CYIENT
Nothing Less

Engineering Production-Ready Green Hydrogen Infrastructure

Advancing a 20 MW facility toward safe, compliant, zero-emission maritime operations



Customer challenge

A hydrogen project developer in Norway needed to progress a 20 MW electrolyzer plant from concept toward production readiness. Designed to support zero-emission ferry operations under a long-term offtake agreement, the facility had to meet stringent safety, regulatory, and reliability requirements while integrating high-pressure hydrogen storage and maritime bunkering systems.

The client needed an engineering partner who could bring multidisciplinary rigor, execution governance, and lifecycle readiness to one of Norway's most significant green hydrogen initiatives—ensuring the project could move confidently from engineering definition to fabrication, construction, and commissioning.

The Cyient solution

Cyient served as owner's engineer and technical project lead, guiding the plant from basic engineering through detailed design. The engagement focused on creating a safe, compliant, and production-ready facility with integrated hydrogen production, storage, and maritime bunkering capabilities.

- Multidisciplinary engineering covered HSE, process, mechanical, piping, structural, electrical, and controls.
- High-pressure hydrogen systems and maritime bunkering interfaces were addressed to support safe, reliable operations.
- Project governance was strengthened to align engineering definition with fabrication, construction, mechanical completion, and commissioning requirements.

Business impact

Cyient helped the developer build the engineering foundation for a production-ready hydrogen facility. The project advanced with stronger safety assurance, clearer execution governance, and the technical readiness required to support zero-emission maritime infrastructure.

- 20 MW electrolyzer plant advanced toward production readiness in Bodø
- 15-year offtake agreement supported for zero-emission ferry operations
- High-pressure hydrogen storage and maritime bunkering systems engineered for execution
- Owner's-engineer model strengthened governance across engineering and delivery phases



Engineering excellence. Nothing Less.

Large-scale hydrogen infrastructure does not become production-ready through ambition alone. By bringing disciplined engineering, safety rigor, and execution governance together, Cyient helped move a landmark green hydrogen project closer to powering zero-emission maritime operations.

Ready to engineer hydrogen infrastructure that is safe, compliant, and built for execution? Speak with our experts today.

Cyient is a global lifecycle engineering services company powering mission-critical industries from design to aftermarket across products, plants, and networks. With 300+ customers and 15,000+ associates across 30+ countries, we combine human expertise, deep domain knowledge, and AI to deliver intelligent engineering for every lifecycle across Aerospace and Rail, Automotive and Mobility, Connectivity, Energy, Healthcare, Mining, Utilities, and beyond.

To learn how we deliver exemplary outcomes, nothing less, visit www.cyient.com.

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