

International Gas Union



COP 18

UN Climate Change Conference
Doha, Qatar
26 November - 7 December 2012

International Gas Union (IGU) presents

Natural Gas for a Global Sustainable Energy Future



United Nations' Climate Change Conference in Doha

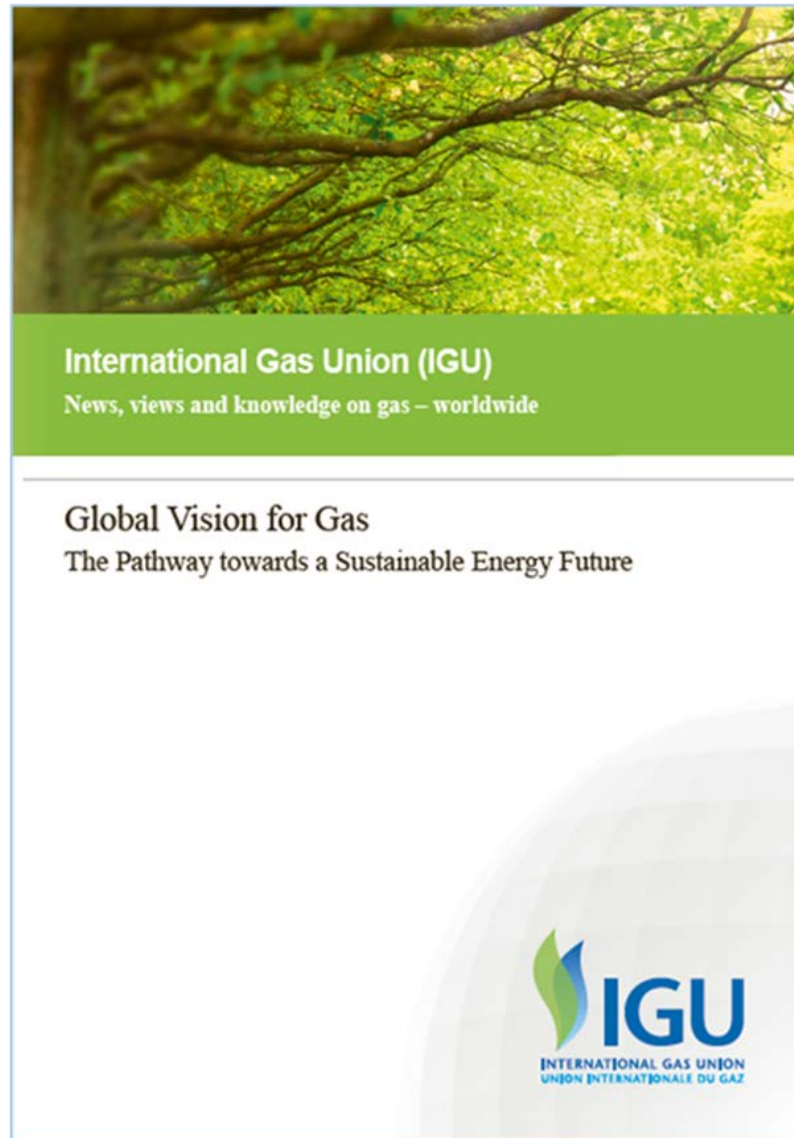
IGU - Gas Event

Friday 30 November 2012



Global Vision for Gas

The Pathway towards a Sustainable Energy Future



Key global challenges

- Population & Resource Availability
- Economic Development & Employment
- Urbanisation
- Energy Poverty & Public Health
- Air Quality & Climate Change
- Mobility
- Affordability



Above all, given the huge uncertainties about the future, we need a Pathway that is flexible and can adapt to changes; not one that locks us into a single route to the future.

