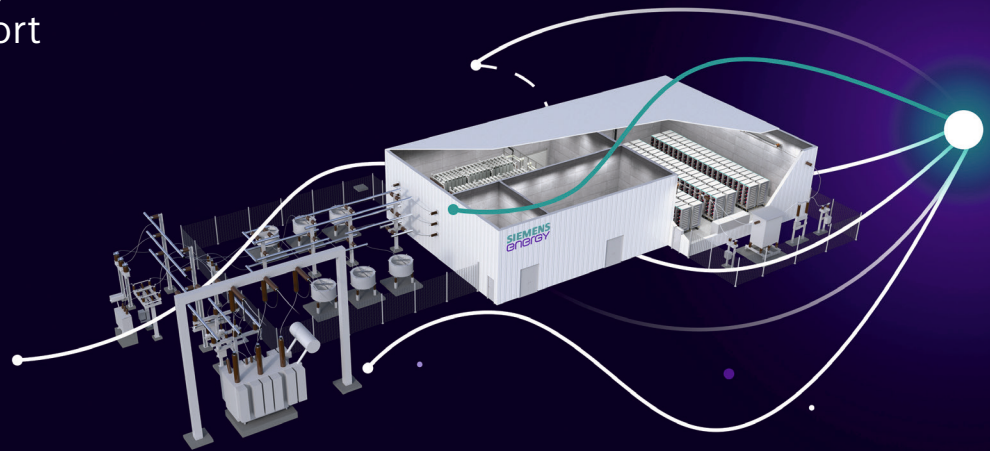


SVC PLUS FS

Ensuring grid stability with frequency support by power electronics



[siemens-energy.com/SVCPLUSFS](https://www.siemens-energy.com/SVCPLUSFS)

The challenge

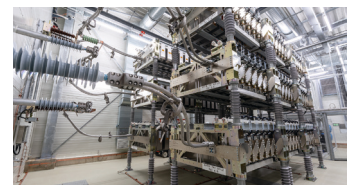
While grids are undergoing fundamental changes in terms of power generation, renewable infeed and ever-growing demand, power quality and dynamic grid stability are at risk due to less synchronous power generation.



SVC PLUS FS: A convincing solution

By using a bulk number of supercapacitors, the new SVC PLUS[®] frequency stabilizer (SVC PLUS FS) is a cost-efficient, compact solution that helps to overcome generation-consumption imbalances

- by boosting high active power into the grid when needed emulating system inertia (discharging)
- actively load capacitors when it is beneficial for the grid (charging) as well
- voltage support by means of reactive power compensation like SVC PLUS[®]



Operational benefits



Blackout prevention

Dynamic voltage and frequency support combined in one unit for optimal power quality.



Cost-effective solution

Low lifetime expenditures through compact, space-saving installation with high power density, low losses, and easy maintenance.



Short response time

Fast response time with high active power output over several seconds.



High flexibility

The highly adaptable solution is suitable for various applications through the flexible adjustment of control parameters.



Independent of power generation

Not defined as a power generating unit and therefore available to all transmission system operators who aren't allowed to operate power generating assets.



Environmentally friendly

Small footprint, no local CO₂ emissions; allows more grid access for renewable power generators.



Proven technologies

High-end field-proven SVC PLUS[®] technology and innovative application of supercapacitors combined into a reliable solution.

