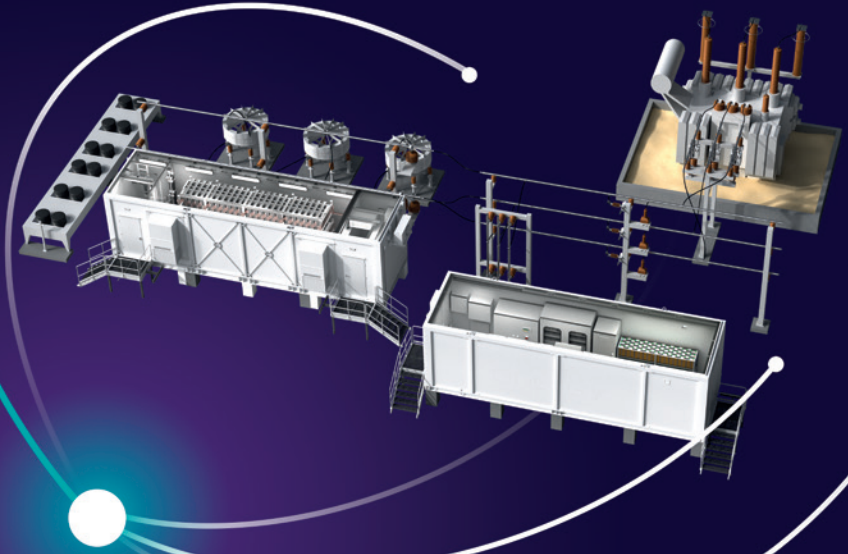
SIEMENS energy



Containerized SVC PLUS®

with ±25, ±35 or ±50 Mvar per branch

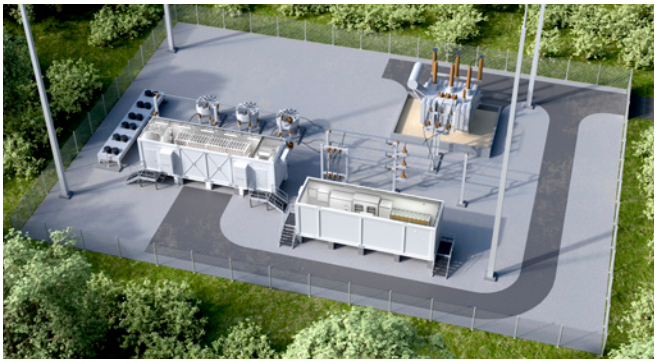
The containerized SVC PLUS® is designed to meet market demands for rapid and efficient deployment of STATCOM systems:

- **Minimal to no on-site civil works**
- **Elimination of pre-engineered building requirements**
- **Streamlined permitting process**

Prefabricated, factory-tested modules enable fast delivery, installation and commissioning. The systems are standardized, pre-engineered and built to high quality standards, incorporating all the key features of the SVC PLUS®.

More than 150 SVC PLUS® units in operation demonstrate our extensive experience and proven track record.

Typical installation



An example of a layout featuring the converter module, auxiliary power supply module, outdoor reactors and main power transformer.

Scope of supply

The containerized SVC PLUS® is a highly standardized modular solution.

Choose the scope that fits your needs:

- Supply of prefabricated and pretested modules
- Additional prefabricated modules are available for a customized scope

Performance

All of the following state-of-the-art features of an SVC PLUS® are available, including some optional features, as listed below:

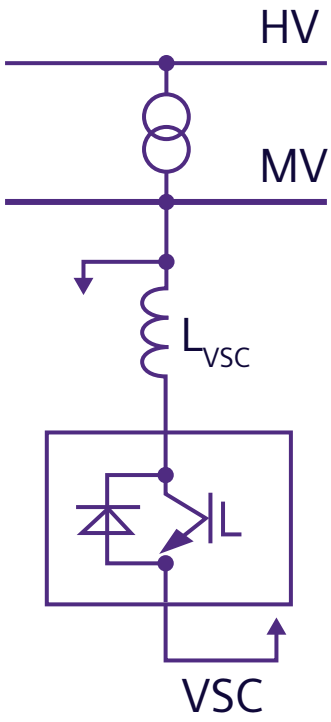
- Voltage control with grid-following control
- External MSC/MSR control
- Voltage control with grid-forming control (option)
- Active filtering of harmonics (option)
- Power oscillation damping (option)
- Negative phase sequence control (option)

Key features

With over 150 SVC PLUS® systems commissioned worldwide – including more than 30 containerized units – Siemens Energy stands out as a safe and reliable partner.

