

World Waste to Energy and Resources Summit



Leveraging Policy to Open Up New Market Opportunities and Boost Profitability

21st of May, 2019 in London

Agenda | World Waste to Energy and Resources Summit

▪ **Leveraging Policy to Open Up New Market Opportunities and Boost Profitability**

The right government policy at the right time can have a huge impact on opportunity and profitability in the sector. Of course, the opposite can be true too, where either bad policy – or no policy at all – has the power to kill off projects or stifle essential progress.

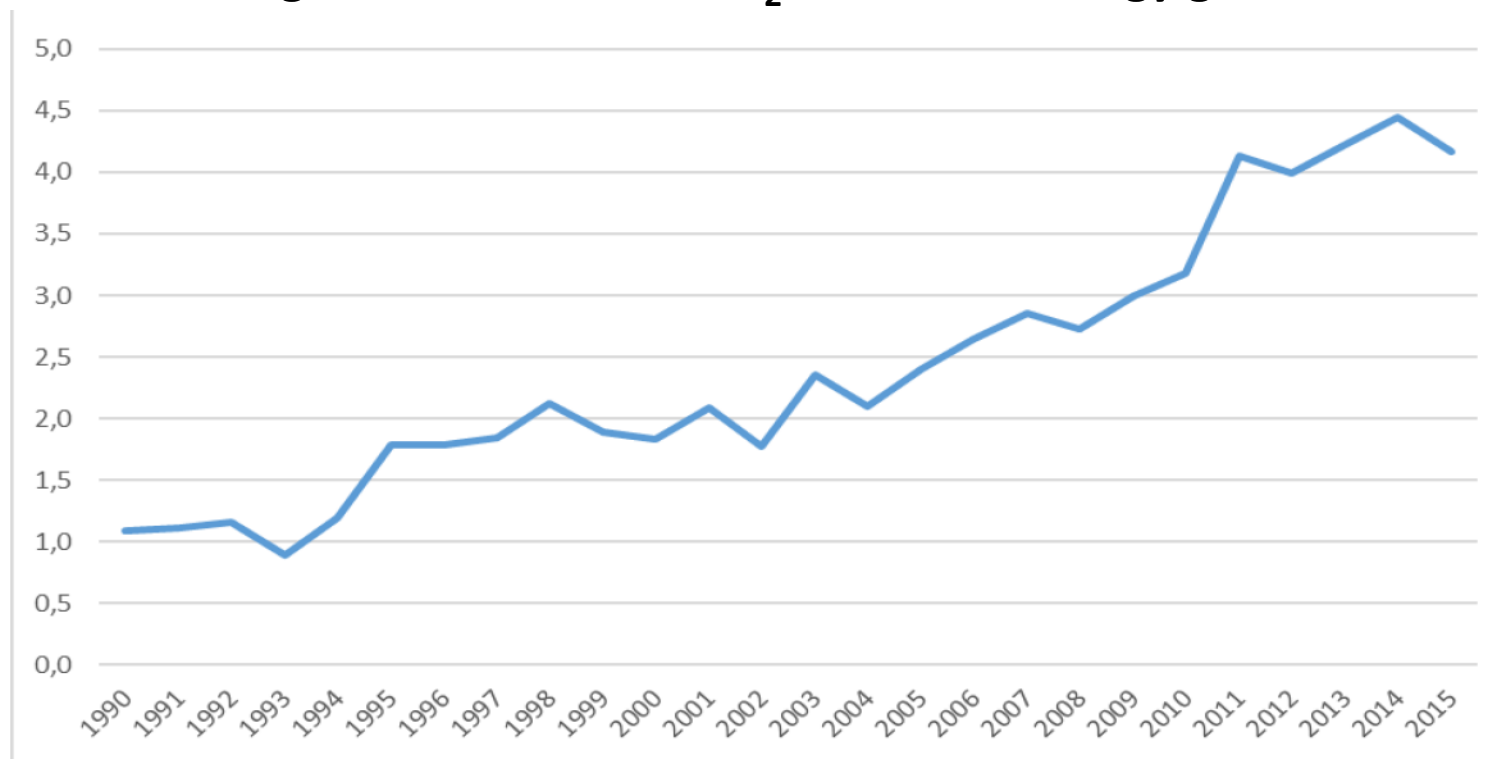
Our panel of global industry leaders explore:

- I. In which markets are developments in policy driving the industry forwards?
- II. What needs to be in place from a regulatory standpoint to incentivise waste conversion to energy and resources, especially as we move away from subsidies?
- III. Where can the biggest improvements be made? Who needs to lead the way?

