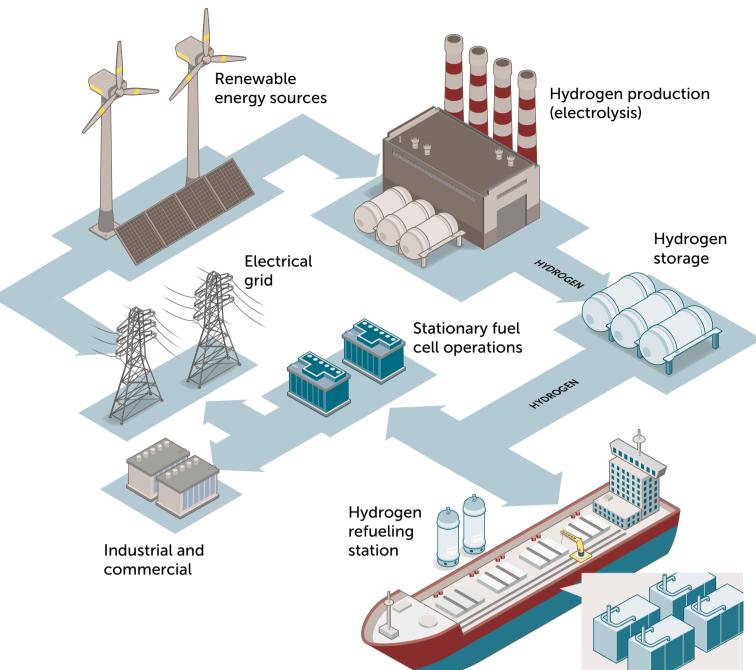
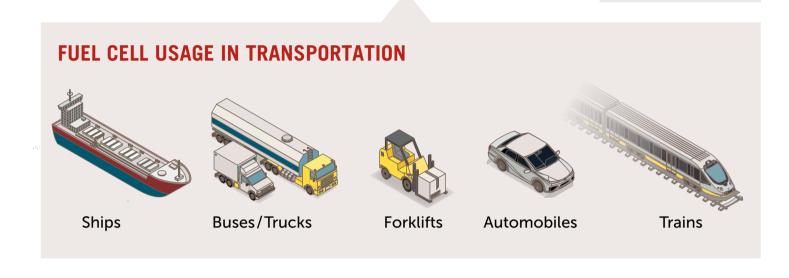
## Enabling Hydrogen Today From Hydrogen Production to Fuel Cell Operations

Carbon-free hydrogen based fuel cells are primed to replace diesel engines for both propulsion and electricity generation use cases. However, to truly be a climate-neutral power source, hydrogen must be produced from renewables. This is where Entegris' expertise in high scale gas purification can add value to the green energy supply chain.

## UNDERSTANDING THE GREEN HYDROGEN VALUE CHAIN

Green hydrogen can be produced from renewable energy sources. Fuel cells transform hydrogen into electricity and can be deployed across industries and commercial applications to provide electricity. Energy can also be transferred back to the grid.



