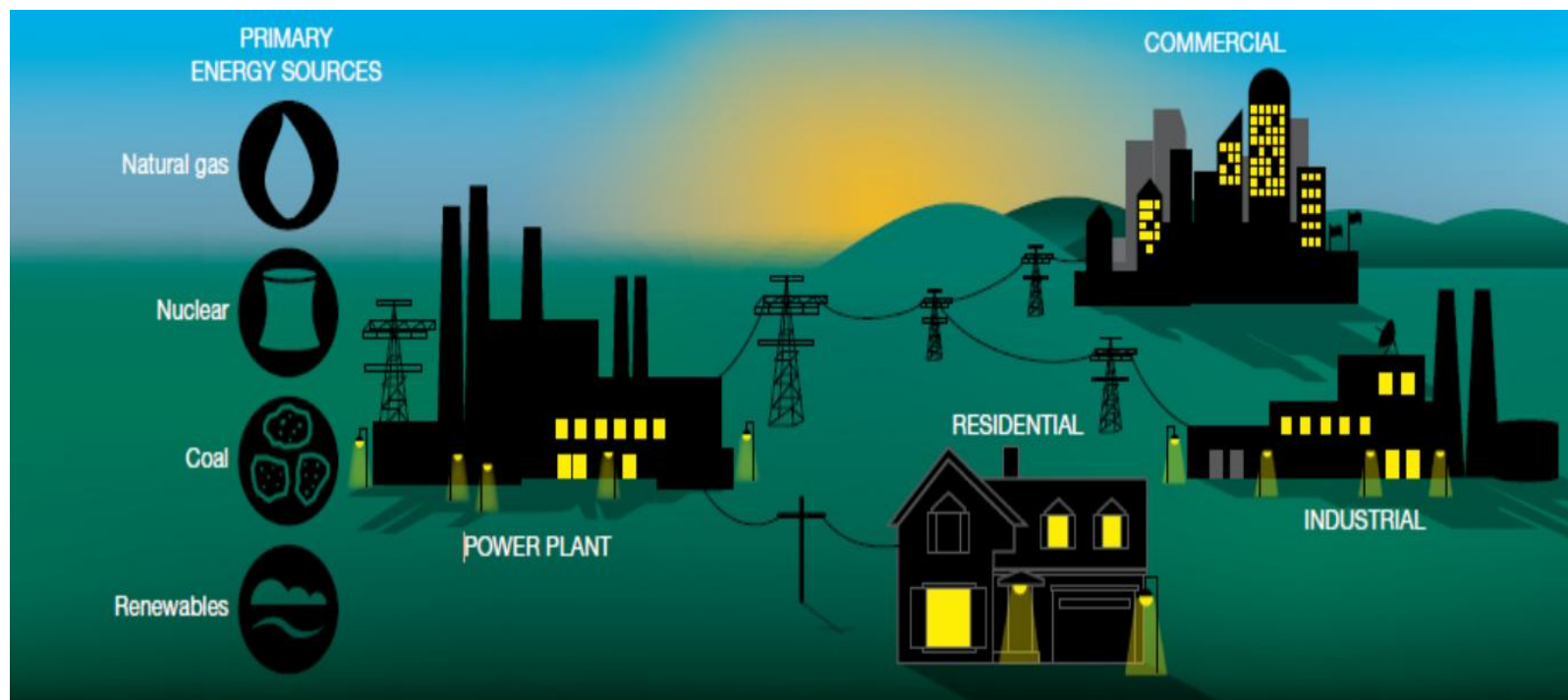
**Hydro**



**Solar**



# World loves electricity!





# How to Produce?

## Gas fired energy to electricity



**47% lower GHG emission on life cycle basis than coal**



# Natural gas can enable renewable energy

## Natural Gas - Wind – Solar – Hydro

Natural gas can produce clean base load support for variable renewables

Gas



Wind



Solar



Hydro



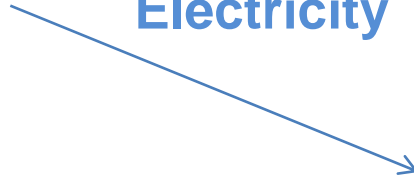
An ideal combination



# How to get affordable energy to homes?



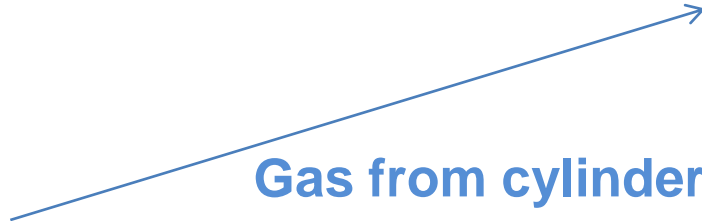
**Electricity**



**Gas from  
local grid**



**Gas from cylinders**



# Multiple uses of gas



Road transportation



Fuel for Industry



Fuel for  
Petrochemical Feedstock



Ships



Fuel for Commercial



Air conditioning

# How to get started?

## Interactive processes



### Education /learning

- Seminars
- Technical tours
- Class room



### Experts from IGU

- Political & legal framework
- Economics
- Resources availability
- Knowledge



# Thank you!

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IGU is looking forward to supporting  
the Sustainable Energy for All initiative



THE WORLD BANK  
*Working for a World Free of Poverty*

