

DOOSAN GRIDTECH

Representative Global Energy Storage Experience

Doosan GridTech® is committed to advancing economic development and environmental sustainability by building a strong, low-carbon power grid. Our expertise lies in helping large-scale power producers assess, obtain, integrate, control, and optimize battery energy storage systems. These systems can function independently or be paired with solar or wind power.

Our team of battery storage experts in Seattle and Melbourne has successfully designed, procured, and integrated numerous systems across the Americas and Asia-Pacific regions, amounting to nearly 1GWh of capacity.

We prioritize adaptability throughout every stage of project execution. Our primary goal is to deliver a system that meets our client’s specific requirements.

ENERGY STORAGE -
DESIGN & DELIVERY

CONTROL &
OPTIMIZATION SOFTWARE

SYSTEM INTEGRATION

OPERATIONS &
MAINTENANCE

Project	Client & Technology	Objectives	Use Cases
Wave 1 Battery Supply Tampa, Florida (100 MW / 200 MWh) <i>In Progress</i>	Client: Tampa Electric Battery: Gotion Li-ion PCS: SMA EMS: DG-IC®	Procure and deliver BESS equipment and coordinate the BESS design and data with 3rd party EPC to support the design and installation of a complete, functional system.	Peak shifting, voltage support, reactive power support, ramp rate control, fast frequency response.
Tailem Bend II BESS South Australia, Australia (41.5 MW / 45 MWh) <i>In Progress</i>	Client: Vena Energy Battery: CATL Li-ion PCS: Power Electronics EMS: DG-IC®	To counter the intermittent nature of solar generation and maximize the solar plant’s profit while providing ancillary services to the National Electricity Market.	Fast frequency response, ancillary services, voltage support.
Capital BESS Australian Capital Territory, AUS (100 MW / 200 MWh) <i>In Progress</i>	Client: Neoen Battery: CATL Li-ion PCS: Power Electronics EMS: DG-IC®	Use ESS for market participation and respond to frequency changes to prevent voltage and frequency collapse, and add competition to the markets which helps reduce consumer electricity prices.	Ancillary services, arbitrage, peak shaving, block/load shifting, renewable firming and smoothing, virtual inertia.
Wandoan South ESS Queensland, AUS (100 MW / 150 MWh)	Client: Vena Energy Battery: Samsung Li-ion PCS: Power Electronics EMS: DG-IC®	Market participation, standalone ESS, providing energy arbitrage and FCAS revenue.	Energy arbitrage, frequency control, ancillary services.
Beacon Solar Plant ESS Mojave Desert, CA (20 MW / 10 MWh)	Client: LADWP Battery: Samsung Li-ion PCS: SMA EMS: DG-IC®	Deploy large-scale energy storage system to provide greater resiliency and reliability to electrical system grid and allow for greater utilization of existing solar plant.	Solar integration, frequency response services, local voltage support.
Micanopy ESS Microgrid Micanopy, FL (8.3 MW / 11.7 MWh)	Client: Duke Energy Battery: Samsung Li-ion PCS: SMA	Deploy ESS with microgrid services to improve reliability for third-party energy user. Capture revenue from the southeast wholesale market to improve economics for investment.	Islanding, frequency regulation.
Jennings ESS Microgrid Jennings, FL (5.5 MW / 5.5 MWh)	Client: Duke Energy Battery: Samsung Li-ion PCS: SMA	Deploy ESS with microgrid services to improve reliability for third-party energy user. Capture revenue from the southeast wholesale market to improve economics for investment.	Islanding, frequency regulation.
Atterbury PV + S Microgrid Camp Atterbury, IN (5 MW / 5 MWh)	Client: Duke Energy Battery: Samsung Li-ion PCS: SMA EMS: DG-IC® PV: 2 MW array	Deploy mission-critical solar+storage system with microgrid services to improve reliability for Atterbury National Guard base. Capture revenue from the MISO Frequency Regulation market to improve economics for investment.	Islanding, frequency regulation.
Nabb ESS Microgrid Nabb, IN (5 MW / 5 MWh)	Client: Duke Energy Battery: Samsung Li-ion PCS: SMA EMS: DG-IC®	Use ESS to improve reliability to community. Capture revenue from the MISO Frequency Regulation market to improve economics for investment.	Islanding, frequency regulation.
John Hopkins PV + S Microgrid St. Petersburg, FL (2.5 MW / 18 MWh)	Client: Duke Energy Battery: CATL Li-ion PCS: Dynapower PV: .8 MW array	Deploy ESS + PV with microgrid services to improve reliability for third party energy user. Capture revenue from the southeast wholesale market to improve economics for investment.	Islanding, frequency regulation.

