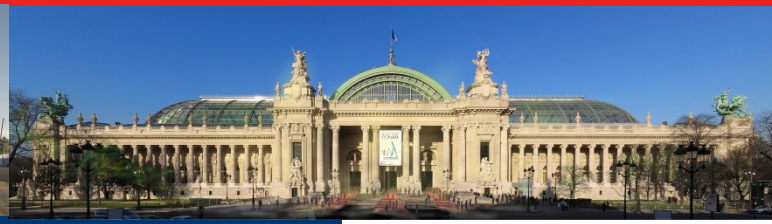
26th World Gas Conference

1 – 5 June 2015, Paris, France



Thematic Session PGC F-2
Convergence of gas appliances and infrastructure with electric systems and renewable energy

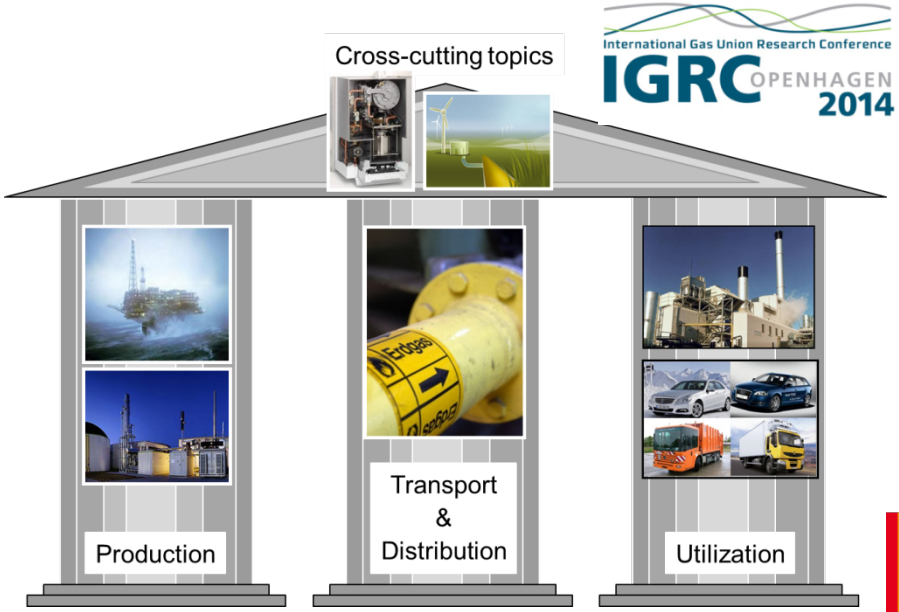
Prof. Dr. Gerald Linke
German Gas & Water Association (DVGW)

