

TANDEM

Start	2024
Subsidy	€ 3,995,119
Private contribution	€ 5,402,607
Project Coordinator	Alex De Jong
Expected results	2028

Project partners

UNIVERSITY
OF TWENTE.

 BRIGHT

 **HYGEAR**
ENGINEERING FOR SUSTAINABLE GROWTH

Description of the project:
The TANDEM project is developing a 1 MW E-methanol system that converts biogenic CO2 and renewable electricity into methanol using a new LOGIC reactor technology. The system, designed for decentralised applications, will be tested and demonstrated at HyGear’s site, with research support from the University of Twente. TANDEM aims to validate flexible, low-energy methanol production that enables long-term storage of renewable energy.

Impact:

Acceleration	
Scaling up	✓
Reducing costs	✓
Innovative ecosystem	
New talents	

- **Scaling up:** Modular, low-energy design allows replication at other decentralised sites.
- **Reducing costs:** LOGIC reactor cuts energy use and simplifies the methanol synthesis process.