A containerized SVC PLUS® allows for flexibility to optimize space and offers the following additional features:

- Tailored delivery scope: from STATCOM-only supply to complete system delivery, including step up transformer
- Reduced on-site work: no building required, enabling a simplified permitting process
- Fast delivery, installation and commissioning through prefabricated, factory-tested modules
- Suitability for harsh environmental conditions (e.g., high seismic zones, coastal areas)
- Cybersecurity architecture compliant with national regulations (e.g., NERC CIP)
- Standards-based SCADA control interfaces: IEC 61850, DNP3, IEC 60870-5-104/101



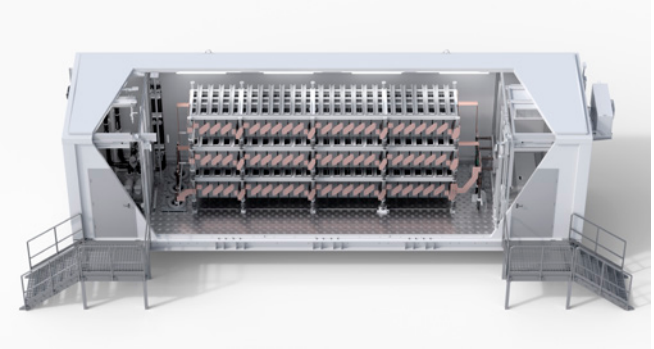
HV: High-voltage busbar

MV: Medium-voltage busbar

L_{VSC}: Coupling reactor

VSC: Voltage source converter

Simplified single-line diagram



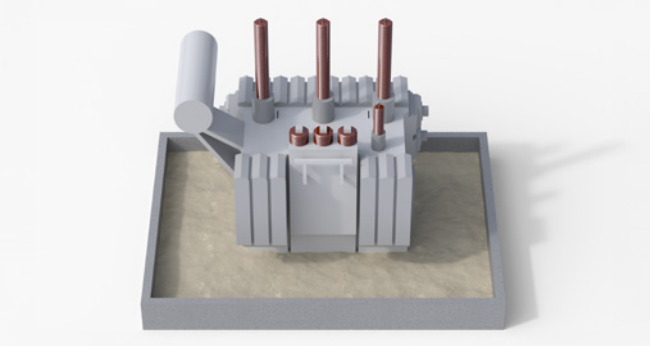
Core module: multilevel converter with control and protection (C&P) as well as cooling

Modules

In addition to the core module, other containerized modules can be optionally selected, such as the containerized reactor module and the containerized module of auxiliary supply panels and batteries. The main transformer and a containerized gas-insulated switchgear (GIS) can also be chosen as an option from our existing Siemens Energy portfolio.



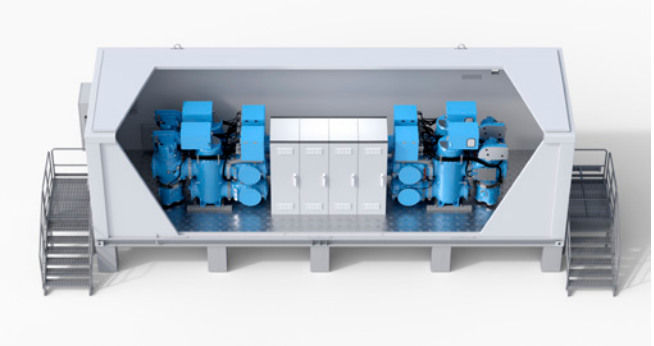
Reactor (outdoor or containerized)



Power transformer (outdoor)



Containerized auxiliary supply panels and batteries (option)



Containerized gas-insulated switchgear (GIS) (option)

Main data	
Reactive power	±25, ±35 or ±50 Mvar
Connection voltage	Adjustable to any voltage level
Ambient temperature	-30 to +40 °C (option: -40 to +45 °C)
Lifetime	>30 years
Wind load	180 km/h
Roof load	180 kg/m² (option: 400 kg/m²)
Approved design for seismic environment	

Installation & commissioning

All modules are prefabricated and pretested prior to delivery, ensuring a streamlined installation and commissioning process on-site.

- No building required, enabling a simplified permitting process
- Minimal foundation requirements
- Short installation and commissioning time



Core Module: Converter with control and protection (C&P) unit and cooling, available as containerized fixed installation or as mobile STATCOM installed on a truck trailer.

Services

- Delivery of pre-engineered and pre-tested modules
- Supervision of installation
- Commissioning

Availability

- High system availability and reliability
- More than 24,000 power modules successfully operating worldwide with SVC PLUS®
- Integrated cybersecurity features

Maintenance

- Low-maintenance design
- Global maintenance contracts available upon request

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