

Energy Technology Perspectives

Clean Energy Technology Guide

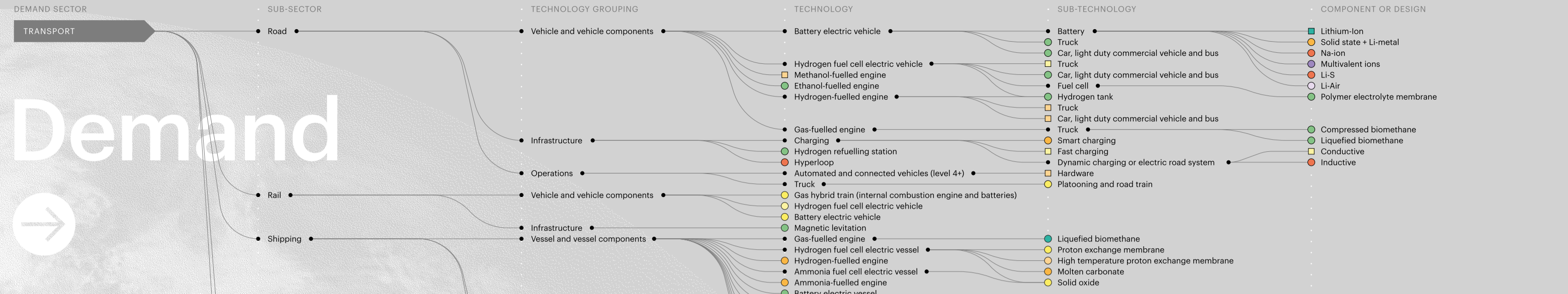


The Energy Technology Perspectives – Clean Energy Technology Guide shows the level of maturity of almost 400 individual technology designs and components that contribute to reducing CO₂ emissions along different value chains across the whole energy system.

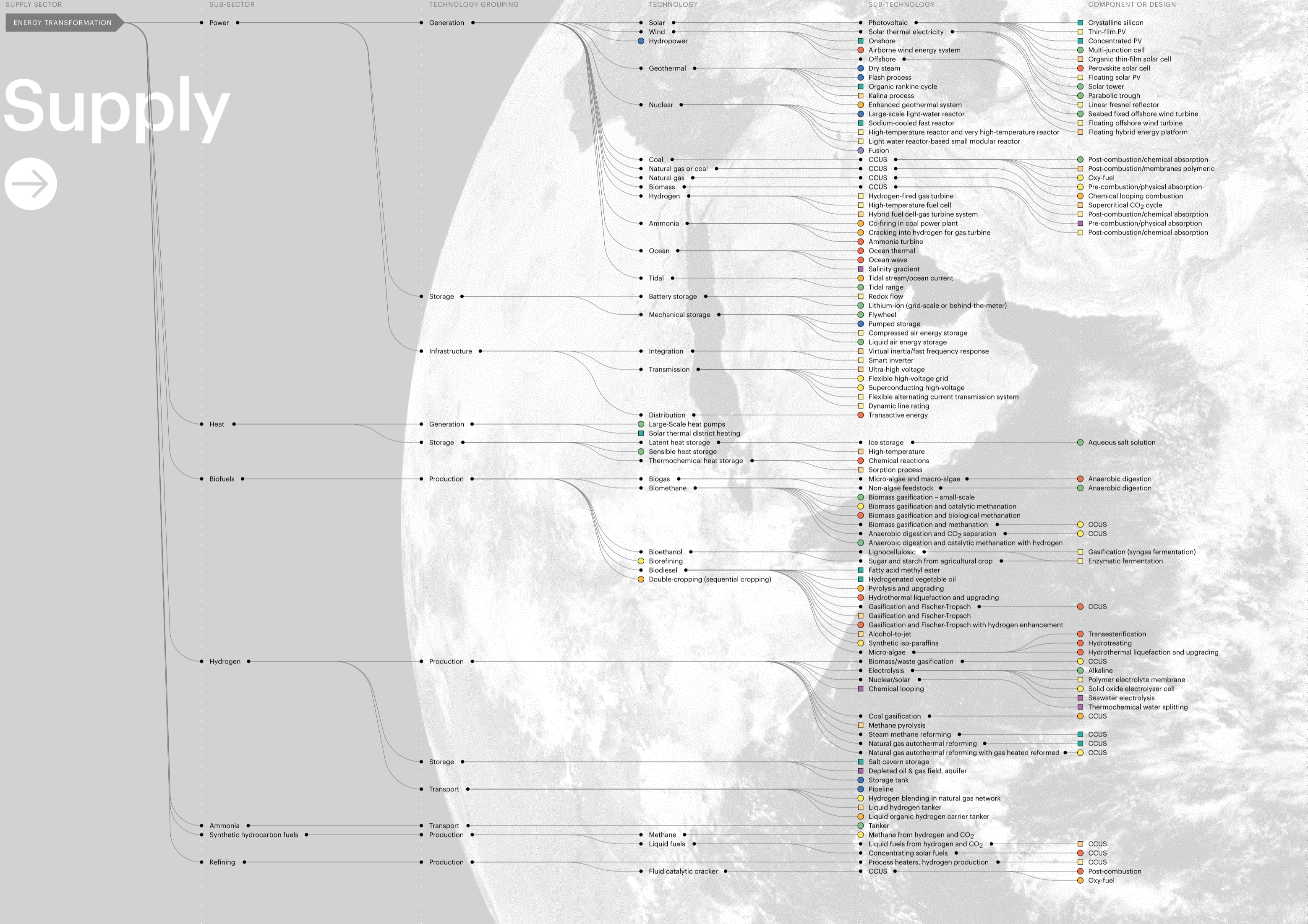
Technologies are structured hierarchically alongside their peers delivering the same service. The ETP Clean Energy Technology Guide can be explored in an interactive framework that includes information not only on the level of maturity of different technology designs and components but also a compilation of development and deployment plans, as well as cost and performance improvement targets and leading players in the field.

VISIT ONLINE: WWW.IEA.LI/CLEANTECHGUIDE

- ### TECHNOLOGY READINESS LEVEL
- 1 INITIAL IDEA: Basic principles have been defined
 - 2 APPLICATION FORMULATED: Concept and application of solution have been formulated
 - 3 CONCEPTS NEEDS VALIDATION: Solution needs to be prototyped and applied
 - 4 EARLY PROTOTYPE: Prototype proven in test conditions
 - 5 LARGE PROTOTYPE: Components proven in conditions to be deployed
 - 6 FULL PROTOTYPE AT SCALE: Prototype proven at scale in conditions to be deployed
 - 7 PRE-COMMERCIAL DEMONSTRATION: Solution working in expected conditions
 - 8 FIRST OF A KIND COMMERCIAL: Commercial demonstration, full scale deployment in final form
 - 9 COMMERCIAL OPERATION IN RELEVANT ENVIRONMENT: Solution is commercially available, needs evolutionary improvement to stay competitive
 - 10 INTEGRATION NEEDED AT SCALE: Solution is commercial and competitive but needs further integration efforts
 - 11 PROOF OF STABILITY REACHED: Predictable growth



Supply



CO₂ Infrastructure

