

25th world gas conference "Gas: Sustaining Future Global Growth"

Gas quality changes, impact & remedies EF5.B WOC5

7 June (Thu.) 2012, 9:45 – 11:45



Patron

Host

Host Sponsor









Gas quality change will increase in frequency and amplitude

- Market liberalisation
- Security of supply \rightarrow diversification of sources
- More LNG
- More Biogas
- Shale gas
- H2

Countries that do not expect gas more quality variations

- Countries that have gas from a unique source
- Long term contracts for gas supply
- National rules

Countries expecting more variations

- Harmonisation of the European gas quality specification
- LNG
- Biogas
- Increasing diversification of sources

Impact on utilisations

- Countries having no experience with variations are more cautious with their answers on impact.
- In general impact expected on industrial process, mCHP (fuel cell)



- To exchange on gas quality issues in existing markets worldwide including the impact of gas characteristics variation on utilisations.
- To discuss about the remedies and way to enlarge gas quality range distributed in practise.

Session "Gas quality changes, impact & remedies" Programme



Part 1 How does gas quality impact gas utilisations?

- IMPACT OF GAS QUALITY VARIATION ON GAS APPLIANCES IN JAPAN by Mr. Tatsuo Kume Osaka Gas (15 minutes)
- IMPACT OF HYDROGEN ADMIXTURE TO NATURAL GAS ON INSTALLED GAS APPLIANCES by Mrs. Petra Nitschke-Kowsky - E.ON Ruhrgas AG (15 minutes)
- RESEARCH PROGRESS ON GAS INTERCHANGEABILITY IN CHINA by Mr. Qi Wang China Gas Society (15 minutes)
- GAS QUALITY HARMONIZATION: THE EUROPEAN SITUATION Part 1: GASQUAL project results by Mr. Jean Schweitzer - DGC (10 minutes)

Part 2 Solutions: Controlling combustion or mixing gases as a way to accept a wider quality range

- COMBUSTION CONTROL BASED ON FLAME IONIZATION by Mr. Sungbae Park Bosch Thermotechnology & Martin Kiefer - Karlsruhe Institute of Technology (10 minutes)
- DEVELOPMENT OF NEW CALORIFIC VALUE ADJUSTMENT SYSTEM FOR WIDE RANGE OPERATION by Mr. Naoya Iwata Toho Gas (10 minutes)

Part 3 Widening the gas quality range distributed in practise

 GAS QUALITY HARMONIZATION: THE EUROPEAN SITUATION Part 2: Possible models for harmonisation in the EU by Mr. Francois Cagnon - GDFSUEZ (10 minutes)

Part 4 Round Table Mr Daniel Hec - Marcogaz

Part 4 Round Table Mr Daniel Hec - Marcogaz



THE RIGHT BALANCE FOR GAS QUALITY?

Two main options:

1) GAS APPLIANCES SHALL BE ABLE TO COPE WITH SIGNIFICANT GAS QUALITY VARIATIONS

Or

2) GAS QUALITY SHALL BE KEPT STABLE