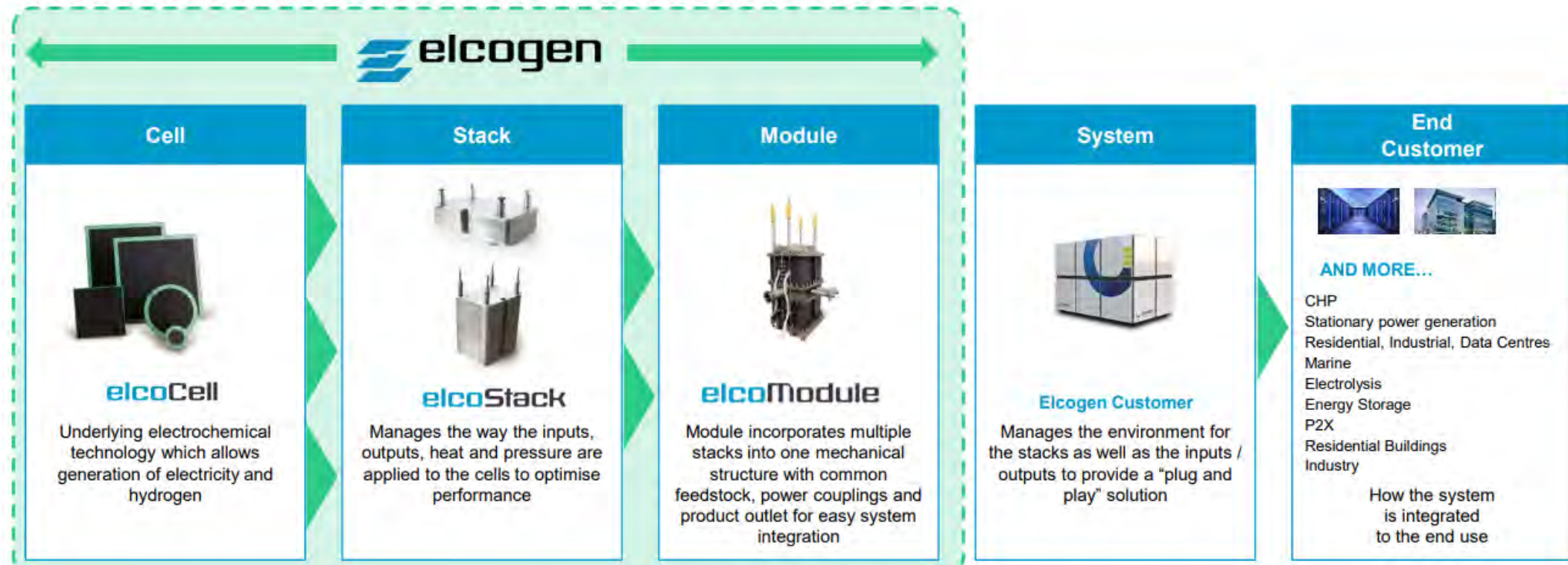




Elcogen

October 2023

Elcogen is a leading component supplier for solid oxide fuel cell and electrolyser systems



Solid oxide technology advantages

Reversibility

The ability to generate power from fuel, as well as fuel from power in one single integrated system

Efficiency

SOFCs and SOECs run at high temperatures with an efficiency greater than 80%, reducing running costs and material use

Fuel flexibility

Allows for fuel flexibility compared to PEM/Alkaline solutions

Cost

The world's most efficient technology for the production and use of affordable green hydrogen

Synthetic fuel production

Electrolysis to produce syngas, a mixture of CO and H₂, which can then be used to create various synthetic fuels and valuable chemicals

Current – Short term



Commercial and industrial power and CHP

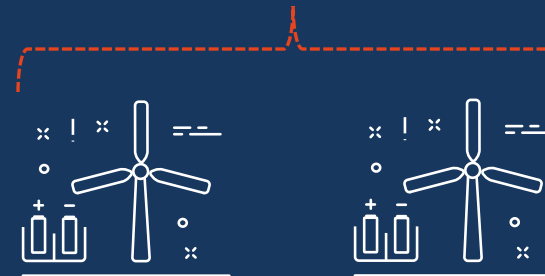
Off-grid and residential

Short – Mid term



Electrolysis for green hydrogen

Mid – long term



CO₂ and co-electrolysis for Power-to-X

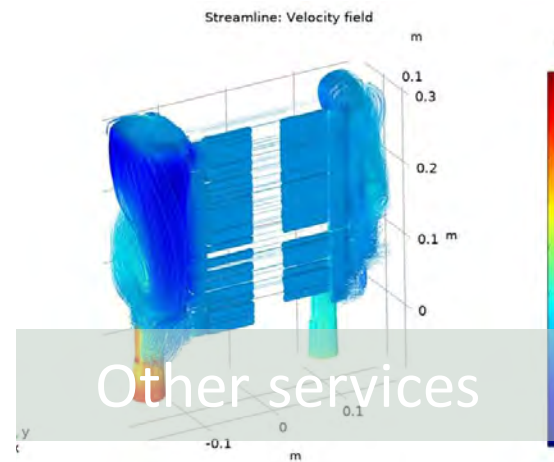
Reversible SOC for energy storage

Longer term



Long-range transportation (LNG, H₂, NH₃)

VTT – a key partner since the beginning



BalticSeaH2 FuelSME fuel MOUTFOX

Project partner