

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

Smart Energy Network

New Gas Technology after the Earthquake

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Thursday 7 June The 25th World Gas Conference Kuala Lumpur, Malaysia

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Damage of the earthquake and tsunami



From top of the Ishinomaki Gas building © Ishinomaki Gas Co., Ltd.

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Scale of the Earthquake



• Date and Time: 11 March 2011 14:46

Depth 24km

- Magnitude: 9.0 (the largest earthquake recorded in Japan)
- Epicenter: N38.1, E142.9 (130km ESE off Oshika Peninsula)

	First tsunami	Maximum height of tsunami
Miyako (Iwate)	+0.2m (March 11, 14:48)	+8.5m<= (March 11 <i>,</i> 15:26)
Ofunato (Iwate)	-0.2m (March 11 <i>,</i> 14:46)	+8.0m<= (March 11, 15:18)
Soma (Fukushima)	+0.3m (March 11 <i>,</i> 14:55)	+9.3m<= (March 11, 15:51)
Ishinomaki (Miyagi)	+0.1m (March 11 <i>,</i> 14:46)	+7.6m<= (March 11, 15:25)

Major discussion points for a new Basic Energy Plan for Japan



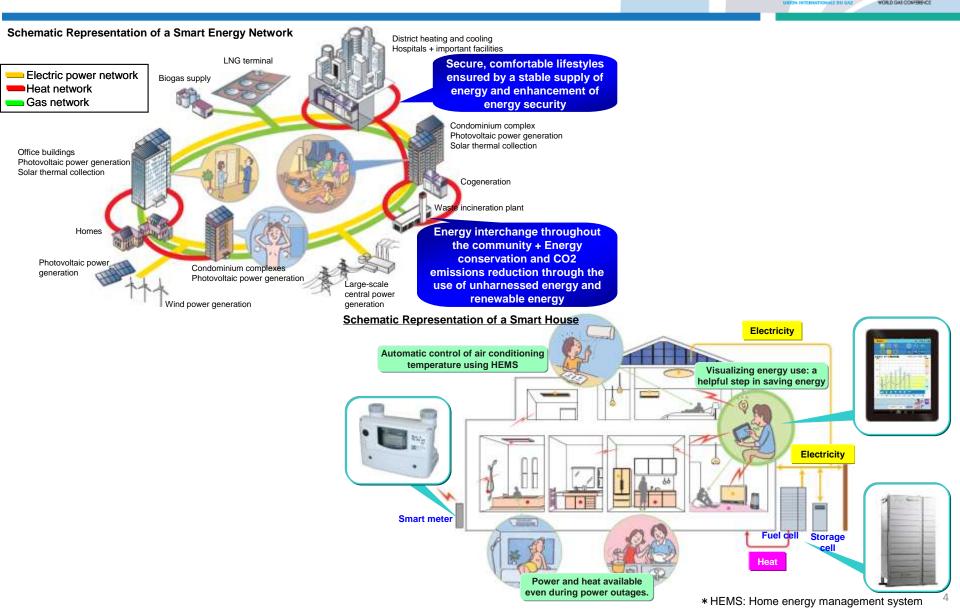
The desired energy mix and direction of energy policy reform

- (1) Desired energy mix
 - a) Fundamental reinforcement of energy and electricity conservation
 - b) Accelerated development and use of renewable energies
 - c) Effective utilization of fossil fuels (ex. natural gas)
 - d) Reduced dependency on nuclear power

(2) Direction of energy policy reforma) Realizing the world's most advanced energy-saving societyb) Realizing a distributed next-generation energy system

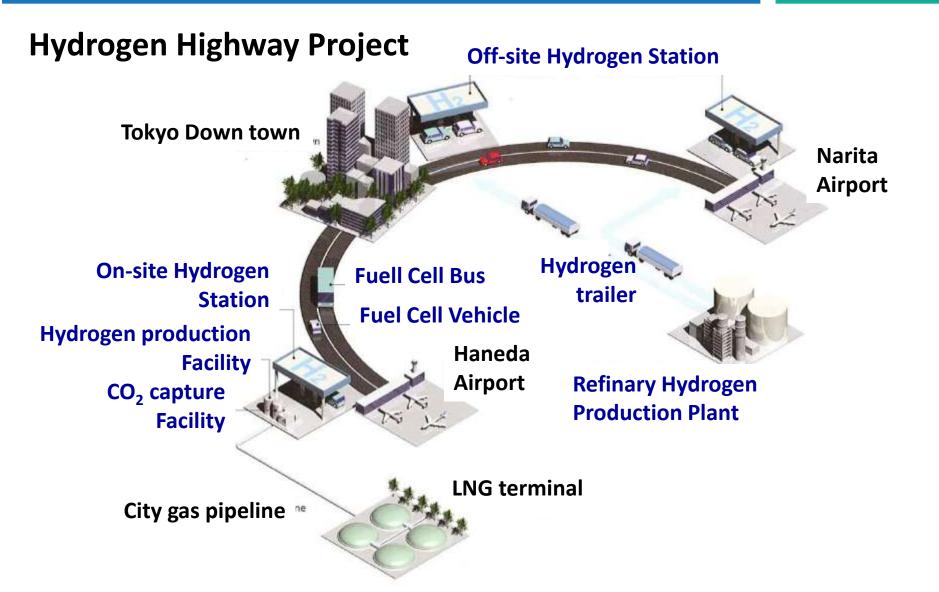
(3) Need for technical innovation

Schematic Representation of a Smart Energy Network and a House



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Technical and Social demonstration of Regional Hydrogen Supply Infrastructure



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