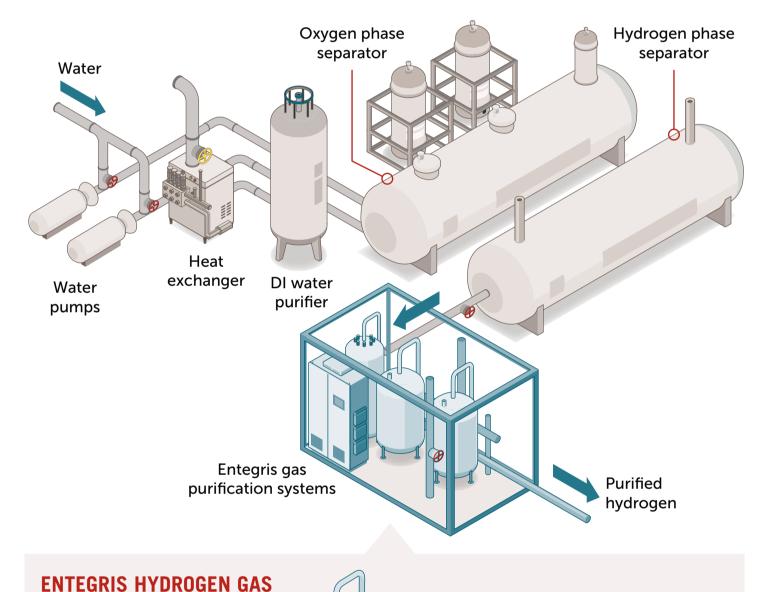


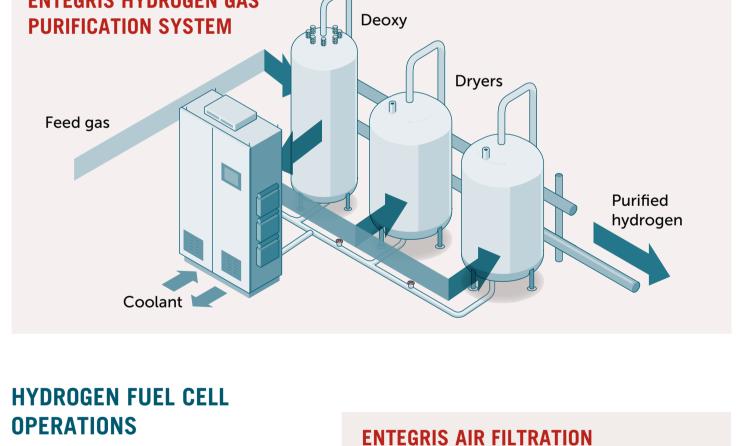
Fuel cells

## Water is deionized and purified prior to being run through phase separators to

**HYDROGEN PRODUCTION VIA ELECTROLYSIS** 

extract high purity hydrogen and oxygen.





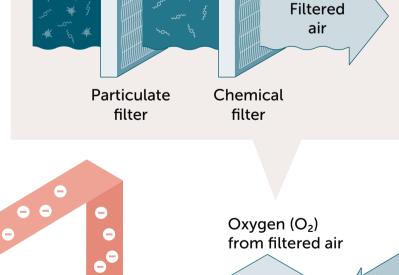
## oxidant – typically filtered air – to produce electricity. With high

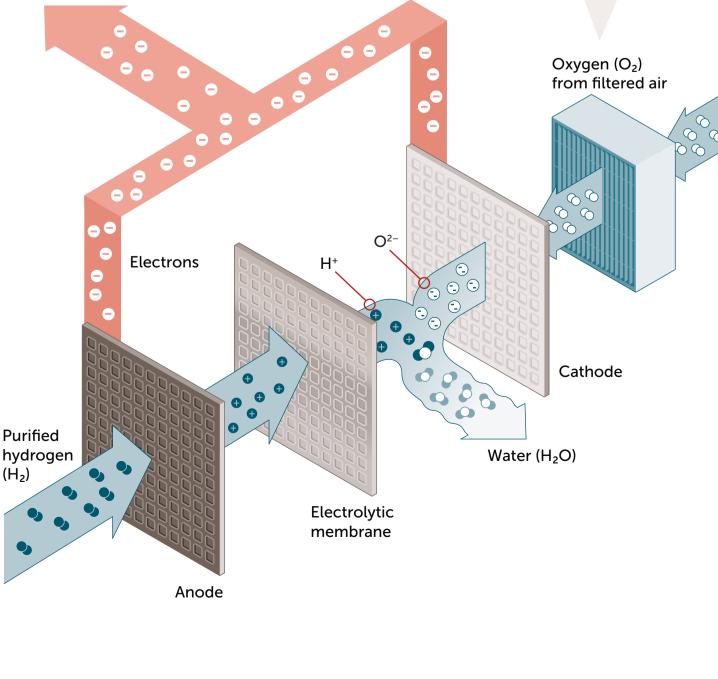
Direct current

Fuel cells use a controlled reaction

between hydrogen fuel and an

purity inputs, water or steam are





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