XXXI[st] International Symposium of the ISSA Construction Section

Berlin, 8 to 10 June 2022

VISION ZERO

Safety.Health.
Wellbeing.

Technical visit

Switchgear in Steglitz

Berlin, 10 June 2022

Date and time

Date: 10 June 2022
Time: 1:15 p.m. – 4:00 p.m.

The technical visit on site is planned for approximately one hour. The outward and return journey from the Steigenberger Hotel Am Kanzleramt takes approximately 30 minutes each and will be organized for all participants.

Language

The visit will be held in English.

Costs

The fee for participating in the technical visit is 40 €.

Please note: The registration fee for the technical visit is not included in the conference fees.

Protective equipment

Safety vests, helmets and safety shoes will be provided on-site. Please indicate your shoe size in your registration.

Registration

The available slots will be assigned on a first come first served basis.

If you are interested to participate in a technical visit, please send an email to issa-c@bgbau.de with the following information: last name, first name, organization, country, shoe size and which visit you are interested in.

Construction site

You can find further information on the construction site in the annex.

Photo: Pixabay (dimitrisvetsikas1969, worker, 1895691_960_720)

Annex

SPIE refurbishes the switchgear as well as the corresponding protective and control technology of the grid node Steglitz in a consortium with ABB for Stromnetz Berlin GmbH, who is responsible for the distribution grid in Berlin.

Air-insulated switchgears will be refurbished.

The operations have started in December 2019 and are expected to be completed by December 2026. The assignment comprises the entire process from the planning stage until the start of operation and transfer to Stromnetz Berlin GmbH as client.

Modernisation during on-going operation

The challenge is to implement the modernisation of the grid node during on-going operation. Thus, the uninterrupted power supply is ensured, and there will be no limitations for households and companies, which are connected to the power supply grid.

Precise planning

The challenge for the assignment is the reengineering of a very large system during on-going operation with extensive provisional arrangements:

- Switching existing panels of the air-insulated system, so that these become available, while the uninterrupted power supply is ensured.
- Disassembling of the existing panels, to subsequently build the new components.
- Once all cables are switched, the old switch panels will be disassembled. This takes place in several assembly segments and requires precise planning.

The technical solution as well as the precise chronological planning were decisive for the procurement.

Occupational safety is considered extensively during the planning stage and is implemented effectively in the construction stage.

Holistic scope

By renovating the switchgear, the long-term security of supply can be guaranteed for all households and companies, which are connected to the grid. Besides the renovation of the switchgear, the extension of the station control technology, the protective equipment as well as the communication technology are also part of the scope. Furthermore, SPIE also takes responsibility for the restoration of the switching station building with the corresponding infrastructure, the adjustment of the protective and control technology in the plants, the installation of an indoor crane as well as the final disassembly of the old equipment.

https://www.stromnetz.berlin/technik-und-innovationen/investitionen/baumassnahmen/neubau-umspannwerk-voltair