HONEYWELL FORGE

Sustainability+ for Buildings

Power Manager

ENERGY RESILIENCE FOR TOMORROW OPTIMIZES RESULTS TODAY

A resilient, intelligent building can help deliver continuity of operations, reduce high utility and operational costs, and support your sustainability goals.

SMARTER POWER FOR BUILDINGS

Don't wait for global events or extreme weather to dictate your energy strategy or pricing. When you proactively prepare your site to better withstand power outages, you'll more effectively mitigate risk, manage costs, and maintain continuity in your operations.

The benefits go deeper. Honeywell Forge Sustainability+ for Buildings can help you reduce your utility costs, take steps towards supporting your decarbonization goals, and improve resilience and increase uptime with its Power Manager module.

ENERGY SECURITY IS THE CHALLENGE

Rising energy costs, complicated utility billing, and expanding sustainability requirements are already challenging building operators.

Moreover, experts in numerous fields – scientists, market analysts, investors, insurers, legislators – predict bigger changes ahead.

Energy shortages, heat waves, and extreme weather lead the news, and climate effects that were modeled for 25–50 years in the future are also emerging now.[1] In short: the frequency and cost of volatile weather and unstable grids are creating an urgent need to be better prepared.

Fortunately, the megatrend toward electrification is a promising response,[2] with government agencies promoting the transition to "grid-interactive" buildings that can adjust building consumption and power sources based on significant demand.[3]

RESILIENCE IS A PLAN TO SUCCEED

Power Manager enables energy resilience, monitoring weather conditions, grid status, and utility rates to help optimize both your building demand-side consumption and on-site supply-side generation assets (solar PV, BESS, diesel generators, etc). With its ability to integrate with third party systems, it provides a powerful tool for emissions and energy management across your building portfolio.

POWER MANAGER

POWER BEYOND THE GRID

Cleaner sources[4] of alternate power keep critical services operational. Power Manager integrates with Experion microgrid controls and microgrid assets, including Solar PV, Battery Energy Storage Systems and traditional fuel generation.

ADAPT IN REAL TIME

Power Manager uses inputs from smart meters, IoT devices, microgrid controllers and third party BMSs to modify usage across building assets and distributed energy resources.

DEMAND AND SUPPLY OPTIMIZATION

Power Manager uses AI/ML algorithms to dynamically help reduce non-critical building loads and help optimize on-site microgrid operations to support critical building functions when the utility is experiencing high usage, frequency changes, and/or power disruptions.

READINESS DRIVES RESULTS

Power Manager is a turnkey solution for optimizing on-site supply side resources and building assets based on grid availability, utility rates, and building energy consumption, from project design to ongoing operation.

Helps maintain operational continuity

- Build energy resilience with on-site generation and storage with the option to incorporate renewable sources
- Keep critical systems operating and recover more quickly from outages
- Dynamically manage loads to extend supply during storms, heat waves, or other prolonged extremes
- Plan for possible outages using severe weather alerts and analysis

Supports sustainability goals

- Track energy, scope 1 & 2 emissions[5] and key performance indicators (KPIs)
- On-site generation, solar/PV and storage can reduce and offset emissions from diesel and natural gas generation
- Leverage growing incentives for electrification , battery energy storage systems and EV charging infrastructures
- Document performance for compliance and internal benchmarking

Helps improve operational savings

- Participate in manual and automated demand response programs
- Store surplus power and discharge it when needed
- Avoid demand and ToU* charges with peak shaving and building load management
- Optimize use based on utility rates, weather and building loads, using AI

*coming soon

Provides analytics across your portfolio

- Gain visual analysis at multiple levels, from portfolio down to asset level
- Filter and benchmark KPIs such as microgrid metrics, carbon avoidance, energy consumption and microgrid savings
- Visualize KPIs in real time including trends and forecasts

Clarifies utility billing

- Integrate with utilities
- Automatically collect and analyze utility bill data
- Aggregate and gain insight into utility tariffs and rate structure

SOURCES

1 Axios, We haven't built for this climate, Freedman, Andrew, 2 August 2022, [Accessed 12 Oct. 2022]

2 McKinsey & Company, Unlocking opportunities from industrial electrification, https://www.mckinsey.com/industries/advanced-electronics/our-insights/unlocking-opportunities-from-industrial-electrification, Bauer, Harald, et al. 18 July 2022, [Accessed 12 Oct. 2022]

3 U.S. Department of Energy. Grid-Interactive Efficient Buildings Fact Sheet, Energy.gov, https://www.energy.gov/sites/default/files/2019/04/f62/bto-geb-factsheet-41119.pdf, 24 April 2019, Accessed 12 Oct. 2022.

4 U.S. Department of Energy, Clean Energy [Accessed Nov. 11, 2023]

5 Scope 1 and 2 greenhouse gas emissions are measured using the latest standards from the Intergovernmental Panel on Climate Change's Fifth Assessment Report (IPCC AR5).

Transform sustainability goals into action

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