

Gas-insulated switchgear ELK-04 C, 145 kV Xiang'an Torch substation, China



ABB's new generation ELK-04 C, 145 kV gas-insulated switchgear (GIS) installed in Xiang'an Torch GIS substation in Xiamen, China. The modular and compact GIS provides eco-efficient performance in a smaller footprint.

Project background

Xiamen Torch High-tech Industrial Development Zone is one of three national new high-tech industrial zones for technology, commercialization and industrialization¹.

The Industrial Development zone houses industries and companies in the Xiang'an District. The Xiang'an Torch substation will provide industries with reliable power supply and enhance the stability of the power grid.

Advantages

- Compact design enables small footprint
- Convenient operation and serviceability
- Eco-efficient design for reduced environmental impact
- Modular design enables quick and easy installation

¹ http://fujian.chinadaily.com.cn/2013-08/30/content_16933068.htm

ABB technology and solution

ABB's latest ELK-04 C for 145 kV is designed to enhance the system efficiency and reliability while reducing product complexity and life-cycle costs.

The ELK-04 C uses a small, lean three-phase enclosure with single-phase insulators, thus resulting in a small footprint with excellent accessibility.

A reduction of SF₆ insulating gas by 60 percent compared with predecessor products provide outstanding environmental performance.



Project

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| Substation | Xiang'an Torch substation |
| Customer | Xiamen Torch High-tech Industrial Development Zone |
| Country | China |

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| Type of switchgear | ELK-04 C, 145 kV | |
| Rated voltage | kV | 110 |
| Rated current | A | 3150 |
| Rated frequency | Hz | 50 |
| Short-circuit current | kA | 40 |
| Busbar arrangement | double busbar | |
| Year of installation | 2016 | |

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