IGU
WGCPARIS2015
WORLD GAS CONFERENCE

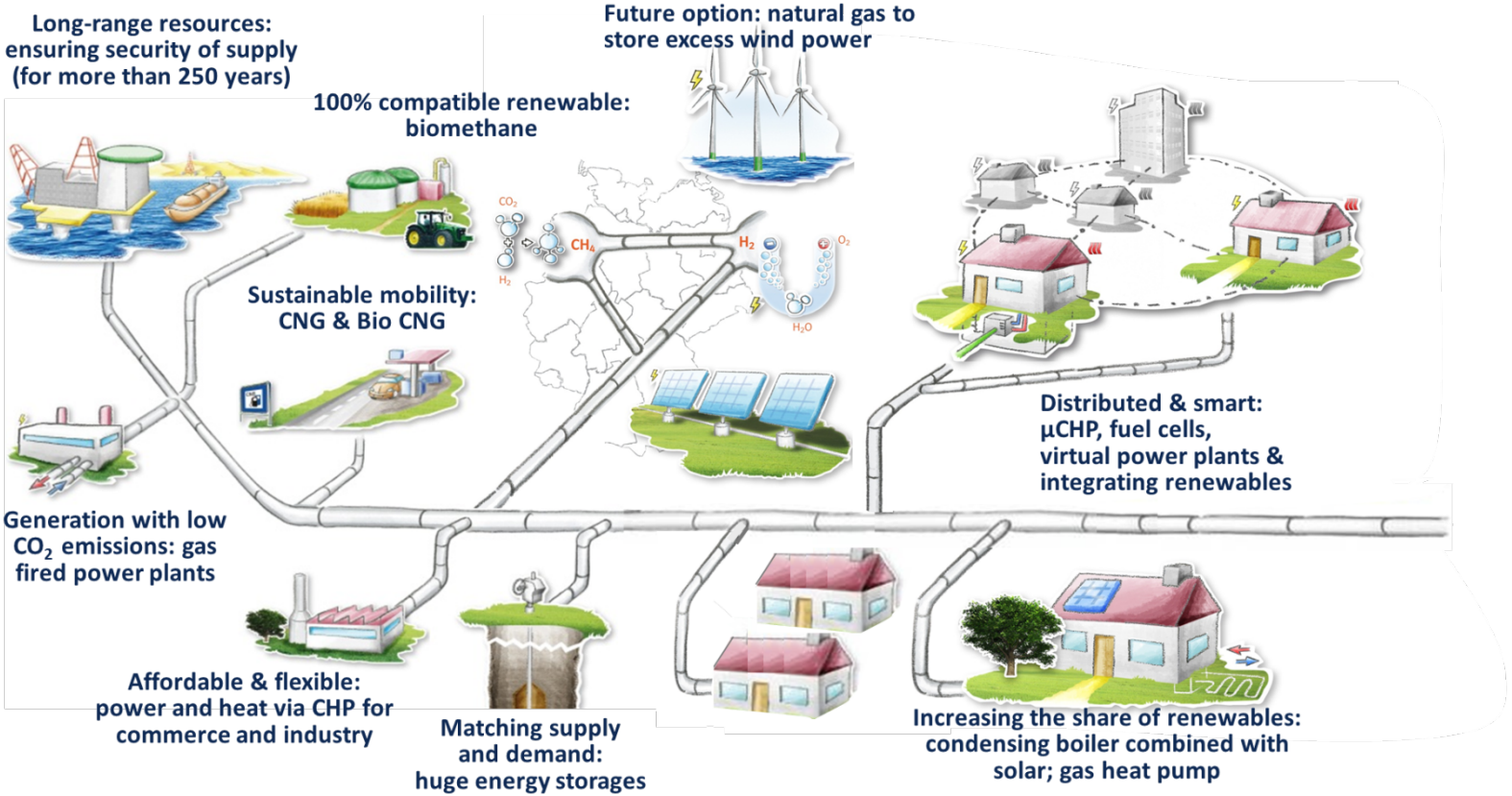
Convergence gas – electric systems - renewables

Convergence of systems (gas, power and renewables) turned out to be the dominating topic at the IGRC

- **Cross-cutting topic: Convergence**
- Production (& sourcing of gas)
- Transport & distribution
- Utilization (domestic, commercial, industrial)

