

Rectifier station

Roslagsbanan, Arninge



Stockholm Public Transport's new switchgear at Arninge station in Täby, north of Stockholm.

On the Österskär branch of the Roslagsbana the double track on the section Galoppfältet–Viggbyholm was laid in 2010 in connection with a crossing being built over Bergtorpsvägen. The double track stretch Åkers Runö–Åkersberga was completed in 2010 and in February 2015 the section Rydbo–Åkers Runö was also upgraded to double track.

Between June and December 2018 the double track Hägernäs–Ullna Kvarnväg rail link was constructed and, in this connection, a new station was built at Arninge which will open in 2022. The track was relocated to the west and now runs closer to the E18, where a new travel center will make changing between buses and trains easier. It will also become a natural depar-

ture point for people living in the new residential area Hägerneholm when they commute to work.

The Swedish Transport Administration is building the train station and Stockholm Public Transport (SL) is handling aspects relating to the railway. The Municipality is constructing streets and cycle paths that will connect with Arninge station. From there commuters will be able to take the Roslagsbana or board buses for Stockholm, Norrtälje, Vaxholm, Åkersberga, Vallentuna and Danderyd Hospital.

Technical description

The rectifier station at Arninge consists of a prefabricated concrete structure for assembly onsite. This houses 24 kV medium-voltage switchgear, SNC, with feed from Ellevio. Power is fed to the rectifier, the station transformer and an NS station for Arninge.

- Rectifier of the "controlled" type, 1 500 V DC with plus, minus and 4 x P-compartments for feeding power to the track
- Transformers LV and ST with 400 V switchgear with back-up power input and automatic switching
- Cabinets KA1, KD1, KD1-1 and telecom cabinets as standard
- Disconnectors are located outdoors with minus cabinets



Pluton rectifier switchgear, 1 500 V.



Aktif SNC medium voltage switchgear, 22 kV, with Arcteq relay protection.



Local control via the station computer.



KD1, KA1, LS110 and telecom cabinets.



LT rectifier transformer, 3.2 MVA, with motorized earth connector.



Disconnecter cabinets and KD1-1 with minus cabinet in the background.