Decarbonisation of Energy Generation in Germany

- Percentage of CO₂ emissions from Wte plants is growing

Percentage „waste“ in total CO₂ emissions energy generation



- Reduction of CO₂ emissions is needed

New Ways in Using Energy from Waste

Sector Coupling in WtE plants

■ Power-to-X

- Power-to-Heat
- Power-to-Gas
- Power-to-Fuel
- Power-to-Liquid
- Power-to-Chemicals



■ Waste-to-X

- Waste-to-Heat
- Waste-to-Gas
- Waste-to-Fuel
- Waste-to-Liquid
- Waste-to-Chemicals

CCU (Carbon Capture Utilization)

CO₂ capture from clean gas (CCU)

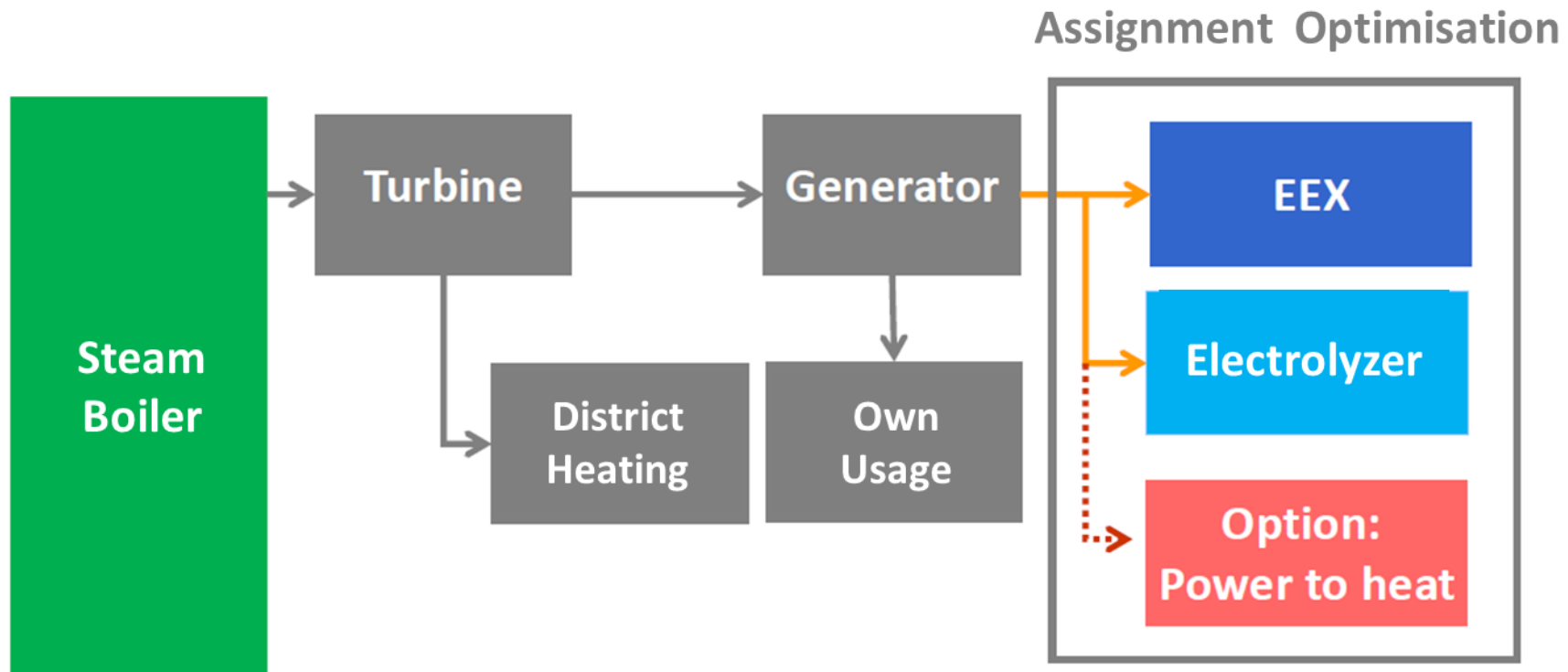
→ use via Electrolysis (eg methanol).

