

26th World Gas Conference

1 – 5 June 2015, Paris, France



TS WOC 5.1 – Industrial Utilization of Gas

Natural gas as a leading fuel for efficient industry growth
5 June 2015

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Natural gas as a leading fuel for efficient industry growth

In this session we will investigate the **present and potential future role of natural gas** in the **energy final uses in the industrial sector**, giving some suggestions for the **development of gas industry**, based on the **efficient use of gas in the energy mix**



Introduction



Presentation of WOC 5.1 Study Group triennium report



Lectures from selected speakers contributing to the knowledge on the role of natural gas in industry



Q&A and conclusions

The context

Reduction of fossil energies, increase of volatility of the energy prices and economic crisis



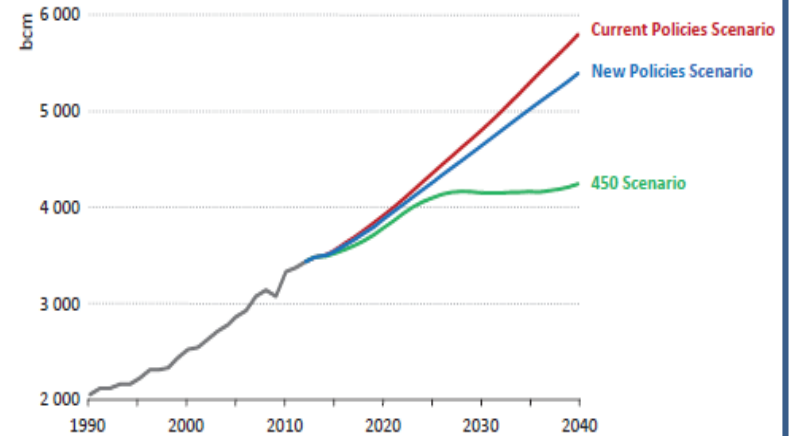
Evolution of legislation towards reduction of greenhouse gas emissions and energy efficiency (e.g. European Directive 2012/27/EU)



Technological evolution in final use of energy

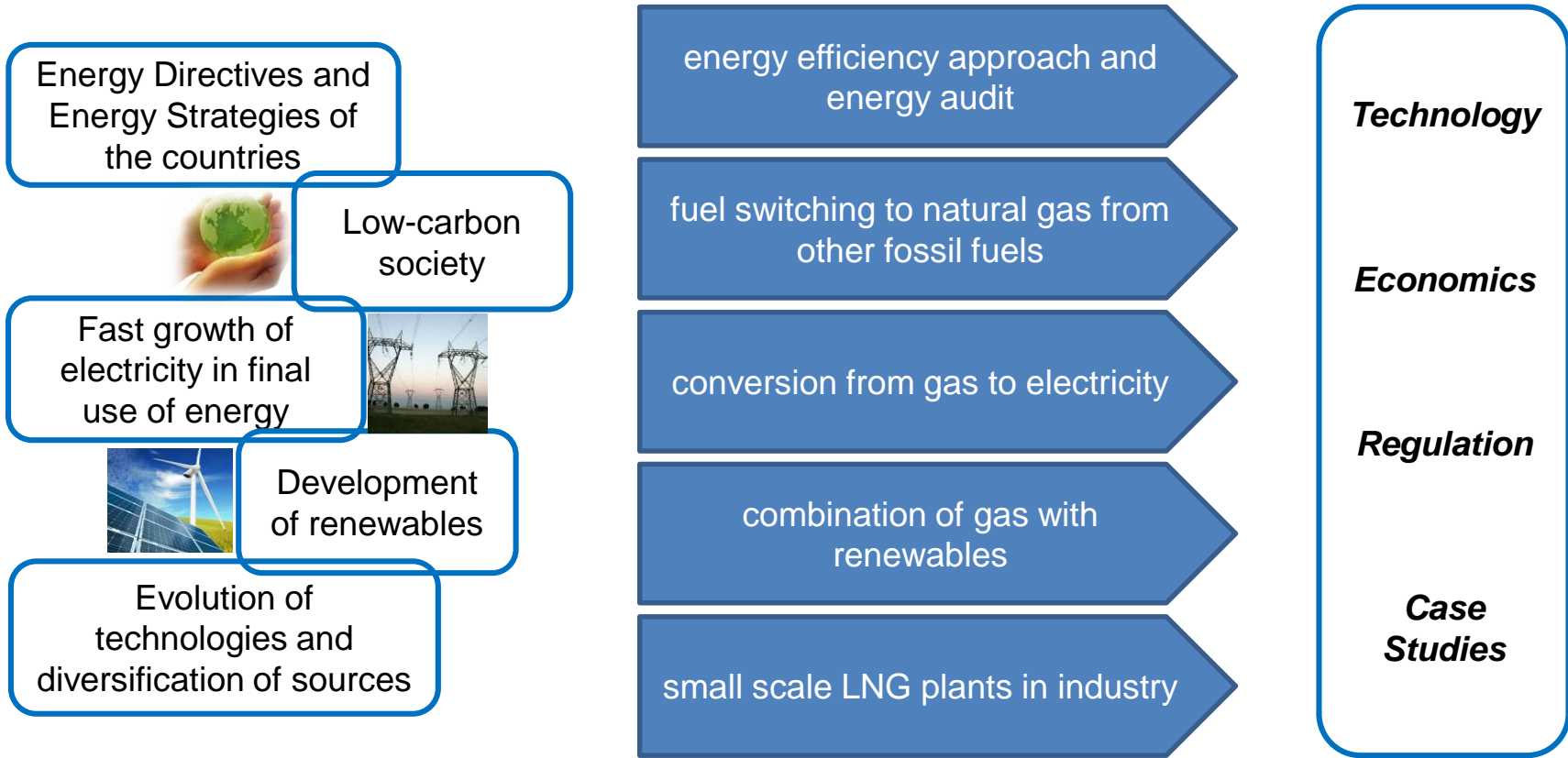


Figure 4.1 ▶ World natural gas demand by scenario



According to World Energy Outlook 2014 by IEA, global gas use will continue to grow in all scenarios there analysed

The driving forces of the Triennium Report



Speakers' agenda

- Report Presentation
 - ✓ *Philippe Buchet, Engie, France*
- Fuel switching: useful case studies
 - ✓ *Katz Sato, Osaka Gas, Japan*
- Fuel gases as more efficient energy alternatives to “electrothermy” (thermal uses of electricity) in direct heating and process heating in the industrial sector
 - ✓ *Edmilson Moutinho Dos Santos, Brazil*
- Development of high efficiency gas burners for industrial use
 - ✓ *Yuki Shibata, Japan*
- Recovering industrial waste heat with high temperature gas heat pumps
 - ✓ *Philippe Buchet, France*
- High efficient chp single 10 MW gas engine power plant experience report
 - ✓ *Ralf Losch, Germany*
- A comparison of gas turbines and gas engines for power generation, in the African context
 - ✓ *Grant Lund, South Africa*