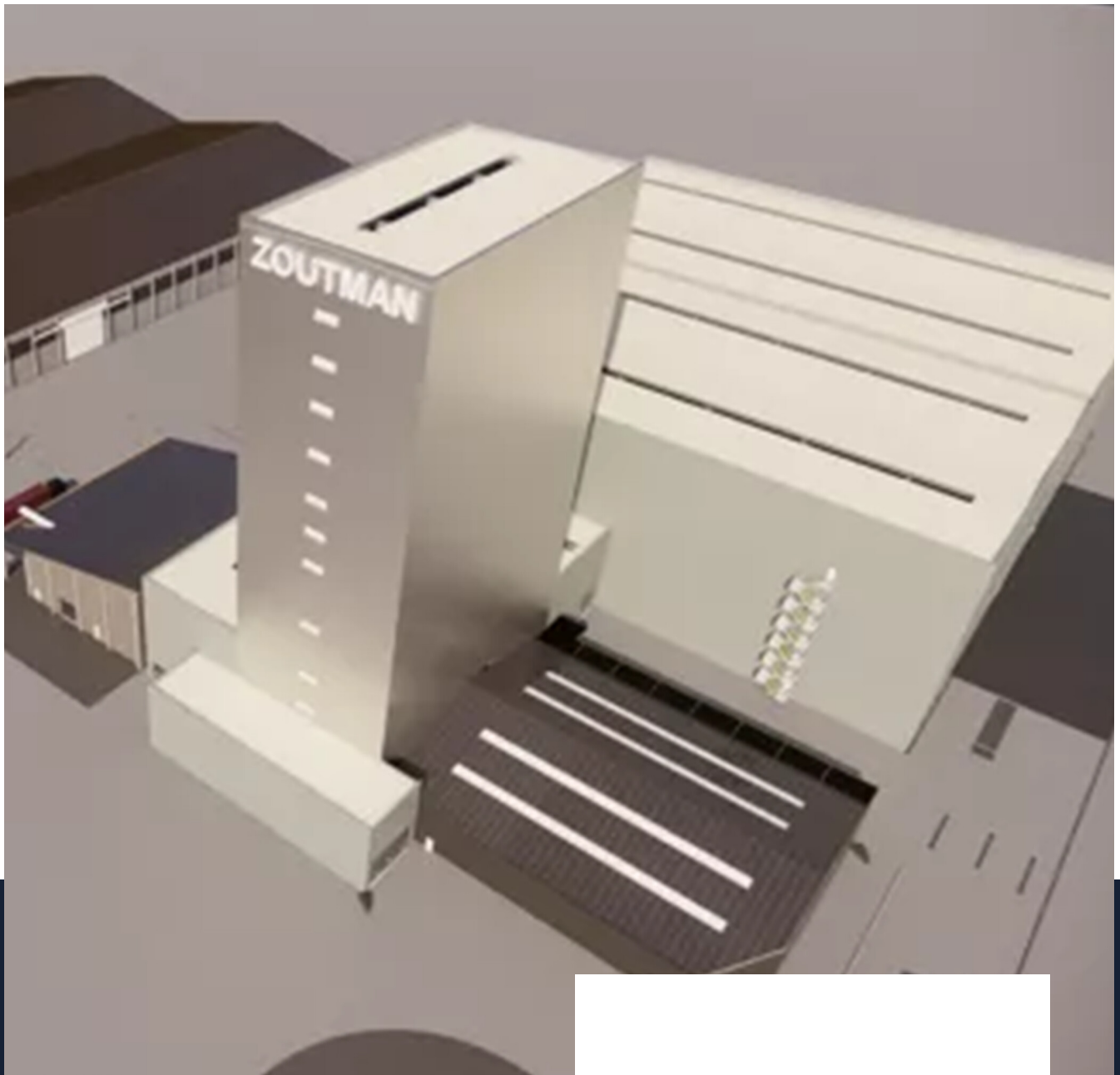




ZOUTMAN - UITBREIDING PRODUCTIESITE

Gent

The construction of the highest production tower (64.5m) in the world to increase salt production by 150,000 kg per year.

Including the construction of 4 technical buildings and the surrounding infrastructure.



Status

2019 - 2023



Services:

Civil Engineering, Architecture



Sectors:

Civil works: technical buildings



Client:

NV ZOUTMAN



Architect:

Stranger Architects & Engineers

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General

Zoutman is building a tower of 64.5 m high in the port of Ghent for the production of naturally and sustainably obtained salt. The construction of this technical production unit allows Zoutman to increase its production by 150,000 tons per year. For Zoutman, it is a matter of honor to safeguard the natural and ecological character of sea salt, also during processing. That is why Zoutman's engineers designed the new production tower entirely with sustainability as a starting point. An important objective was minimizing the occupied ground surface area. This led to a tall, extremely efficient construction where the production yield per square meter more than doubles. Building upward offers an additional advantage: production can largely proceed by gravity, requiring hardly any energy. This principle is also reflected in the use of materials (type of concrete, cement, ...) for the construction of the tower.

The construction team consists of:

- Client: Zoutman
- Engineering firm civil works: BM Engineering
- Architect: Stranger Architects & Engineers
- Contractors: Verwebo (Lot 1 + 3), Alheembouw (Lot 2) & Myldes (Lot 3)

Lot 1 - Preparatory works (2021)

Concerns the preparatory works for lot 2 regarding making the construction zone ready for building.

Lot 2 - Construction of the technical installation (2021 - 2022)

The construction of the production unit (PT4) consisting of 4 technical buildings, all erected from precast and cast-in-place concrete:

- Rinsing and drying zone (35.90 x 15 x 16 m)
- Bulk loading (28.40 x 8.25 x 9.90 m)
- Offices (20.40 x 14.20 x 13.20 m)
- Production tower (35.9 x 20.40 x 64.5 m)

Lot 3 - Storage warehouse incl. infrastructure works (2022 - 2023)

The construction of a storage warehouse (45.70 x 40.70 x 11.50 m) made of precast concrete portal frames for the storage of salt pallets.

Infrastructure works regarding the installation of asphalt paving and underground sewerage / utility lines.

Role of BM Engineering

BM Engineering takes on a broad role within this project, including:

- Design and execution
- Application for all necessary permits
- Preparation of the dewatering report
- Development of the complete tender dossier incl. price comparison
- Monitoring of the execution up to and including the final delivery