



## Manjung 4, Malaysia



Located in Manjung, Perak State, approximately 207km Northeast of Kuala Lumpur. It is the extension of the previous Manjung coal power plant (3x700MW) that 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 200 meter-high-concrete chimney by Mudajaya Corporation.

FERBECK will be involved in Manjung 5 concrete chimney and silo project in 2015\*.

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 Janamanjung Sdn Bhd
- Contractor: Mudajaya Corporation



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### Key facts about the silo

- Completed in 2013
- Concrete silos
- Fly ash
- H 37m
- Outer Ø = 19m
- Capacity 5,085m<sup>3</sup>
- Bottom ash
- H 39m
- Outer Ø = 12.8m
- Capacity 2,100m<sup>3</sup>



\* see Manjung 5 concrete chimney and concrete silo project reports



## Fly ash silo

### Concrete shell

- made of 1335m<sup>3</sup> concrete
- 19m of external diameter
- h 37m

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

### Slab and roof

3 slabs are installed inside the structure:

- roof slab at EL.+37.0m
- soffit of silo bottom slab at EL.+13.7m
- operating floor slab at EL.+8.0m



## Bottom ash silo

### Concrete shell

- made of 610m<sup>3</sup> concrete
- 12.8m of external diameter
- h 39m

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

### Slab, walkway and roof

2 slabs and 1 walkway are installed inside the structure:

- roof slab at EL.+38.7m
- walkway at EL.+19.9m
- operating floor slab at EL.+8.0m







## **Overview of the plant**

The power plant is the first 1,000 MW ultra-supercritical coal fired power plant in South-East Asia.

