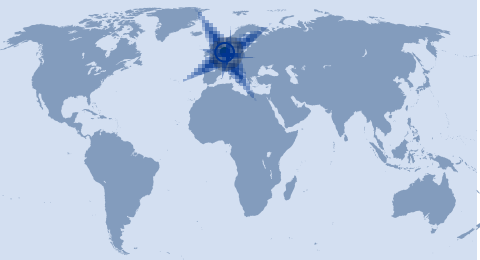


## Securing power for the first combined cycle power plant in the Netherlands

### Case study:

- **Site:**  
FLEVO, Lelystad
- **Application:**  
Power generation
- **Chloride products used:**
  - Excel Apodys charger
  - Exond Apodys inverter
  - VRLA battery
  - AC switchboard
  - DC switchboard
  - DC/DC converter
- **Country:** The Netherlands



### The project:

- End User: Electrabel
- Contractor: Alstom
- 870 MW combined cycle power plant (gas, steam)
- Higher plant efficiency
- Reduced emissions to meet environmental concerns

### Chloride's scope of supply

- 2 x Dual battery chargers 220 Vdc, 400 A, with associated Vented Lead Acid battery 1500Ah, 60 minutes autonomy
- 4 x DC/DC converters 220Vdc/110Vdc 32 kW
- 4 x DC/DC converters 220Vdc/24Vdc 1kW
- 2 x 220Vdc distribution panel
- 6 x 110Vdc distribution board
- 4 x inverters DC/AC 40 kVA
- 4 x rectifiers 230VAC/24VDC and 24Vdc distribution board
- 4 x 230 VAC distribution panels

- Secure power for motors, lube oil pumps, emergency lube oil pump, rotor barring pump, emergency seal oil pump, gas turbine process control, steam turbine process control, boiler controller, safety lighting, instrumentation...
- O&M and Dutch
- Installation in shelter
- Each cabinet to include internal lighting

## Flevo power plant: DC & AC UPS schematic

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