

## Inverter grid services

As energy industries worldwide make the rapid transition to clean, renewable energy to power large utility grids, SMA provides pivotal Grid Forming solutions, a fundamental technology to help enable the safety, stability, and efficiency needed by grids and energy plants.

SMA Grid Forming adds system strength and short-circuit ratios, thus enabling a resilient power system with high power quality. This enables even higher levels of renewable generation and ensures reliable transport of energy.

Energy storage plants with SMA Grid Forming Solution can initiate a decentralized "black start" of its local grid, rapidly and safely. Market models are evolving to enable monetization for this crucial capability.

Grid booster systems for large-scale energy storage plants are placed at strategic locations in the transmission grid. They add flexibility to existing transmission systems and relieve constraints while reducing the need for costly redispatch measures.

SMA battery inverters are responsible for charging and discharging the battery at the right time, to the right level and with the highest efficiency. They are also responsible for all grid services on inverter-level used for off-grid and on-grid applications within SMA Grid Forming Solutions.

The SMA Power Plant Manager is the integrated solution for reliable system control, monitoring and central device management. Together with SMA's leading inverter technology and comprehensive Engineering Services, it ensures precise performance over the plant's lifetime. Additionally, it provides flexible interfaces for grid integration and energy market participation.

With a large-scale battery storage system, the public utility company Versorgungsbetriebe Bordsesholm in northern Germany is able to supply the European utility grid with balancing energy - a lucrative business model.



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