WGC 2012
YOUTH PROGRAMME
Kuala Lumpur

Topic: The Energy Future is in Gas

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Session Date/Time : 05 June 2012/10.00-11.00 AM

KUALA LUMPUR 2012
WORLD GAS CONFERENCE

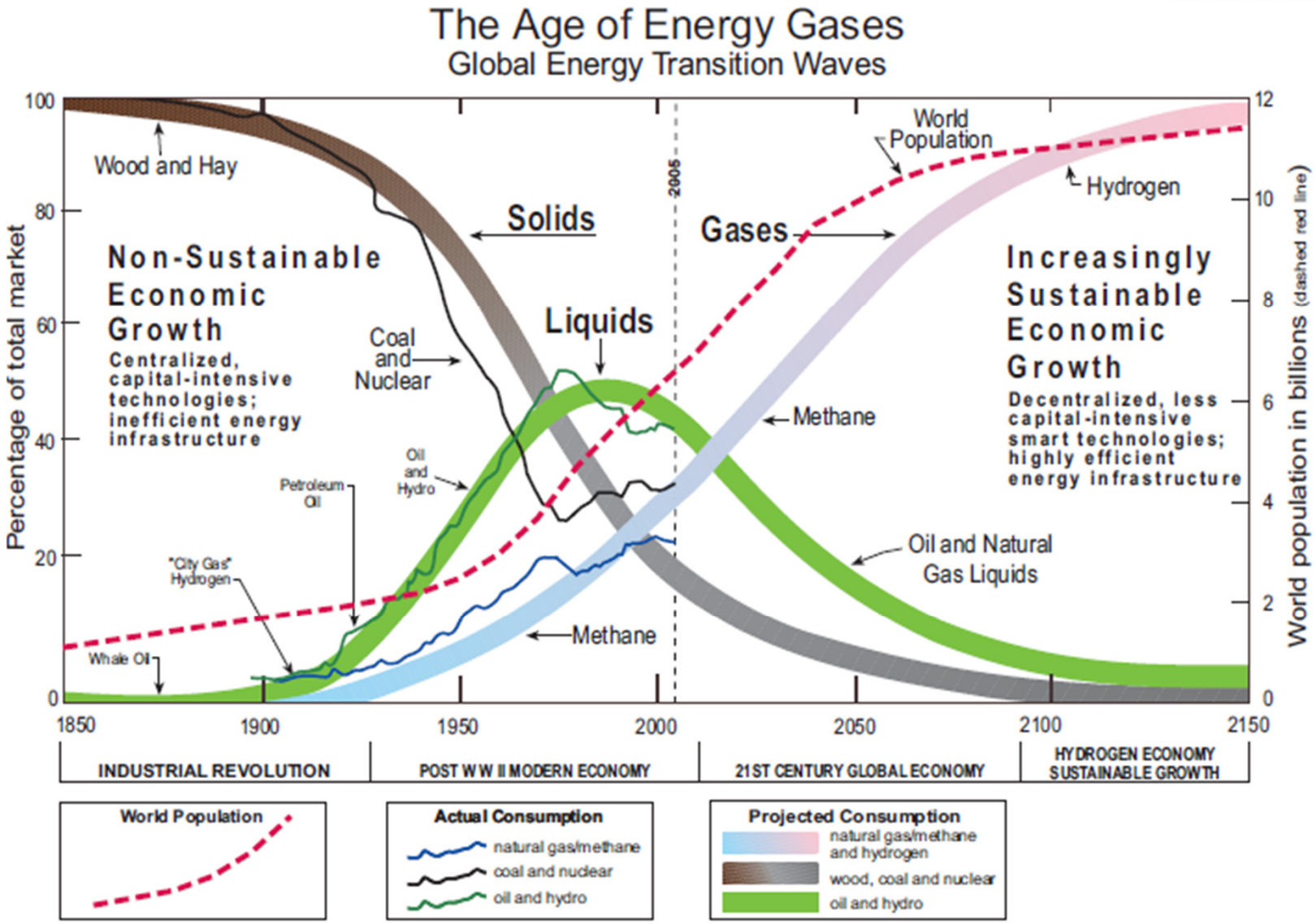
INTERNATIONAL GAS UNION · UNION INTERNATIONALE DE L'INDUSTRIE DU GAZ ·

London 1952

London 2008


Celebrating 50 years of Road Safety
CANNON STREET
95
LLU 957
TRAVEL
CENTRE
STATION
LINE.
LINE
Lavatories
Public Subway

Gaseous energy sources are inexhaustable and indispensable



Bright future of electricity!

