8minute Solar Energy, the largest independent solar developer in the country, approached Doosan GridTech to extend its field-proven Intelligent Controller energy storage platform and create advanced predictive PV+S control software optimized for DC-coupled configuration.

This collaboration, piloted at 8minute’s Springbok-3 solar plant in the Mojave Desert, pairs Doosan’s flexible control software and energy storage expertise with 8minute’s innovative PV+S dispatch approach to maximize hybrid plant value creation.

The joint solution utilizes the MESA open communication standard as the interface between 8minute’s Springbok-3 solar site and the off-taker - Los Angeles Department of Water and Power.

UNLOCK NEW VALUE STREAMS

- Implement multiple operating modes during daily solar shift:
  - Leverage solar forecasting
  - Smooth plant output
  - Deliver ancillary services
  - Provide grid support
- Automate management of PPA and ITC requirements
- Future-proof systems with open standards
- Reduce system degradation and extend plant life
Advantages with the Doosan PV+S Dispatcher Solution

• Intelligently incorporate solar forecasting to improve plant output predictability and stack value streams
• Predictive Real Power Response and SOC Management modes vary BESS charge/discharge rates based on available and forecasted PV to reach desired SOC at desired time
• Unique mode stacking capabilities enable a combination of multiple operating modes - intelligently delivers ancillary services throughout day-long solar shift
• Renewables-only charging capability, configurable per operating mode
• Built on MESA open communication standards for future scalability and hardware interchangeability

Doosan’s Flexible System Configuration

While you will realize the most value by installing the DG-IC as a fully-integrated control platform, the DG-IC is built on a flexible, tiered architecture that can be configured to meet your scope. This architecture includes PV+S Dispatcher capability that: interfaces with utility SCADA systems, hosts MESA-ESS and proprietary operating modes, and provides aggregated site-level control and monitoring. It also delivers asset control capability to interface directly with DER assets and to coordinate between individual PV and BESS assets. We can provide these elements as a holistic solution or as a dispatcher-only solution that sends commands to third-party plant controllers.

Fully-Integrated DG-IC® PV+S Dispatcher Platform

About Doosan GridTech®

We are an award-winning team of power system engineers, software developers, and turnkey energy storage installation specialists. We help electric utilities and other megawatt-scale power producers evaluate, procure, integrate and optimize energy storage, solar power, and other distributed energy resources. Our multi-disciplined teams in Seattle, Melbourne, and Seoul have designed, built, and controlled over 30 energy storage installations in the Americas and Asian-Pacific regions – representing 310MW of capacity. Ranked as one of the top energy storage solution providers by Navigant Research and Bloomberg New Energy Finance, we are the proud recipients of two Grid Innovation Awards from GreenTech Media. Our parent company, Doosan Heavy Industries & Construction Co. Ltd., is a multi-billion-dollar global conglomerate that serves the infrastructure development needs of the power and industrial markets.