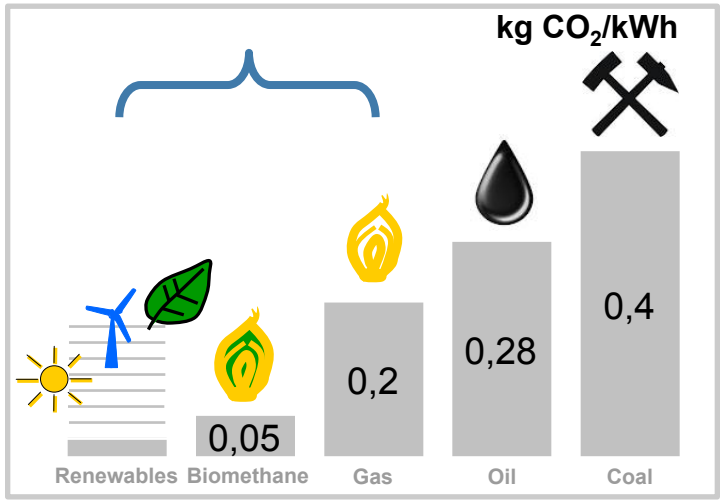


Future energy systems will be integrated ones

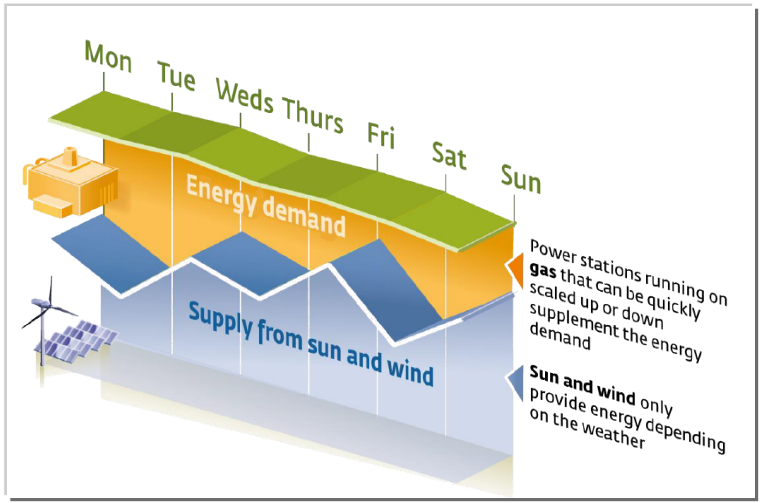


Why does convergence make sense?

Team with lowest emissions

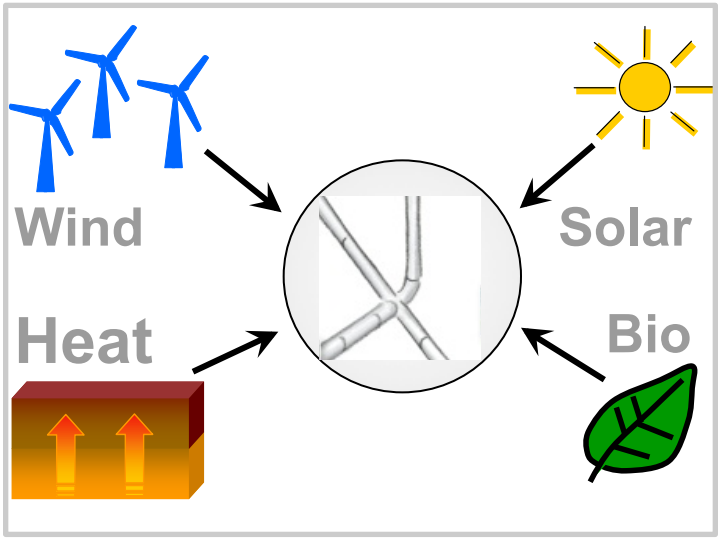


Fluctuation meets flexibility



Why does convergence make sense?

Gas integrates renewables



Gas renews itself

- Biomethane (from maize, silage, waste)
- SNG (from wood, straw, algae, …)
- Hythane (H_2 and CH_4)

More Examples

Kunihiro Nakao, Assistant Manager, Osaka Gas	**VERIFICATION TESTS OF THE ENERGY SYSTEM INTEGRATED OF CGS AND RENEWABLE ENERGY**
Claude Mandil, Marketing Research Manager, Schlumberger Business Consulting	**HYDROGEN-BASED ENERGY CONVERSION - SYSTEM FLEXIBILITY AND MORE THAN JUST STORAGE**
Britta K. van Boven, N.V. Nederlandse Gasunie	**SYSTEM INTEGRATION: WHAT GAS INFRASTRUCTURE HAS TO OFFER TO A RENEWABLE ENERGY SUPPLY**
Dr. Saeid Paskeresght (NIGC)	**Bio-Gas Power plant in Iran**