INTEGRATE YOUR BUILDING
INTO YOUR SUSTAINABILITY STRATEGY

Buildings can contribute significantly to driving your sustainability transformation

Honeywell Buildings
Sustainability Manager

Honeywell

BUILDING HEALTH OR EFFICIENCY?
CHOOSE BOTH

Building owners and operators face a dilemma: How to make their buildings more sustainable while providing a more people-centric environment in a cost-effective way.
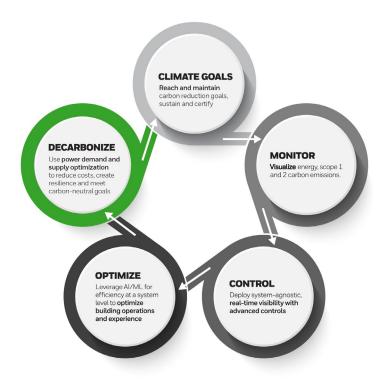
Achieving just one of these objectives – which are often in conflict with each other – is daunting enough. Addressing all three at once may seem impossible. That's why we've developed Honeywell Buildings Sustainability Manager powered by Honeywell Forge.

THE OPERATING SYSTEM FOR YOUR BUILDING'S SUSTAINABILITY JOURNEY

Honeywell Buildings Sustainability Manager powered by Honeywell Forge is a ready-now autonomous controls platform with a suite of applications to help customers address two pressing yet often conflicting objectives: optimizing indoor air quality and reducing the environmental impact of buildings with the aim of improving carbon-reduction goals.

The scalable, system-agnostic platform leverages the Honeywell Forge enterprise performance-management software's artificial intelligence (AI) and machine learning (ML) algorithms to help customers meet their sustainability goals.

THE PATH TO SUSTAINABILTY IS A CONTINUOUS JOURNEY, NOT A DESTINATION

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

MONITOR
Visualize energy, scope 1 and 2 carbon emissions.

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

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**

BEYOND ENERGY DATA: CONTROL OF YOUR SUSTAINABILITY STRATEGY

Sustainability is not a buzzword. It's now 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.

It's important to not just have data but to be able to leverage it to drive outcomes. The Honeywell Buildings Sustainability Manager goes beyond identifying abnormalities and opportunities to enable users to take the actions needed to correct or stay on course. The platform's advanced control capabilities enable customers to adjust building systems – either manually or autonomously – to reduce energy use and carbon emissions.

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

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.

The Honeywell Buildings Sustainability Manager is designed to make managing these demands easier. The platform's applications 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.

TURN A PARADOX INTO YOUR COMPETITIVE EDGE

Looking beyond sustainability goals, building occupants also expect healthier spaces, with an emphasis on indoor air quality.

These don't have to be competing priorities but can become complementary goals with the right strategy. Working to create a more sustainable and healthier building or portfolio can be a competitive advantage to attract investors and tenants while managing operational costs and environmental impact.

AN ECOSYSTEM OF INTELLIGENT APPLICATIONS

The Honeywell Buildings Sustainability Manager can help you achieve complex goals. It can help reduce energy consumption and scope 1 and 2 carbon emissions[2] and manage energy costs without compromising occupant comfort.

The platform and its suite of applications sit 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 any building with flexible customizable subscription levels that meet you where you are in your journey.

2. 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).

HONEYWELL BUILDINGS SUSTAINABILITY MANAGER SUITE OF APPLICATIONS

Honeywell Carbon and Energy Management

Carbon and Energy Management ends the hassle of accessing and analyzing siloed energy and carbon data. It enables you to manage and control that data.

This application deciphers how your building uses energy while providing a clear analysis of energy and carbon emissions (scope 1 and 2) at the asset, site and portfolio levels. The application uses smart meters, sensors and utility data to segment actual consumption and energy emissions by type of utility. It then analyzes that data alongside factors like weather, occupancy and utility rates to provide insight into building performance.

The application doesn't just monitor performance. It also features advanced control capabilities with real-time insights into the HVAC system, which enables control of equipment and schedules. This means you can adjust your HVAC performance before an increase in energy consumption, service costs or equipment deterioration.

- Tracks energy use, scope 1 and scope 2 emissions and key performance indicators (KPIs)
- Adjusts energy baseline for weather and occupancy
- Integrates with any BMS to manage alarms and alerts, monitor points, adjust schedules and proactively control your building
- Features reporting that complies with Energy Star® certification
- Monitors live meter data for CO_2 emissions, energy and utilities
- Prioritizes the most cost-effective ways to save
- Manages utility bills and tenant billing
- Includes alarm console to easily manage critical assets and KPIs

Honeywell Intelligent Building Optimization

Intelligent Building Optimization eliminates the need to choose between meeting sustainability goals or creating an optimal indoor environment. It enables you to do both.

