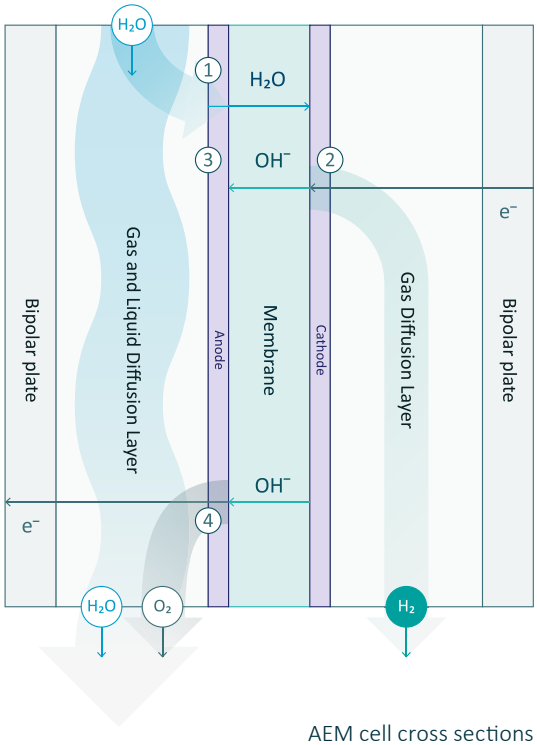
AEM Technology



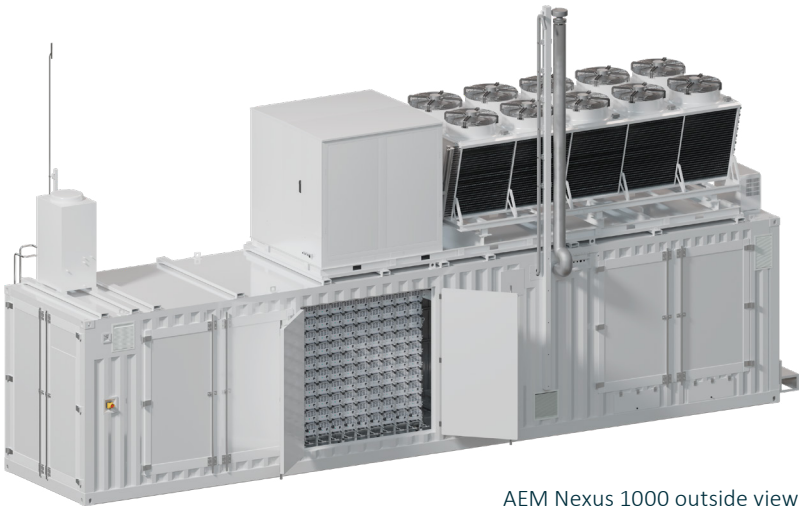
AEM cell cross sections

- High efficiency, fast responsiveness, and cost-effective
- H2 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

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 Nm^3/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



AEM Nexus 1000 outside view

See here for commercial references