Natural gas has advantages in energy transmission

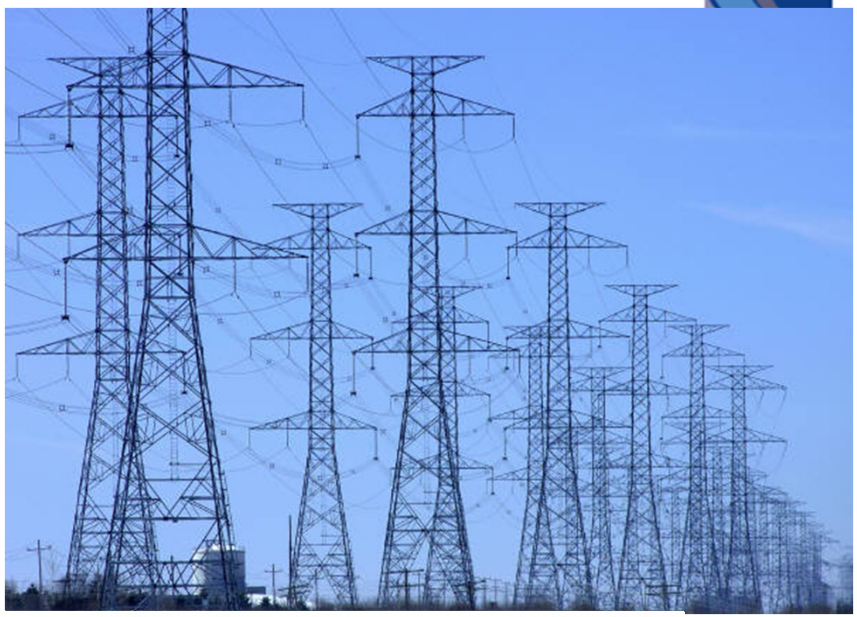
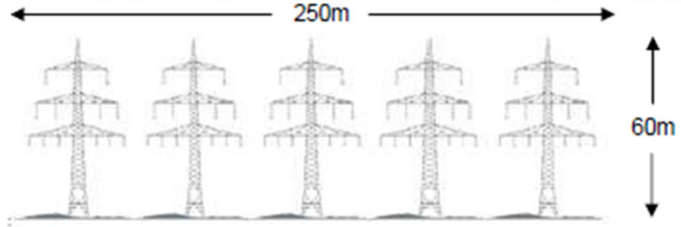


Foto: Ruttkamp; Grafik: RAG

VS.



„Footprint for transmission of 14,000 MW electricity“

1 invisible gas pipeline DN900

Wide clearance for five 380 kV electric power lanes

Natural gas has advantages in storage

Hydropower plant (Germany)
Project Atdorf (2018)
(Hornberg basin II)

Foto: Meyer, Schluchseewerke (google)

