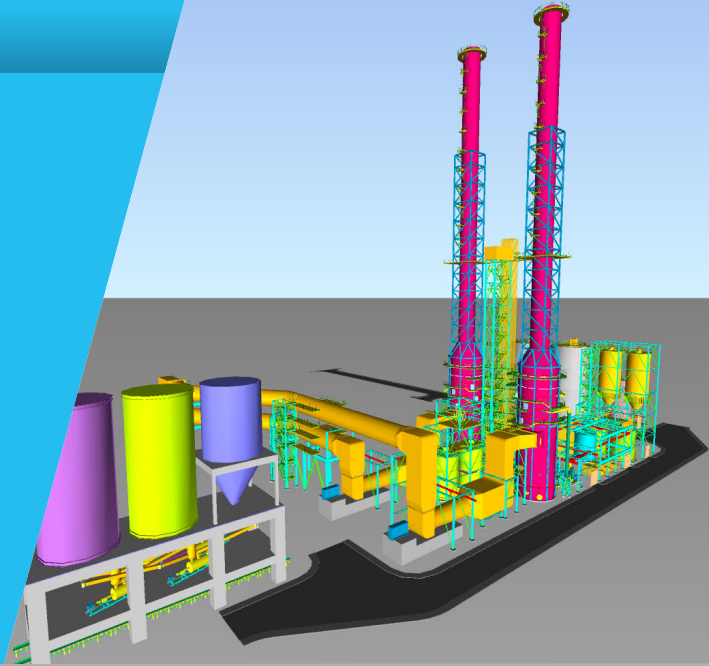


PROJECT PROFILE: FGD, Turkey

Can

Flue gas desulphurisation



In 2018, Doosan Lentjes was awarded the contract to provide wet limestone flue gas desulphurisation (FGD) technology for a 2 x 160 MW_e lignite-fired power plant located in Can/Canakkale, Turkey.

DELIVERABLES

- Absorber internals
- Absorber agitators
- Recirculation pumps
- Oxidation air blowers
- Advisory services for erection and commissioning

CHALLENGES

- Low space requirements
- Short delivery periods

BENEFITS

- Compliance with all applicable emissions requirements
- High plant availability

High performance FGD for the Turkish power market

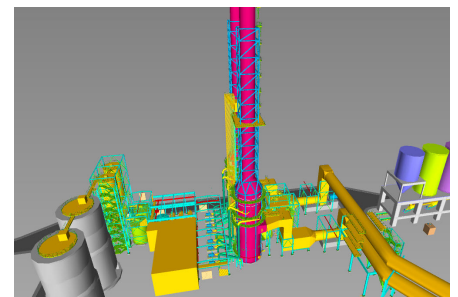
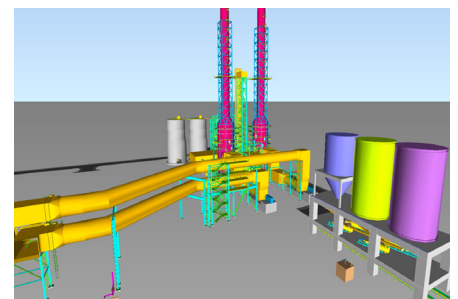
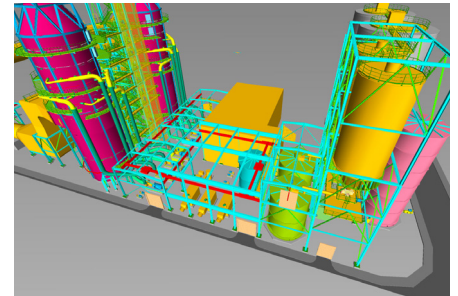
Electricity Generation Company, EÜAS, Turkey's largest energy production entity, owns and operates a two-line local lignite-fired power plant with a total capacity of 320 MW_e located in Can/Canakkale, Turkey.

To comply with legal emissions directives, EÜAS was required to undertake a project with the purpose of retrofitting the power plant with appropriate environmental equipment.

With this in mind, Doosan Lentjes was subcontracted to deliver its proven wet limestone flue gas desulphurisation (FGD) technology under the terms of a new contract awarded to Turkey-based EKON Industry, Construction and Trade Co.

Doosan Lentjes' scope of supply will include engineering, the delivery of key equipment encompassing absorber internals, absorber agitators, recirculation pumps, oxidation blowers, as well as, advisory services for erection and commissioning.

Once complete, the retrofitted FGD plant will absorb more than 98% of sulphur dioxide (SO₂) emissions from the power plant's flue gas.



Key Project Data

| | |
|-------------------------------------------|-------------------------------------------|
| Final customer | Electricity Generation Company, EÜAS |
| EPC partner | EKON Industry, Construction and Trade Co. |
| Location of power station | Can / Canakkale, Turkey |
| Gross power generation | 2 x 160 MW _e |
| Award date | 2018 |
| DeSO_x technology | Wet limestone FGD |
| Number of DeSO_x lines | 2 |
| Flue gas flow rate | 2 x 775,000 m ³ /h (STP, wet) |
| SO₂ inlet concentration | 7,500 mg/m ³ (STP, dry) |
| Guaranteed emissions data | |
| SO ₂ removal efficiency | 98.5% |
| Dust removal efficiency | 80% |



Doosan Lentjes GmbH

Daniel- Goldbach-Str. 19
40889 Ratingen, Germany

Tel: +49 (0) 2102 166-0
Fax: +49 (0) 2102 166 2500

www.doosanlentjes.com

Doosan Lentjes is a global provider of processes and technologies for energy production from both sustainable and conventional fuels. Our specific areas of expertise include circulating fluidised bed boilers, key technology for the generation of energy from waste and sewage sludge, as well as, 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