HONEYWELL FORGE

Sustainability+
for Buildings

INTEGRATE YOUR BUILDINGS INTO YOUR SUSTAINABILITY STRATEGY

Buildings can contribute significantly to driving your sustainability transformation

THE OPERATING SYSTEM FOR YOUR SUSTAINABILITY JOURNEY

Building owners and operators face competing priorities as occupants want safe, healthy spaces and operational cost control to meet the challenge of contributing to a more sustainable world. That's why we've created Honeywell Forge Sustainability+ for Buildings. We believe you can achieve all these goals – critical to successfully operating buildings from the site to enterprise level – through a single data and analytics-driven solution.

Honeywell Forge Sustainability+ for Buildings is an autonomous controls platform that helps manage the environmental impact of buildings without compromising operational outcomes. It can manage a buildings energy and carbon impact, orchestrate energy demand and supply, and optimize building loads including electric vehicle charging.

The scalable, system-agnostic platform is part of the Honeywell Forge for Buildings comprehensive approach to building systems operations and management, from a single site to an entire portfolio.

Designed to meet customers' needs, its advanced controls capabilities use artificial intelligence (AI) and machine

learning (ML) algorithms to monitor, control and optimize building energy and carbon use, forecast and reduce energy demand, and manage EV charging operations in a building ecosystem. It can also help support carbon reduction goals and help protect energy resilience.

CLIMATE GOALS
Reach and maintain carbon reduction goals, sustain and certify

DECARBONIZE
Use **power demand and supply optimization** to reduce costs, create resilience and meet carbon-neutral goals

MONITOR
Visualize energy, scope 1 and 2 carbon emissions.

OPTIMIZE
Leverage AI/ML for efficiency at a system level to **optimize building operations and experience**

CONTROL
Deploy system-agnostic, **real-time visibility with advanced controls**

How is your sustainability journey progressing?

BEYOND ENERGY DATA:
CONTROL OF YOUR SUSTAINABILITY STRATEGY

Sustainability is not a buzzword. It's a priority for many stakeholders around the world.

According to the United Nations Environment Programme (UNEP), the buildings and construction sector accounted for around 37% of energy- and process-related carbon dioxide (CO_2) emissions and more than 34% of energy demand globally in 2021.[1]

Integrating your building into your sustainability strategy is critical for success. Whether your goal is compliance, savings, carbon reduction or increased return on investment, sustainability can be a competitive advantage when you have a way to turn siloed energy data into a strategy. Honeywell Forge Sustainability+ for Buildings goes beyond identifying outliers and opportunities within a building portfolio and enables users to take the actions needed to correct or stay on course. The solution's advanced control capabilities enable customers to adjust building systems – either manually or autonomously – to manage energy use, manage costs and improve resilience.

CAPABILITIES
THAT BUILD AND SCALE

Buildings aren't static structures. The demands on them, how people use them and the regulations impacting them can change frequently. Managing one building can be hard. Managing multiple buildings can be a monumental task.
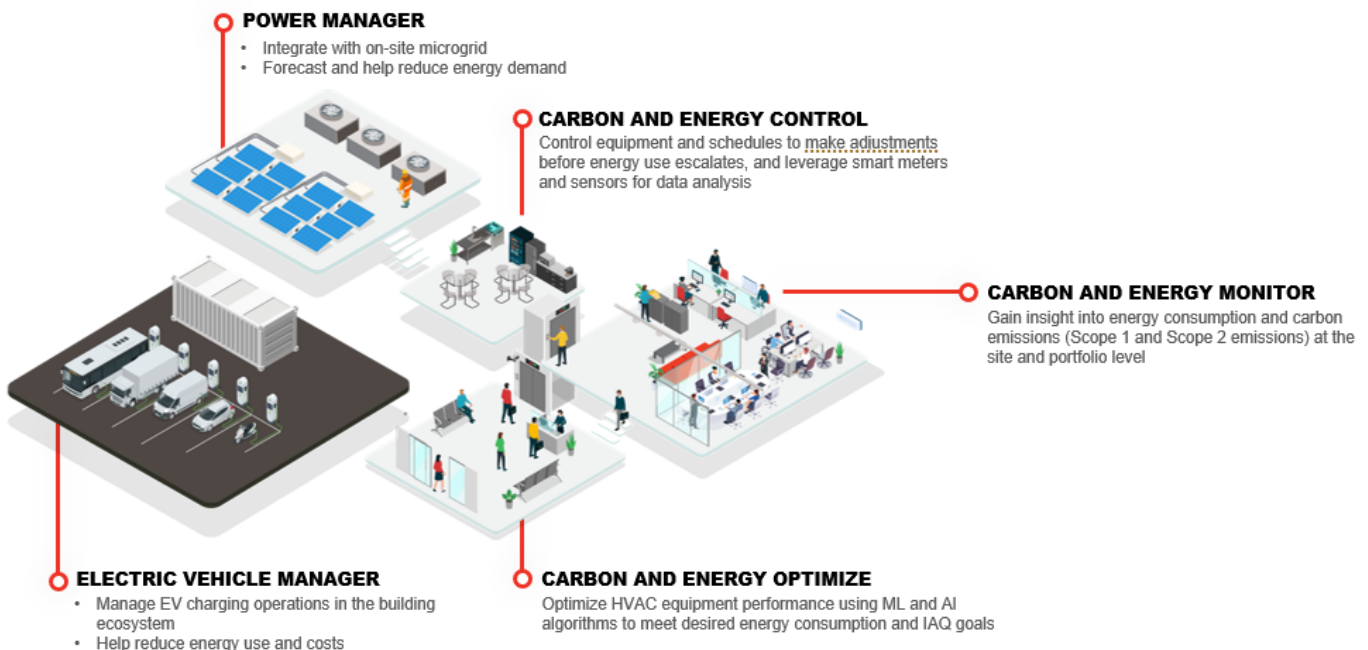
Honeywell Forge Sustainability+ for Buildings is designed to help make managing these demands easier. The solution's packages build upon one another so that you have the flexibility to manage your sustainability journey at your own pace, no matter where you're starting.