The application collects and analyzes real-time sensor data on occupancy, activity levels and indoor air quality (IAQ) parameters along with weather conditions, temperature, humidity and pollution levels, and then it optimizes the HVAC system to reach the desired outcome.

- Uses machine learning (ML) and artificial intelligence (AI) algorithms to analyze historical and real-time weather data, HVAC data and IAQ parameters, and then autonomously adjusts systems to meet desired parameters
- Improves HVAC energy use, both airside and waterside
- Optimizes energy-intensive assets such as chillers, boilers, fans, pumps, air-handling units, lighting and more
- Reduces the need for manual intervention
- Extends asset performance and lifecycle

Healthy Buildings

A healthy building goes beyond energy efficiency to enhance the well-being, productivity and experience of its occupants.

This application incorporates data from multi-parameter sensors, as well as filtration, air cleaning and ventilation technologies and strategies, to focus on an optimal indoor environment.

- Helps building operators and occupants understand indoor air quality with an easy-to-use KPI dashboard that can provide reassurance on building health
- Tracks multiple indoor air quality measures, including temperature, relative humidity, carbon dioxide (CO_2), fine particulate matter (PM2.5) and volatile organic compounds (VOCs)
- Provides third-party-verified IAQ assessment from UL and SafeTraces
- Provides Honeywell Healthy Buildings site score to support prioritization within your portfolio

Smart Power*

Extreme weather events triggered by climate change are predicted to have an increasing impact on our cities and communities – potentially leading to energy shortages and grid instability. The need to prepare for the unexpected is more pressing than ever. Resilience helps improve business continuity. It can also help you achieve sustainability goals and create operational savings.

Honeywell Smart Power for Buildings helps create energy resilience by monitoring the status and availability of each load and each power generation asset.
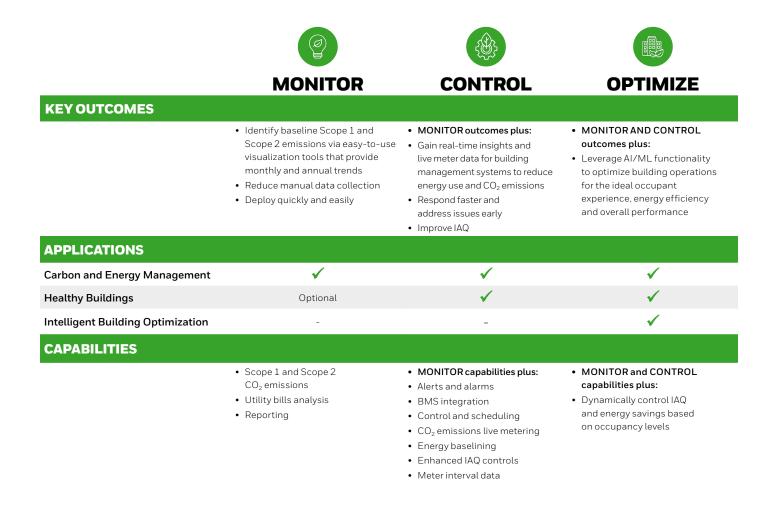
- Integrates supply and demand beyond the grid
- Adapts in real time
- Uses AI analytics and automation

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* Launching 2023

FLEXIBLE PACKAGES TO MEET YOUR NEEDS

Honeywell Buildings Sustainability Manager is a cloud-based subscription that 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.

Depending on the package you select, you can monitor, control and even optimize your building's performance to help reduce energy consumption and carbon impact.

	MONITOR	CONTROL	OPTIMIZE
KEY OUTCOMES			
	• Identify baseline Scope 1 and Scope 2 emissions via easy-to-use visualization tools that provide monthly and annual trends • Reduce manual data collection • Deploy quickly and easily	• **MONITOR outcomes plus:** • Gain real-time insights and live meter data for building management systems to reduce energy use and CO_2 emissions • Respond faster and address issues early • Improve IAQ	• **MONITOR AND CONTROL outcomes plus:** • Leverage AI/ML functionality to optimize building operations for the ideal occupant experience, energy efficiency and overall performance
APPLICATIONS			
Carbon and Energy Management	✓	✓	✓
Healthy Buildings	Optional	✓	✓
Intelligent Building Optimization	-	–	✓
CAPABILITIES			
	• Scope 1 and Scope 2 CO_2 emissions • Utility bills analysis • Reporting	• **MONITOR capabilities plus:** • Alerts and alarms • BMS integration • Control and scheduling • CO_2 emissions live metering • Energy baselining • Enhanced IAQ controls • Meter interval data	• **MONITOR and CONTROL capabilities plus:** • Dynamically control IAQ and energy savings based on occupancy levels

Integrate your building into your sustainability strategy

Honeywell Buildings Sustainability Manager

hwll.co/SustainableBuildings

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