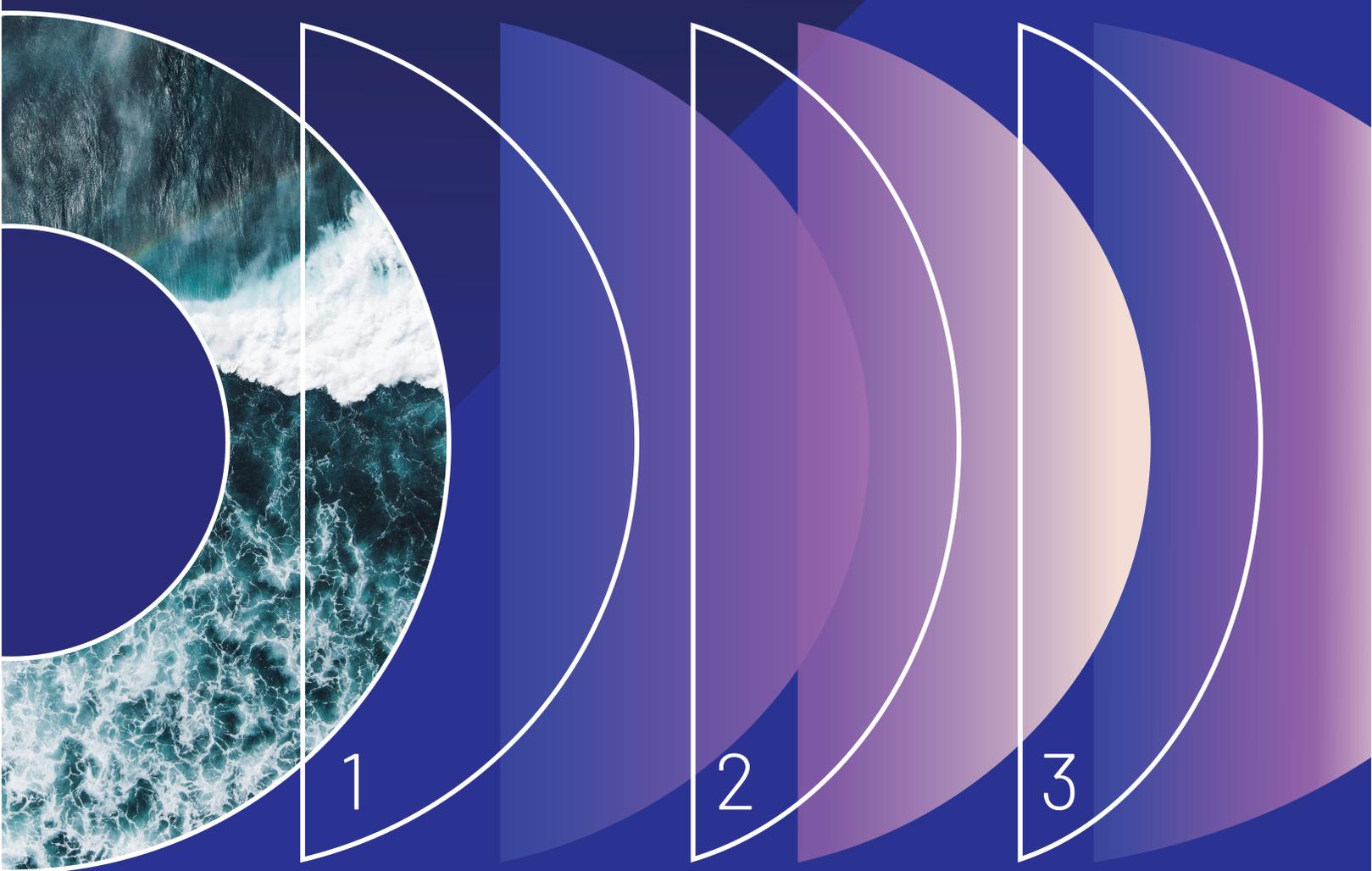


sea4volt

Seawater Electrolysis by AEM Technology for Various Liquid Feeds without Pre-Treatment

Developing a low-temperature Anion Exchange Membrane electrolyser for clean energy directly from seawater.



1
Seawater:
Direct feed from
different seawater
compositions

2
Low-temperature
AEM electrolyser:
Operating under a
slight pH-gradient

3
Green
Hydrogen +
Brine
Valorisation

Our mission is to:



Understand seawater-material interactions via experimental and machine-learning tools



Develop PFAS-free membranes and durable low-PGM cathodes for seawater use



Design and build an AEM single cell and multi-cell stack for direct seawater electrolysis



Define performance and durability testing protocols for seawater-fed electrolysers



Design an integrated flowsheet for a Net Zero Liquid Discharge approach to brine valorisation

PARTNERS



Get in Touch with Sea4Volt

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📱 [@sea4volt](https://www.instagram.com/sea4volt)



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