



What energy mix in a zero emissions world?

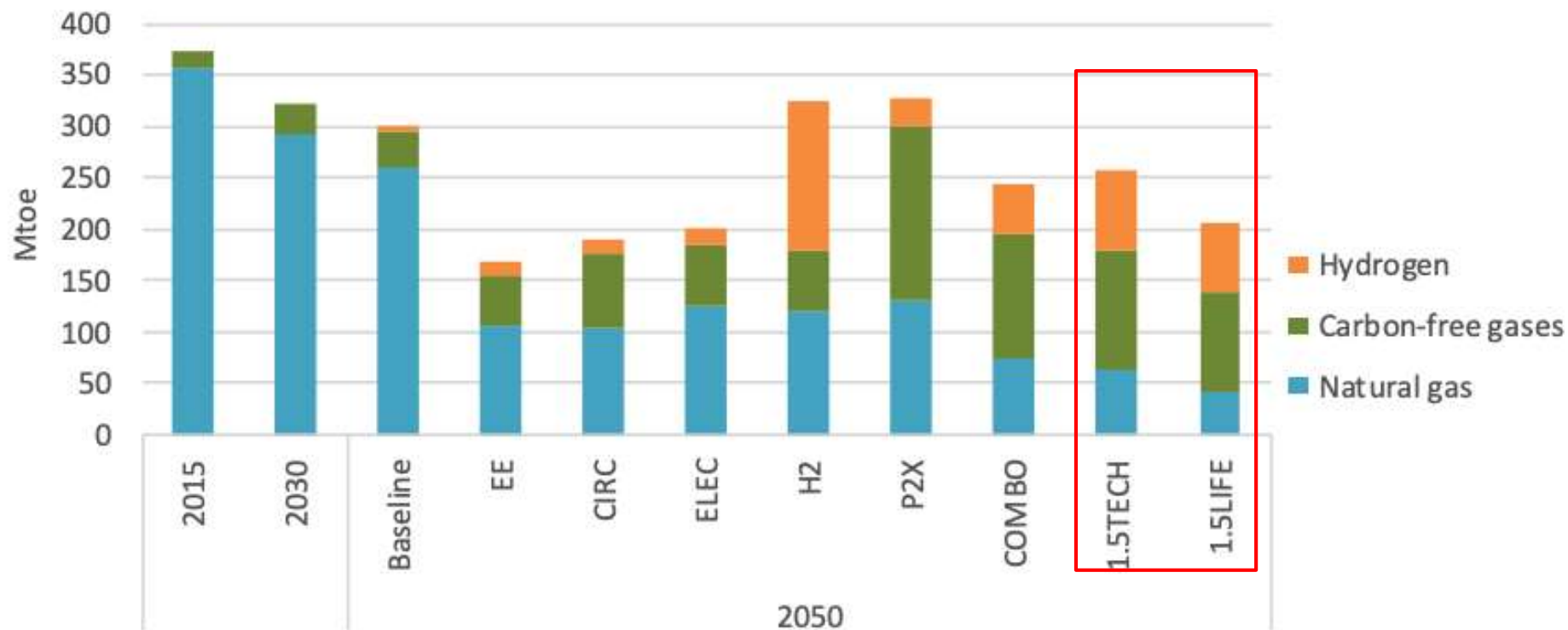
The future role of gas



European
Climate
Foundation

CONTEXT: FUTURE OF GAS IN A 1.5 SCENARIO

Figure 33: Consumption of gaseous fuels



Note: "carbon-free" gases refer to e-gas, biogas and waste-gas.

