

**DOOSAN GRIDTECH**

**Representative Global Energy Storage Experience**

At Doosan GridTech®, we believe that enduring economic growth and environmental healing start with a resilient, low-carbon power grid.

We help utility-scale power producers evaluate, procure, integrate, control, and optimize energy storage, solar power, and other renewable power resources. Our battery storage experts in Seattle, Melbourne, and Seoul have designed and installed dozens of systems in the Americas and Asian-Pacific regions – representing over 600 MWh of capacity.

**ENERGY STORAGE -  
DESIGN & DELIVERY**

**CONTROL &  
OPTIMIZATION SOFTWARE**

**SYSTEM INTEGRATION**

**OPERATIONS &  
MAINTENANCE**

We bring flexibility to all levels of project execution. What is important to us is that you get the system you want -- the way you want it.

Project	Client & Technology	Objectives	Use Cases
<b>Tailem Bend II BESS</b> South Australia, Australia (41.5 MW / 45 MWh) <i>In Progress</i>	<b>Client:</b> Vena Energy <b>Battery:</b> CATL Li-ion <b>PCS:</b> Power Electronics <b>EMS:</b> 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.
<b>Capital BESS</b> Australian Capital Territory, AUS (100 MW / 200 MWh) <i>In Progress</i>	<b>Client:</b> Neoen <b>Battery:</b> CATL Li-ion <b>PCS:</b> Power Electronics <b>EMS:</b> 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.
<b>Wandoan South ESS</b> Queensland, AUS (100 MW / 150 MWh)	<b>Client:</b> Vena Energy <b>Battery:</b> Samsung Li-ion <b>PCS:</b> Power Electronics <b>EMS:</b> DG-IC®	Market participation, standalone ESS, providing energy arbitrage and FCAS revenue.	Energy arbitrage, frequency control, ancillary services.
<b>Beacon Solar Plant ESS</b> Mojave Desert, CA (20 MW / 10 MWh)	<b>Client:</b> LADWP <b>Battery:</b> Samsung Li-ion <b>PCS:</b> SMA <b>EMS:</b> 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.
<b>Micanopy ESS Microgrid</b> Micanopy, FL (8.3 MW / 11.7 MWh)	<b>Client:</b> Duke Energy <b>Battery:</b> Samsung Li-ion <b>PCS:</b> 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.
<b>Jennings ESS Microgrid</b> Jennings, FL (5.5 MW / 5.5 MWh)	<b>Client:</b> Duke Energy <b>Battery:</b> Samsung Li-ion <b>PCS:</b> 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.
<b>Atterbury PV + S Microgrid</b> Camp Atterbury, IN (5 MW / 5 MWh)	<b>Client:</b> Duke Energy <b>Battery:</b> Samsung Li-ion <b>PCS:</b> SMA <b>EMS:</b> DG-IC® <b>PV:</b> 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.
<b>Nabb ESS Microgrid</b> Nabb, IN (5 MW / 5 MWh)	<b>Client:</b> Duke Energy <b>Battery:</b> Samsung Li-ion <b>PCS:</b> SMA <b>EMS:</b> 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.
<b>John Hopkins PV + S Microgrid</b> St. Petersburg, FL (2.5 MW / 18 MWh)	<b>Client:</b> Duke Energy <b>Battery:</b> CATL <b>PCS:</b> Dynapower <b>PV:</b> .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.
<b>Everett ESS</b> Everett, WA (2 MW / 7 MWh)	<b>Client:</b> Snohomish PUD <b>Battery:</b> Vanadium Redox Flow <b>PCS:</b> Siemens <b>EMS:</b> DG-IC® and DERO®	Enable storage-based firming of renewable energy.	Energy arbitrage, peak shifting.
<b>Glacier ESS</b> Glacier, WA (2 MW / 4.4 MWh)	<b>Client:</b> Puget Sound Energy <b>EMS:</b> DG-IC®	Improve service to a remote community.	Peak shaving, islanding, and frequency response.

