

President's welcome message and report from ETN's High-Level User Meeting

Pedro Lopez, Uniper/
ETN President

Key messages from High Level User Meeting 2022

Efficient, flexible and low carbon pathways
towards net-zero solutions



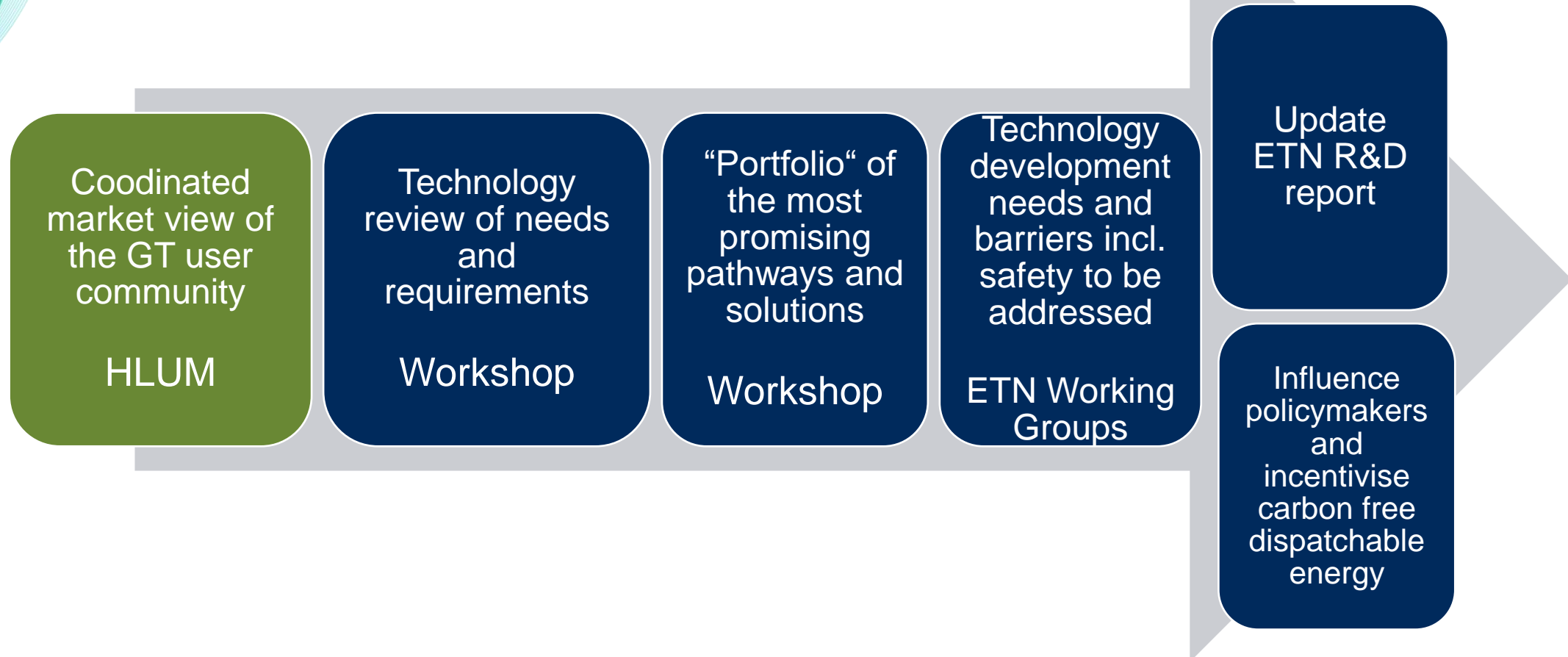
Pedro Lopez, ETN President/ Uniper



ETN's Roadmap 2022

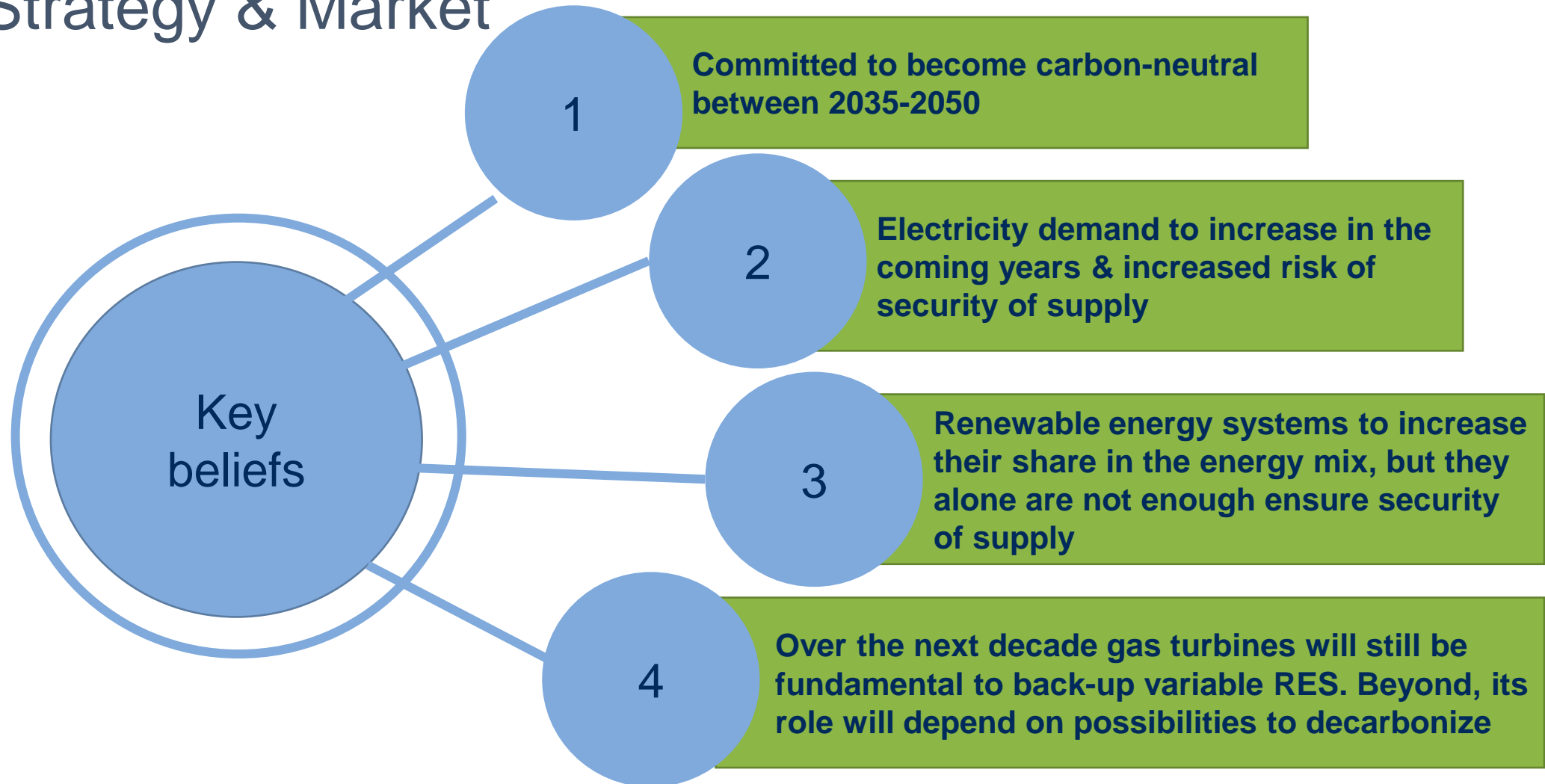
“Efficient, flexible and low carbon pathways towards net-zero solutions”

