TRANSFORM SUSTAINABILITY INTO BUSINESS STRATEGY

Make sustainable energy use a competitive edge – with a little help from Honeywell

Honeywell Carbon & Energy Management

From transparency about energy use and emissions to optimizing operating costs and achieving carbon neutrality goals, Honeywell is uniquely positioned to support you with integrated software, hardware, and decades of results.

Honeywell

HONEYWELL CARBON & ENERGY MANAGEMENT

Sustainability is not a buzzword. From grassroots initiatives to national regulations and global investments, it has become a priority for stakeholders all over the world.

Whether your goal is compliance, savings, carbon neutrality, or tenants and investors, sustainability can also become a competitive advantage – when you have a way to turn data into strategy.

SUSTAINABILITY SHOULD BE PRAGMATIC

Energy experts advise that "you can't manage what you don't measure." But that should have a corollary: When something is hard to measure, it's hard to dedicate time to it, and to know whether it's been done correctly. When the data you need is hard to understand, tedious to get from disparate silos, and time-consuming to consolidate, it's difficult to even know where to start.

Yet sustainability shouldn't feel like "energy forensics" – which is why we've developed Honeywell Carbon & Energy Management.

ENERGY & EMISSIONS MANAGEMENT, MADE SIMPLER

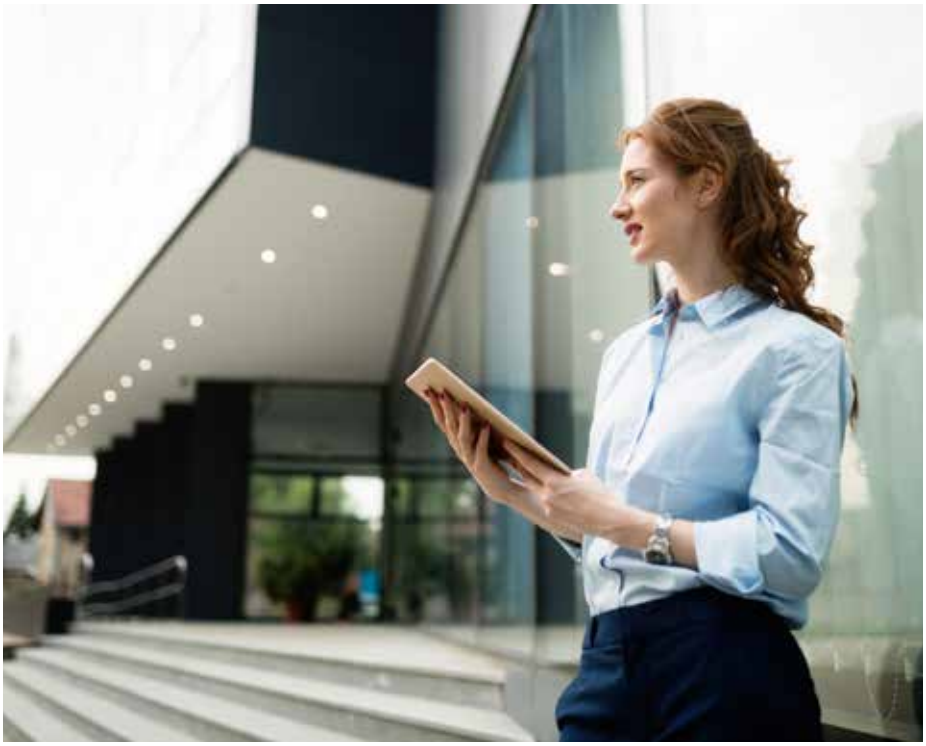
As part of our Honeywell Forge platform for data, analytics, and Internet of Things (IoT) capabilities, Carbon & Energy Management is a cloud-based service to help you optimize energy use and carbon emissions (Scope 1 and 2) – and ultimately, achieve sustainability throughout your enterprise.

The system uses smart meters, sensors, and utility data to segment your actual consumption and energy emissions by type of utility. Then it analyzes that data alongside factors like occupancy, weather, and real-time utility rates.

