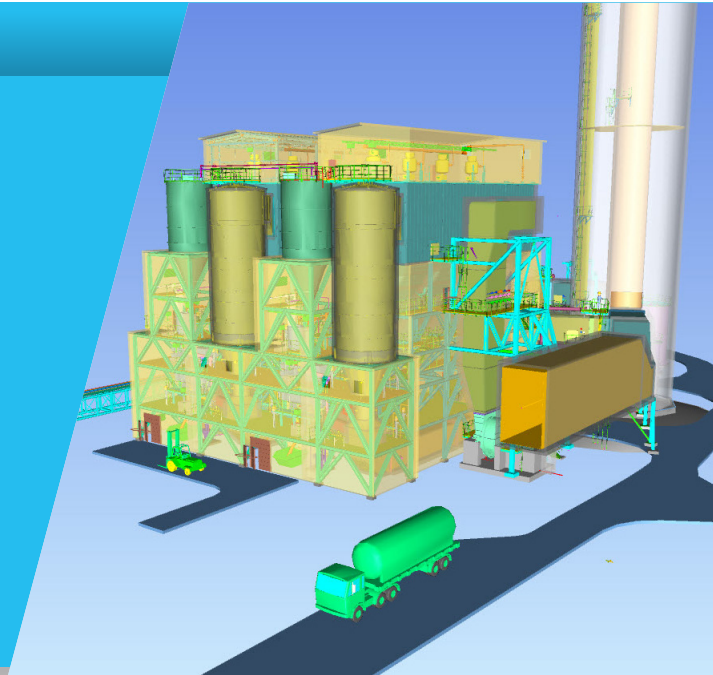


PROJECT PROFILE: Circoclean® FGD, Poland

# Pomorzany

Circoclean® flue gas desulphurisation



In 2016, Doosan Lentjes, together with its Polish consortium partner Polimex Energetyka, was awarded a turnkey contract to provide two semi-dry flue gas desulphurisation (FGD) plants at Pomorzany coal-fired power station, located in Pomorzany, part of Szczecin, Poland.

## DELIVERABLES

- Engineering, manufacture, delivery, plant, start-up, optimization, commissioning and construction of two FGD plants
  - Circoclean® reactors
  - Fabric filters
  - Ducts
  - Booster fans
  - Absorbent storage and dosing
  - Product recirculation and storage

## CHALLENGES

- Retrofit during plant operation

## BENEFITS

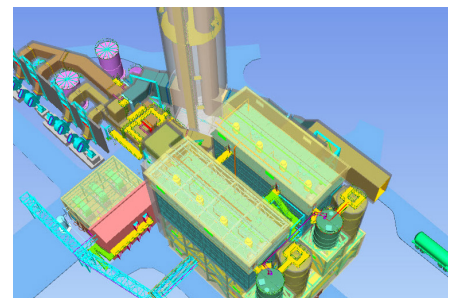
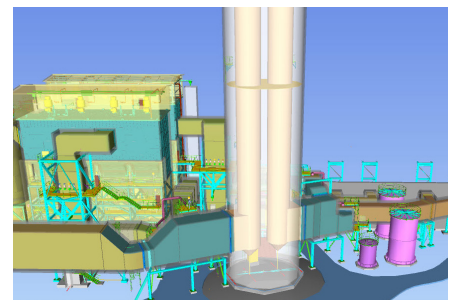
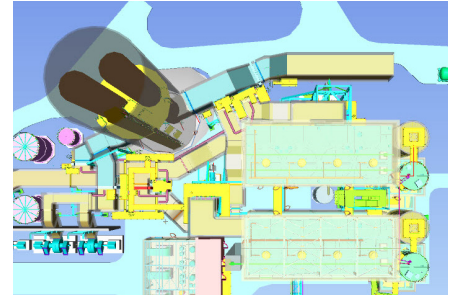
- Low capital investment costs
- Full compliance with most stringent European emissions requirements as per the IED

# BAT to ensure compliance with all European emissions standards

PGE GiEK Zespół Elektrowni Dolna Odra operates a 2 x 156 MW<sub>th</sub> coal-fired power plant at its Pomorzany site in Szczecin, Poland. In order to reduce pollutants from the flue gases released during the combustion process, Doosan Lentjes, together with its Polish consortium partner Polimex Energetyka, was awarded the engineering, procurement and construction (EPC) contract to retrofit two existing boilers with semi-dry Circoclean® flue gas desulphurisation (FGD) facilities.

Applying „Best Available Techniques“, Doosan Lentjes’ state-of-the-art FGD technologies will help the customer sustainably generate power while ensuring compliance with all applicable emissions standards as per the European Industrial Emissions Directive (IED).

The contract involves the turnkey construction including engineering, manufacture, supply and commissioning of the complete FGD plants along with a modern dry ash removal plant.



## Key Project Data

<b>Customer</b>	PGE GiEK Zespół Elektrowni Dolna Odra
<b>Location of power plant</b>	Pomorzany, Szczecin, Poland
<b>Consortium partner</b>	Polimex Energetyka
<b>Award date</b>	2016
<b>Main fuels</b>	Coal
<b>Thermal capacity</b>	2 x 156 MW <sub>th</sub> (for district heating)
<b>Flue gas flow rate</b>	2 x 270,000 m <sup>3</sup> /h (STP, wet)
<b>DeSO<sub>x</sub> - technology</b>	Semi-dry Circoclean® FGD
Number of lines	2
<b>SO<sub>2</sub> inlet concentration</b>	3,200 mg/m <sup>3</sup> (STP, dry)
<b>Dust inlet concentration</b>	100 mg/ m <sup>3</sup> (STP, dry)
<b>Guaranteed emissions</b>	
SO <sub>2</sub>	130 mg/m <sup>3</sup> (STP, dry)
SO <sub>2</sub> removal efficiency	96%
Outlet solid concentration	10 mg / m <sup>3</sup> (STP, dry)



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Doosan Lentjes is a global provider of processes and technologies for energy production from renewable and fossil fuels. Our specific areas of expertise include circulating fluidised bed boilers, key technology for the generation of energy from waste, and flue gas cleaning systems. We have been pioneering energy solutions for 90 years and convert millions of tonnes of waste into valuable energy each year.

Doosan Lentjes is part of a powerful combination of companies united under the Doosan Group to deliver complementary technologies, skills and value to customers the world over.

Doosan Babcock

Doosan Lentjes

Doosan Škoda Power

NUCLEAR | BOILERS | TURBINES | WASTE TO ENERGY | AIR QUALITY CONTROL | SERVICE