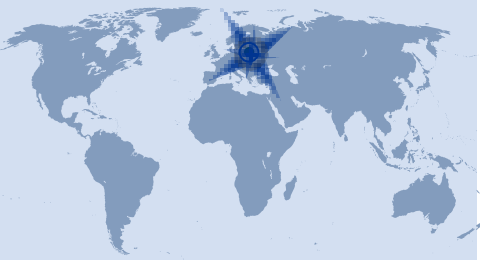


Securing power for Poland's largest and most efficient lignite-fired plant

Case study:

- **Site:**
BEŁCHATÓW
- **Application:**
Power generation
- **Chloride products used:**
 - Excel Apodys charger
 - Exond Apodys inverter
 - VRLA battery
 - AC switchboard
 - DC switchboard
- **Country:** Poland



The project:

- End User: Elektrownia Belchatów SA
- Contractor: Alstom
- 858 MW supercritical Belchatow extension.
- The largest generating unit ever built in Poland
- Most efficient lignite plant
- Compliance with European environmental regulations

Chloride's scope of supply

- 6 x Dual battery chargers:
 - 24Vdc, 50 to 320 A
 - 220Vdc 40 to 600 A
- 3 x Dual online inverters 1ph out (2.5, 50, 60 kVA) with reserve transformer
- 2 x single offline inverters 3ph out (38, 100kVA)
- 1 x single online inverter 3ph out (2 kVA)
- 6 x Dual VRLA batteries 100% for 30 min and 1 hour autonomy
- 2 x redundant AC distribution switchboard 1ph.
- 3 x redundant DC distribution panels 220Vdc with motor starter
- 2 x redundant DC distribution panels 24Vdc

- Secure power for motors, oil pumps, turbine process control, boiler controller, safety lighting, instrumentation...
- Full dual systems
- Battery recharge time up to 90% in 6 h
- Warranty extension 24 months after take-over certificate
- O&M and LCD display in Polish