FUEL CELL **Chemical Energy to Electrical Energy**

A fuel cell is a device that converts chemical energy stored in hydrogen into electrical energy through an electrochemical reaction at the interface of an <u>anode</u> and a <u>cathode</u>, which are separated by an <u>electrolyte</u>.

TYPES OF FUEL CELLS

Alkaline FC

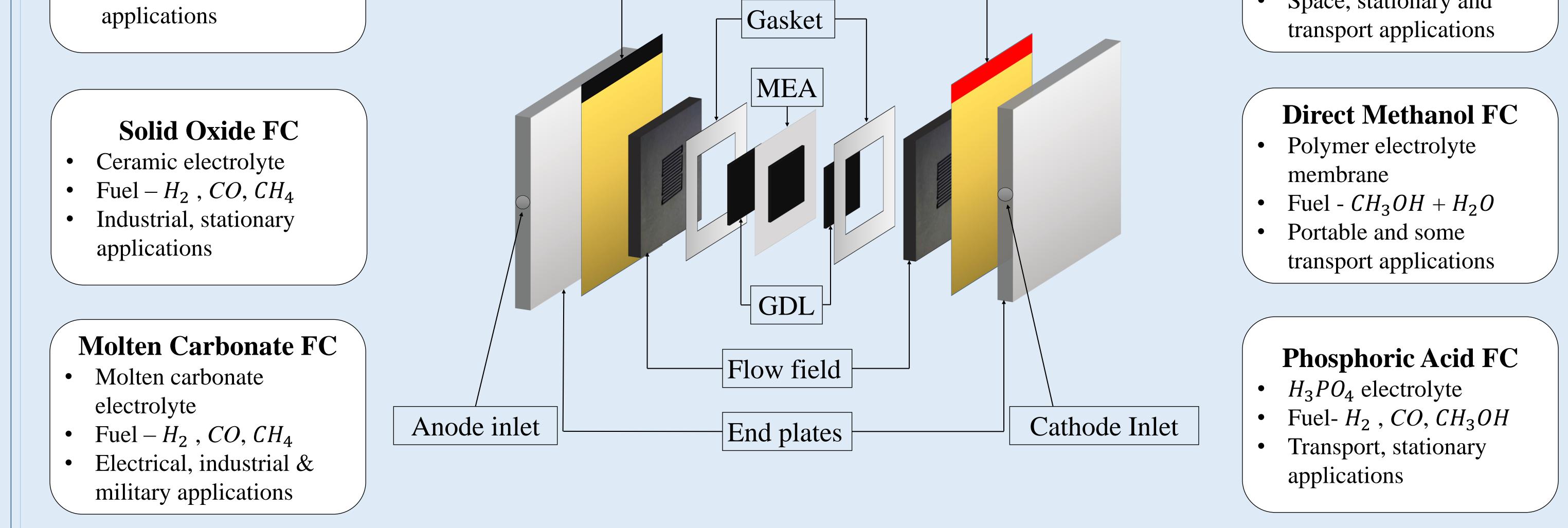
- KOH electrolyte
- Fuel Pure H_2 \bullet
- Space and industrial

	Current Collectors	
l		

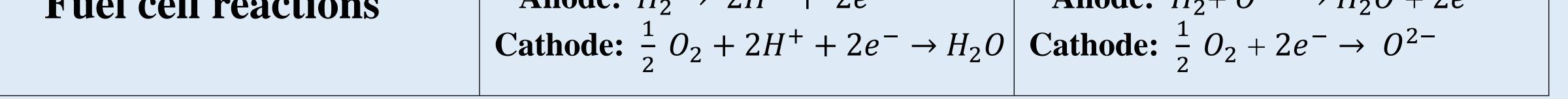


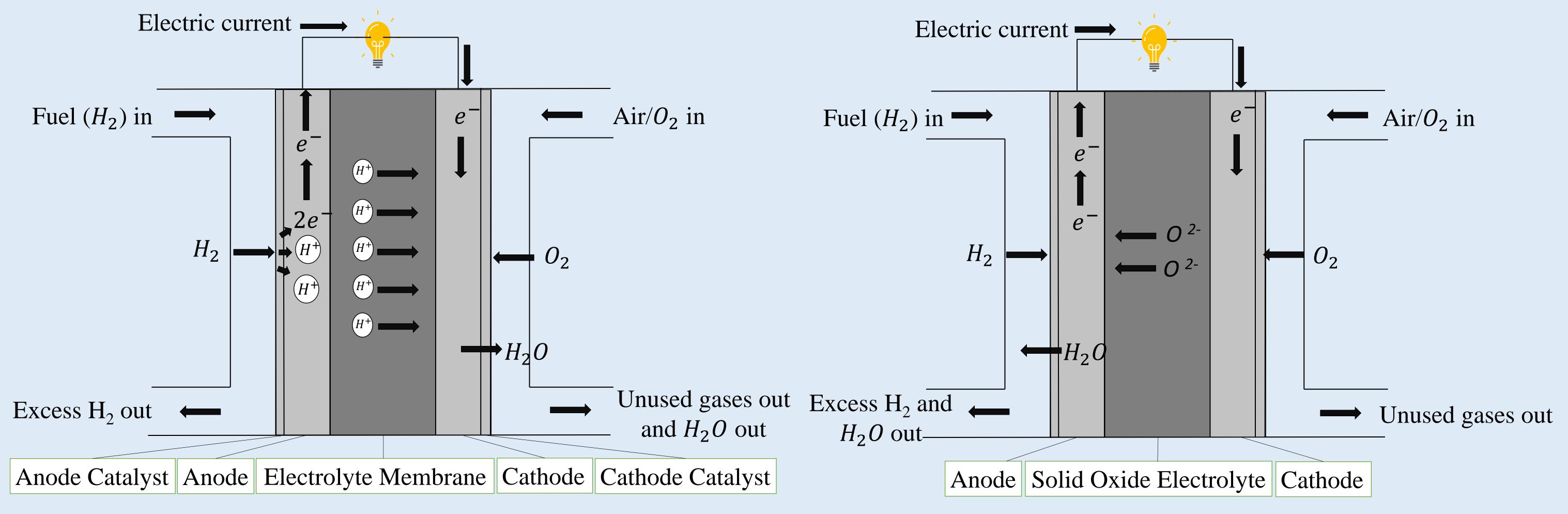
- Polymer electrolyte membrane
- Fuel Pure H_2
- Space, stationary and





	PEMFC	SOFC
Fuel cell reportions	Anode: $H_2 \rightarrow 2H^+ + 2e^-$	Anode: $H_2 + Q^{2-} \rightarrow H_2Q + 2e^{-}$





POLARIZATION CURVE