1. United Nations Environment Programme (UNEP), 2022 Global Status Report for Buildings and Construction. (Accessed 6 December 2022.)

FLEXIBLE SOLUTIONS
TO MEET YOUR NEEDS

Honeywell Forge Sustainability+ for Buildings can help you achieve complex goals. The platform sits on top of your building management system (BMS) to help you achieve your sustainability goals while avoiding unnecessary tradeoffs. The BMS-agnostic system can provide value to a building with flexible customizable packages that meet you where you are in your journey. The cloud-based subscription includes everything you need from software and sensors to integration, consulting and ongoing service. Simply pay for the services you need from your building's operating budget.

Honeywell Forge Sustainability+ for Buildings ends the hassle of accessing and analyzing siloed energy and carbon data. It enables you to manage and control that information. Let's learn how you can monitor, control and even optimize your building's performance to manage energy consumption and carbon impact.

POWER MANAGER
- Integrate with on-site microgrid
- Forecast and help reduce energy demand

CARBON AND ENERGY CONTROL
Control equipment and schedules to make adjustments before energy use escalates, and leverage smart meters and sensors for data analysis

CARBON AND ENERGY MONITOR
Gain insight into energy consumption and carbon emissions (Scope 1 and Scope 2 emissions) at the site and portfolio level

ELECTRIC VEHICLE MANAGER
- Manage EV charging operations in the building ecosystem
- Help reduce energy use and costs

CARBON AND ENERGY OPTIMIZE
Optimize HVAC equipment performance using ML and AI algorithms to meet desired energy consumption and IAQ goals

SOLUTION PACKAGES

CARBON AND ENERGY MONITOR

- Tracks energy use, scope 1 and scope 2 emissions and key performance indicators (KPIs)
- Enables Energy Star® integration for benchmarking sites and helps improve Energy Star® score
- Manages utility bills and bill analysis for greater insight into costs incurred and how to avoid in the future
- Features standard reporting capability providing a detailed overview of building or building portfolio

CARBON AND ENERGY CONTROL

- Integrates with any BMS to manage alarms and alerts, monitor points, adjust schedules and proactively control your building
- Monitors live meter data for CO_2 emissions, energy and utilities
- Includes alarm console to easily manage critical assets and KPIs with easy configuration of energy related alerts
- Tracks multiple indoor air quality measures and helps building operators and occupants understand IAQ through KPI dashboard
- Enables non-intrusive-load-management, providing a simpler way to break down energy consumption to equipment level, for control and optimization

CARBON AND ENERGY OPTIMIZE

- Improves HVAC energy use, both airside and waterside
- Optimizes energy-intensive assets such as chillers, boilers, fans, water source heat pumps, air-handling units, condensers, lighting and more
- Reduces need for manual intervention
- Extends asset performance and lifecycle through continuous optimization
- Helps buildings achieve WELL certifications or ratings from the International Well Building Institute

POWER MANAGER

- Helps reduce hidden charges from energy services and orchestrates energy across both supply and demand side
- Tracks and analyzes carbon emissions by asset and reduces use of conventional fuel generation with renewables
- Improves return on investment by increasing revenue streams with market participation in demand response programs and Virtual Power Plants
- Uses cleaner sources of alternate power to provide backup power along with remote monitoring

ELECTRIC VEHICLE MANAGER

- Monitors and controls carbon and energy footprint across all assets including EV and renewable DERs
- Reduces utility charges via load and ToU (Time-of-Use) management
- Enables uptime and performance
- Reduces the need to invest in on-site power for managing EV loads with a scalable solution
- Manages utilization, access and time of use for EV charging stations

Transform sustainability goals into action

hwll.co/SustainableBuildings

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