

October 13, 2022

Meidensha Corporation

To members of media organizations

Meiden's China subsidiary achieves the shipment of 10,000 surge arresters for gas insulate switchgears

Meiden Zhengzhou Electric Co., Ltd. (MZE), one of the group companies of Meidensha Corporation (Meiden), achieved cumulative shipments of 10,000 surge arresters for gas insulate switchgears (GIS)^{*1} in June 2022.

Since its founding in 2004, Zhengzhou, China-based MZE has contributed to the building of infrastructure and development in local regions and industries through the manufacturing and sales of various surge arresters, including those used in power grids and electric railways. MZE began developing GIS surge arresters in 2007 and started producing them the following year. In doing so, MZE harnessed the technologies possessed by the Meiden factories in Numazu, Shizuoka Prefecture, that produce the SORESTER^{®2} gapless surge arrester.

Annual production volume grew an average 30 percent from 91 units in 2008 thanks to expanding domestic demand in China and increased business transactions with other countries. Despite business headwinds such as the Covid-19 pandemic and flooding damage in 2021, MZE continued expanding its production, and produced 1,432 units in 2021. Cumulative sales of surge arresters were 10,000 units as of June 2022.

The Meiden Group's surge arrester business is based on three production hubs: Japan's Meiden, Germany's Tridelta Meidensha GmbH and China's MZE.

Before commercializing the first 800kV-class surge arrester for GIS — the highest voltage that the Meiden Group has ever dealt with — the three production hubs were connected online to mutually confirm and provide instructions regarding the assembly procedure. The three global hubs are now trying to redouble synergy by developing eco-friendly surge arresters that use a new type of gas with the aim of realizing carbon neutrality.

The Meiden Group is committed to meeting the needs of our customers by developing new products and improving product quality.



Photo left: GIS surge arrester



Photo right: Exterior of the factory of Meiden Zhengzhou Electric Co., Ltd.

*1 Surge arresters for GIS:

Features

- The product's volume and weight are reduced by using a high-resistance zinc oxide element, which has a high energy surge tolerance.
- It has uniform electric potential distribution thanks to the use of a metal shield for the interior structure that ensures simplification.
- It has an excellent airtight structure. The leak ratio per year of sulfur hexafluoride (SF_6) gas is less than 0.1 percent thanks to strict tests conducted on its airtightness to enclose SF_6 gas.

Major areas of usage

- State Grid Corporation of China, China Southern Power Grid, Chinese provincial power stations and substations, and exports to overseas, etc.

*2 SORESTER: The product name of Meiden's gapless surge arrester using zinc oxide