Project	Client & Technology	Objectives	Use Cases
<b>Hardeson ESS</b> Everett, WA (2 MW / 1 MWh)	<b>Client:</b> Snohomish PUD <b>Batteries:</b> Mitsubishi & LG Li-ion <b>PCS:</b> Parker Hannifin <b>EMS:</b> 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.
<b>Mueller ESS</b> Austin, TX (1.8 MW / 3.2 MWh)	<b>Client:</b> Austin Energy <b>Battery:</b> Samsung Li-ion <b>PCS:</b> Younicos <b>EMS:</b> 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.
<b>Kingsbery ESS</b> Austin, TX (1.5 MW / 3 MWh)	<b>Client:</b> Austin Energy <b>Battery:</b> LG Chem Li-ion <b>PCS:</b> Parker Hannifin <b>EMS:</b> 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.
<b>Horn Rapids ESS</b> Richland, WA (1 MW / 4 MWh)	<b>Client:</b> Energy NW <b>Battery:</b> CATL <b>PCS:</b> Power Electronics <b>EMS:</b> 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.
<b>Parkview ESS</b> Kalamazoo, MI (1 MW / 1 MWh)	<b>Client:</b> Consumers Energy <b>Battery:</b> Samsung Li-ion <b>PCS:</b> Ingeteam <b>EMS:</b> DG-IC®	Deploy utility-owned energy storage system to support distribution circuit reliability and efficiency.	Peak shaving, voltage support.
<b>DHI Facility ESS</b> Changwon (12 MW / 70 MWh)	<b>Client:</b> SK E&S <b>Battery:</b> Samsung Li-ion <b>PCS:</b> Plaspo <b>Software:</b> DG-IC®	Increase utility of solar by shifting production to high demand hours.	Peak demand management, energy arbitrage, solar power shifting.
<b>BSS ESS Phase 1 &amp; 2</b> Gyeongsan-bukdo (3.8 MW / 12.2 MWh)	<b>Client:</b> BSS <b>Battery:</b> LG Chem Li-ion <b>PCS:</b> Plaspo <b>Software:</b> DG-IC®	Reduce energy costs by shifting solar energy production from four systems, using 5 <sup>th</sup> ESS for peak shaving.	Energy arbitrage, peak shaving.
<b>Uiryong PV + S</b> Gyeongsan-bukdo (3 MW / 8 MWh)	<b>Client:</b> BSS <b>Battery:</b> Samsung Li-ion <b>PCS:</b> Plaspo <b>Software:</b> DG-IC® <b>PV:</b> 3 MW array	Create REC Sales profit by charging and discharging of electricity from solar PV.	Energy arbitrage.
<b>Energy Storage System PV + S</b> Changwon (2.5 MW / 7.5 MWh)	<b>Client:</b> Future Energy <b>Battery:</b> LG Chem Li-ion <b>PCS:</b> Plaspo <b>Software:</b> DG-IC® <b>PV:</b> 1.2 MW array	Reduce energy costs by shifting solar energy production from local solar PV.	Energy arbitrage.
<b>Jeungpyeong ESS</b> Chungcheong-bukdo (2 MW / 10 MWh)	<b>Client:</b> SK E&S <b>Battery:</b> SK Innovation Li-ion <b>PCS:</b> SMA <b>Software:</b> DG-IC®	Reduce energy costs through peak shaving and energy arbitrage and create additional profit through demand response discharge.	Energy arbitrage, peak shaving.
<b>Naju PV + S</b> Jellanam-do (2 MW / 6 MWh)	<b>Client:</b> Ihan <b>Battery:</b> Samsung Li-ion <b>PCS:</b> Plaspo <b>Software:</b> DG-IC® <b>PV:</b> 2.6 MW array	Create REC Sales profit by charging and discharging of electricity from solar PV.	Energy arbitrage.
<b>Industrial PV + S Microgrid</b> Changwon (2 MW / 4.2 MWh)	<b>Client:</b> KOEN <b>Battery:</b> Samsung Li-ion <b>PCS:</b> Plaspo <b>Software:</b> DG-IC® <b>PV:</b> 0.1 MW array	Reduce energy costs by peak shaving and energy arbitrage in conjunction with solar PV.	Energy arbitrage, peak shaving.
<b>HQ Facility ESS</b> Naju (.8 MW / 2.4 MWh)	<b>Client:</b> Korea Power Exchange <b>Battery:</b> Samsung Li-ion <b>PCS:</b> Plaspo PCS	Reduce energy costs through peak shaving and energy arbitrage.	Energy arbitrage, peak shaving.
<b>Changwon Learning Center PV + S</b> Changwon (.5 MW / 1 MWh)	<b>Client:</b> DHI <b>Battery:</b> Samsung Li-ion <b>PCS:</b> Plaspo <b>Software:</b> DG-IC® <b>PV:</b> 0.3 MW array	Reduce energy costs by shifting solar energy production from local solar PV.	Energy arbitrage.