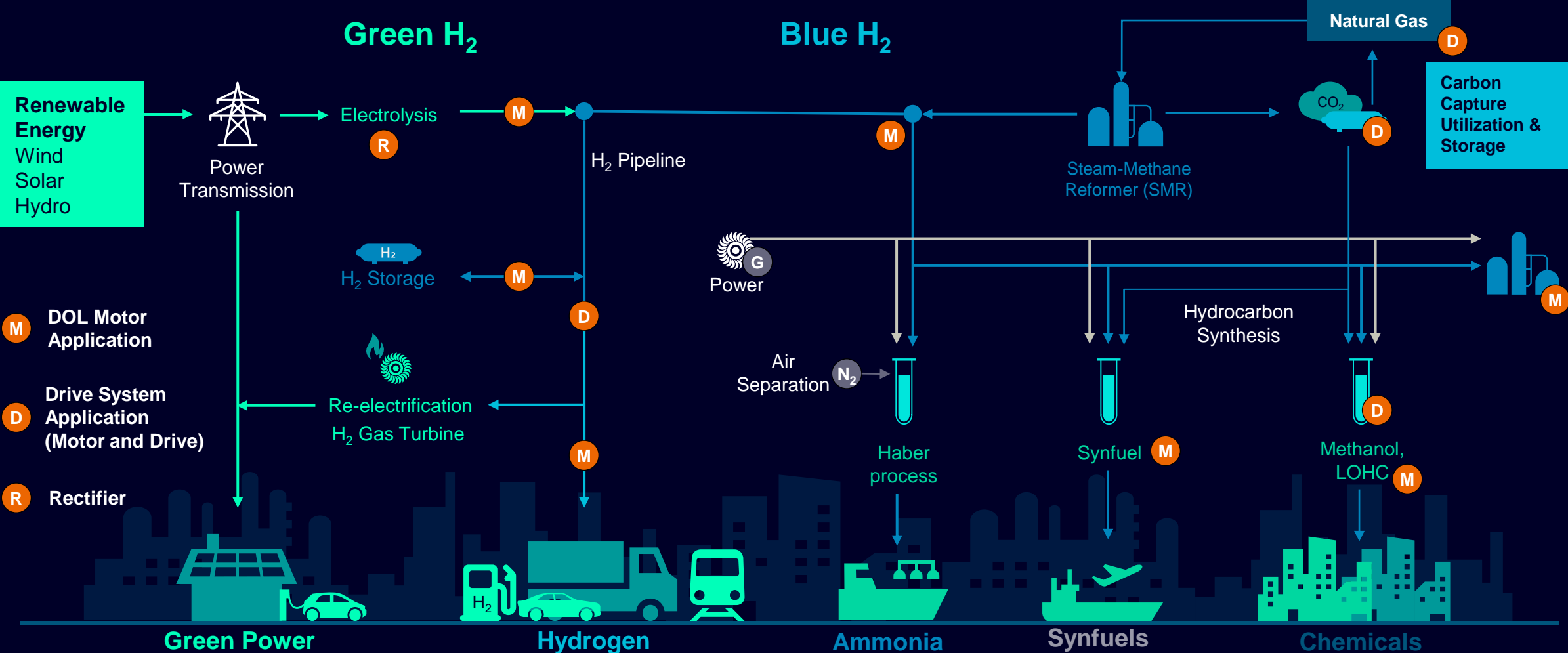


Energy Transition with Hydrogen technology

Siemens – Your partner along
the Hydrogen value chain

High Power electrification of the evolving H2 / CO2 Eco-System



