

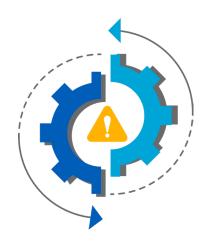
DOOSAN GridTech

Energy Delivered

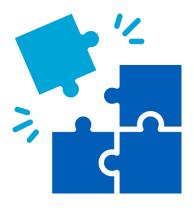
End-to-End Flexible & Scalable Battery Energy Storage Systems

The #1 Reason Storage Projects Fail to Deploy? Poor System Integration. We Solve That.

Here's why system integration matters:



Integration missteps result in delays, failures and lost ROI.



Poor interoperability risks system failure.



Compliance gaps risk costly delays, penalties or rework.

Our Solution: Integrated BESS Solutions that Deliver Results

BESS Design + Integration



- Turnkey Design + Integration
- In-House PPC
- Pre-Commissioning via Hardware-inthe-Loop (HIL) Simulation
- Utility-Grade Safety + Controls
- Faster Time-to-Energization

BESS Control Software



- Unifies Multi-Vendor Components
- Sub-Second Response and Control
- Hybrid-Ready
- Open Standard Communication Protocols
- Dynamic Use Case Shifting

BESS Maintenance Support



- System Monitoring & Analytics
- Performance Optimization
- Safety & Compliance
- OEM Coordination & Single-Point Accountability
- Predictable OPEX & Bankability

Powering Projects Across the Globe

DOOSAN GRIDTECH



Tampa, Florida, USA

Wandoan South 150MWh BESS

Wandoan, Queensland, AUS

Doosan Role: EPC + Software

Flexible Applications: Energy arbitrage and frequency control ancillary services



Tailem Bend II 45MWh BESS

Tailem Bend, South Australia, AUS

Doosan Role: EPC + Software

Flexible Applications: Fast frequency response, ancillary services, hybrid renewable integration



Canberra, Australian Capital Territory, AUS

Doosan Role: EPC + Software

Flexible Applications: Ancillary services, arbitrage, peak shaving, block/load shifting, renewable firming and smoothing, virtual inertia



Wave 1 200MWh BESS Portfolio

Doosan Role: System Integration + Software

Flexible Applications: Peak shifting, voltage

fast frequency response, generation reserve

and reactive power support, ramp rate control,

MESA 1 & 2 9MWh BESS

Everett, Washington, USA

Doosan Role: Software Integration

Flexible Applications: Peak shaving, peak shifting, renewables smoothing, energy

arbitrage/system flexibility



Beacon Solar Plant 10MWh BESS

Mojave Desert, California, USA

Doosan Role: EPC + Software

Flexible Applications: Frequency regulation, energy storage for offsetting solar generation, and voltage support





Kingsbury 3MWh BESS

Austin, Texas, USA

Doosan Role: Software Integration

Flexible Applications: Renewable integration, bulk power services, aggregated and direct utility control



Camp Atterbury & Nabb, Indiana, USA

Flexible Applications: Islanding, backup power,

Doosan Role: EPC

frequency regulation

Control You Can Trust. Results You Can See.

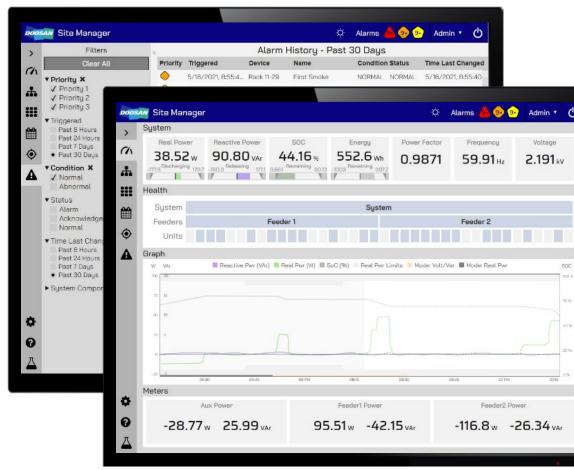
The Doosan GridTech Intelligent Controller (DG-IC®) gives you flexibility and real-time intelligence to run BESS safely and efficiently.

Key Capabilities:

- Safely monitors and controls energy assets in real-time
- Supports grid reliability and power quality
- Provides flexible, grid-stabilizing operating modes
- Reduces outages and defers costly grid upgrades
- Seamlessly integrates batteries, inverters, and DERs, including hybrid system support.

Why It Matters:

DG-IC® delivers the real-time control and intelligence you need to operate safely, reliably and efficiently at any scale.



