



CASE STUDY: **HORIBA MIRA** **HYDROGEN HUB**

OBJECTIVES

Octopus Energy Hydrogen Limited partnered with Rhizome to realize their vision of a comprehensive hydrogen refuelling station at HORIBA MIRA.

Designed to accommodate 1 MW hydrogen production, high-pressure compression, tube trailer filling and vehicle refuelling for testing purposes, the station allows refuelling of prototype FCEV vehicles at HORIBA MIRA.



SOLUTIONS

Rhizome seamlessly integrated the site by deploying interconnecting tubing and conducting essential commissioning tasks including pressure testing and purging.

Additionally, Rhizome supplied crucial equipment, comprising two Tube Trailer Filling Panels, Hydrogen Supply Changeover Panel and a Hydrogen Refueller, ensuring efficient operations and functionality.

AT A GLANCE

ACHIEVEMENTS

Site Integration

Full tubing installation, pressure testing up to 500 barg, and thorough purge procedures ensured seamless integration and operational readiness.

Tube Trailer Filling Panels

Multi-pressure tube trailer filling panels, combined with valve interlock mechanisms, ensure safe and efficient operations.

Hydrogen Refueller

Dual pressure (H35 & H70) hydrogen refueller with integrated compressor and storage at up to 950 barg. Ambient fill protocol with IR communication according to SAE J2799.

Class Approval

LRQA approval and UKCA & CE marking signify compliance with rigorous quality and safety standards, reflecting our commitment to delivering reliable and certified products.

TESTIMONIAL

"We have built an excellent working relationship whilst developing compliant systems within a challenging and dynamic sector. I look forward to working with Rhizome on future projects".

RICHARD WESTWOOD

Octopus Energy Hydrogen Limited



octopus hydrogen