A Global Vision for Gas

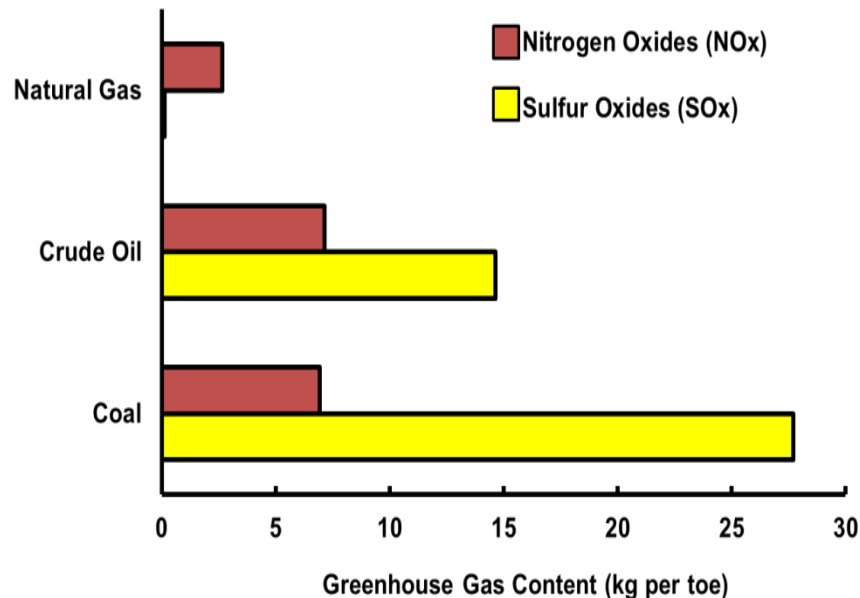
Natural gas is a fuel very well-suited to meet these challenges

- Growing availability
- The clean properties make it attractive for urban living
- Gas in power generation is a proven, low carbon option
- Its lower carbon content—relative to the other fossil
- Highly cost competitive relative to other forms of low carbon energy
- The technologies associated with natural gas are proven

