March 20, 2023
Meidensha Corporation

To members of the media

Meiden installs power feeding equipment etc. on Sotetsu-Tokyu Shin-Yokohama Line; new line opens March 18

Meidensha Corporation (Meiden) has installed power T&D equipment that supply electricity to train cars on the Sotetsu-Tokyu Shin-Yokohama Line opened on March 18, 2023.

The newly opened section of the line connects Hazawa Yokohama Kokudai Station and Shin-Yokohama Station on the section operated by Sagami Railway Company, Ltd. (Sotetsu), as well as that between Shin-Yokohama Station to Hiyoshi Station on the section operated by Tokyu Railways Co., Ltd. This completes the Sotetsu-Tokyu Shin-Yokohama Line. The section between Nishiya and Hazawa Yokohama Kokudai stations on the Sotetsu Shin-Yokohama Line opened on November 2019. It is also used by East Japan Railway Company (JR East) and provides a direct connection to a JR line.

The opening of the new line has greatly improved transportation access. It reduces the travel time from the Sotetsu stations to central Tokyo, and allows passengers from stations on the Sotetsu and Tokyu lines to access Shin-Yokohama Station on the Tokaido Shinkansen Line without changing trains.

In 2019, Meiden won a contract to install power T&D equipment for the Sotetsu-Tokyu Shin-Yokohama Line from the Japan Railway Construction, Transport and Technology Agency (JRTT), the developer of Japan’s railway infrastructure. Meiden installed inverters for regenerative power at Shin-Yokahama Substation. The inverter helps to conserve energy by ensuring that the regenerative braking (a method of braking in which energy is extracted from the parts braked, to be stored and reused) of train cars works smoothly. Meiden also installed many units of eco-friendly electrical equipment that are indispensable in enabling safe railway operations that give both operators and users peace of mind. They included 72kV gas-insulated switchgears, transformers, heat-pipe-cooled silicon rectifiers (that use pure water for cooling and are thus environmentally friendly) and ML-type DC high speed circuit breakers with a high safety

factor.

Transformer for a rectifier (left) and a silicon rectifier (right)

Gas-insulated switchgears

Meiden will contribute to realizing carbon neutrality by building and developing highly reliable railway infrastructure and providing products and services based on the technologies and expertise it has nurtured.