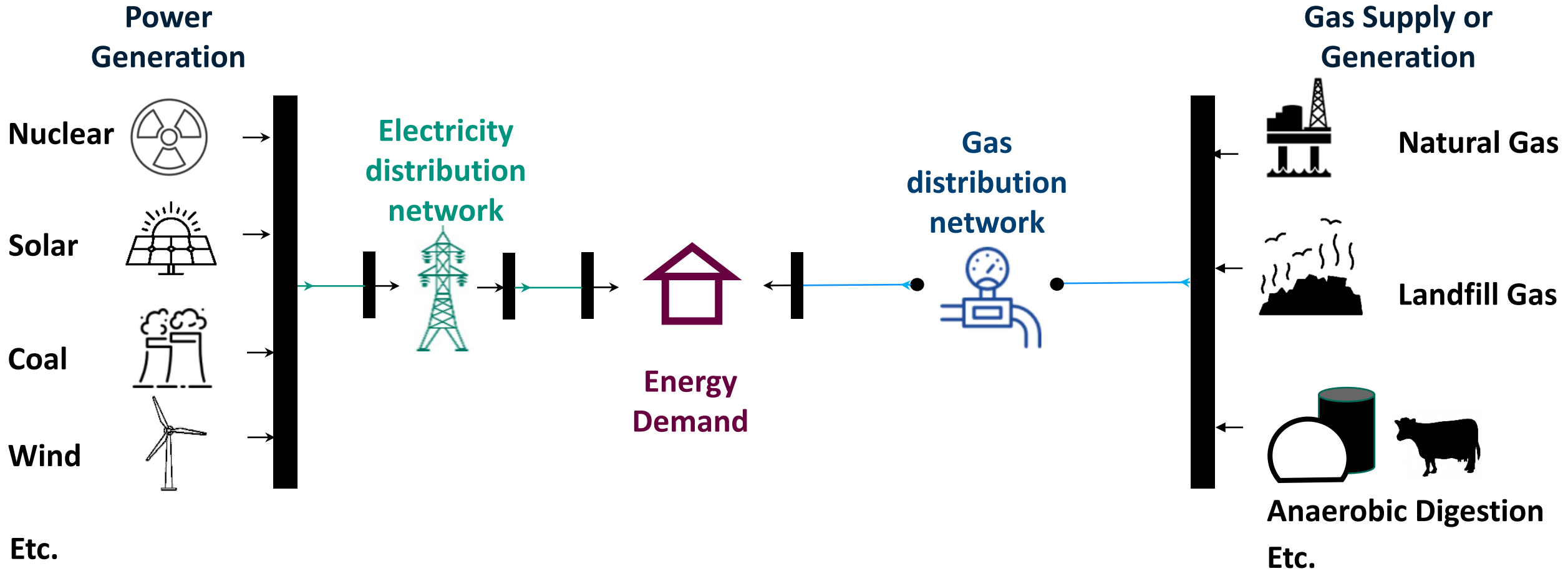


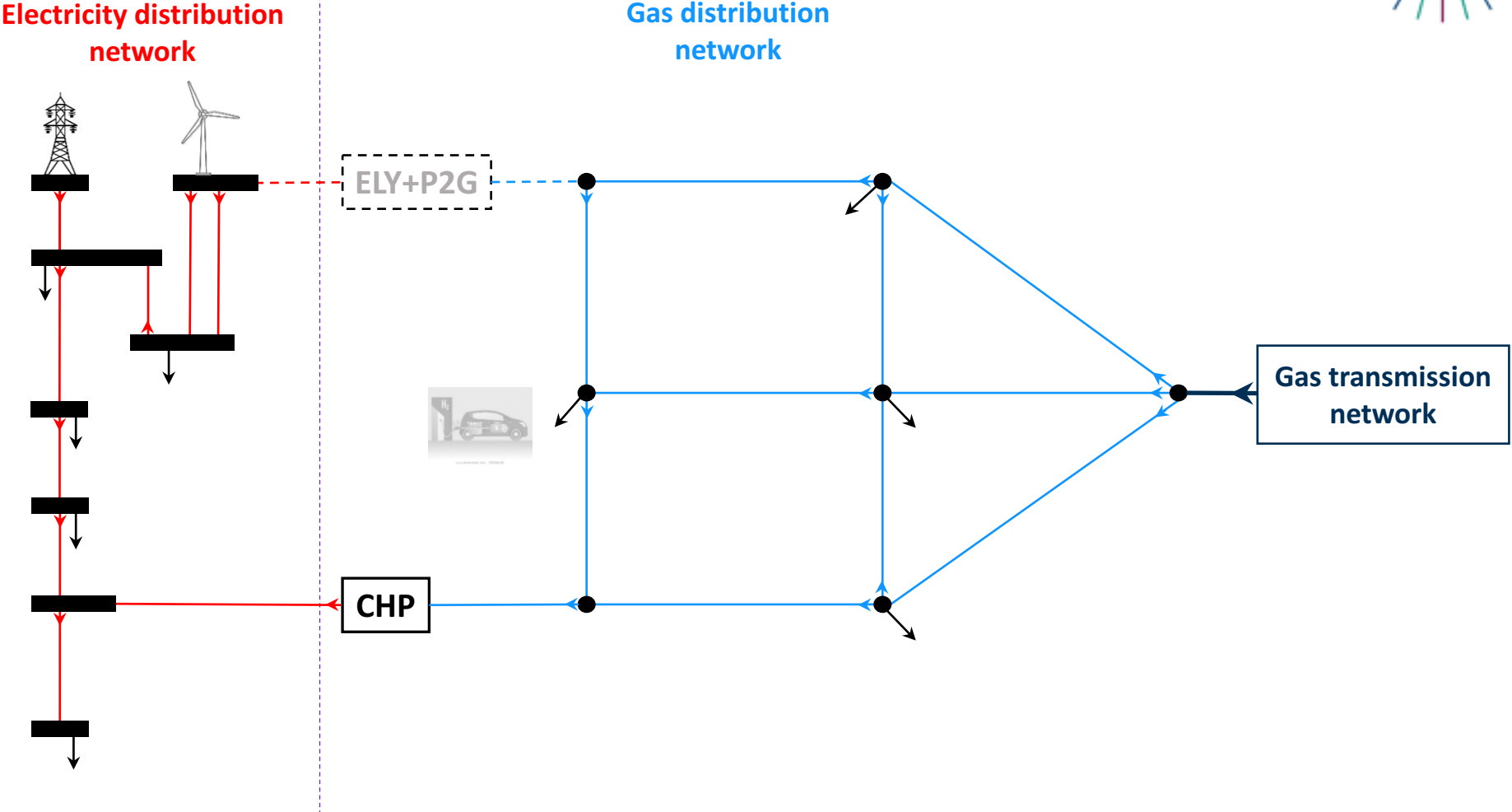


National Centre for
**Energy Systems
Integration**

Sector coupling solutions to renewables integration

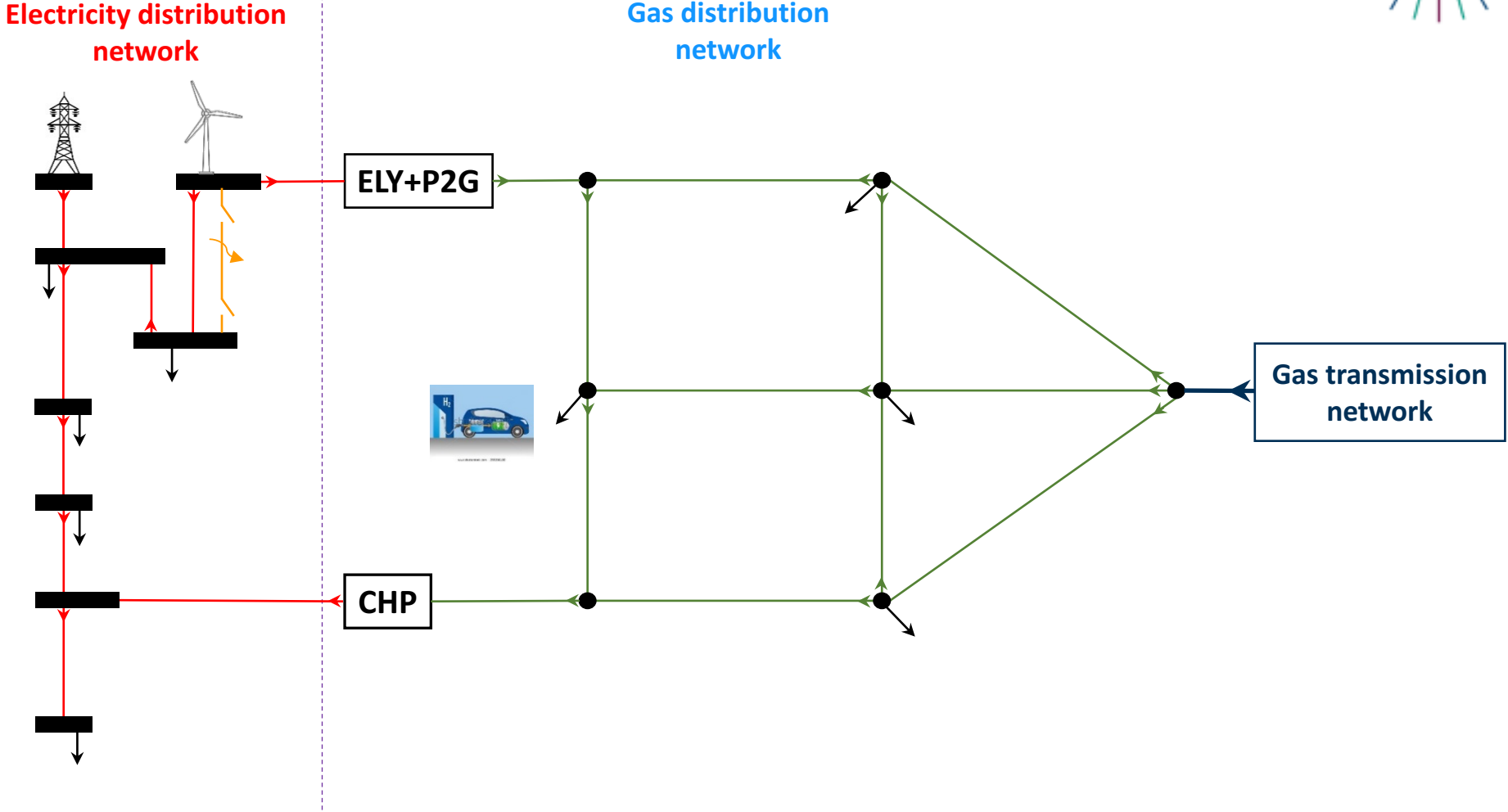