VISUALIZE YOUR DATA TO SEE RESULTS

The system's analysis is delivered to you in a dashboard that translates your data into clear visuals of your key performance indicators (KPIs). These include energy use and carbon footprint by building, with the ability to drill down to finer levels of detail, all the way to analysis of individual pieces of building equipment.

In short, Carbon & Energy Management ends the hassles of accessing and analyzing energy data so you can focus on managing it – and that's merely where we start.



"Buildings are responsible for **37% of global carbon emissions**"[1]

1. World Economic Forum, in collaboration with Accenture. "Accelerating the Decarbonization of Buildings: The Net-Zero Carbon Cities Building Value Framework," Jan. 2022. Accessed 04 April 2022: https://www3.weforum.org/docs/WEF_Accelerating_the_Decarbonization_of_Buildings_2022.pdf

YOUR PATH TO SUSTAINABILITY

We'll help you understand and improve your carbon and energy footprint, each step of the way

1. ASSESS

Get a baseline: Track energy-use intensity (EUI) + carbon emissions for each building

2. VISUALIZE

Use trends and real-time data to prioritize your most cost-effective ways to save

3. OPTIMIZE

Machine learning dynamically finetunes daily efficiency while preserving comfort

4. DECARBONIZE

Off-grid capabilities lower your operating costs and build resilience to disruptions

5. CARBON NEUTRALITY

Lean, flexible operations give you an edge and help make you a model for your community

MODULAR, SCALABLE, AND OPEN

You don't need on-site IT expertise to run it. Honeywell Carbon & Energy Management includes everything you need, from software and sensors to integration, setup, and strategic consulting.

And as a cloud-based system, it's easy to add or remove capabilities and sites – even other services from the Honeywell Forge ecosystem, such as Honeywell Air Quality Optimization, which is our corresponding service for understanding and optimizing indoor air quality for the health of your occupants.

"Buildings account for about **76% of electricity use**"[2]

2. U.S. Department of Energy. "Chapter 5: Increasing Efficiency of Building Systems and Technologies," Quadrennial Technology Review, Sept. 2015. Accessed 04 April 2022: https://www.energy.gov/sites/prod/files/2017/03/f34/qtr-2015-chapter5.pdf

CONTROL, REDUCE, AND OPTIMIZE CARBON AND ENERGY USE

Compliance and reporting

- Track energy use, Scope 1 and Scope 2 energy emissions,[3] and other KPIs
- Document results for compliance and internal benchmarking
- Validate the effectiveness of pilot initiatives and energy conservation measures

Visual analytics

- View, filter, and benchmark custom KPIs such as energy use and carbon emissions
- See analysis at multiple levels across your portfolio, from buildings down to individual assets
- Visualize KPIs in real-time, and as trends and forecasts

Utility bill management

- The system automatically collects and analyzes utility bill data
- Integrates directly with utility companies all over the world
- Also enables tenant billing and reporting at multi-tenant sites

Continuous equipment optimization

- Monitoring-based commissioning frees you from the costly limitations of retro-commissioning: Ongoing analysis enables continuous equipment "tuning" based on actual performance
- Helps buildings achieve dual goals of maintaining healthier spaces and greater energy efficiency

Open integration and data collection

- Data from smart meters, sensors, building management system, and utility companies gives a comprehensive view
- Flexible, open integration with virtually any building systems and equipment via open standards (BACnet™ and Modbus®)

Adapts to multiple users and needs

- Can support or inform multiple roles across your organization
- Facility Manager, Energy Manager, VP of Engineering, CSO, CEO, investors

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

THE NAME BUILDINGS TRUST

From government campuses and military installations to enterprises that cross continents, and some of the world's most iconic buildings, we've spent decades helping clients optimize energy use and achieve sustainable results.

How? Because we've established expertise in each part of the job – from developing the software and equipment, to integrating open systems, and engineering the performance that a complex site depends on to get results.

Turn sustainability into your competitive edge
Honeywell Carbon & Energy Management
hwll.co/SustainableBuildings

THE FUTURE IS WHAT WE MAKE IT

Honeywell

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