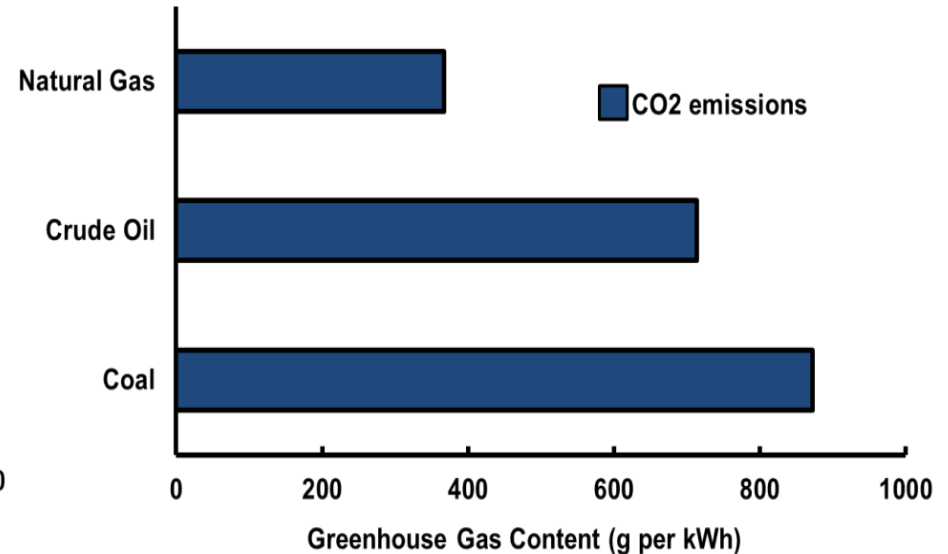


Natural gas is a clean-burning and low carbon fuel

NOX AND SOX CONTENT BY FUEL

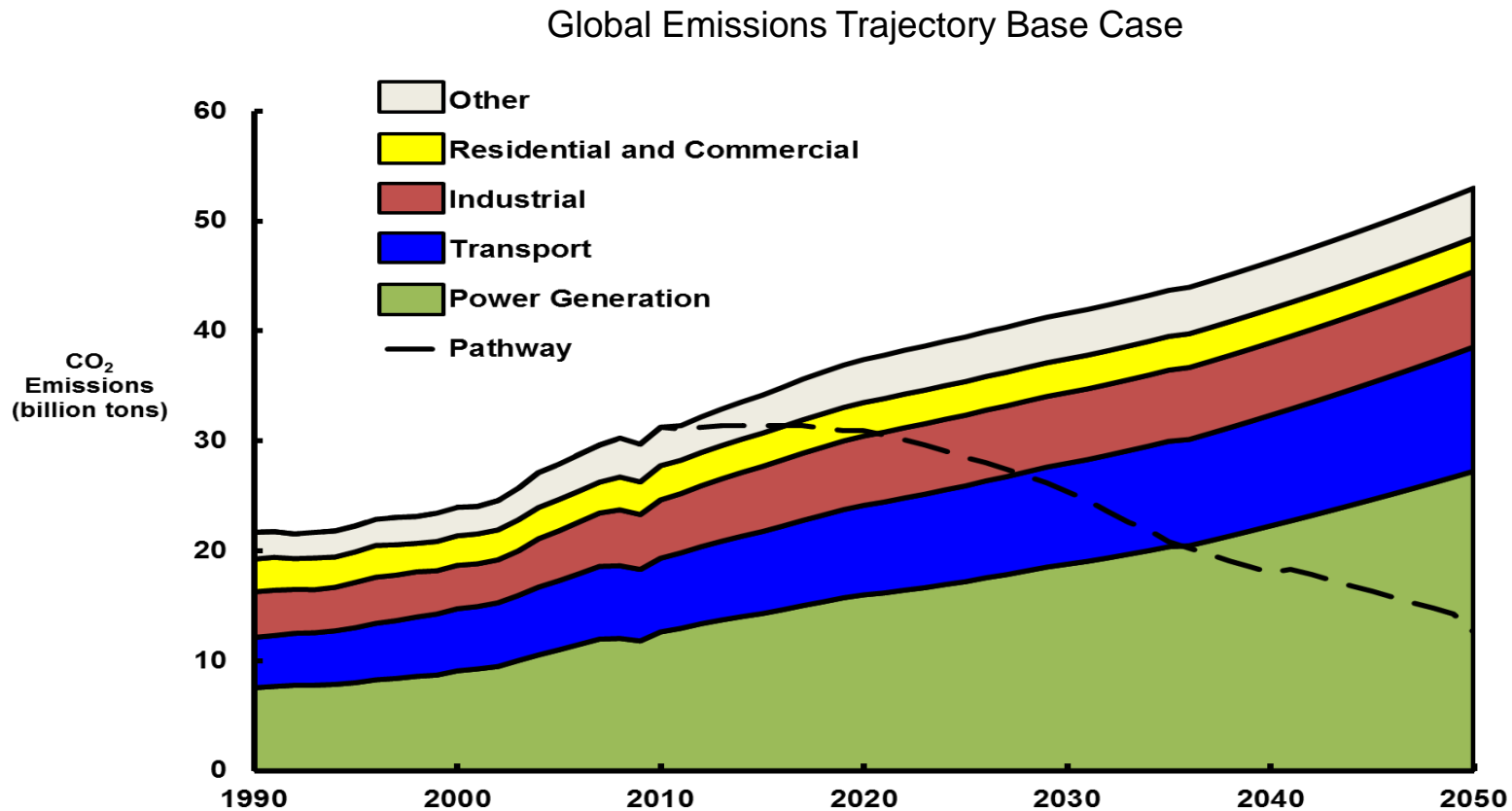


Carbon Dioxide Emitted During Electricity Generation by Fuel

