

## NEW AIR SEPARATION UNIT (ASU) MOTORS: EFFICIENCY AND CONTINUITY

This project involved the replacement of three such **ASU motors at the Osio Sopra plant - Italy (ASU model T1000)** and one at the **Carlino plant (ASU model AFP 3000)**.

The previous motors were installed in the 1980s; despite excellent workmanship and regular, meticulous maintenance, they started to show signs of declining maintenance and heavy wear and tear. Approximately every three years, a full overhaul was required, involving reductions in plant productivity with potential inefficiencies for customers, in addition to the maintenance costs incurred. The installation of the new motors was scheduled during quieter periods of production; given that three days were required to install each new motor, all measures were taken to minimize impact on customers (the Osio Sopra plant was not shut down, but operated at a reduced rate. As a result of a delivery plan agreed ad hoc, it was possible to ensure business continuity for customers).

### PROJECT SUSTAINABILITY OBJECTIVES



To **increase reliability** and therefore **business continuity** while maintaining a high level of plant efficiency.



To **reduce CO<sub>2</sub> emissions** by reducing energy consumption.



To **minimize maintenance costs**.

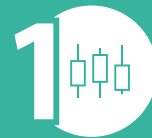


To **increase the availability of strategic spare parts**: old engines are disassembled into components, which are stored in the warehouse ready to be used for rapid and/or emergency intervention in the event of a breakdown.



To **obtain “white certificates”**, by reporting energy savings to the public company GSE (*Gestore Servizi Energetici*; ‘Energy Services Manager’).

### QUANTITATIVE DATA TARGETS ACHIEVED



Consumption reduced by **2,800 MWh per year**



CO<sub>2</sub> emissions reduced by **720 t per year**



Increased productivity and reduced plant costs



Recognition of white certificates

### RELEVANT SDGs