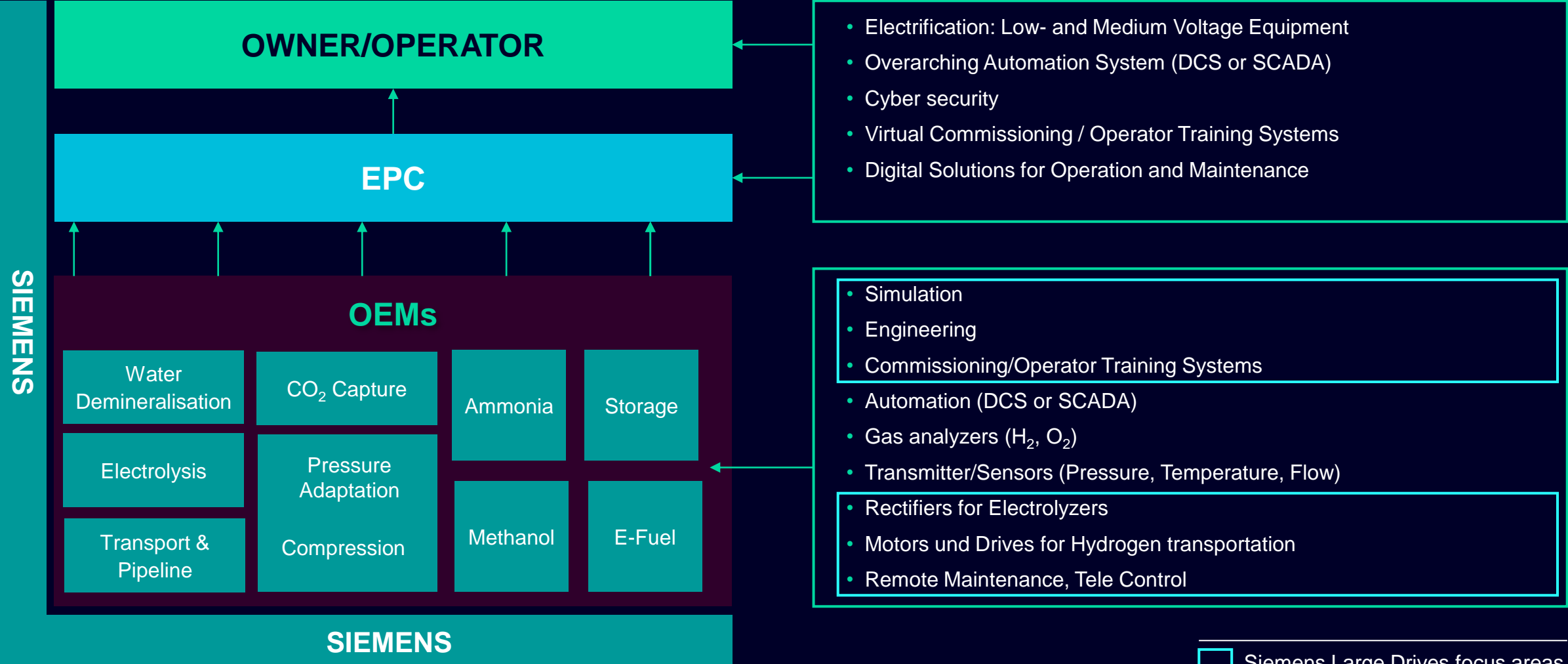
Siemens Large Drives' products and applications provide new Net-zero economy with electrical & mechanical power for H2 production and H2 & CO2 compression



