Nel in brief: 4 manufacturing facilities

Strong field know-how & manufacturing capacity







Wallingford, USA

PEM electrolysers since 1996 2 700+ systems delivered

Production capacity:

>40MW/year

Notodden/Herøya, Norway

Alkaline electrolysers since 1927 800+ systems delivered

Production capacity:

40 MW/year

 \rightarrow 360 MW/year (> 1 GW/year)

Herning, Denmark

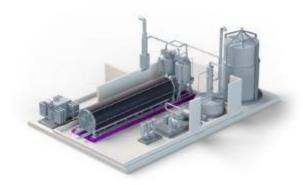
Hydrogen refuelling stations

50+ stations delivered

Production capacity:

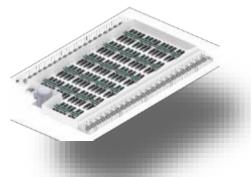
300 HRS/year

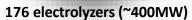
Alkaline product scale



1 electrolyzer (2.2MW)

Built for future expansion up to any capacity size









PEM product scale



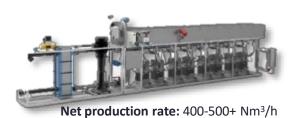
M Series

1-1.25 MW solution

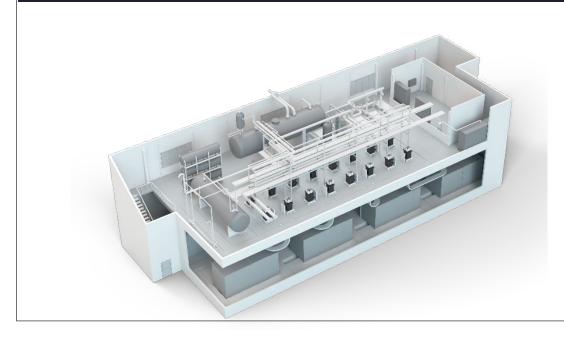
2-2.5 MW solution







Larger Installations





KEY DEVELOPMENT NEEDS

Power electronics challenges

- Rectifier and transformer can still represent 20-25% of electrolyzer cost
- Higher voltage is typically optimal
- Need to understand the current cost drivers and requirements holistically
 - What can electrolyzer tolerate vs. cost impact on power supply
- Smarter controls and algorithms for optimization of stack and power supply performance
 - Efficiency
 - Reliability

