



**BLISS**  
AMERICAS



**Hydrogen  
Electrolyser  
Modules & Packages**

*Using* Anion Exchange Membrane (AEM)





## AEM Electrolyser Advantages

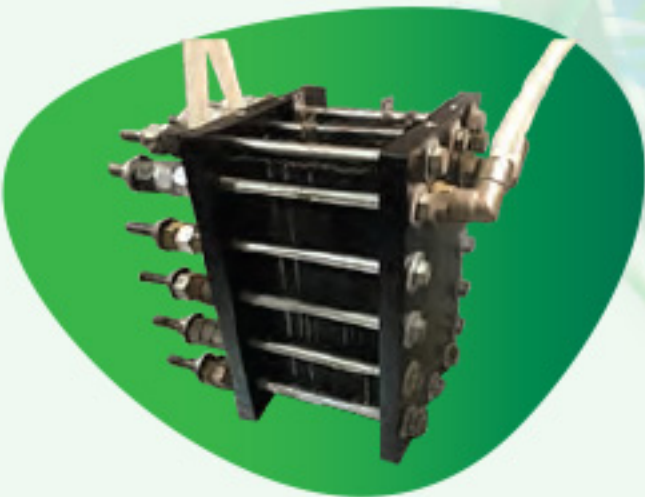
AEM Electrolyser has significant advantage regarding anode electrodes costs

- Low CAPEX without Titanium or Platinum coated cell materials & no Iridium coated electrodes
- Low OPEX with dynamic operation
- Best In class performance with very high ionic conductivity, excellent chemical stability in toxic media and distinguished mechanical integrity



## Applications of the Technology

- Defossilization of mobility and transportation
- Chemical industry for manufacturing of ammonia and fertilizers
- Research labs for testing purposes
- Petrochemical industries to produce petroleum products
- Energy management solutions (storage and management)

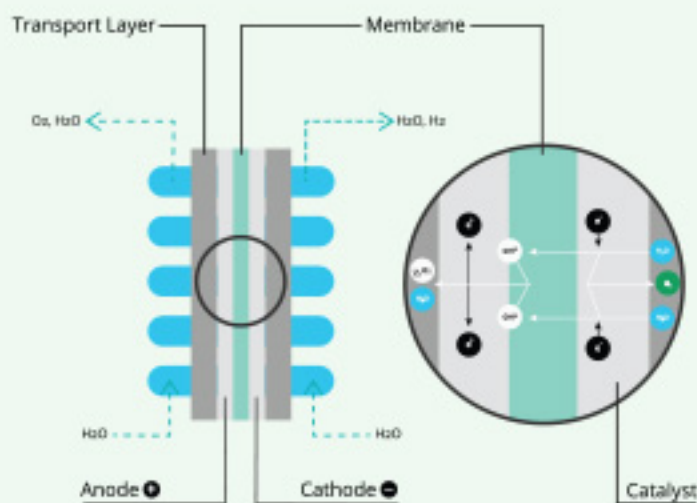


## Innovation to the Technology

- Utilizing cheaper and more abundant materials and coatings for electrodes and stack components to decrease Capital costs
- Using best in class membranes with higher efficiency, durability, ionic conductivity, and lower costs
- A novel microprocessor coupled with in house software to monitor performance of each cell and help with malfunction control

## Path to Green Hydrogen

Schematic cell design of **AEM Electrolysis**



Block Diagram of the **Electrolyser Unit**

