



case study

JFD completes hyperbaric test for Verlume's Orah subsea enclosure, supported by James Fisher Energy's R2S technology

JFD combined its hyperbaric testing expertise with James Fisher Energy's R2S technology to support qualification of Verlume's Orah subsea enclosure in Aberdeen, UK.

Verlume

Scotland

2026

10t

enclosure successfully
pressure tested

R2S

utilised during planning and
design phases

Customer challenge

Ahead of offshore deployment, Verlume needed to verify Orah's performance under representative subsea conditions. The 10-tonne enclosure also required careful assessment of available space at JFD's National Hyperbaric Centre (NHC).

Solution for our customer

JFD used James Fisher Energy's R2S digital twin technology to create a trusted 360-degree view of the hyperbaric chamber, supporting spatial planning and enabling Verlume to maximise Orah's capacity. At its NHC, JFD conducted controlled pressure testing to verify the enclosure's integrity and performance.

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This programme demonstrates the scale and flexibility of JFD's hyperbaric testing capability. By combining James Fisher Energy's digital expertise with our specialist testing facilities, Verlume was able to verify Orah's performance and progress towards offshore deployment.

Commercial Diving Director, JFD
Andrew Laing

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Customer impact

- Verified performance, integrity and depth capability of largest vessel ever tested at JFD's NHC
- Used R2S digital twin technology to support spatial planning and capacity maximisation during Orah's design phase
- Further de-risked Orah ahead of planned offshore deployment
- Demonstrated James Fisher's combined digital and engineering capabilities to support complex subsea technology qualification