Water: 9 mio m^3
Electricity storage
facility : 13 GWh
Investment costs : 1 bn €

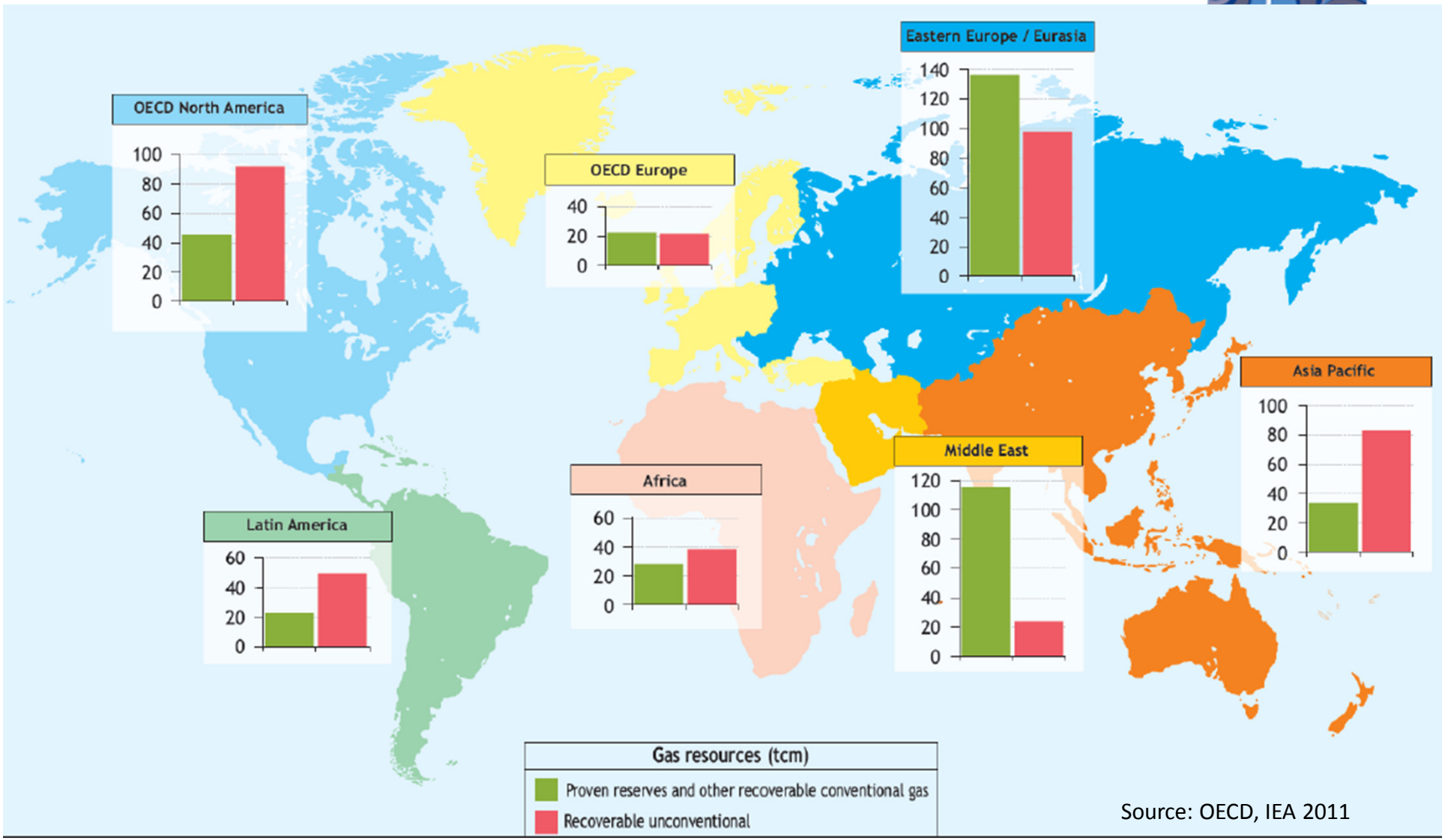
x 2000 =

Underground gas storage
Rehden (Germany)
in full operation

Foto: wingas

Gas: 4,200 mio m^3
Electricity storage
facility: 28,000 GWh
(60 % Efficiency)
Investment costs: < 1 bn €

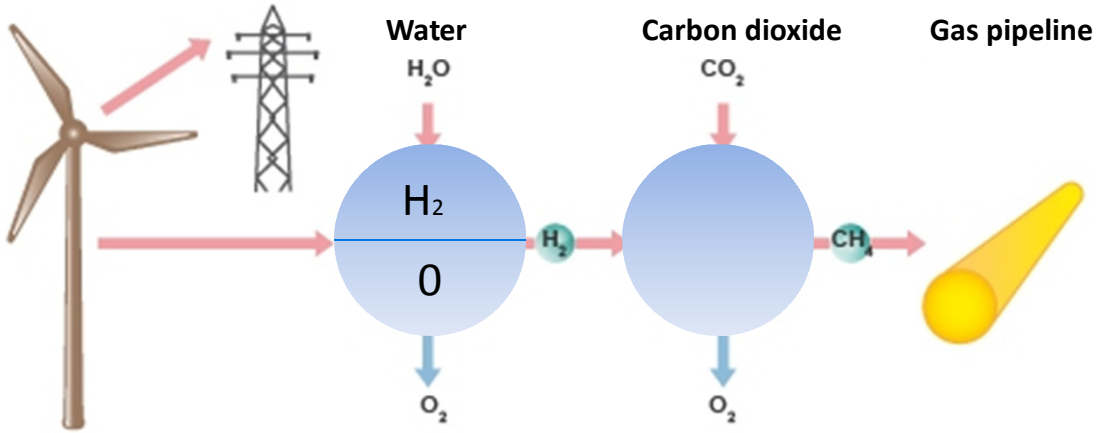
Global gas resources of un-/conventional resources exceed 250 years of current production



