



Next Generation Hydrogen Electrolyzers™

Who We Are

H2U Technologies is a developer of low-capital-cost, iridium-free proton exchange membrane (PEM) electrolyzers that are particularly suited for pairing with renewable energy sources. We leverage our ultra-high speed Catalyst Discovery Engine™ (CDE™) to develop iridium-free catalysts for use in our electrolyzer systems. The world-class technology featured in our products stems from ten years of research and development at Caltech and over \$120 Million in funding.

Our Technology

Iridium-free PEM electrolyzer technology

H2U's low-cost PEM electrolyzers leverage novel, non-iridium catalysts and innovative electrolyzer design improvements to enable cost-effective green hydrogen generation. Our 200 kW electrolyzer units come in plug-and-play, standard shipping containers. These scalable modules are well-suited to help decarbonize businesses over a range of applications.



How do we get there? CDE for PEM electrolyzers

Our CDE is a data-driven, rapid-screening process that allows scientists to make, characterize, and quantify the catalytic activity of thousands of material compositions per week. In the coming years, earth's limited supply of Iridium will lead to product shortages and electrolyzer price increases. Using its patented CDE technology, H2U Technologies has discovered novel, non-iridium catalyst materials that have been validated both in-house and through third-party testing by the #1 global supplier of catalytic coatings.

Low H2 Production Cost + Low H2 Storage | Transportation Cost = Lowest H2 Delivered Cost

Hydrogen compression, storage and transportation costs can double production costs. H2U minimizes these costs by designing electrolyzers specifically tailored for on-site production of hydrogen. Applications for our pilot products include natural gas blending, hydrogen fueling stations, steel production, and green ammonia production. Interested in obtaining a pilot unit for your project? Contact us today.



Interested in learning more?

Scan the QR code here to [reach out to a representative](#)

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Natural Gas Blending

Hydrogen Fueling

Refinery Desulfurization

Green Steel Production

