

# SPECIALIST SERVICES

Supporting the seamless construction of Australia’s first Direct MCH Hydrogen plant through integrated delivery and digital precision.



Zero LTIs  
Integrated Delivery  
Across Disciplines  
Digital Systems  
Deployment

## The Challenge

As part of the global push toward decarbonization, Australia set out to pioneer a safer, more efficient method of hydrogen transport. The goal? To prove the technical and commercial viability of a CO<sub>2</sub>-free hydrogen supply chain between Australia and Japan – starting with the country’s first Direct Methylcyclohexane (MCH) Hydrogen plant in Brisbane.

To bring this ambitious vision to life, the client needed a partner with the technical expertise, integrated capabilities, and agility to deliver a complex renewable energy project – safely, efficiently, and on schedule.

## The Solution

EnerMech partnered closely with ENEOS Corporation, Chiyoda Corporation, and GPA Engineering to ensure seamless execution across all phases.

Our integrated service model brought together project management, engineering, structural steel and piping fabrication and installation, electrical and instrumentation works, and high-voltage pre-commissioning.

We deployed our digital permit-to-work, quality, and completions systems to boost safety, streamline productivity, and enable real-time progress tracking. This approach reduced interfaces, optimized scheduling, and delivered measurable cost savings for the client.

## The Outcome

EnerMech delivered the project safely, efficiently, and on schedule –successfully launching Australia’s first Direct MCH Hydrogen plant.

Our digital systems and integrated delivery model ensured a smooth handover, with the client commending our technical expertise, agility, and ability to meet extraordinary timelines. This project marks a major milestone in hydrogen transport innovation and supports the broader energy transition between Australia and Japan.

## We Delivered...

- Project management and engineering support
- Structural steel and piping fabrication and installation
- Electrical and instrumentation works
- High-voltage pre-commissioning
- Deployment of digital permit-to-work, quality, and completions systems

## Key Highlights

- First Direct MCH Hydrogen plant in Australia
- Full mechanical, electrical, and commissioning scope delivered by EnerMech
- On-time delivery with zero safety incidents
- Digital systems enabled real-time tracking and enhanced productivity