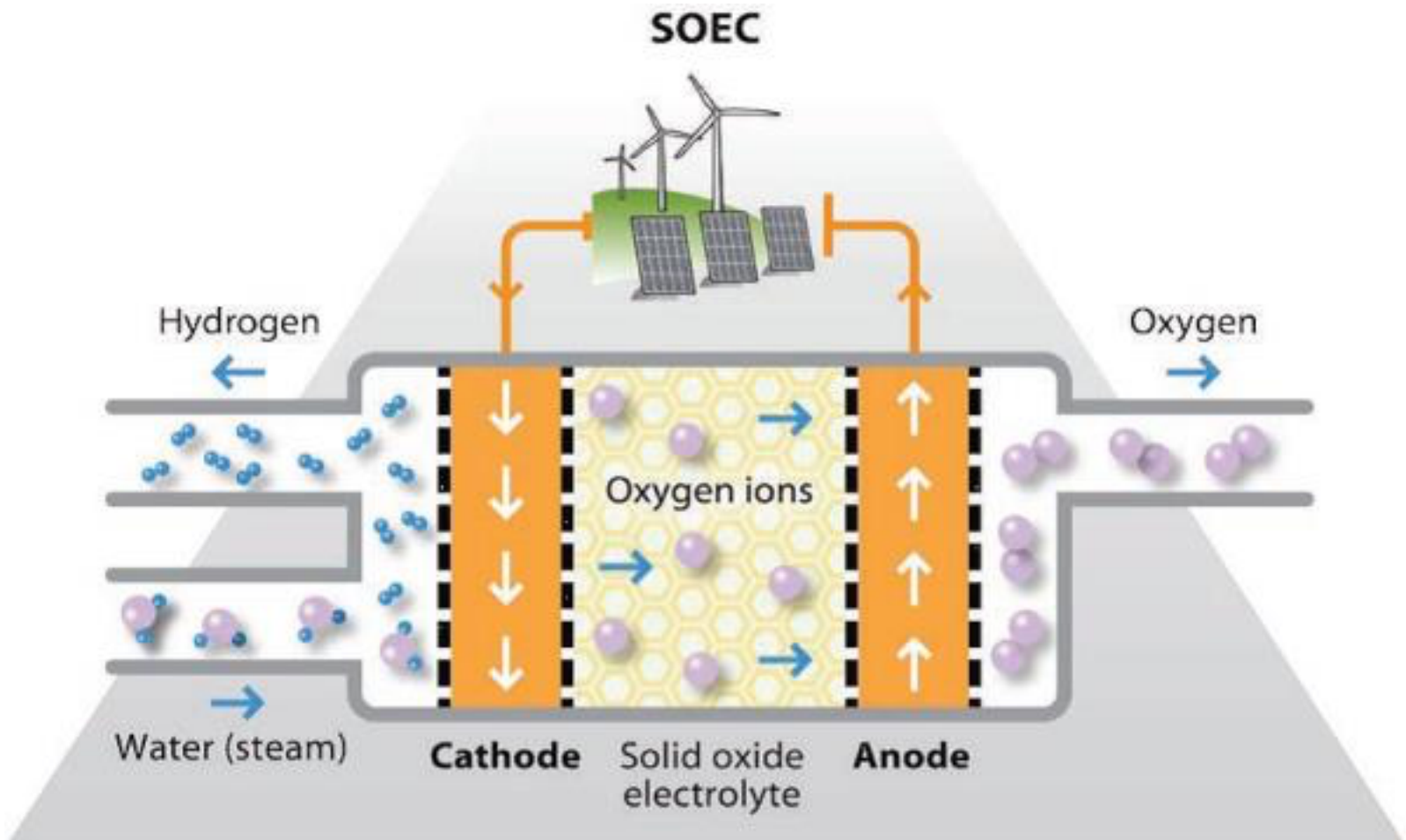


Solid Oxide Electrolysis Cells (SOECs)



Electrolysers are electrochemical devices which convert electricity into chemical energy of fuels such as H_2 or syngas ($\text{CO} + \text{H}_2$). A Solid Oxide Electrolytic Cell (SOEC) is a Solid Oxide Fuel Cell (SOFC) that runs in reverse mode to achieve the electrolysis of steam (H_2O) or the co-electrolysis of steam and carbon dioxide ($\text{H}_2\text{O} + \text{CO}_2$), at high temperatures.