FUTURE GREEN GASES WILL BE FEWER AND NEEDED IN DIFFERENT SECTORS

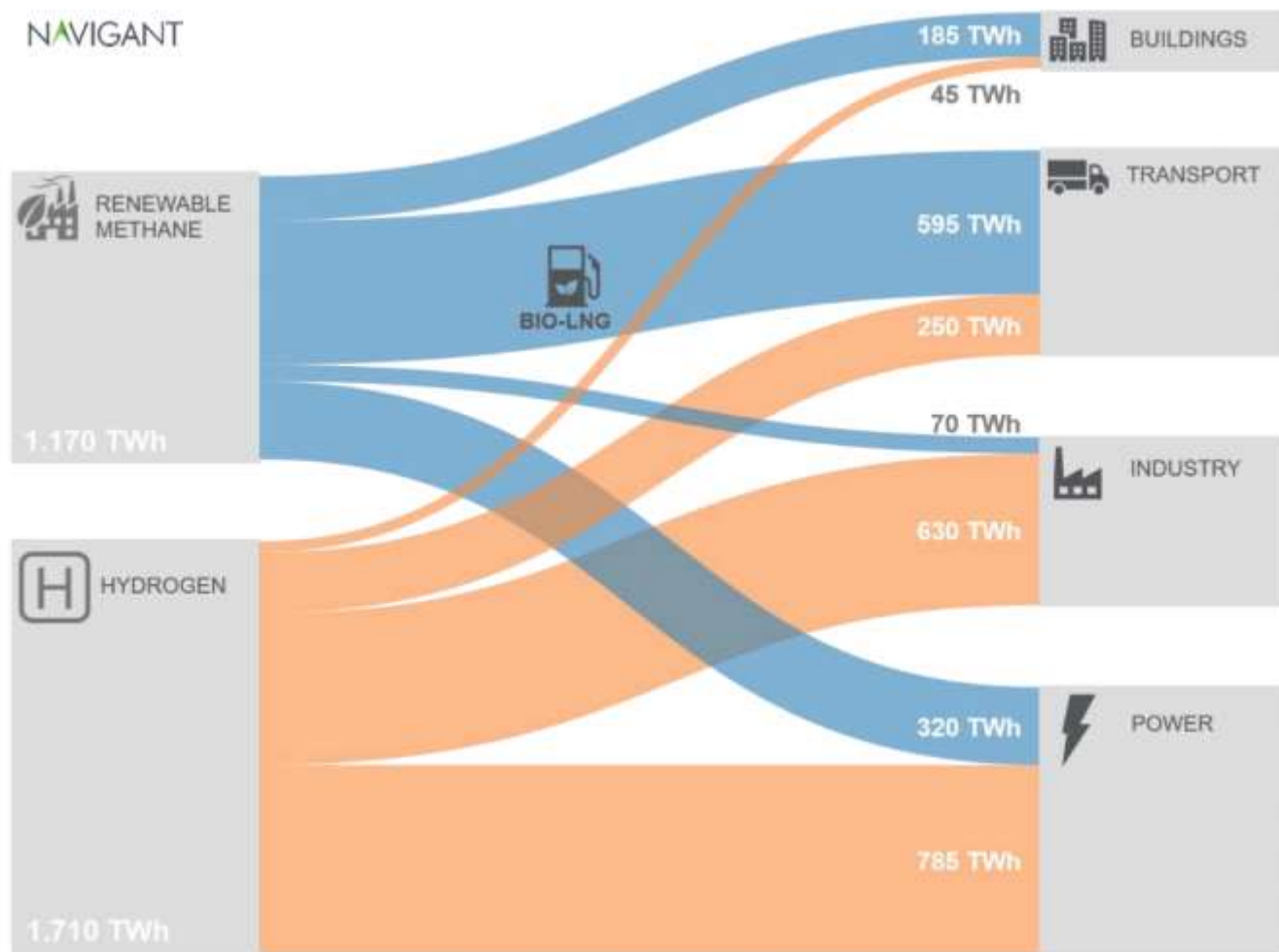
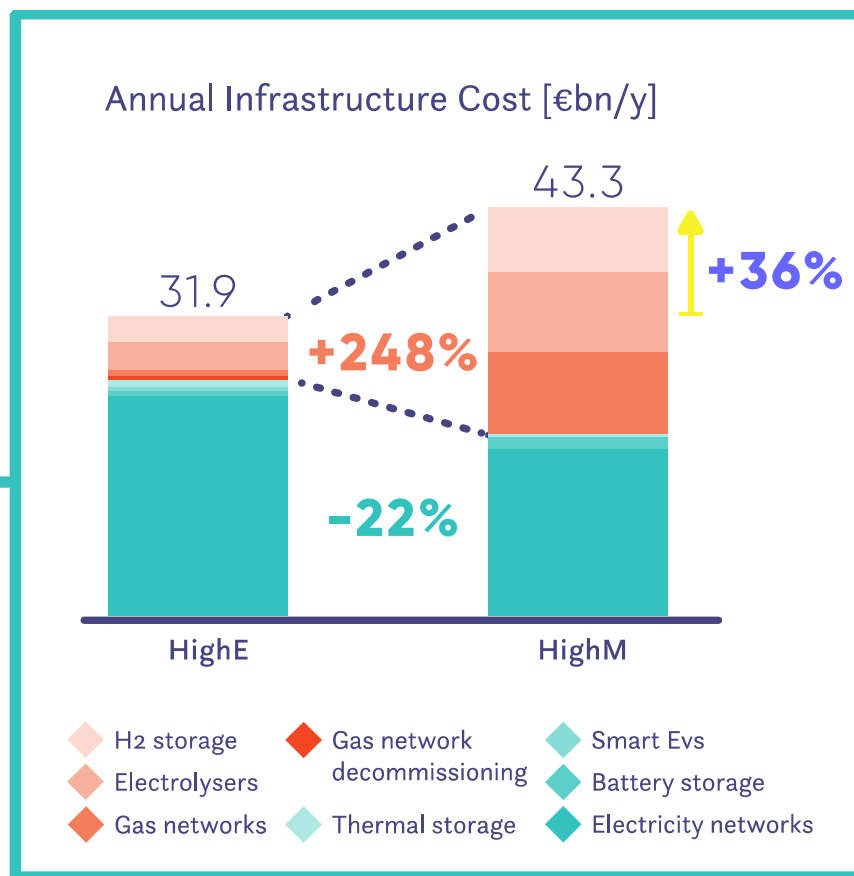
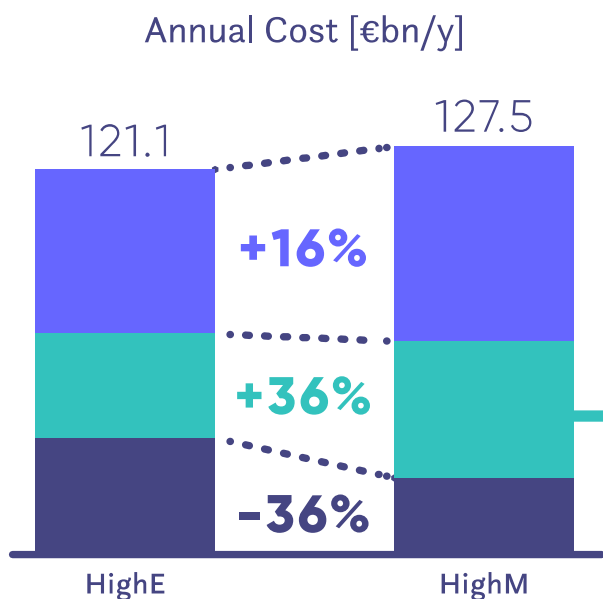


Figure 4 Renewable and low-carbon gas supply and demand in the "optimised gas" scenario

GREEN GASES SUPER-SIZE THE ENERGY SYSTEM:

Careful use in highest value functions



- Generation
- Infrastructure
- Heating demand side

- H2 storage
- Electrolysers
- Gas networks
- Gas network decommissioning
- Thermal storage
- Smart Evs
- Battery storage
- Electricity networks

GREEN GASES CAN BE DELIVERED TO HOUSEHOLDS IN DIFFERENT WAYS

Is this the future of residential use of gas?



AN INTEGRATED PERSPECTIVE ON GAS AND ELECTRICITY HELPS MEET SECURITY OF SUPPLY AT LOWER COST

Artelys, Energy Union Choices study (2016)

