

Sweden Data Centre Client

This project consists of the construction of a new Client Control Building including three MV Switch rooms, two battery rooms and one control room. Additionally, there will be outdoor 140kV substation compound including transformer foundations and CSA works for 3 No. 140/23kV transformers, NER and HV incoming cable.

Suir Engineering's scope of work for the Confidential Client includes the design, procurement and build of a new 140kV substation including a high voltage (140kV) connection from a TSO owned Vattenfall Laggarhult HV substation to 2 No. 140/23kV transformers within an on-site substation, providing power to a confidential new Data Center development in Sweden.

Scope of work

Phase 1 Electrical Works – Design, Supply & Build

- 2x120 MVA 140/24 kV ONAN/ONAF Transformer bays.
- 2x24 kV, 3150 A, 31.5 kA/3 s MV switchgear. Located in individual fire rated rooms.
- 2x400 kVA, 20/0.4 kV House transformers.
- Control building comprising of MV switchgear rooms, control room, battery room etc.
- Complete services for all the rooms in Control building.
- Design support to deliver the substation during planning stage.
- Complete engineering from planning stage to construction stage.
- Testing and commissioning works
- Energization plan.
- Interface support works.

Phase 2 Electrical Works- Design, Supply & Build

- 1x120 MVA 140/24 kV ONAN/ONAF Transformer bay.
- 1x24 kV, 3150 A, 31.5 kA/3 s, MV switchgear. Located in individual fire rated room.
- Complete services for the new MV switchgear room in Control building.
- Complete engineering from planning stage to construction stage.
- Testing and commissioning works
- Energization plan.
- Interface support works.

Phase 1 Civil works – Design & Build

- 3x120 MVA 140/24 kV ONAN/ONAF Transformer bays' plinths, oil containment bunds and blast walls.
- Control building comprising of MV switchgear rooms, control room, battery room etc.
- Complete services for all the rooms in Control building.
- Design support to deliver the substation during planning stage.
- Complete engineering from planning stage to construction stage.
- Interface support works.

Client: **Confidential**

Start Date: **December 2021**

End Date: **May 2023**

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