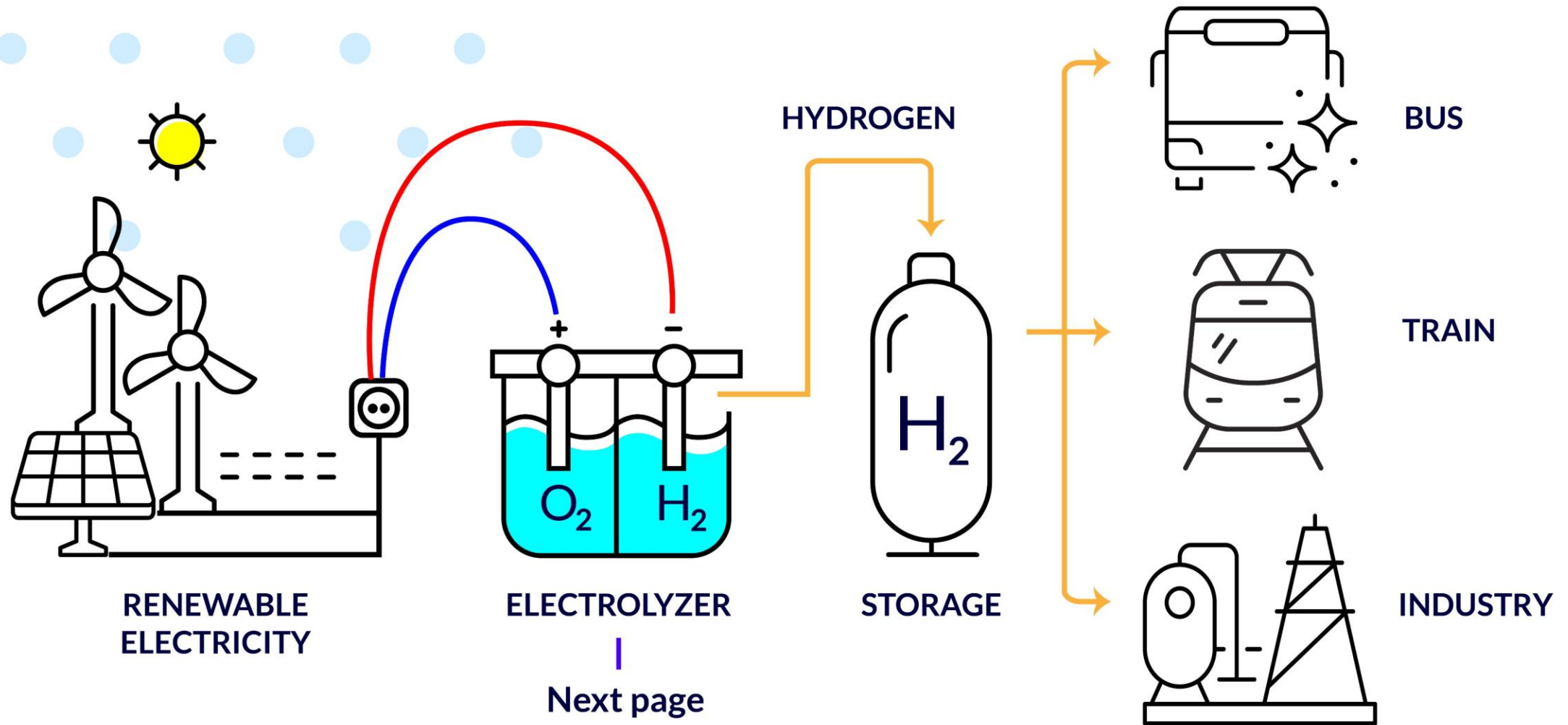




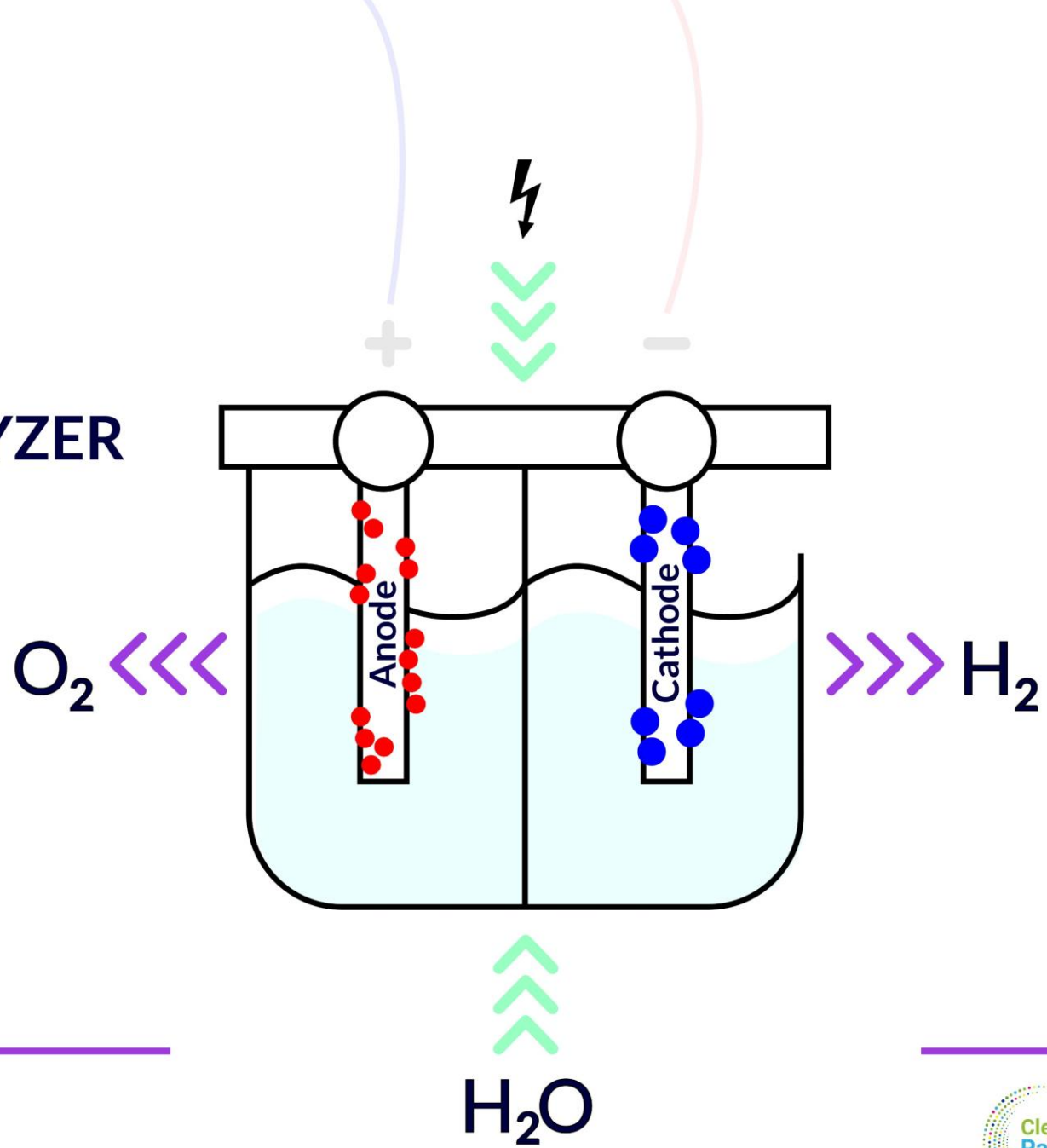
THE ROLE OF HYDROGEN IN THE RENEWABLE ENERGY FRAMEWORK



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ELECTROLYZER





APPLICATIONS: HYDROGEN BUSES

EMISSIONS AND REFUELLING

The emissions produced are limited to heat and water vapour. Refuelling is quick and straightforward, much like that of traditional petrol vehicles.