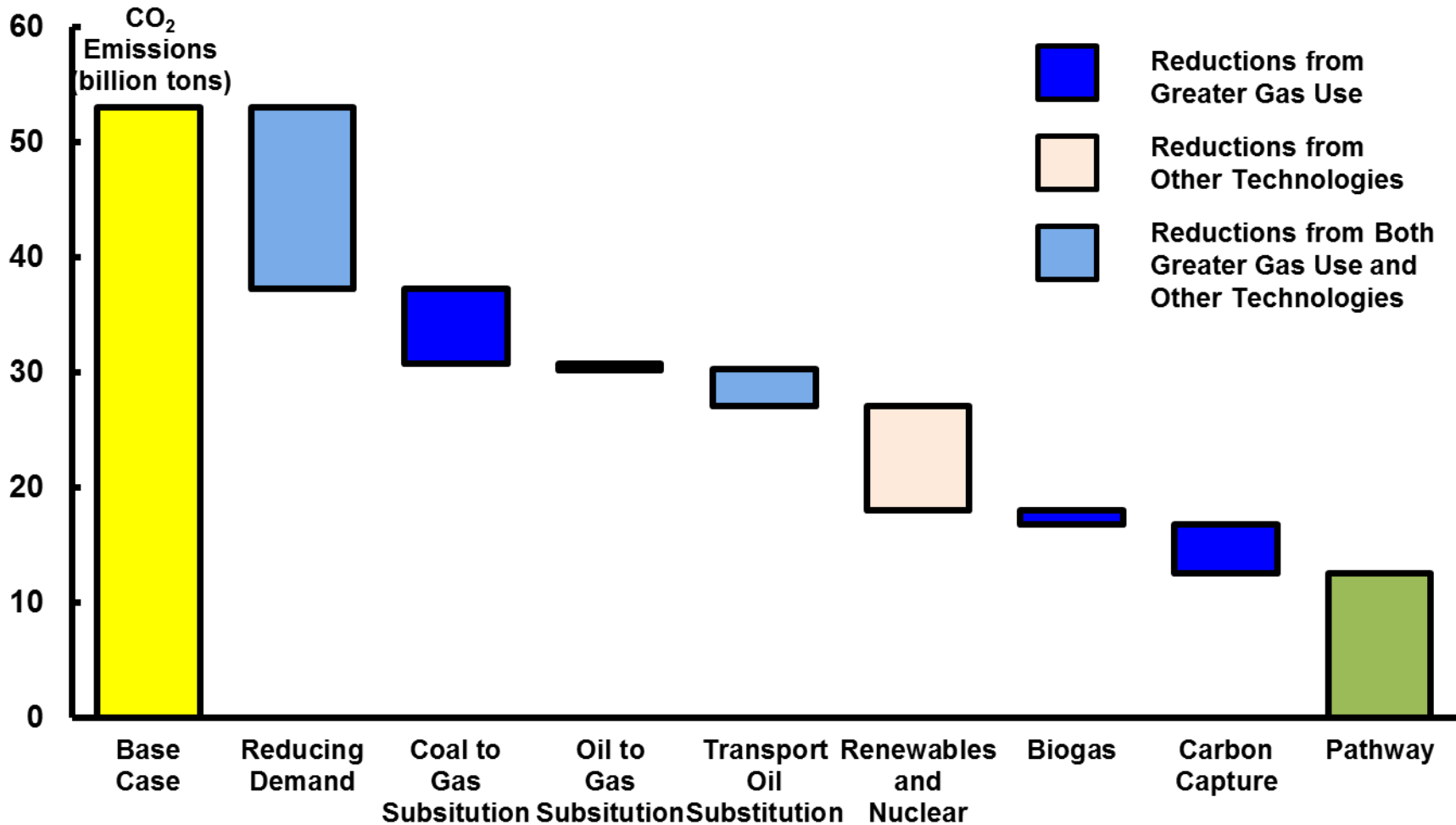


The Pathway towards a Sustainable Future

The task to meet future global energy needs whilst at the same time addressing air quality and climate change concerns is challenging.