Source: OECD, IEA 2011

Gas is not necessarily fossile

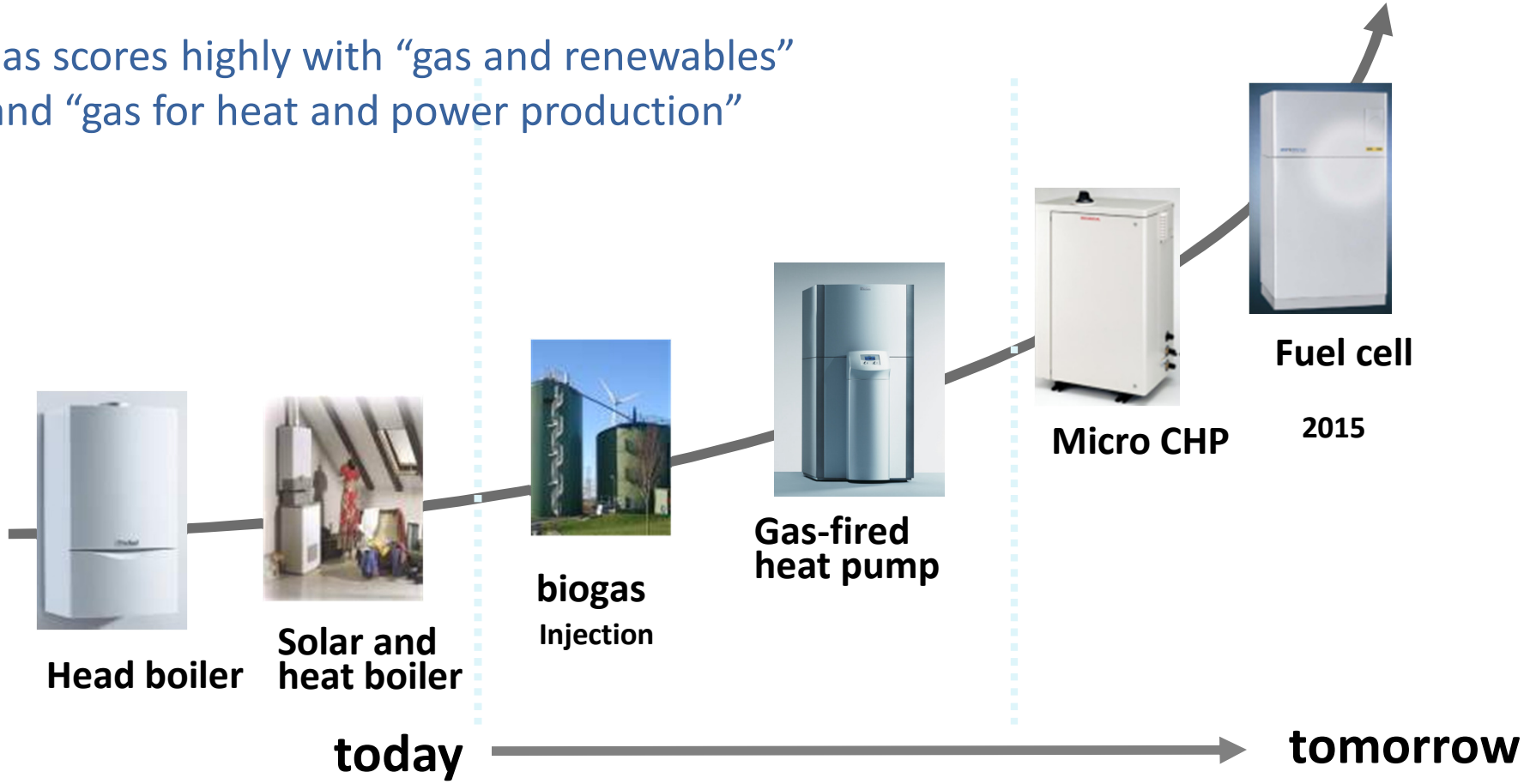
Production of synthetic natural gas by electrolysis



Biogas production from wood, sewage sludge, crop, algae, etc.

High-tech utilization

Gas scores highly with “gas and renewables” and “gas for heat and power production”



Paradise

Foto: Bayerngas

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