



# Renewable Hydrogen Production System

RHPS-100.0

**DXP's Renewable Hydrogen Production Systems are designed to facilitate the generation of grey, blue or green hydrogen near the source or at the delivery point. No matter the color, our skid mounted and/or containerized packaging guarantees an on-site, on-demand delivery of clean hydrogen to your plant or equipment at adequate flows and pressures.**



**GENERAL – RENEWABLE – POWER**

## Industry Benefits

- Automatic On-Site delivery of hydrogen for fueling or industrial requirements
- Ability to design for operation with natural gas, rng or renewable electricity
- Zero emission system (grey hydrogen requires CO2 Capture)
- Ideal for grid balancing or load balancing operations
- On-Site generation reduces cost of high-pressure hydrogen transportation
- Pre-Packaged Modular Design Costs Less than Component Based Site Built Which Reduces Overall Project Cost
- Minimizes Field Erection Time – Shorter Overall Project Delivery Schedule
- Complete System Function Testing Prior to Shipment
- 24/7 Customer Service

## Industry Standards

- Vessels Code Stamped ASME Section VIII & National Board Registered
- Piping Designed to ANSI B31.1/ANSI B31.3
- Pipe Fabrication to ASME Section IX
- Structural Steel Assembly Designed to AWS D1.1
- ABSA, CRN, as required

## Standard Features

- System fabrication based on customer's design
- ANSI or API Centrifugal pumps
- ASME Section VIII Stamped Vessels
- Rigid Structural Steel Base with Curbed Perimeter & Drain to Minimize Environmental Impact
- System Fabrication based on customer's design
- ANSI or API Centrifugal Pumps
- Hydro testing of All Piping
- Hydrogen and Oxygen Separators
- Inlet Water Treatment System
- Grey H2 Natural Gas Pre-Treatment System
- Proton-exchange-membrane (PEM)-based electrolysis.

## Optional Features

- Automated PLC Based System Control
- Complete system design using Aspen Hysys
- Redundant Filters and Pumps
- All NEMA or IEC Rated Enclosures and Components for Class 1, Div. 1 or Div. 2 Electrical Areas
- PanelView Operator Interface
- Complete String Test of Package
- Solid-Polymer-Electrolyte (SPE) membrane electrolysis.

## Additional Services

- Worldwide Service and Support
- Installation & Supervision
- Turn-Key Projects
- Equipment Leasing Program
- Extended Equipment Warranty