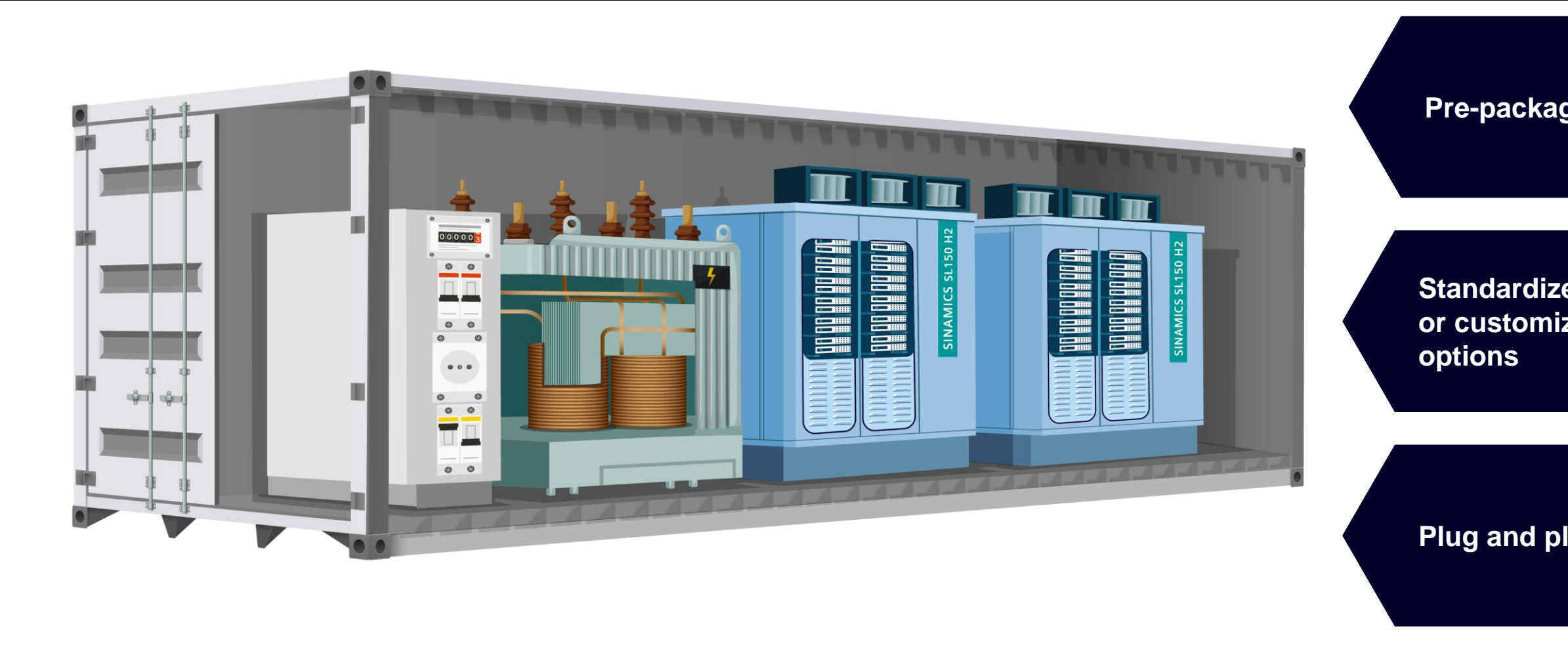
Siemens Large Drives' applications mapped to Hydrogen value chain

- H2 Production**
 Rectifiers for Electrolyzers A
- H2 Compression**
 High Pole Motors to provide H2 piston compressors with torque B
- H2 Storage**
 2/4- Pole Motors combined with VSDs to provide H2 turbo compressors with speed C
- HyCO Plant**
 Modular Motors to drive CO2 compressors D
- H2 Booster Stations**
 High and Low Speed motors to power up booster stations along the H2 pipeline E
- LH2 Terminals**
 High Power motors to liquefy H2 F

Siemens – Your partner along the Hydrogen value chain



Containerized rectifier solution (E-House)



Pre-packaged

Standardized or customized options

Plug and play

Start evaluating future partnerships

Mindset of an engineering partnership

Requirements and qualifications

- Dedication to build-up partnership to enter new market
- Ready to provide development & engineering support to partner
- Sufficient capacity capabilities and the right mindset to support future growth
- Availability of service network in key regions
- Technology leader
- Application of regional certifications
- Selection and handling of materials suitable for hydrogen

What to expect by both sides

- Defining key features and interfaces
- Developing standards
- Feedback on product improvements
- Participation in new product idea development and value engineering
- Integration in overall solution
- System optimization to be competitive
- Lighthouse projects
- Followed by high number of repeat orders

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