

## Manjung 4, Malaysia



### Key facts about the plant

- 1x1000 MW ultra-supercritical coal fired power plant
- Owner: TNB Janamanjung Sdn Bhd
- Contractor: Mudajaya Corporation



MUDAJAYA CORPORATION BHD

### 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>

Located in Manjung, Perak State, approximately 207km Northeast of Kuala Lumpur, this power plant is the first 1,000 MW ultra-supercritical coal fired power plant in South-East Asia. 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\*.



\* 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.

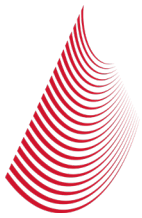
### Slab, walkway and roof

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

