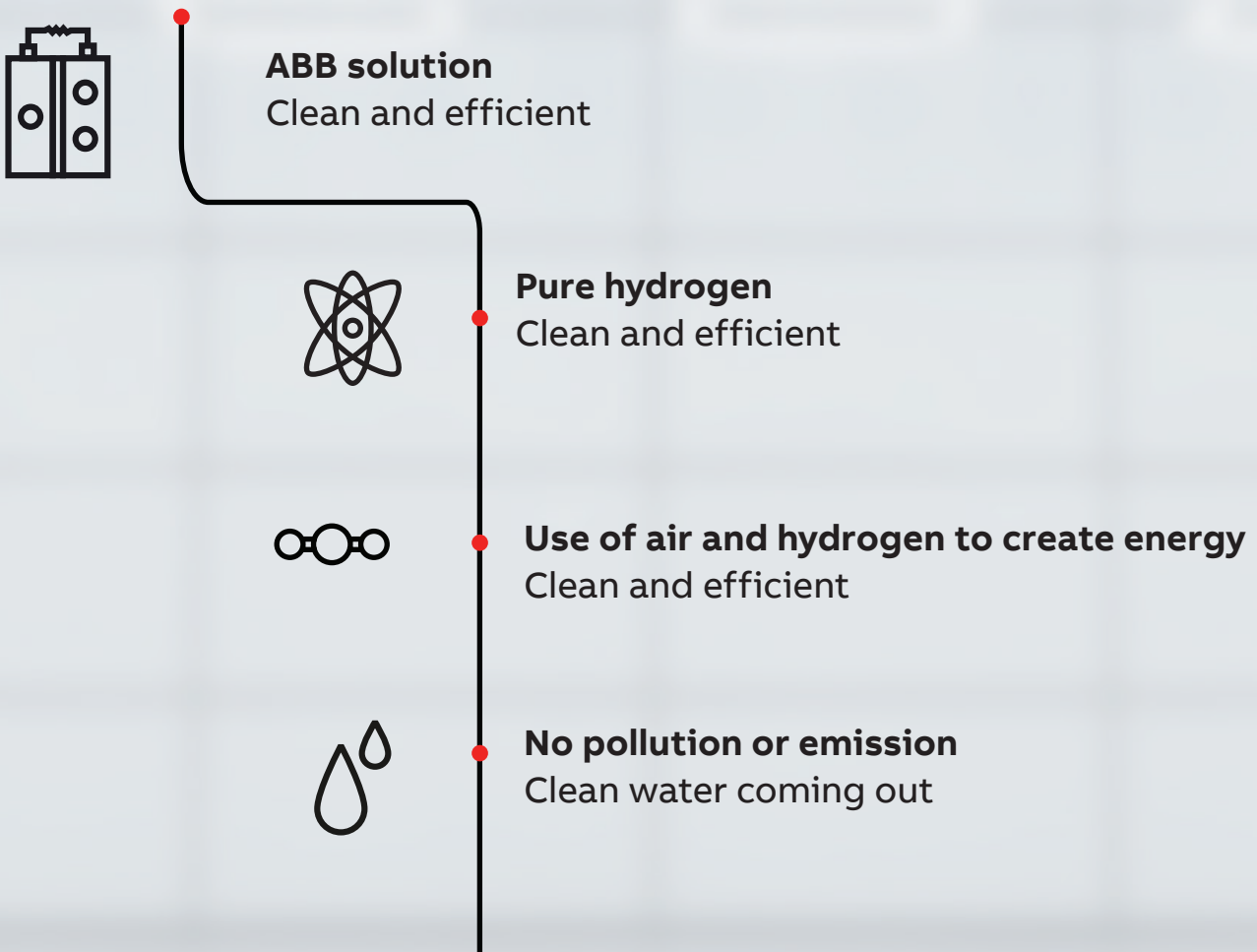


FUEL CELLS FOR THE SHIPPING INDUSTRY

Fuel cell as the new energy source

Clean and efficient power solution



Q&A

Primary benefits

The main benefit for the shipping industry is zero emission operation and lowering maintenance costs of the power plant. Fuel cells have higher efficiency than a combustion engine, and the technology allows energy to be concentrated more densely than in petroleum fuels. And if you use renewables to produce the hydrogen, the entire energy chain is clean.

How can fuel cell systems be integrated with ABB solutions?

The Fuel Cell Systems can be used as a power source in combination with batteries or engines. The fuel cells can be integrated to the AC Power System or Onboard DC Grid System, via a DC/AC converter or DC/DC converter. Further the Fuel Cell System can be integrated with our digital solutions for control, as well as condition monitoring in ABB Ability™.

Safety and reliability

Fuel cells are used to power buses and cars today, and are a safe and reliable option to combustion engines. Safety is our top priority, and is being addressed through studies with our partners.