Real-Time Battery Intelligence You Can Act On

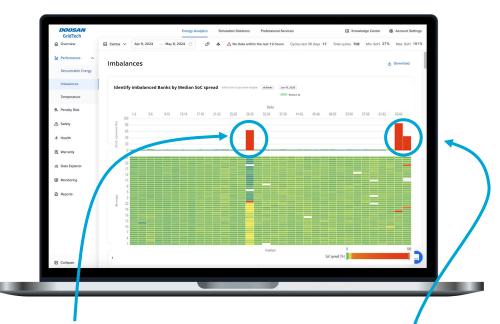
Our Doosan GridTech Performance Analytics (DG-PA) gives you visibility into battery health from day one so you can catch issues early, protect uptime and extend asset value.

Key Capabilities:

- Real-time battery health and degradation insights
- Commissioning validation and early issue detection
- Warranty compliance and system safety tracking
- Maintenance and tuning recommendations
- Vendor-agnostic

Why It Matters:

The DG-PA helps identify early degradation, improve warranty compliance, and take protective action before performance suffers.



With DG-PA, we move beyond control, providing the intelligence needed to identify and address battery issues before they impact performance.

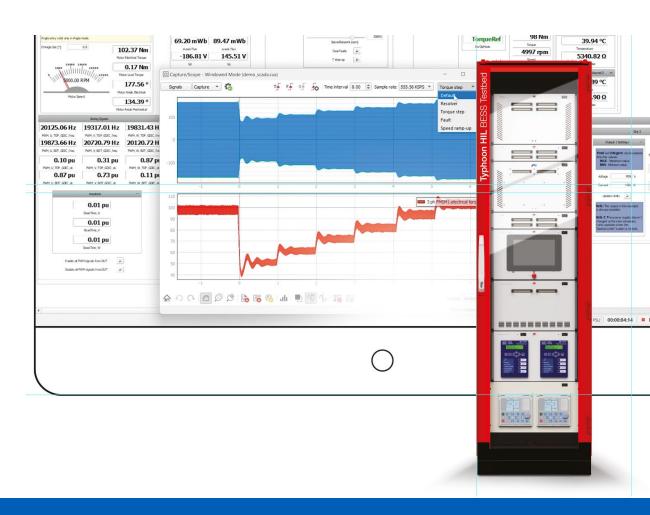
Catch Integration Issues Early

We partner with Typhoon HIL to deliver high-fidelity, real-time testing for utility-scale BESS and PV projects.

Benefits for Clients:

- Catch integration issues early
- Pre-validate control logic
- Improve software reliability
- Speed up commissioning
- Align engineering & field teams
- Build confidence with lab-verified performance

Controller Hardware-in-the-Loop (C-HIL) hardware represents Inverter and BESS components at the highest fidelity possible.



De-Risking and Accelerating BESS Projects with Typhoon HIL

Virtual Commissioning, Real-World Confidence

De-Risk System Integration

- Emulates grid & DER behavior
- Detects issues before deployment
- Validates multi-vendor systems

Accelerate Commissioning

- Pre-commissions in the lab
- Cuts onsite time and costs
- Confirms fast control response

Simplify Grid Code Compliance

- Verifies grid code performance
- Eases utility approvals

Optimize Across the Lifecycle

- Builds digital twins
- Speeds up software updates
- Improves system performance



O&M That Keeps Your BESS Performing Like Day 1

From performance guarantees to lifecycle support, we protect your system and your ROI.

Service Highlights

- Proven O&M expertise across 800+ MWh globally
- Performance guarantees and Long-Term Service Agreements (LTSA) that protect your investment
- Complete system support hardware, software and controls



Trusted By Energy Leaders Since 2011

We're pioneers in the BESS industry. Our partnerships date back to 2011 when battery storage was still emerging.























Value Delivered

Safer systems. Faster timelines. Better returns.

Problem	Our Solution	Benefit
Incompatibility	DG-IC + Open Standards Smooth Integration	
Delay & Risk	C-HIL validation Faster go-live	
Underperformance (Financially or Operationally)	Custom dispatch optimization Higher ROI, better uptime	
Grid compliance	Utility-grade controls + safety	Smoother interconnection

We Protect What You've Built

Layered security, compliance alignment and proactive risk management built into every system.

Defense-in-Depth Architecture

Internal and perimeter network protections, with layered safeguards at the device, server, and application levels.

Access & Integrity Controls

Role-based access, data validation, and error-checking mechanisms to maintain secure system operation.

Organizational Policies & Training

Defined employee security practices and compliance procedures to minimize human error.

IT Security Services & Controls

Ongoing monitoring, patching, and modeling of security infrastructure to meet utility-grade standards.

Logical & Physical Protections

Safeguards at both the software and hardware levels for clients, servers, and control systems.

Why Energy Leaders Choose Doosan GridTech

We help utilities, IPPs, developers and EPCs launch faster, operate smarter and scale safely – backed by more than a decade of proven BESS success.

