

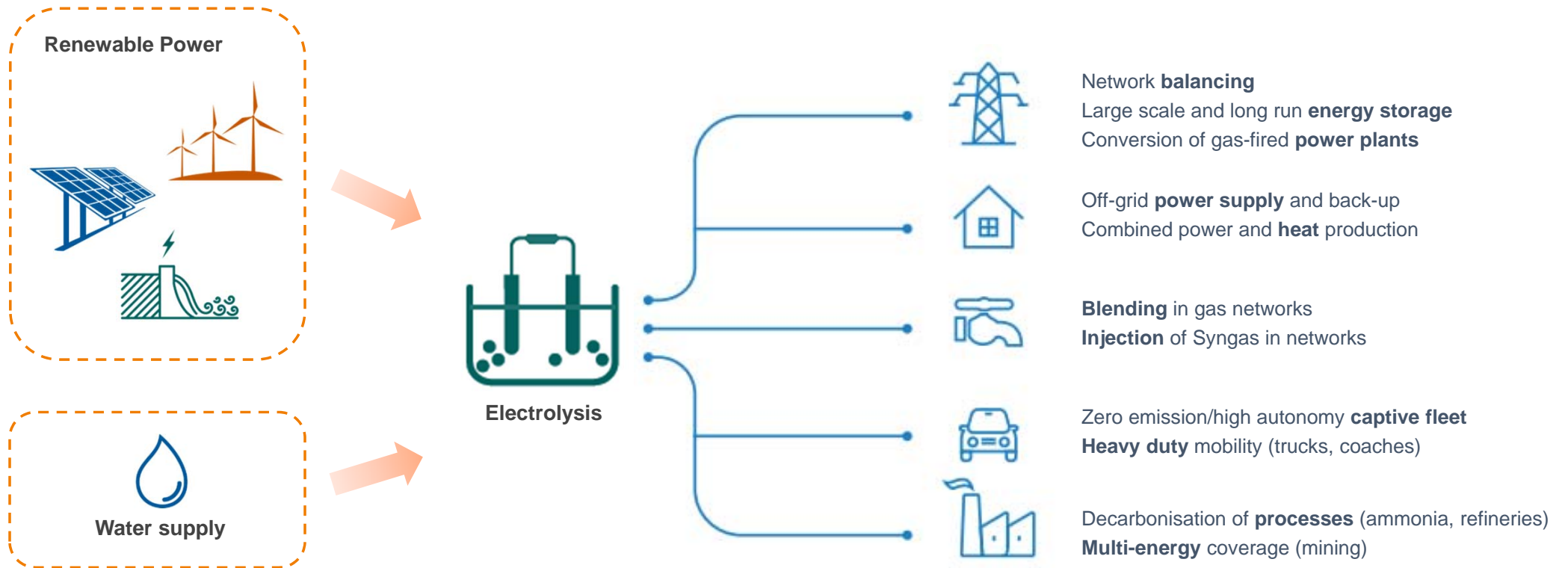
HYDROGEN – Accelerating the energy transition



