



CONTEXT

Customer : AF GRUPPEN

Sector of activity :
Offshore Platform

Location : USA
Year : 2022

Equipment installed :
3x ZEUS R1234ze 700KW
12x CCU

Description of the equipment :
*Two compressors with magnetic bearings on one circuit
*Flooded evaporator.

Total capacity :
2,1MW

THE CUSTOMER

AF Gruppen, the third-largest civil engineering company in Norway, selected CTA for a strategic offshore wind farm project owned by the Danish group Ørsted, located off the coast of New York as part of the “Sunrise” project.

This renewable energy production site, with an installed capacity of 1,050 MW, is based on an offshore platform dedicated to energy management and conversion.

CTA's role is to ensure the cooling of the power inverters installed on the platform — key components that guarantee the stability and reliability of the electrical grid. For this purpose, CTA supplied two centrifugal chillers of 700 kW each, equipped with oil-free magnetic bearing compressors, combining high energy efficiency, low maintenance, and robustness in marine environments. In addition, 12 air handling units were provided to manage air distribution and maintain temperature and humidity control in the technical rooms.

Designed to withstand the harsh conditions of the offshore environment, these solutions ensure the reliability of the electrical equipment and contribute to the optimal performance of a world-class renewable energy installation.

