COGEN EUROPE

Hydrogen for Buildings and Industrialised Heat

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2nd European Hydrogen Week – B2B Forum

23 November 2023
Brussels, Belgium

Smart Green City Haßfurt

Pioneering Net-zero Tech Integration

Net-zero Technologies Combined

PV & Wind

- *Production growth from 29% to 208%. of local demand between 2010-2017.*
- *10 MW of PV.*
- *31 MW of wind.*

Electrolyser

- *Peak output of 1.25 MW.*
- *Enables local compensation of RES. power surpluses and shortages.*
- *Converts excess PV & wind into RES H2.*

Storage, Smart Grids & Digitalisation

- ***8 MW battery** to integrate higher shares of PV/wind*
- ***Heat & H2 storage** systems in place*
- *Electrolyser connected to Next Kraftwerke **Virtual Power Plant** to stabilise power grids*
- *EV charging & **10k smart meters***

2 X Cogeneration

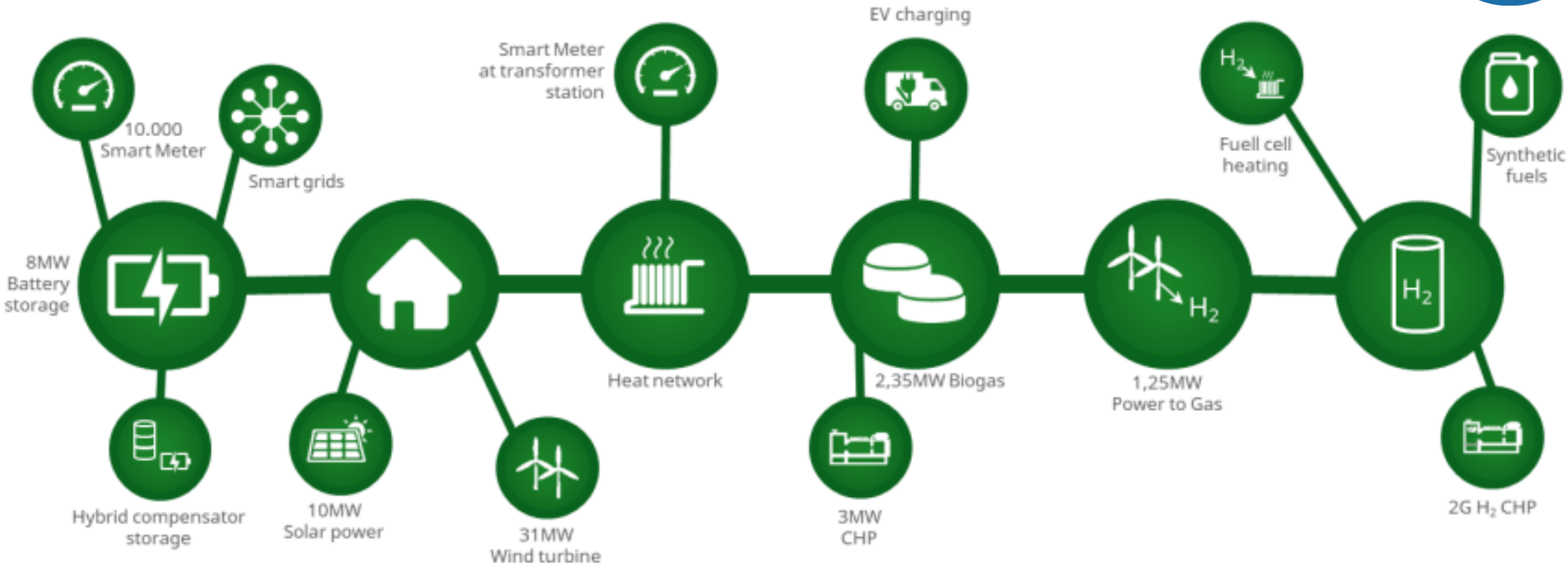
- *Efficient production of heat for DHC & electricity to support the grids.*
- *3 MW CHP running on **locally produced biogas.***
- *First ever **100% H2 CHP** (140 kWe), able to quickly ramp up and down to complement PV/Wind.*

District Heating

- *Integrates all green heat sources available.*
- ***CHP heat** from biogas & RES H2.*
- ***Waste heat** from biogas plant.*

Reference Project

- *Part of the BMWSB Modellprojekte Smart Cities (MPSC) Programme.*
- *Project supported by the Bavarian State Ministry for Economic Affairs.*
- *PtG commissioned via Greenpeace Energy.*



Net-zero solutions optimally integrated:

- ✓ Decarbonise heat & power;
- ✓ Integrate high shares of RES;
- ✓ Support local resiliency; and
- ✓ Lower cost for consumers.

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