

An aerial photograph showing a parking lot filled with solar panels. Several cars are parked, including a blue car in the center, a red car, and a black car. White arrows on the pavement point towards the blue car. The solar panels are arranged in large rectangular blocks, some of which are tilted at an angle.

ENERGY RESILIENCE FOR TOMORROW OPTIMIZES RESULTS TODAY

A resilient energy supply that can withstand prolonged outages can also help you improve daily operating costs and continuity

Honeywell Smart Power

Honeywell

HONEYWELL SMART POWER

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

The benefits go deeper: A resilient energy supply can also help you reduce daily operating costs, support sustainability goals, and bring clarity to your energy management plans.

ENERGY CHALLENGES ARE HERE

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

More concerning is that 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 and cities that can adjust usage and power sources.³

RESILIENCE IS A PLAN TO SUCCEED

Honeywell Smart Power for Buildings is your operating system for energy resilience: Monitor status and availability for each load and each power-generation asset. Then adapt use as needed, manually or automatically.

First, we help you assess and prioritize needs. Then we prepare your infrastructure for three core capabilities – to integrate, control, and optimize power use.



INTEGRATE

Supply & demand beyond the grid

Clean sources of alternate power keep buildings and city services operational, including options such as Honeywell battery energy storage or a microgrid. And as our clients can attest, our microgrids have kept them online even in extreme weather, like Superstorm Sandy.⁴



CONTROL

Adapt in real time

Smart meters and IoT integration let you modify usage as needed, including dynamic load management, automated demand response, and distributed energy resources.



OPTIMIZE

Artificial intelligence analytics + automation

Honeywell software uses artificial intelligence to track energy and carbon emissions by utility. Then this is analyzed alongside factors like occupancy, weather, and pricing, and delivered in a visual dashboard.

READINESS DRIVES RESULTS

From a foundation of integration, control, and optimization, Honeywell Smart Power gives you access to diverse capabilities at one site or many – even across an entire city.

Maintain operational continuity

- Build energy resilience with on-site generation and storage, and 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

Help improve site sustainability

- Track energy, scope 1 & 2 emissions,⁵ and key performance indicators (KPIs)
- On-site generation, renewables, and storage can reduce emissions
- Leverage growing incentives for electrification of buildings, assets, and vehicles
- Document performance for compliance and internal benchmarking

Improve operational savings

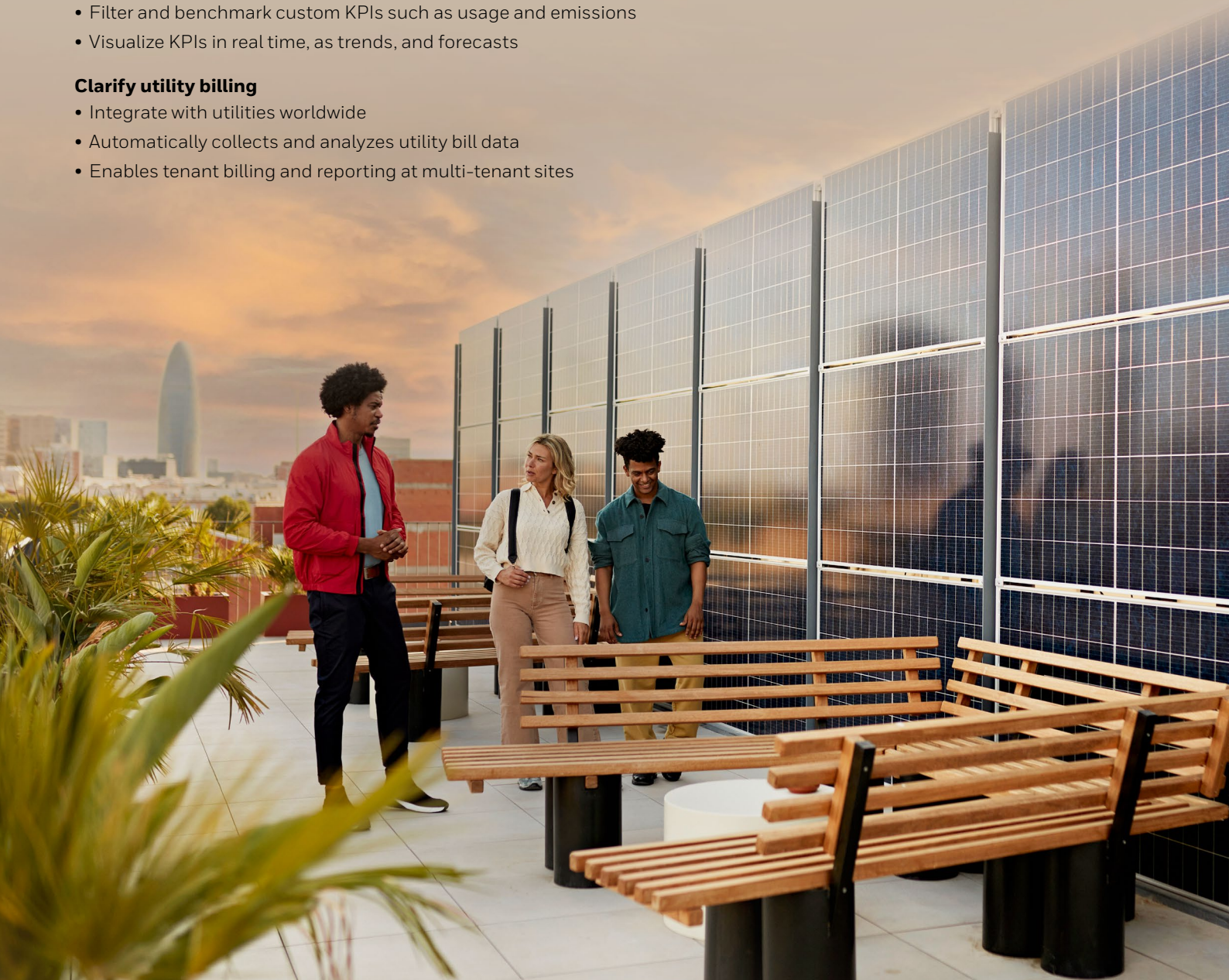
- Participate in automated demand response
- Monetize surplus power
- Avoid peak-demand charges and automate usage with peak shaving, power-quality improvement, and intelligent load shedding
- Optimize use based on pricing, weather and occupancy using AI

View analytics across your portfolio

- Gain visual analysis at multiple levels, from all sites down to single assets
- Filter and benchmark custom KPIs such as usage and emissions
- Visualize KPIs in real time, as trends, and forecasts

Clarify utility billing

- Integrate with utilities worldwide
- Automatically collects and analyzes utility bill data
- Enables tenant billing and reporting at multi-tenant sites





SOURCES

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4. "The Advanced Microgrid: Integration and Interoperability," Sandia Report SAND2014-1535 (pg. 43), https://www.energy.gov/sites/prod/files/2014/12/f19/AdvancedMicrogrid_Integration-Interoperability_March2014.pdf, Bower, Ward, et al., for Sandia National Laboratories. Mar. 2014. Accessed 12 Oct. 2022.
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 energy resilience into operational results

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