Capability	Doosan GridTech	Competitors	What This Means for You
In-House PPC Software	✓ DG-IC®	X Often 3rd party	Faster updates, no 3 rd party delays
Pre-Commissioning Lab	Typhoon C-HIL testing	X Rare	Fewer field issues, faster commissioning
Utility DNA	Originated from utility needs	X Vendor-centric	Built to meet your operational realities
Turnkey Project Experience		✓	One trusted partner every step of the way
Compliance and Safety	Exceeds industry standards	Varies	Lower regulatory risk, peace of mind
Analytics	✓ DG-PA™	Limited visibility	Real-time battery intelligence
Corporate Backing	☑ Doosan Group	Varies	Stability and long-term support

Leadership and Reliability You Can Trust

Experienced leaders driving innovation, safety and success.



Steve LevyChief Executive Officer



Steve Hummel Chief Technology Officer



Lori SuttonChief Marketing Officer / Global Sales



Jen YoungChief Operations Officer



Han Jung Chief Financial Officer



Cindy RodmanDirector, Human Resources



Paul Mazlin Australia Country Manager

Expertise Behind Your BESS Software Success

Trusted experts powering intelligent control, seamless integration and long-term reliability.



Steve Hummel, PhD
Chief Technology Officer
45 Years Experience (7 BESS)
Former PV Powered
& Advanced Energy



Allan Gregg
Head of SW Systems Engineering
36 Years Experience (13 BESS)
Former FlexGen, DynaPower
& Sungrow



Justin Wolf
Head of SW Engineering
30 Years Experience (5 BESS)
Former Powin



Ben DavisHead of Research & Development

13 Years Experience (6 BESS)



Stephen LaPlanteHead of Special Projects
14 Years Experience (10 BESS)

The Right Partner Makes All the Difference

We are a team deeply rooted in utility operations, delivering with the strength, experience, and long-term support of a global leader.

Proven Global Experience

+800MWh deployed across leading energy markets

Smart, Scalable Controls

In-house software built to grow with your needs

Full-System Support

Reliable, safe, and optimized for long-term performance

Here for the Long Haul

We're committed to your success beyond deployment

Let's Build Smarter Energy Storage Together!



APPENDIX

We Offer Dynamic Solutions for Various Energy Needs



Grid Stabilization

Manage fluctuations in electricity demand, ensuring a consistent and reliable power supply



Load Shifting

Store energy during low demand and release it during high demand



Renewable Integration

Store excess renewable energy for use when generation drops



Peak Shaving

During periods of high electricity demand, batteries can discharge stored energy

Seamless Integration with Industry-Leading OEMs

For more than a decade, we have integrated the best technology available - no vendor lock-in, maximum performance.

Battery Suppliers















Inverter Suppliers















Emerging Battery Partner HTHIUM



Expanding our LFP supply options for grid-scale energy storage

Who Is Hithium

Leading global manufacturer specializing in stationary energy storage batteries, heavily focused on large-scale grid storage.

Product Focus

Core expertise in LFP battery technology, which is well known for safety and long cycle life.

Manufacturing Scale

Rapidly expanding manufacturing footprint, with a 10GWh annual production capacity in Mesquite, Texas.

Why It Matters for Us

Hithium's portfolio broadens our supplier base for safe, bankable LFP solutions.



