



Smart Energy Network

— New Energy System towards the Low Carbon Economy —

World Gas Conference

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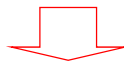
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Global Challenges for Energy and Environment

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| <ul style="list-style-type: none">● Climate Change<ul style="list-style-type: none">— Long-term global challenge: 50% reduction through 2050 | <ul style="list-style-type: none">● Sustainability<ul style="list-style-type: none">— Economy, Reliability, Security— Business and Living Continuity |
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- Low Carbon Energy Systems
 - High efficient natural gas utilization
 - Large scale introduction of renewable energy resources

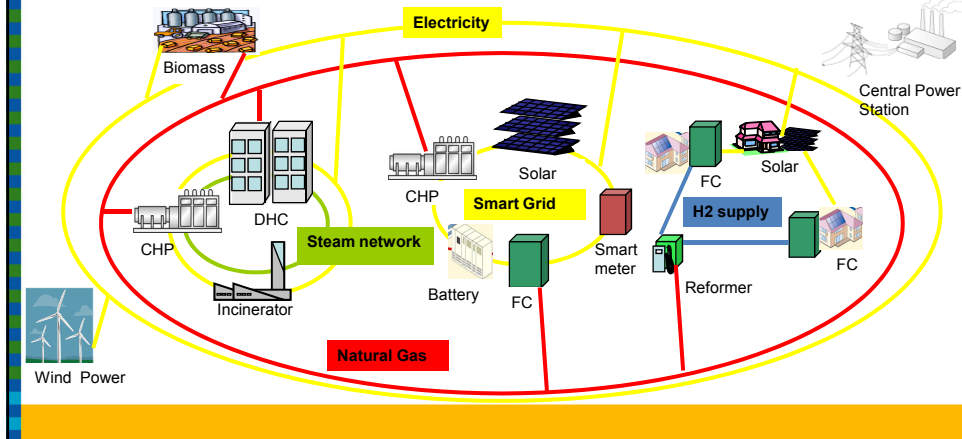


Smart Energy Network



Smart Energy Network

- Increasing efficiency, flexibility, security, reliability and quality
- Integration of central and distributed systems, and all clean energy technologies



Key Technologies for Smart Energy Network

- High efficient CHP and Distributed energy technologies
- Fuel Cell technologies
- Efficient and combined use of renewables and natural gas
- Hydrogen supply and utilization
- ICT for Smarter Network