Strategy to accelerate the energy transition



Utilities – input from HLUM

Strategy & Market



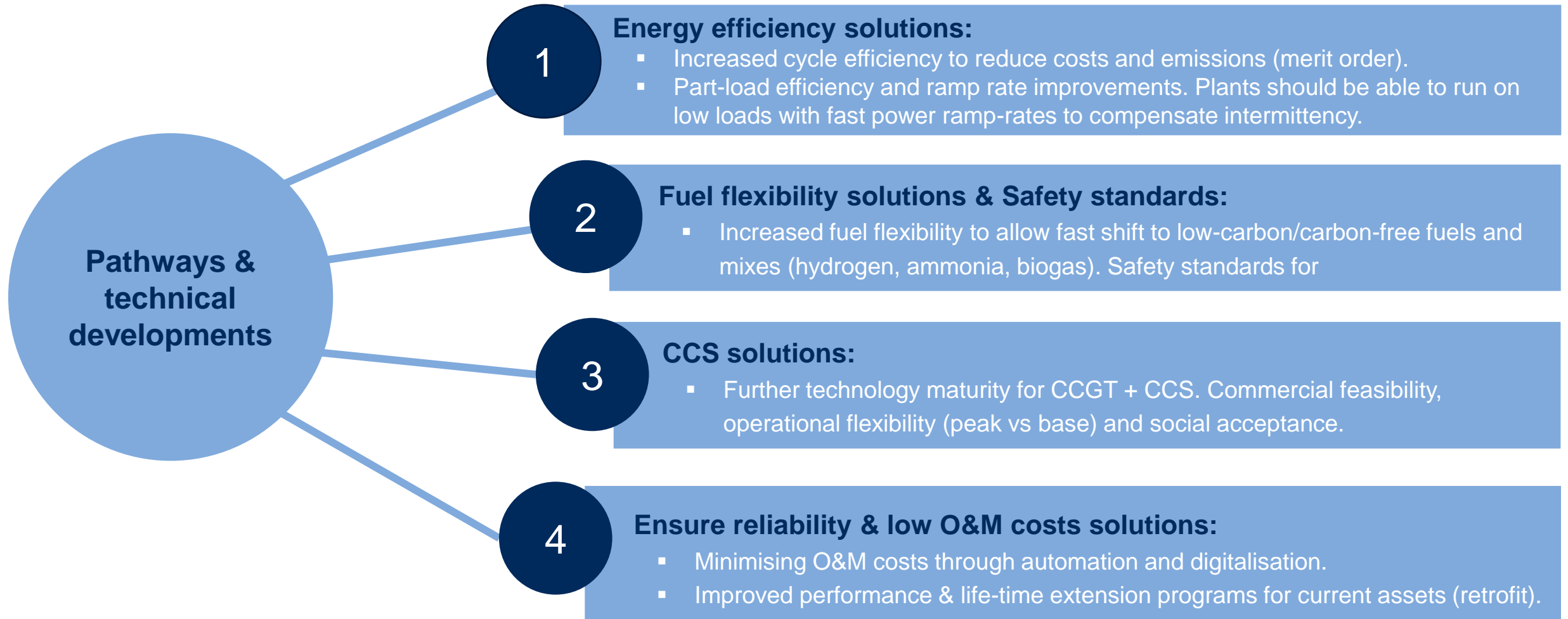
Oil & gas – input from HLUM

Strategy & key beliefs

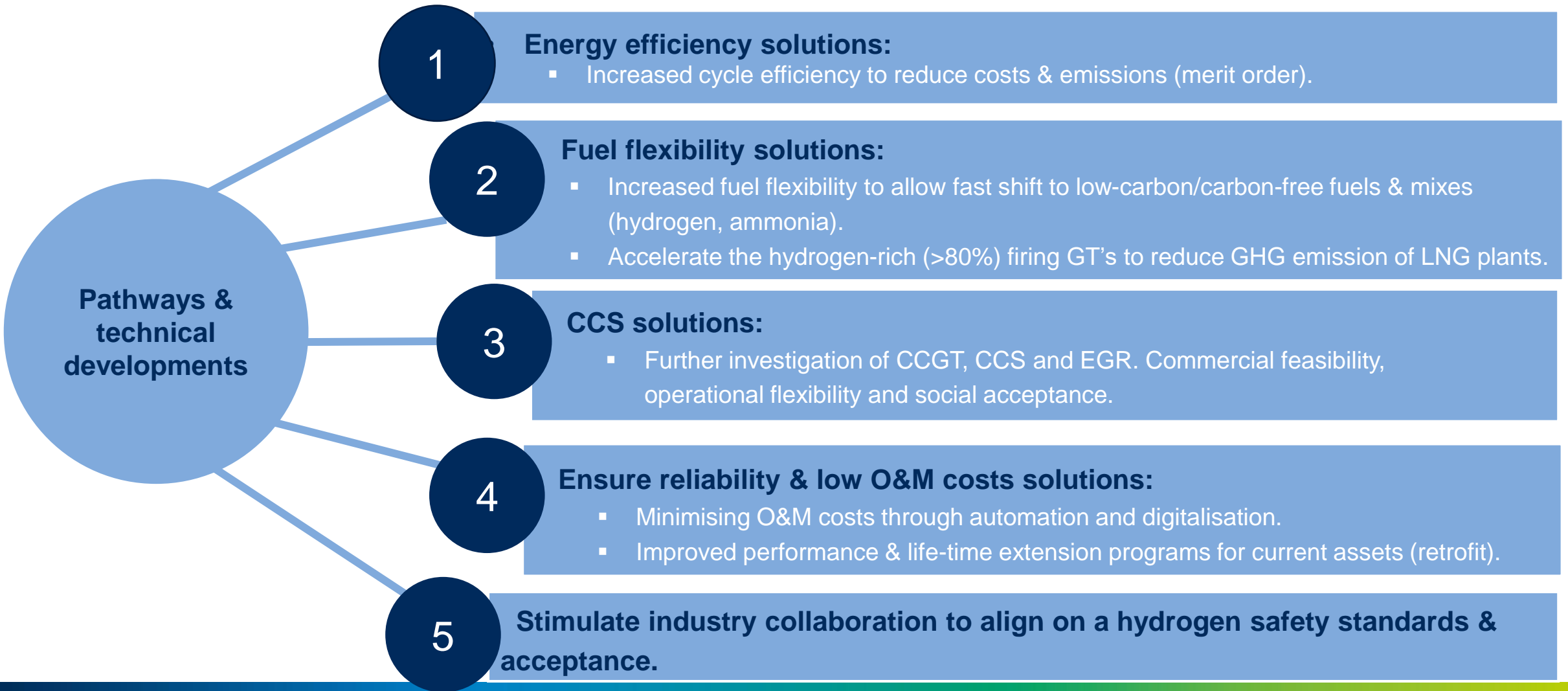
- 1 Committed to reduce significantly GHG emissions by 2030 and to net-zero by 2050.
- 2 Transforming into energy companies providing primary and low carbon fuels and electricity generated by RES (e.g. wind farms, floating wind turbines, solar PV).
- 3 Supply of natural gas is essential to manage the energy transition but needs to be sustainably decarbonized.
- 4 Decarbonization of gas fired electricity generating assets and thermal generation in general, is needed to achieve emission targets.

Utilities – input from HLUM

Pathways & technical development needs



Oil & gas – input from HLUM



Common identified technology development requirements for 2030

1. Provide short-term engine specific retrofit solutions to enable a safe, flexible and reliable operation with fuels that contain **up to 30% hydrogen**. Launch a gas turbine specific upgrade package to operate with **up to 100% H₂** before 2030 without significant increase in the NOx emissions and maintaining the plant's performance.
2. Develop **GT specific CCS solutions** and other **integrated energy system solutions** (storage, waste recovery, and other hybrid solutions)
3. Develop **gas turbine specific upgrade packages enabling part-load efficiency and ramp rate improvements**
4. Provide **lifetime extension programmes** for plant specific gas turbines for cycle behaviour and alternative fuels guaranteeing safe operation and optimised performance. It will involve **life-time assessment of critical components** including advanced component repair to reduce material resources and costs of ownership.
5. **Optimise power plant operation and maintenance through better use of digitisation and analytics**. Combine analytics with engineering knowledge to reduce the operational costs and increase of plant's overall performance.

Final remarks

