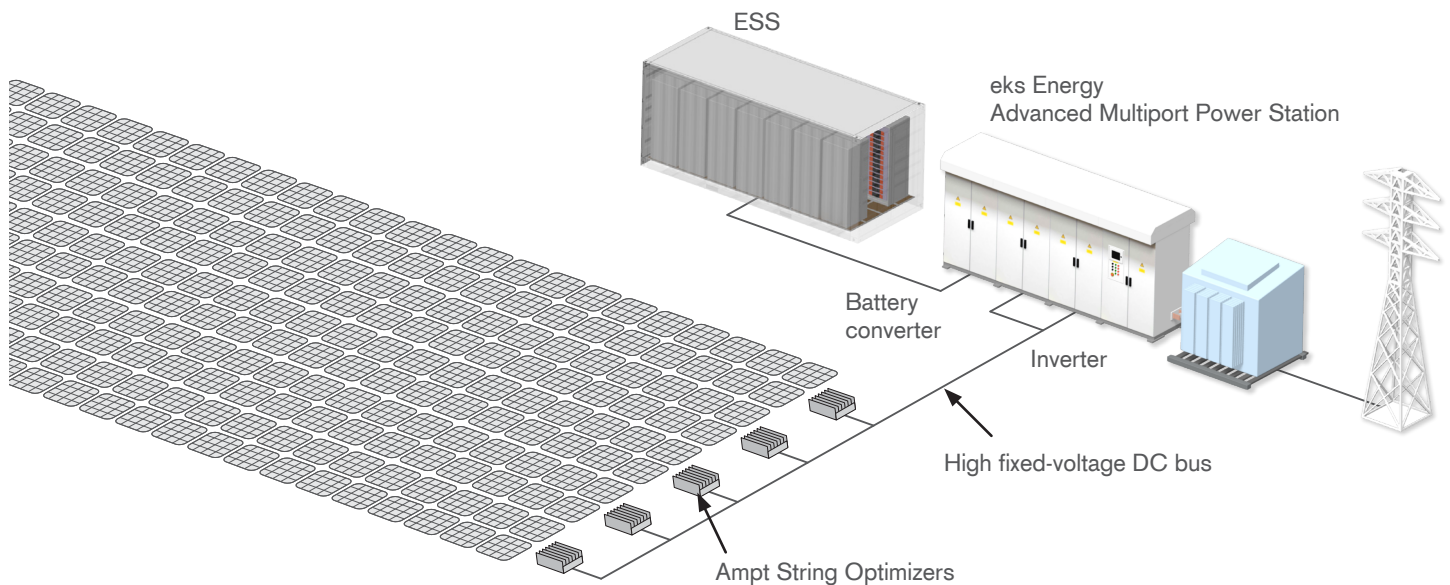


# Smart DC-Coupled Storage Solution

eks Energy and Ampt have partnered to provide an end-to-end power conversion solution for lower cost and higher performing utility-scale PV systems with DC-coupled storage.



## The Best Choice for Utility-scale PV+Energy Storage

The eks Energy and Ampt solution fully integrates the eks Energy Advanced Multiport Power Station with Ampt String Optimizers.

This best-in-class energy storage solution is supporting many of the largest mission-critical PV+storage systems in the world.

The joint power conversion solution uses a high fixed-voltage DC-coupled storage architecture to deliver a lower cost and higher performing renewable energy system with the responsiveness of traditional power plants.

- Lower cost per watt power conversion
- Lower cost electrical BOS
- Fewer solar trackers per MW
- Higher DC/AC ratio capability
- Fewer interconnects
  
- More energy with string-level MPPT
- Avoid energy losses from inverter clipping
- <50ms grid response due to simplified DC controls
- Higher roundtrip storage efficiency
  
- Smart power curtailment management
- Meets highest grid control requirements
- Improved O&M with string-level data
- Training and support services

## eks Energy Advanced Multiport Power Station



The eks Energy Advanced Multiport Power Station has bi-directional inverters and battery converters that are factory integrated into one enclosure to ensure quality and minimize on-site labor. The station is optimized for use in a fixed-voltage DC-coupled storage architecture to lower costs and simplify system control while improving grid responsiveness.

## Lower cost clean energy facility with all the functions and manageability of traditional power plants

- Grid code compliance
- Energy shifting
- Ramp rate control
- Frequency regulation
- Frequency response
- Voltage regulation
- VAR support
- High harmonic distortion
- Capacity firming
- Grid Forming



eks Energy is a leading power conversion system manufacturer and energy storage systems integrator that designs, builds and commissions grid-scale projects. With over 5 GW of installed power in 25+ countries, eks Energy is an expert in technological solutions for the integration, management and control of large power plants offering a complete set of power electronics for PV solar, energy storage and grid stability applications.

[eksenergy.com](http://eksenergy.com)

## Ampt String Optimizer



Ampt String Optimizers are DC/DC converters that perform MPPT on each string of PV modules and then transfer full available power to the DC bus at a high, fixed voltage. Ampt improves lifetime system performance while allowing the entire system to operate at a lower current for a given power to lower total system cost.

“With Ampt String Optimizers in the system, our inverter and battery converter no longer have to manage the variable voltage of a PV array. This increases power density to reduce total system costs to our customers.”

Javier Landero; CEO eks Energy

“The innovation eks Energy brings to their power conversion products for this solution truly demonstrates the knowledge and flexibility they are known for.”

Levent Gun; CEO Ampt



Ampt is the world's #1 DC optimizer company for large-scale PV systems. Ampt delivers innovative power conversion and communication technology that is used to lower the cost and improve performance of new PV systems, enable lower cost DC-coupled storage systems, repower existing systems, and improve O&M. Ampt is a global leader with installations in over 15 countries and more than 2 GW shipped.

[ampt.com](http://ampt.com)