

Hydrogen compressor skid

Reference

Project:

The **Monfalcone CCGT project** aimed to transform the historic coal-fired power station in Monfalcone into a modern, high-efficiency natural gas combined cycle power plant (CCGT), designed to use green hydrogen.

The project is part of the national energy system's decarbonisation strategy.

Site: A2A power station in Monfalcone

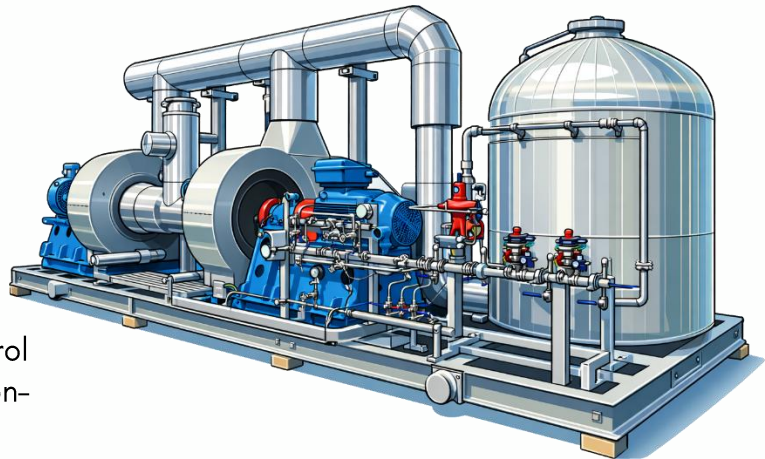
Location: Monfalcone (Italy)

Final customer: Siemens Energy

Year: 2023

Combined Cycle Gas Turbine: 880 MW

Monteco took part in this project by undertaking the detailed design of the process system on a complete skid on behalf of the AFCU (Ammonia Flow Control Unit) supplier. This skid is configured for on-site transport without the need for dismantling or reassembly.



The supply included:

- Complete engineering services for construction
- Mechanical calculations including :
 - Foundation loads
 - Calculation of lifting loads
 - Calculation of the evaporator tank
 - PED Declaration for piping
 - Piping stress analysis on the high-temperature line (+400°C)
- Electrical engineering design Piping supply and mechanical fabrication
- Cabling
- FAT and packaging for shipping

