





The Assets



Solar



Batteries



Wind



EV charging stations



On-site generators (Diesel, NG, bio, etc.)

Load - which may be interruptible

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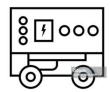
Distributed Energy Resources

Distributed energy resources are small, modular, energy generation and storage technologies that provide electric capacity or energy where you need it. - NREL







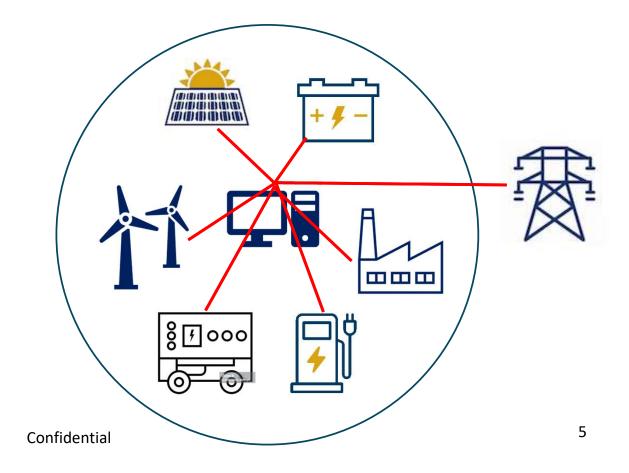






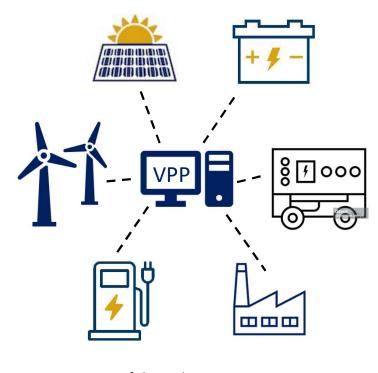
Micro-grids

A group of interconnected loads and distributed energy resources within clearly defined electrical boundaries – Dept. of Energy



Virtual Power Plants

A virtual power plant is a collection of small-scale energy resources that, aggregated together and coordinated with grid operations, can provide the same kind of reliability and economic value to the grid as traditional power plants.—*RMI*



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How Do These Make or Save Money?

The battery value stack

Energy – solar production and time shift (aka energy arbitrage)

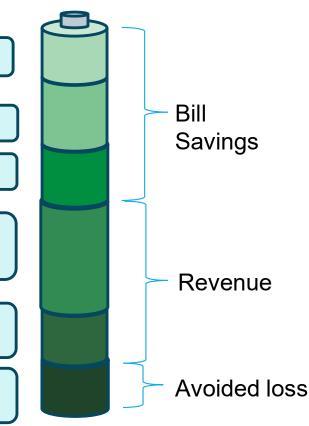
Capacity – provide generation capacity through PLC reduction

Transmission – displace peak transmission requirements

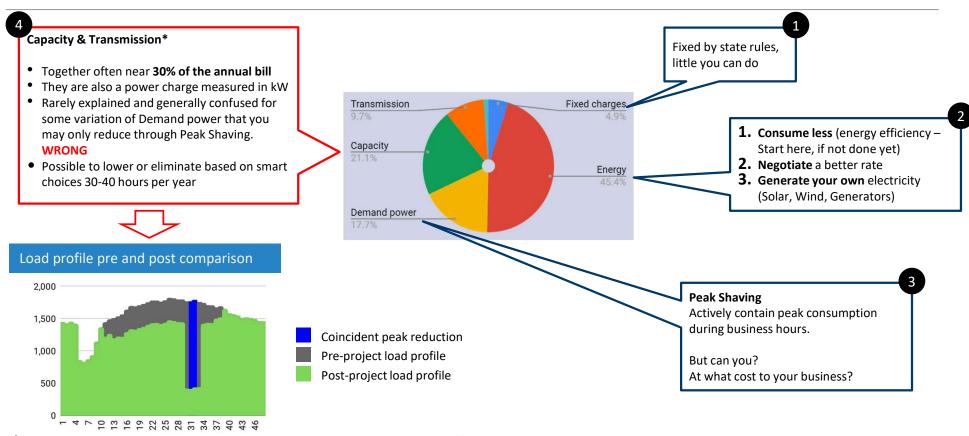
Grid balancing – provide ancillary services to the grid