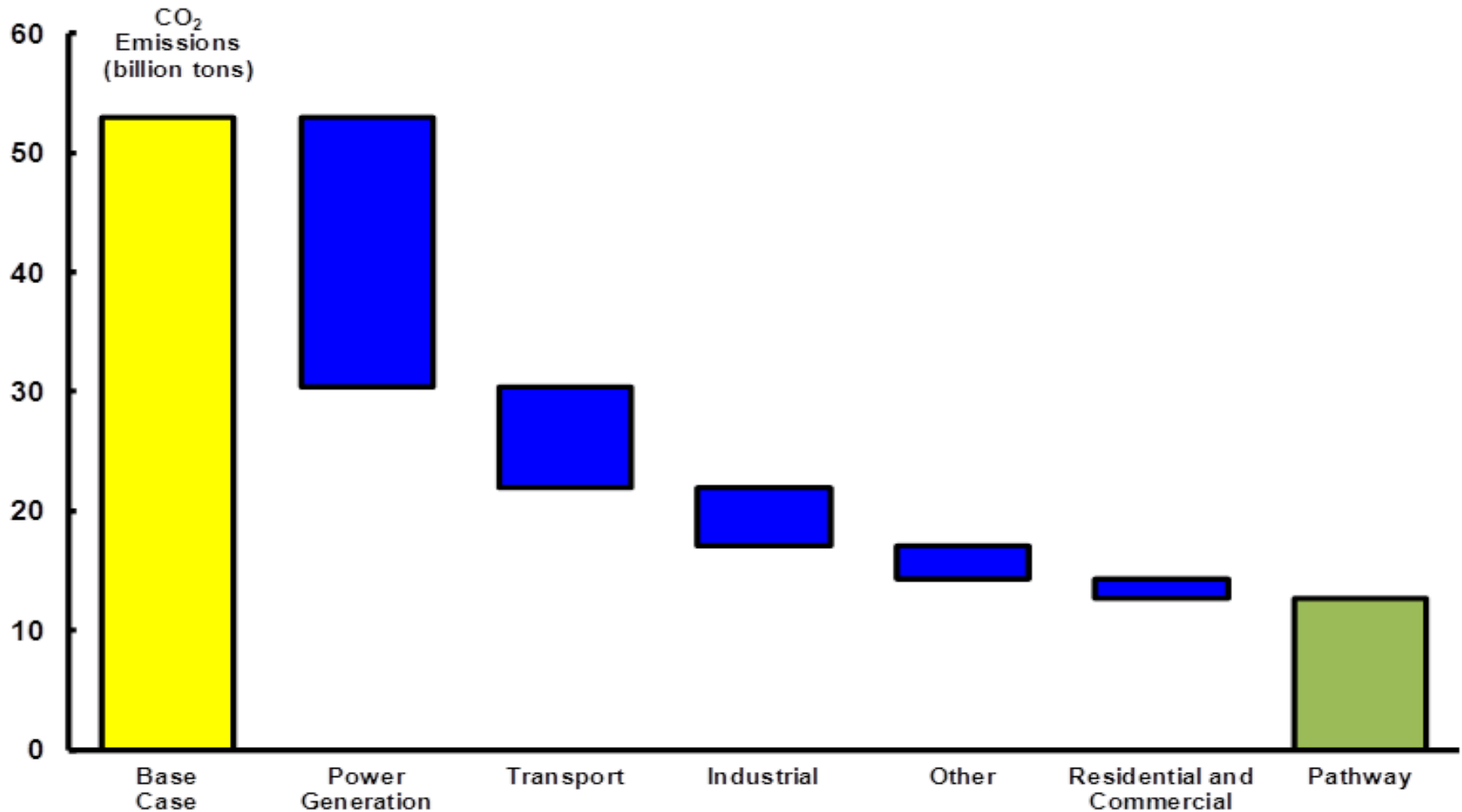


Global Emissions Reductions by Abatement Method



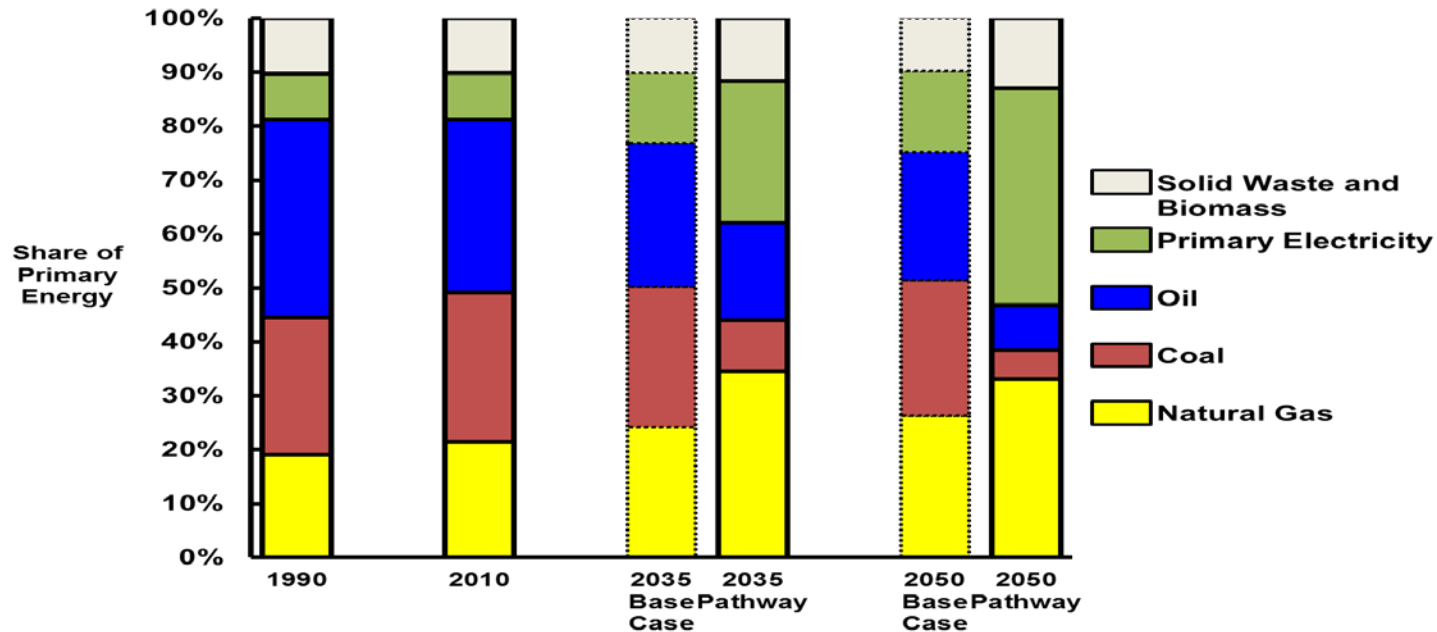
The Vision Pathway Trajectory

Global Emissions Reductions by Sector



Natural gas grows as a key pillar of the global energy mix

Market Share of Primary Energy



In the Pathway, increased development of biogas plays an important role in reducing carbon emissions

The overall growth in gas consumption depends critically on carbon capture and the use of biogas. Without these two technologies, growth in natural gas would not meet the GHG emissions target

Policy Enablers

Policy will be particularly important in the area where the greatest reductions in emissions are projected

- Demand reduction/energy efficiency
- Coal to gas substitution
- Carbon capture



Concluding Remarks: Global Vision for Gas

The ‘Global Vision for Gas’ lays out a clear pathway towards a sustainable energy future.

- There is a strong need for a portfolio approach in energy, calling upon:
 - Reductions in energy use
 - Enhanced energy efficiency
 - Expanded use of low carbon technologies
 - Greater resort to clean-burning natural gas.



Policymakers need to recognize the critical role that natural gas has to play alongside other low carbon options, and facilitate the appropriate policy enablers as befits each region based on its particular circumstances.