



## Manjung 5, Malaysia



Located in Manjung, Perak State, approximately 207km Northeast of Kuala Lumpur. It is the extension of the previous Manjung coal power plant (3x700MW) which went to operation in 2004.

The plant is owned by TNB Janamanjung Sdn Bhd, a subsidiary of Malaysia's state-controlled power generation, transmission, and distribution company Tenaga Nasional Bhd (TNB).

In this power plant, FERBECK has been awarded an EPC contract of a 38 meter-high-concrete silo and a 200-meter-high-concrete chimney by Daelim Industrial Co. Ltd.

FERBECK had previously accomplished Manjung 4 concrete chimney and concrete silos\*.

The scope of work includes:

- foundation
- concrete shell
- slabs and roof

### Key facts about the plant

- 1x1000 MW ultra-supercritical coal fired power plant
- Owner: TNB Bhd
- Contractor: Daelim Industrial Co. Ltd.



### Key facts about the silo

- Completed in 2016
- Concrete silo
- Fly ash
- H 38m
- Outer  $\varnothing = 17\text{m}$
- Capacity 3,920m<sup>3</sup>



\* see Manjung 4 concrete chimney and concrete silos project reports



## Concrete shell

The outer concrete shell is made of total 790m<sup>3</sup> of concrete with the following size:

- 17m of external diameter
- h 38m

The casting is performed with a slipform operating 24/7.



## Slabs and roof



3 slabs are installed inside the structure:

- roof slab at EL.+38.0m
- silo floor slab at EL.+14.9m
- operating slab at EL.+7.0m





### Overview of the plant

The power plant (1x1000MW) is one of three ultra-supercritical coal fired power plant in South-East Asia. It is the extension of the previous Manjung coal power plant (3x700MW) which went to operation in 2004.