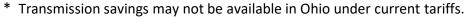
Demand Reduction/Demand Response

Resiliency – provides back-up when the grid goes down



Strategies for bill reduction – Capacity and Transmission







Current Federal Tax Incentives

Inflation Reduction Act

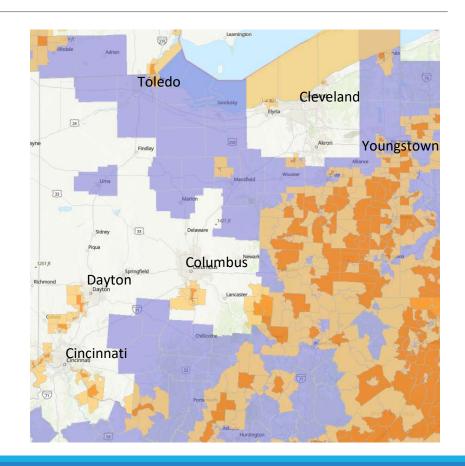
- Investment Tax Credit (ITC)
 - Enhanced and extended by Inflation Reduction Act
 - 30% for solar, battery, and wind and certain emerging technologies
 - Batteries now qualify stand-alone
 - Additional 10% for Domestic Content of Equipment
 - Additional 10% for location in certain "energy communities" and low-income areas
 - Direct pay for non-taxable entities (non-profit, government, education)
- Accelerated MACRS depreciation
 - 60% bonus depreciation in 2024; decreases 20% per year
 - Congress is considering re-setting to 100% retroactive to 2022 through 2025



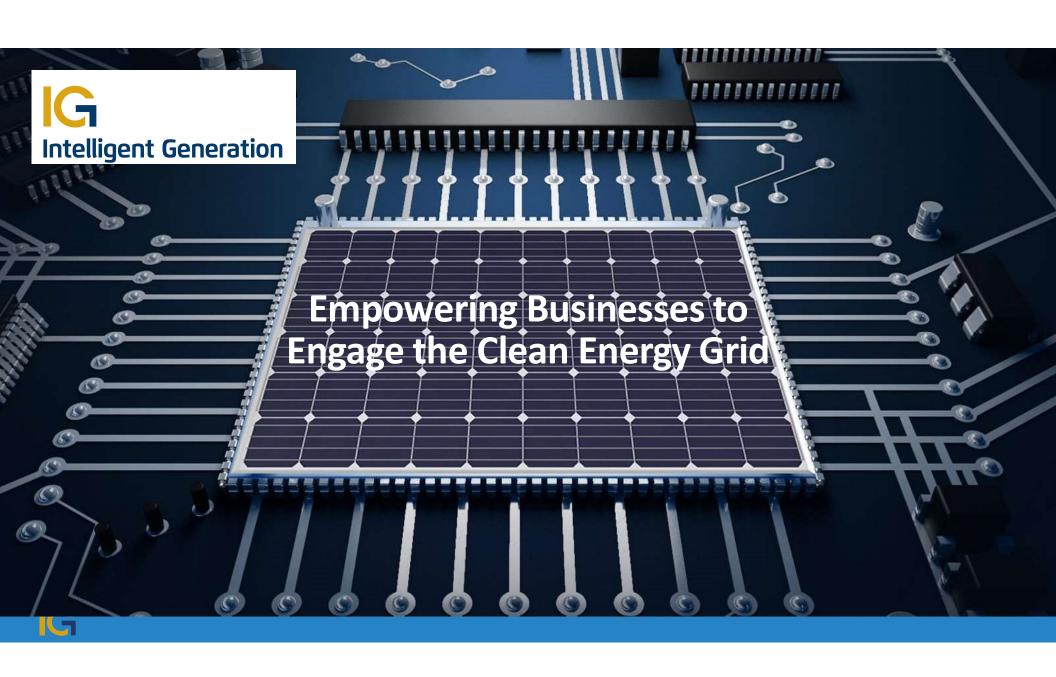
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ITC Details Have Now Been Defined

- Prevailing wage labor and apprenticeship requirements
 - Without these, the ITC drops to only 6%
- Additional 10% ITC for equipment meeting domestic content requirements:
 - 45% of manufactured components (cells, controls, cabling, etc) have to be produced domestically to qualify
 - 100% of steel used in containers and racking
- Additional 10% for locating in low-income communities
- Additional 10% ITC for projects in "energy communities"
 - Brownfield sites
 - Metropolitan Statistical Areas with 0.17% employment or 25% local tax revenue from coal, oil, or natural gas and unemployment above the national average
 - Census tract or adjoining tract where coal mine closed since 2000 or coal-fired power plant closed since 2010
 - Blue, orange and tan areas on the adjacent map are qualifying areas
- Specific qualifications and requirements have not yet been clarified by the Treasury Dept.
- Coverage: Solar, wind, hydrogen, microgrids, controllers, interconnection costs
- https://arcgis.netl.doe.gov/portal/apps/experiencebuilder/experience/?id=a2ce47d4721a477a870 1bd0e08495e1d









