

Pioneering Green Hydrogen Production from Seawater

HySEas is pioneering a breakthrough in green hydrogen production by extracting hydrogen directly from seawater. Traditional methods of seawater electrolysis face challenges because saltwater can damage the equipment and create harmful byproducts. HySEas solves this by using a special Bipolar Membrane (BPM) that carefully controls how ions move, making the process safer and more efficient. The project also recovers valuable metals from seawater, making better use of natural resources. To reduce dependence on rare and expensive materials like iridium and platinum, HySEas explores alternative, more sustainable catalysts. With advanced technology and smart design, HySEas makes seawater electrolysis a cleaner, more durable, and cost-effective solution, helping drive the future of green hydrogen energy.