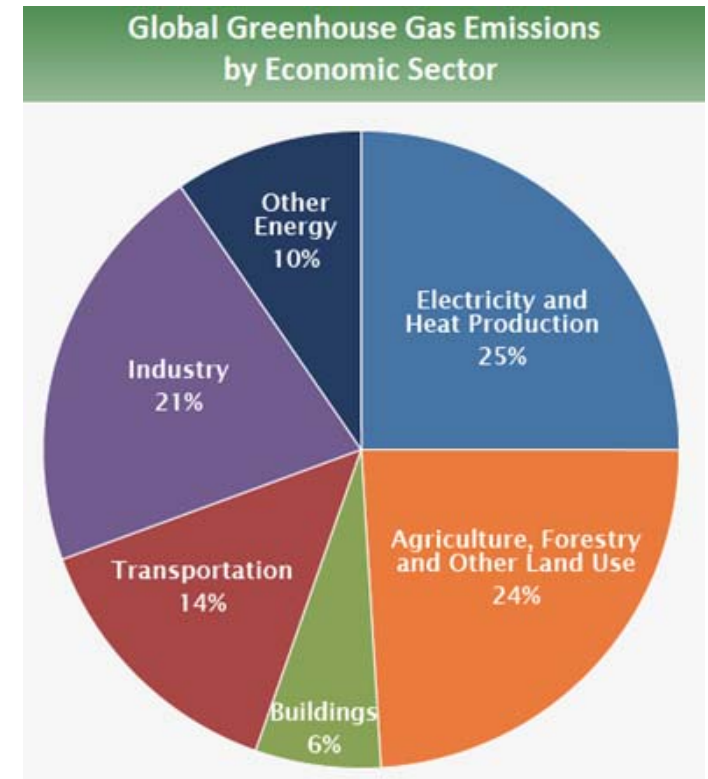
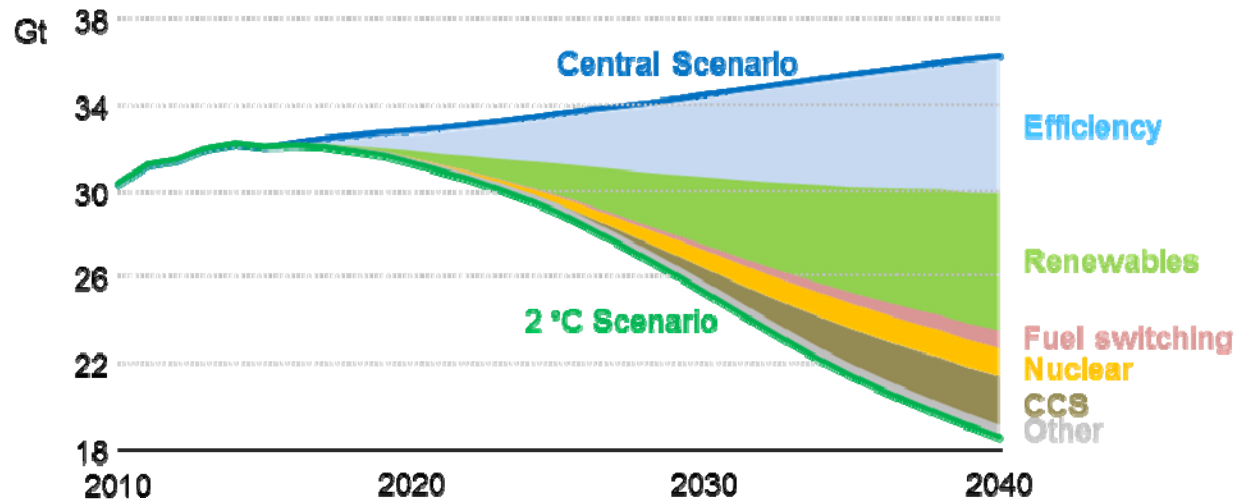
A systemic approach towards 100% Renewable Energy Solutions with Hydrogen solutions as the missing key link



Hydrogen: lightest of all gases and a versatile, clean and flexible energy carrier



Hydrogen: reaching the 2°C target by allowing for renewables full deployment, cutting emissions from industrial processes (w/ heat production) and transportation

