



sea4volt
seawater fed AEM electrolyser concept

Did you know?

Hydrogen comes in “different colours”

See why Sea4Volt chooses green hydrogen



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Hydrogen Colours

Same molecule. Different pathways. Different impact

Hydrogen Colour	Energy Source	Production Process	CO ₂ Emissions
 Brown / Black Hydrogen	 Coal	Coal Gasification	Very High ●●●●●
 Grey Hydrogen	 Natural gas	Steam Methane Reforming (SMR)	High ○●●●●
 Blue Hydrogen	 Natural gas + Carbon Capture and Storage (CCS)	Steam Methane Reforming (SMR) with Carbon Capture and Storage (CCS)	Medium ○○●●●
 Turquoise Hydrogen	 Natural gas	Methane Pyrolysis (Thermal Cracking)	Low ○○○●●
 Pink / Purple Hydrogen	 Nuclear energy	Electrolysis powered by nuclear energy	Very Low ○○○○●
 Green Hydrogen	 Renewable electricity (wind, solar, hydro, etc.)	Electrolysis powered by renewable energy	Zero / Near-Zero ○○○○○

Why Sea4Volt chooses Green Hydrogen



Renewable Energy Driven

Powered by clean and inexhaustible sources like wind, solar and hydro.



Zero / Near-Zero Emissions

Produces only water, helping fight climate change and reduce air pollution.



Sustainable for the Future

Enables a long-term, sustainable energy system for generations to come.



Versatile and Scalable

Can be used across multiple sectors and scaled to meet growing demand.



Energy Security

Reduces dependence on fossil fuels and imports, strengthening energy independence.



Supports a Clean Energy Economy

Creates green jobs, drives innovation and boosts economic growth.



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