

# The Second LH<sub>2</sub> Hydrogen Refueling Station in Korea

## RESULTS

- **On-Time Delivery:** Components were delivered within the tight deadline, ensuring no delays in the project timeline.
- **Regulatory Compliance:** All safety and regulatory requirements were successfully met, providing confidence in the safety and performance of the refueling station.
- **Efficient & Reliable Operations:** The station now operates reliably under extreme pressure conditions, supporting Korea’s expanding hydrogen mobility infrastructure.
- **Customer Satisfaction & Digital Angle:** The integration of RFID for asset management ensures future stations follow the same high standards.



This project represents the second LH<sub>2</sub> Hydrogen Refueling Station in Korea, a key component of Korea’s hydrogen mobility infrastructure.

This investment is part of the deployment of 15 LH<sub>2</sub> refueling stations and will support the fueling of hydrogen-powered vehicles, significantly advancing Korea’s sustainable transportation goals.

## INDUSTRY

LH<sub>2</sub> Hydrogen Refueling Station (LHRS)

## CUSTOMER

A leading South Korean energy company

*Emerson’s expertise and reliable solutions helped us meet tough regulatory and engineering demands. We value this strong partnership.*



Radio Frequency Identification (RFID)



Anderson Greenwood™  
81 Series

## CHALLENGE

**Compliance with Local Regulations:** The project faced the challenge of meeting Korea's LH<sub>2</sub> local regulations, especially the cryogenic test requirements and the EN-13648-1 standards.

**High-Pressure Requirements:** The system required pressure relief valves (PRVs) capable of handling hydrogen at pressures over 950 barg, demanding the highest quality and reliability.

**Tight Project Timeline:** The project required a tight delivery schedule, with the components needing to be on-site to meet construction deadlines.

## SOLUTION

**Liquid Helium Test Facility:** Highlighted Emerson's readiness to meet the EN-13648-1 cryogenic test requirements, ensuring compliance with regulatory standards.

**High-Pressure Relief Systems:** Leveraged Emerson's new Type 84 solution which is ASME certified PRV solution designed specifically to handle hydrogen at high pressures upto 1,500 barg.

**Continuous Site Support:** Guaranteed continuous support through Emerson's Local Business Partner with a fully stocked spare parts inventory, ensuring rapid shipment and repair capabilities.

**Efficient Delivery:** Worked closely with the team to meet the tight delivery deadline.

**Digitization of the refueling station:** Digitized the PRVs using RFID tags for asset management.

### Emerson

#### Americas

T +1 800 558 5853

T +1 972 548 3574

#### Europe

T +39 051 419 0611

#### Asia Pacific

T +65 6777 8211

#### Middle East / Africa

T +971 4811 8100

© 2025 Emerson. All rights reserved. The Emerson logo is a trademark and service mark of Emerson Electric Co. Anderson Greenwood is a mark of an entity in the Emerson family of businesses. All other marks are the property of their respective owners. Neither Emerson nor any of its affiliated entities assume responsibility or the selection, use or maintenance of any product. Responsibility for proper selection, use, and maintenance of any product remains solely with the purchaser and end user. The contents of this publication are presented for informational purposes only, and while every effort has been made to ensure their accuracy, they are not to be construed as warranties or guarantees, express or implied, regarding the products or services described herein or their use or applicability. All sales are governed by our terms and conditions, which are available upon request. We reserve the right to modify or improve the designs or specifications of such products at any time without notice.