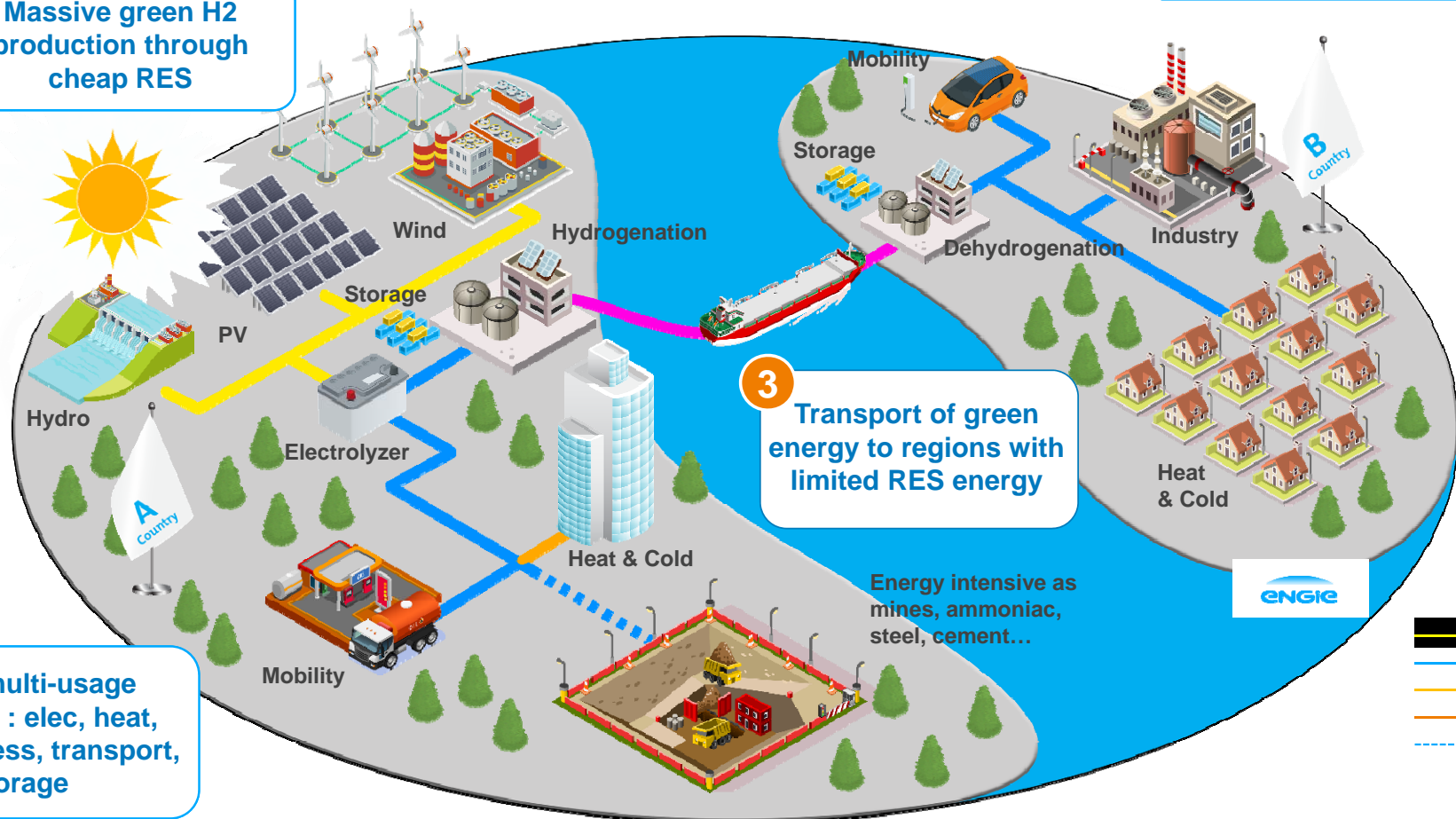


ENGIE's vision on Hydrogen

1 Massive green H2 production through cheap RES

2 Local multi-usage business : elec, heat, cold, process, transport, storage

4 Multi-usage green offer



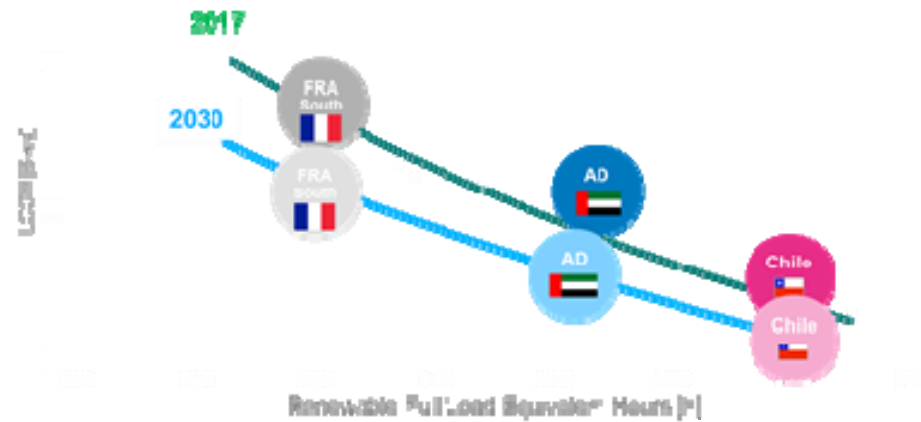
3 Transport of green energy to regions with limited RES energy

Energy intensive as mines, ammoniac, steel, cement...

