

Solution for Industries: Retrofit coal power plant

SIEMENS

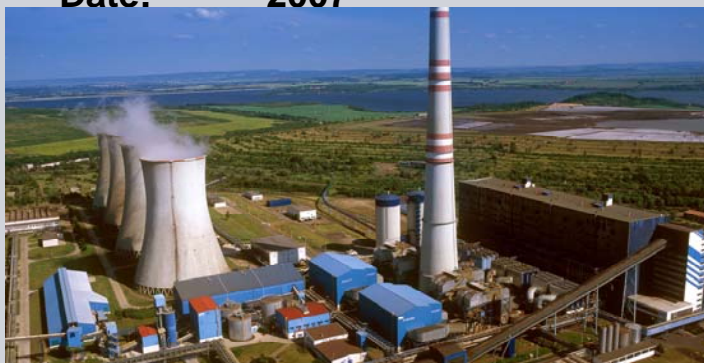
Tuscime II

Customer: Scoda Praha

Country: Czechia

Project: Tuscime II

Date: 2007



Scope of Supply

- High voltage equipment
- 344 air insulated medium voltage panels
- 4pc. 63 MVA transformers
- Bus ducts
- Approx. 60pc. distribution transformers
- Low voltage switchgears
- Diesel generators and DC-systems
- Cable network of 2400 km

Requirements

Within the framework of the overall modernization of the power plant, Siemens got the demand to supply the entire electrical part and control systems. The plant's existing equipment has to be replaced with a completely new, state-of-the-art system. The reconstruction ought prolong the life cycle of the power plant by 25 years.

Solution

The project will take place in two stages. In the first part of the reconstruction, Siemens will replace the entire electrical part of the 2x200 MW energy generating block. The second stage includes the entire renewal of the two remaining energy blocks and related supplementary operations. The project is to be completed by 2010, when the trial operation is to be launched.

Highlights

The power plant will increase its efficiency by 16% compared to the existing one, whose current efficiency is 33%. Because of this, and due to further measures, the ecological parameters of the new power plant will significantly improve. Compared to the current situation, fully compliant with all strict European norms, the "new" Tusimice will decrease all emissions. The new desulphurization technology will enable leading the comustion gases to cooling towers, and thus there will be no need for a smokesack.