

SMA Solar Technology AG Press Release

SMA introduces new Stability Enhanced DC Coupled Hybrid Solution for solar and storage

Niestetal/Munich, June 23, 2026 – SMA Solar Technology AG (SMA) presents its new Stability Enhanced DC Coupled Hybrid Solution at The Smarter E Europe 2026, setting a new benchmark for utility-scale hybrid power plants combining photovoltaics, battery storage and grid-forming capabilities to improve project economics, energy security and power system stability.

The solution integrates SMA's proven technology, combining power conversion, plant control and engineering expertise into one integrated approach. The solution consists of SMA's Medium Voltage Power Station (MVPS) including the Sunny Central Storage UP-S battery inverter with grid-forming capabilities, and the Sunny Central FLEX DCDC Skid. The SMA Power Plant Manager and dedicated Engineering Services complement the solution enabling optimized system design and reliable, efficient operation of hybrid power plants.

At the core of this solution is the advanced SiC MOSFET semiconductor technology, deployed in both the Sunny Central Storage UP-S battery inverter and the Sunny Central FLEX DCDC Skid. This cutting-edge technology delivers conversion efficiencies of up to 99.5%, reduces thermal loads, and enables boosted operation even during extreme grid disturbances. Together, these capabilities ensure outstanding system performance and support stable grid operation.

With increasing pressure on grid stability and project bankability, hybrid systems have become essential for utility-scale energy projects. The DC Coupled architecture reduces conversion losses and increases system efficiency, enabling energy to be shifted to higher price periods while capturing curtailed energy. This supports additional revenue streams and improves long-term project returns.

SMA's new Hybrid Solution integrates advanced grid-forming capabilities across both PV and battery systems. It can provide inertia, fast frequency response, and dynamic system support like transient voltage control, enabling reliable operation in weak or constrained grids, and supporting compliance with evolving grid requirements in Europe and worldwide.

The SMA Power Plant Manager provides intelligent plant control, orchestrating PV and Battery Storage to optimize system performance, grid interaction and revenue generation over a project's lifetime. Combined with SMA Engineering Services during planning, modelling and grid integration process, the solution supports flexible system design and adaptation to changing regulatory and market conditions.

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“With our new Stability Enhanced DC Coupled Hybrid Solution, we are enabling our customers to deliver more resilient, efficient, future-proof and bankable projects. As market requirements evolve, hybrid solutions are becoming essential to ensure long-term project viability and stable revenues,” said Florian Bechtold, Executive Vice President Large Scale & Project Solutions at SMA.

Quotation for the new Hybrid Solution will start at the end of July 2026, with availability initially in Germany, the UK, and Australia.

For more information, visit our [product website](#): The solution will be launched at The Smarter E Europe 2026 from June 23-25, 2026.

About SMA

As a leading global specialist in photovoltaic and storage system technology, the SMA Group is setting the standards today for the decentralized and renewable energy supply of tomorrow. SMA’s portfolio contains a wide range of efficient PV and battery inverters, holistic system solutions for PV and battery-storage systems of all power classes, intelligent energy management systems and charging solutions for electric vehicles and power-to-gas applications. Digital energy services as well as extensive services round off SMA’s range. The SMA PV inverters sold around the world since 2006, with a total output of approximately 156 GW, have helped to avoid greenhouse gas emissions of more than 69 million metric tons of CO₂e. This corresponds to avoided environmental costs of approximately €21 billion. SMA’s multi-award-winning technology is protected by more than 1,600 patents and utility models. Since 2008, the Group’s parent company, SMA Solar Technology AG, has been listed on the Prime Standard of the Frankfurt Stock Exchange (S92) and is listed on the SDAX and TecDAX indices.

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