Approaches of CCU are in the affected industries worldwide on the
Advance, also in Germany (MHPS / RWE, Thyssen Carbon2Chem)

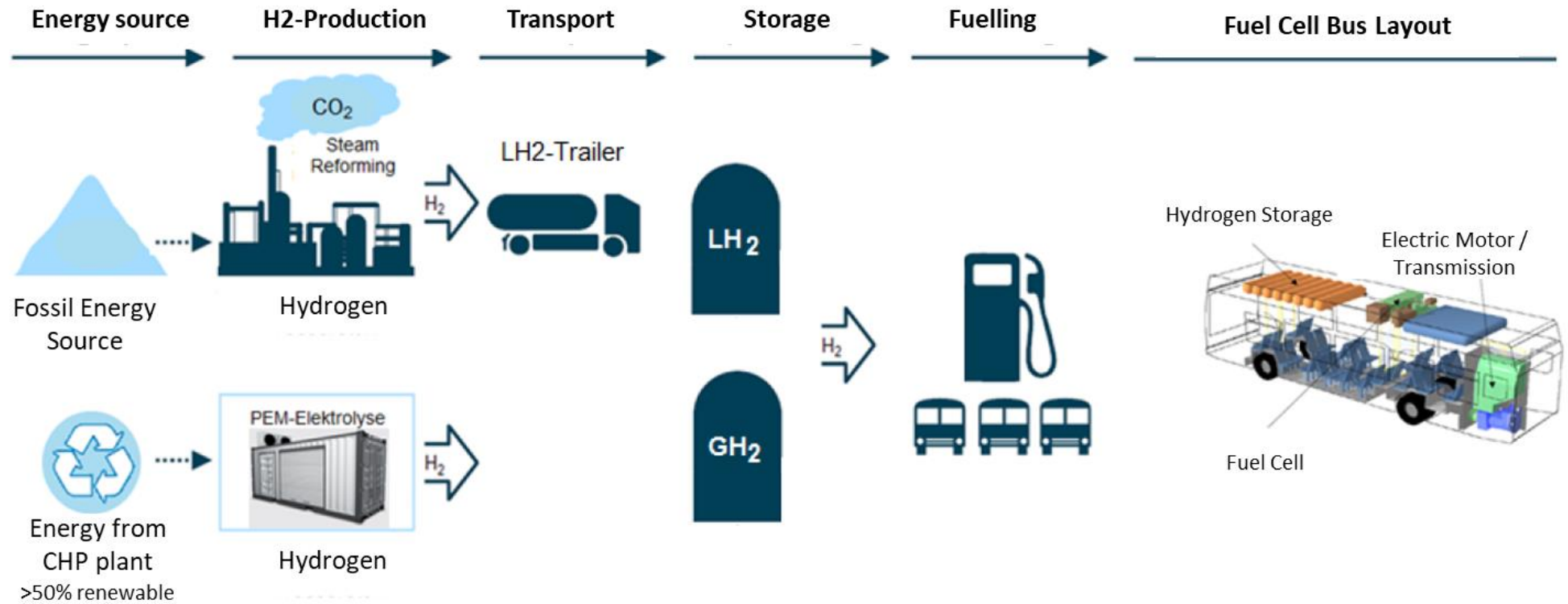
**CCU is currently not a sustainable option without changed framework
or funding,
but interesting potential!**

CCU (Carbon Capture Utilization)

Example for CHP plant in Germany (AWG)



Possibilities of Hydrogen Systems from CHP plant



Possibilities of Hydrogen Systems for Transport Sector/ Fuel Cell Busses