Founded In 2016

Shipped to Date +50 GWh

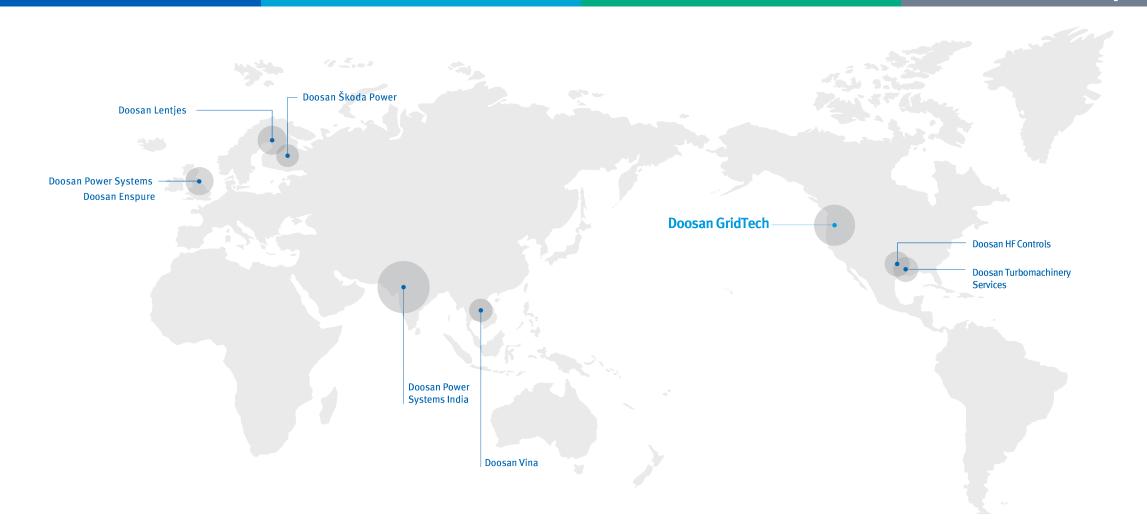
Market Position Tier-1

Founded in 1896

40+ Countries

\$15B Revenue

129 Years of Industrial Leadership



Pioneering Energy Storage Since 2011



1Energy Systems founded in Seattle, WA



1st MESA-based ESS installed at Snohomish PUD

DOOSAN

GridTech

1Energy acquired by Doosan Enerbility, Doosan GridTech formed

· - · 2011

2012

2013

2015

----- 2016

1Energy wins 2016 Grid Edge Award



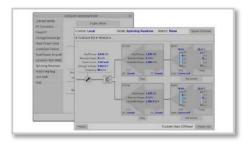
2017

Doosan GridTech chosen to install LADWP's first BESS





1st DG-IC installed at a utility substation



Austin Energy receives DOE SHINES Award

SunShot: Enabling solar
energy storage solutions
to build a more reliable grid

Pioneering Energy Storage Since 2011



Doosan GridTech wins 2018 Grid Edge Innovation Award



Vena Energy selects Doosan GridTech as EPC for Wandoan South BESS



Vena Energy selects Doosan GridTech as EPC for Tailem Bend 2 Hybrid BESS



Doosan GridTech made a significant investment in a state-of-the-art Typhoon HIL test simulation lab

2018

2019

2020 -

2021

2022

2023

2024



Doosan GridTech opens office in Australia



Doosan GridTech chosen to install Neoen's Capital BESS



Tampa Electric selects Doosan GridTech as System Integrator for Wave 1 BESS Portfolio



Tailem Bend 2 45MWh Hybrid BESS with 100MW PV

Vena Energy



Location: Tailem Bend, Australia

Offtaker: ElectraNet

Battery: CATL

Inverter: Power Electronics **Control Software:** DG-IC®



Customer Outcome

Enhance grid reliability and renewable integration by allowing the solar farm and battery to operate independently or together, maximizing output and dispatching clean energy when it's needed most.

Key Challenge Solved

Achieved the **first, and only**, seamless coordination between solar **PV and battery storage in Australia**, along with responsive frequency control to support the National Electricity Market while avoiding duplication of grid infrastructure.

Doosan Role

Doosan GridTech served as the EPC contractor, system integrator, PPC provider, and O&M partner.

Status

Commissioned.

Capital Battery 200MWh Standalone BESS

Neoen



Location: Australian Capital Territory – Australia

Offtaker: Neoen

Battery: CATL

Inverter: Power Electronics **Control Software:** DG-IC®



Customer Outcome

To support and stabilize the ACT electricity grid by dispatching power during peak demand periods and grid emergencies, particularly during heatwaves when large fossil fuel generators are vulnerable to failure.

Key Challenge Solved

Delivered ultra-fast frequency response and reliable power dispatch to prevent blackouts and maintain grid stability in a region with growing renewable energy penetration and extreme climate risks.

Doosan Role

As part of a consortium led by Doosan Enerbility, Doosan GridTech serves as the EPC contractor, system integrator, PPC provider, and O&M partner.

Status

In Progress.

Wandoan South 150MWh Standalone BESS

Vena Energy



Location: Western Downs Region – Australia

Offtaker: AGL Energy Battery: Samsung SDI

Inverter: Power Electronics **Control Software:** DG-IC®



Customer Outcome

To support Queensland's transition to renewable energy by enhancing grid stability, enabling frequency response, and storing clean energy.

Key Challenge Solved

Deliverd a large-scale, grid-compliant BESS that reliably provides rapid frequency control and voltage support to the National Electricity Market, while ensuring thermal safety in extreme Queensland climate conditions.

Doosan Role

Doosan GridTech served as the EPC contractor, system integrator, PPC provider, and O&M partner.

Status

Commissioned.

Wave 1 Portfolio Three Standalone BESS Sites Totaling 200MWh

Tampa Electric Company



Location: Multiple Locations, Florida (3 separate sites)

Offtaker: Tampa Electric Company

Battery: Gotion Hi-Tech

Inverter: SMA

Control Software: DG-IC®



To provide distributed peaking capacity and grid flexibility to support cleaner energy delivery, enhance system resilience, and reduce costs for customers.

Key Challenge Solved

Deployed three distributed BESS sites that seamlessly integrate with the grid, deliver sub-second dispatch, and avoid costly transmission upgrades while maintaining reliability.

Doosan Role

Doosan GridTech serves as the system integrator and PPC provider.

Status

In Progress.

THANK YOU