HYDROGEN CYLINDERS

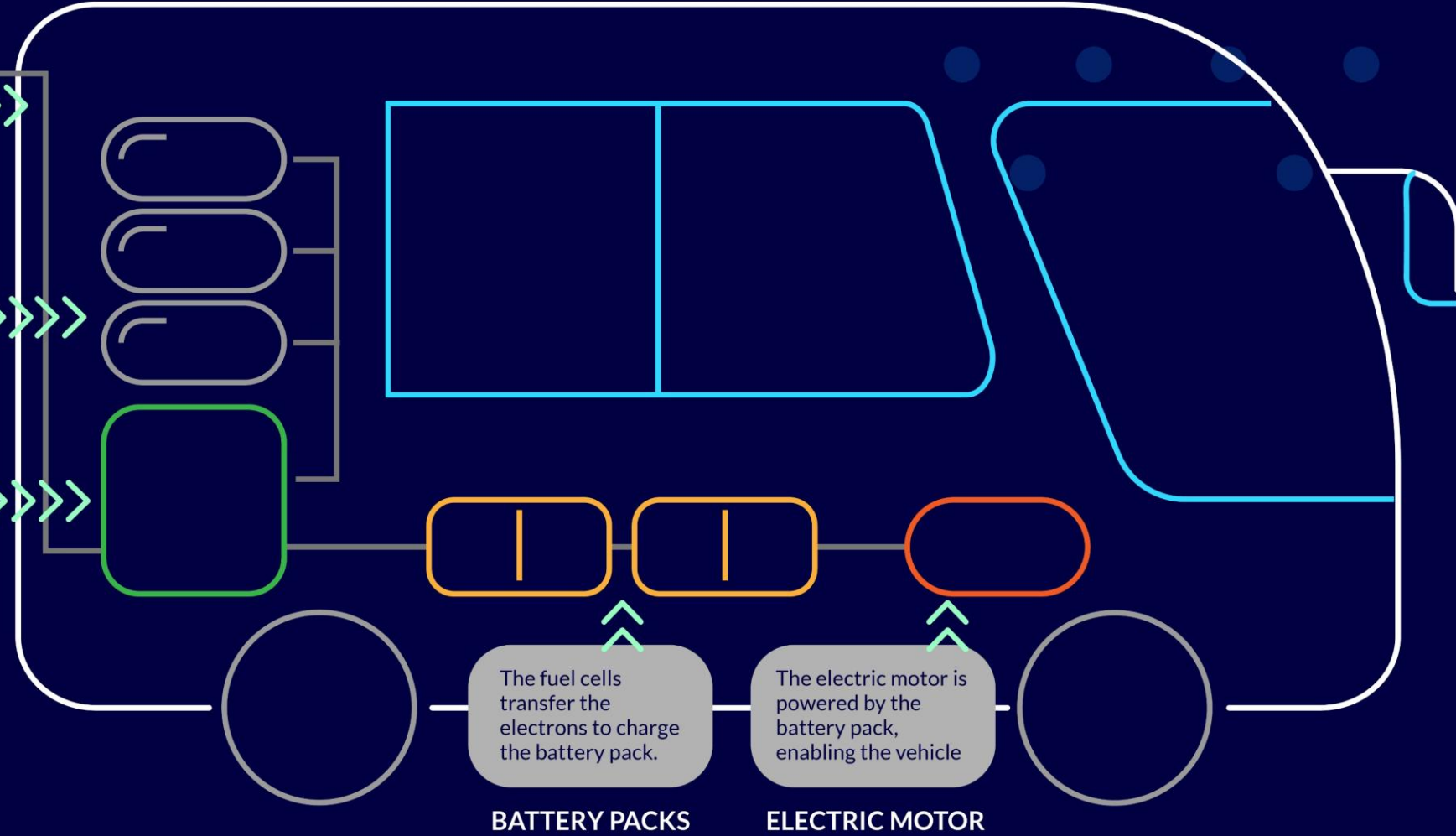
The hydrogen from the cylinders is directed into the fuel cells, where it is split into electrons and protons.

FUEL CELLS

The protons (hydrogen ions) travel through a membrane, while the electrons are directed along the external circuit.



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HOW HYDROGEN FUEL CELLS WORK

PEM Fuel Cell

(Proton-exchange membrane fuel cell)

Fuel cells are devices that directly convert the chemical energy of a fuel (hydrogen) into electrical energy without passing through combustion in a clean way, since there are no emissions of contaminants (only water!), and efficient.

