AEM Technology

- High efficiency, fast responsiveness, and cost-effective
- H_2 is electrochemically compressed and delivered at up to 35 barg (Lower associated costs for further compression)
- Titanium and iridium are not required in the AEM design, lowering costs and CO_2 emissions
- Patented “Dry Cathode” technology simplifies system design
- N_2 or other gases not needed for operation
- Compressed air not needed for operation

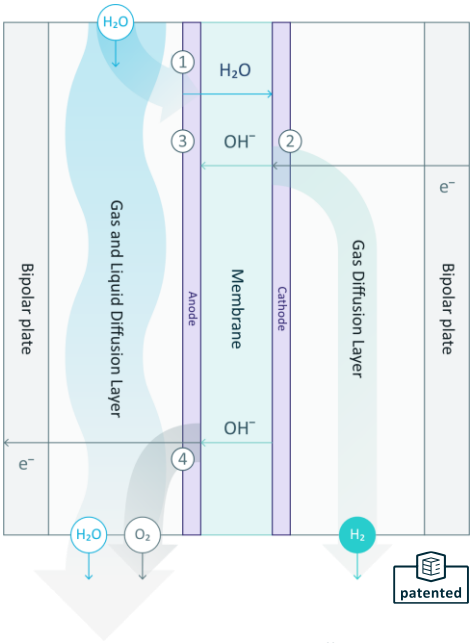

Figure 1 AEM cell cross sections

AEM Nexus 1000

The *AEM Nexus 1000*, is a ~1 MW containerised electrolyser featuring 420 AEM stack modules around a common balance of plant (BoP).

- H_2 Output: 450 kg/24h, 99.9% purity (99.999% with optional dryer)
- Modular system made of 42 AEM strings
  Each string can produce 5 Nm3/h and is controlled independently
- High degree of redundancy:
  2.4% of production stops if a stack failure is detected
- High Production flexibility: 3% – 100%
- Rapid reaction times to variable renewables:
  hot startup 0-100% in 100 seconds
- Smart and fully automatic operation
- Based on proven and commercially available Enapter AEM technology

See here for *commercial references*.

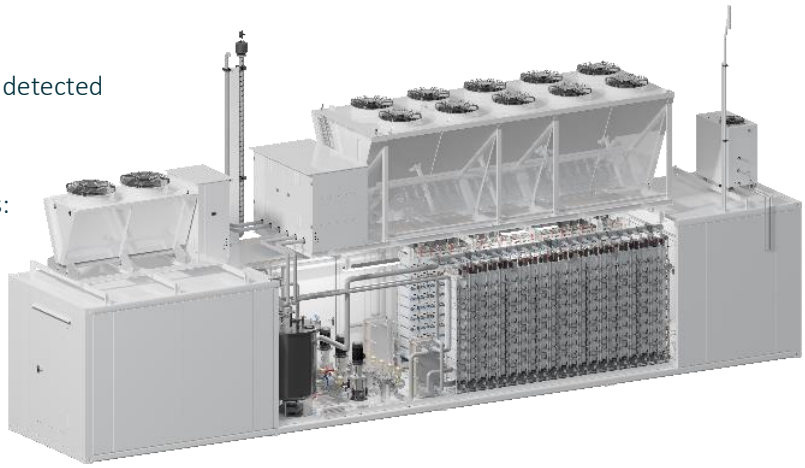

Figure 2 AEM Nexus 1000 outside view