Multi Vector Coupling



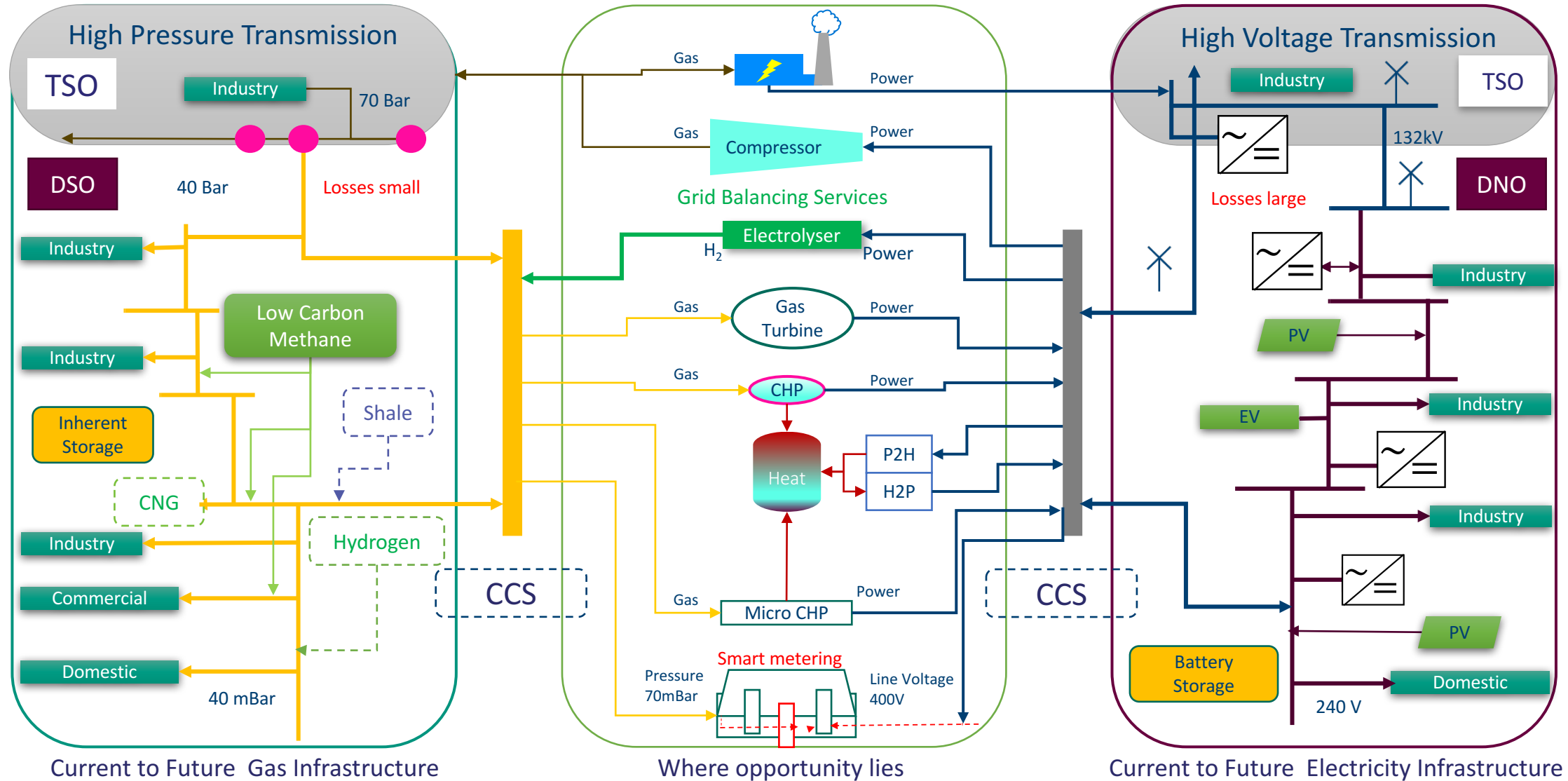
Distribution networks: Base Case

Multi Vector Coupling



Distribution networks: Fault in the electricity network

Further sector coupling opportunities



International Institute for Energy Systems Integration

Session 1: Sector coupling solutions to Renewables Integration

- Power-to-X
- Multi Energy System Planning in China
- Integrated gas-electric modelling
- Sector Coupling with Electricity: Promise and Pitfalls

Kevin Harrison, **NREL**

Dr Zhang and Prof Kang,
Tsinghua University

Leah Kaffine, **GE**

Ben Haley, **Evolved Energy**

Energy Systems Integration Session 1 Panel Discussion:

- Featuring Presentation by **Steve Chalk, US Department of Energy**