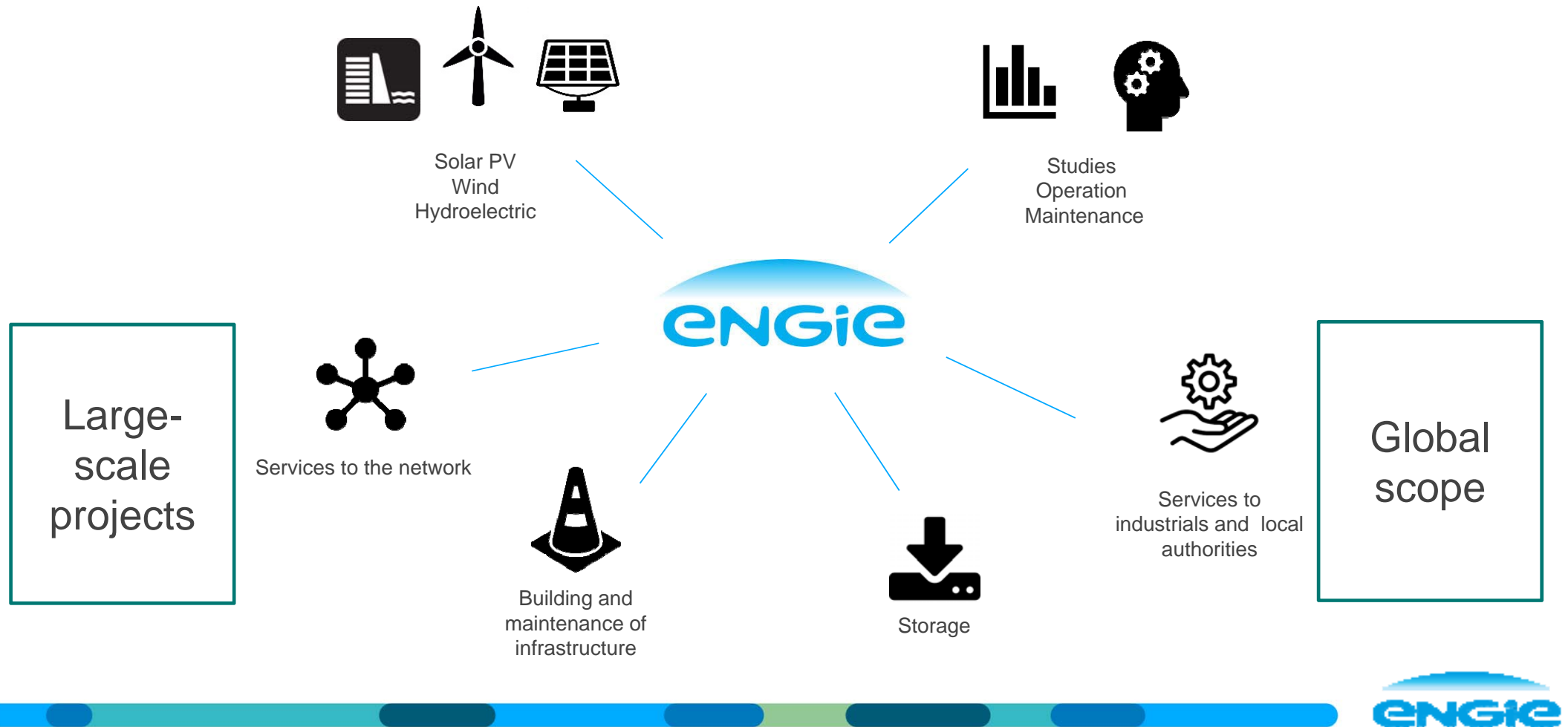
- Electricity
- Hydrogen
- Heat & cold
- Chemical carrier
- Multifluid



A stepwise business and industrial roadmap towards competitiveness



ENGIE gathers all competences in the renewable H2 value chain



Remaining challenges - ACCELERATE

- ⇒ Trigger **economies of scale**
- ⇒ Contribute to the sector **industrialization**
- ⇒ Invest in bringing **downstream technology solutions** to the market, at scale
- ⇒ Increase **efficiency**
- ⇒ **Align industrial** players
- ⇒ Engage institutions to create **adequate regulatory frameworks**
- ⇒ Engage **financial players** in first of a kind large projects