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Everett ESS Everett, WA (2 MW / 7 MWh)	Client: Snohomish PUD Battery: Vanadium Redox Flow PCS: Siemens EMS: DG-IC® and DERO®	Enable storage-based firming of renewable energy.	Energy arbitrage, peak shifting.
Glacier ESS Glacier, WA (2 MW / 4.4 MWh)	Client: Puget Sound Energy EMS: DG-IC®	Improve service to a remote community.	Peak shaving, islanding, and frequency response.
Hardeson ESS Everett, WA (2 MW / 1 MWh)	Client: Snohomish PUD Batteries: Mitsubishi & LG Li-ion PCS: Parker Hannifin EMS: DG-IC® and DERO®	Enable storage-based firming of renewable energy as part of broader ESS fleet optimization.	Peak shaving, renewables smoothing, energy arbitrage/system flexibility.
Mueller ESS Austin, TX (1.8 MW / 3.2 MWh)	Client: Austin Energy Battery: Samsung Li-ion PCS: Younicos EMS: DG-IC® and DERO®	Deploy utility-owned energy storage to integrate 3 MW of community and rooftop solar PV at lowest-cost of load served as part of DOE SHINES program.	Distributed-solar integration, bulk power market services, local power quality support.
Kingsbery ESS Austin, TX (1.5 MW / 3 MWh)	Client: Austin Energy Battery: LG Chem Li-ion PCS: Parker Hannifin EMS: DG-IC® and DERO®	Deploy utility-owned energy storage to integrate community and rooftop solar PV at lowest-cost of load served as part of DOE SHINES program.	Distributed-solar integration, bulk power market services, local power quality support.
Horn Rapids ESS Richland, WA (1 MW / 4 MWh)	Client: Energy NW Battery: CATL Li-ion PCS: Power Electronics EMS: DG-IC®	Smooth the solar output, shift off-peak solar energy generation to times when the energy is needed, and help reduce peak energy demand.	Solar smoothing, firming, and shifting.
Parkview ESS Kalamazoo, MI (1 MW / 1 MWh)	Client: Consumers Energy Battery: Samsung Li-ion PCS: Ingeteam EMS: DG-IC®	Deploy utility-owned energy storage system to support distribution circuit reliability and efficiency.	Peak shaving, voltage support.
DHI Facility ESS Changwon (12 MW / 70 MWh)	Client: SK E&S Battery: Samsung Li-ion PCS: Plaspo Software: DG-IC®	Increase utility of solar by shifting production to high demand hours.	Peak demand management, energy arbitrage, solar power shifting.
BSS ESS Phase 1 & 2 Gyeongsan-bukdo (3.8 MW / 12.2 MWh)	Client: BSS Battery: LG Chem Li-ion PCS: Plaspo Software: DG-IC®	Reduce energy costs by shifting solar energy production from four systems, using 5 th ESS for peak shaving.	Energy arbitrage, peak shaving.
Uiryong PV + S Gyeongsan-bukdo (3 MW / 8 MWh)	Client: BSS Battery: Samsung Li-ion PCS: Plaspo Software: DG-IC® PV: 3 MW array	Create REC Sales profit by charging and discharging of electricity from solar PV.	Energy arbitrage.
Energy Storage System PV + S Changwon (2.5 MW / 7.5 MWh)	Client: Future Energy Battery: LG Chem Li-ion PCS: Plaspo Software: DG-IC® PV: 1.2 MW array	Reduce energy costs by shifting solar energy production from local solar PV.	Energy arbitrage.
Jeungpyeong ESS Chungcheong-bukdo (2 MW / 10 MWh)	Client: SK E&S Battery: SK Innovation Li-ion PCS: SMA Software: DG-IC®	Reduce energy costs through peak shaving and energy arbitrage and create additional profit through demand response discharge.	Energy arbitrage, peak shaving.
Naju PV + S Jellanam-do (2 MW / 6 MWh)	Client: Ihan Battery: Samsung Li-ion PCS: Plaspo Software: DG-IC® PV: 2.6 MW array	Create REC Sales profit by charging and discharging of electricity from solar PV.	Energy arbitrage.
Industrial PV + S Microgrid Changwon (2 MW / 4.2 MWh)	Client: KOEN Battery: Samsung Li-ion PCS: Plaspo Software: DG-IC® PV: 0.1 MW array	Reduce energy costs by peak shaving and energy arbitrage in conjunction with solar PV.	Energy arbitrage, peak shaving.
HQ Facility ESS Naju (.8 MW / 2.4 MWh)	Client: Korea Power Exchange Battery: Samsung Li-ion PCS: Plaspo PCS	Reduce energy costs through peak shaving and energy arbitrage.	Energy arbitrage, peak shaving.
Changwon Learning Center PV + S Changwon (.5 MW / 1 MWh)	Client: DHI Battery: Samsung Li-ion PCS: Plaspo Software: DG-IC® PV: 0.3 MW array	Reduce energy costs by shifting solar energy production from local solar PV.	Energy arbitrage.