Making economic sense of distributed energy assets



EARN

Earn revenue in wholesale power markets



SAVE

Save energy and power expenses



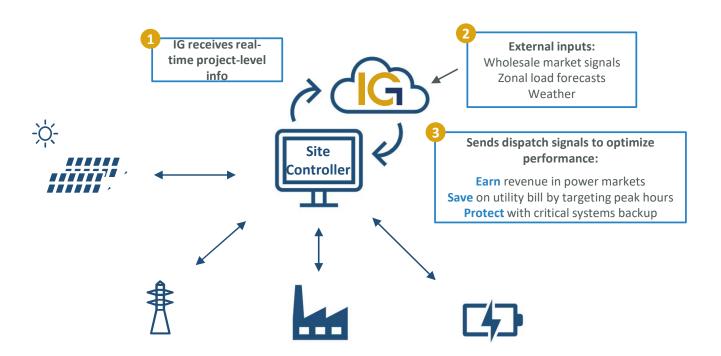
PROTECT

Protect critical systems with battery backup

- First to implement and operate behind-the-meter batteries in PJM and MISO
- Delivering the total battery storage value stack since 2014

IG's cloud-based POWR Suite is the economic engine that delivers maximum economic benefit for a customer.

Cloud-based dispatch engine optimizes renewables project economics by deploying solar, battery storage based on site conditions and market opportunities





Solar + Storage Project Lifecycle





Industrial Project Examples





Abt Electronics (2017) Glenview, IL

Solar 508+1800 kW Backup gen 1600 kW Storage 500 kW





MAGID Glove (2020)

Romeoville, IL

Solar 3800 kW Storage 2000 kW





Libman Co. (2020)

Arcola, IL

Solar 1850 kW Storage 2000 kW





G&W Electric (2022) Bolingbrook, IL

Solar 2000 kW Flywheel 1300 kVA Flow Storage 2000 kW Backup gen 2000 kW Full Microgrid setup



Case Study: ABT Electronics Microgrid

- World's largest single store appliance company.
 Near Chicago O'Hare. Family owned, trusted since 1936. Growth 100% organic.
- 1.5 million sq ft warehouse + office and retail
- \$400M annual revenue, 2500 appliance deliveries per day, 20% of sales online
- Despite cheap grid power (7 cents), they had a clear power strategy:
 - ✓ Go green with Solar
 - ✓ Protect operations from outages
 - √ Guarantee power quality to back-office operations
- The Project: double island micro-grid integrating an existing generator, 1800 kW solar PV and a 500 kW TESLA battery. Installed in 2017.
- Total Payback: under 5 years.





Case Study: G&W Electric Microgrid/Vanadium Flow Battery

- Major manufacturer of medium voltage utility power equipment, including smart grid.
- 24x7 manufacturing including plastics injection molding, ceramics, assembly, office, warehouse, and engineering/R&D.
- Power outages, sometimes only momentary, causing millions in lost production time and materials.
- The Project: Islanding micro-grid integrating an existing generator, 2000 kW solar PV, 1300 kVA flywheel, 2000 kW nat gas generation, and a 2000 kW/8000 kWh CellCube Vanadium flow battery.
- Total Payback: under 4 years.
- Already saved millions in avoided losses in first year









Customer financial reporting

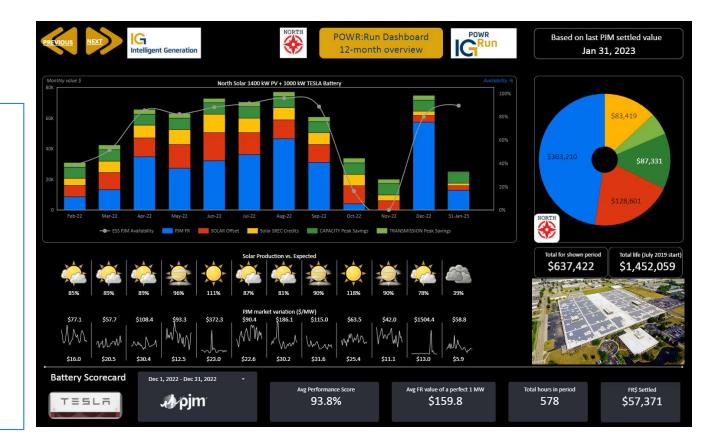


PURPOSE

Let customers easily see financial performance of projects

KEY FEATURES

- Financial dashboard with daily performance update
- Covers entire project and all value streams
- Granular drill down by asset by hour
- Full reconciliation to monthly RTO settlements
- Monthly Customer invoicing



Contact Information

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BIOGRAPHICAL INFORMATION



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David has spent his 30-year career working across a broad spectrum of the energy and utilities space, particularly with large commercial and industrial customers as well as in renewables. His experiences provide him with a unique skill set to lead through the on-going energy transition. Prior to joining IG, David was president of GlidePower Power Solutions, where he was responsible for its 450 MW of wind, solar, and battery energy storage operating projects. Earlier in his career, he held executive roles in origination, marketing, and operations for Engie Resources, Direct Energy, Exelon Energy and ComEd, and also worked as a consultant focused on procurement of renewable and traditional energy for large energy users.

David holds a Master of Business Administration degree from the University of Chicago's Booth School of Management and a Bachelor of Science degree in Mechanical Engineering from Northwestern University.