



The simplest way to a smart building

ABB Ability™

Building Ecosystem (BE)

Taking the first step towards a smart building doesn't need to be complex or expensive.

ABB Ability™ Building Ecosystem makes the journey simple by bringing together affordable, intuitive solutions that can be further developed through open APIs and valuable partnerships to give you total visibility across systems for better decision-making.

Easy to use and understand, our intelligent digital solutions provide meaningful data that you can analyze and respond to in real-time. This helps you to reduce energy use, lower operational expenses, and track sustainability targets without sacrificing occupant comfort.

Smart buildings are the future

Smart building technology is no longer the domain of mega towers and corporate giant headquarters. ABB is committed to making the powerful advances offered by these digital solutions accessible to owners of buildings of any scale, large or small.

Core building systems, and the seamless automation of a building's electrical and mechanical infrastructure, are where we've forged our reputation worldwide. And it's our ABB Ability™ technology that forms the cornerstone of our Smart Buildings product and services offering.

“In the United States, buildings consume 41% of the nation's total energy use through lighting, HVAC, elevators, and the countless items plugged into sockets.”

Harvard Business Review. “Old Buildings are U.S. Cities' Biggest Sustainability Challenge.” 2016

ABB Ability™ Building Ecosystem helps to revolutionize the way data is used and transforms building management. Not just through greater energy efficiency and increased security, but also improved comfort and safety for occupants – with remote monitoring.



Deep insights

into the real-time performance of assets for decision-making.



Occupant comfort

Monitor and optimize parameters to improve conditions for occupants.



Optimize

Connect building systems to optimize operations and building performance.



Net-zero targets

A few steps closer to your targets.



ABB Ability™ Building Ecosystem

The simplest way to a smart building

ABB Ability™ Building Ecosystem is a holistic suite of solutions that you can access easily via one unified portal online.

ABB digital solutions are easy to integrate as they're fully compatible with your existing open system infrastructure, helping you to break down building system silos. The solutions run on simple hardware – the Building Edge – and are powered by ABB's own open Building Operating System (openBOS).

Scalable and adaptable to your future needs, the modular nature of ABB Ability™ Building Ecosystem gives you the flexibility to choose what you'd like to use and only pay for the solutions that are applicable to your needs as they evolve.

Introducing...

BE Sustainable with Active Energy

Measure and manage utility consumption, set emissions' reduction targets, analyze data, and report on ESG Goals in real time.

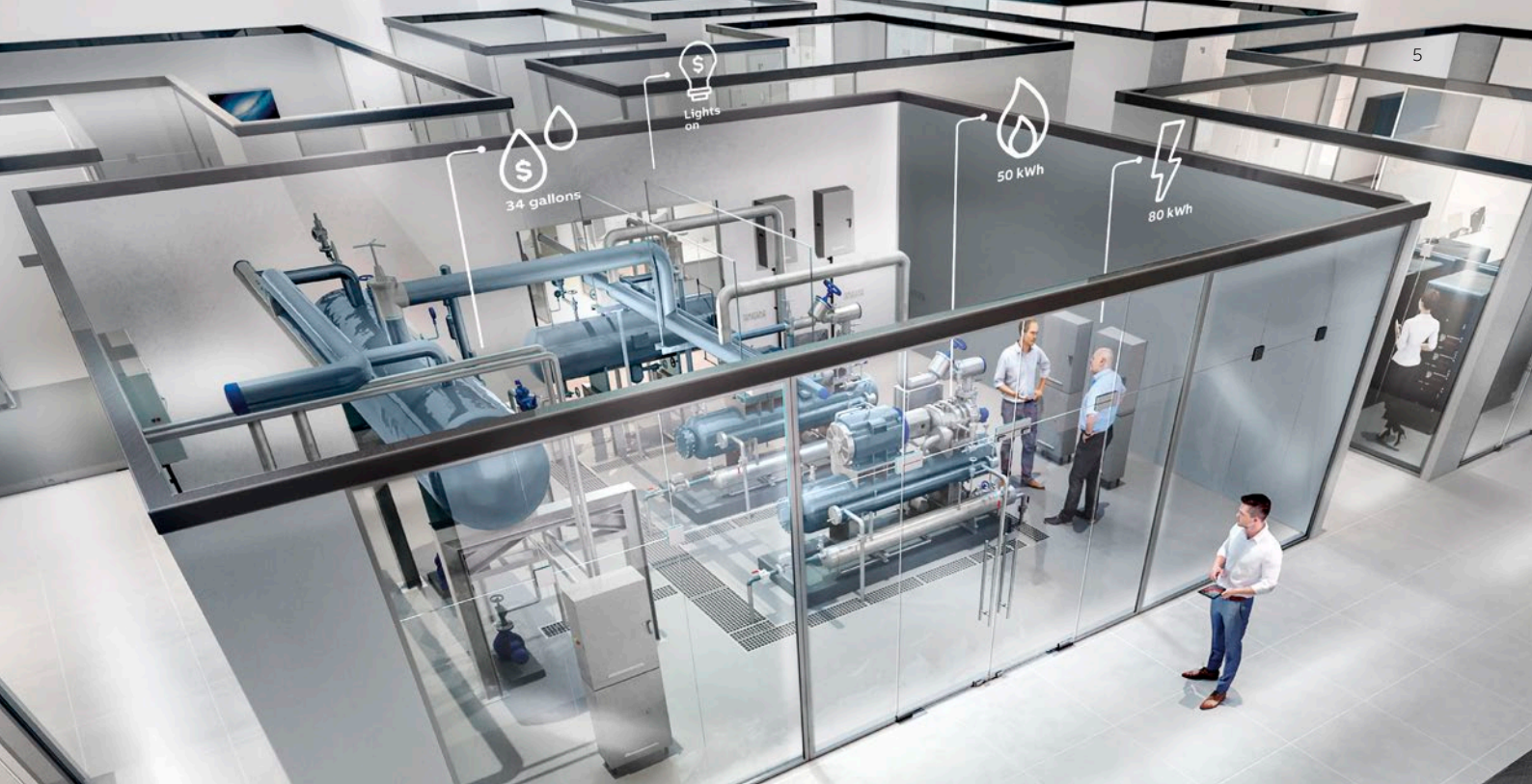
BE Sustainable with Efficiency AI

Drive autonomously building's HVAC system, add prediction and AI to the sustainability toolkit for added cost and energy savings.

BE Partners

Expand your ABB solution with a partner solution.





BE Sustainable with Active Energy

The simplest way to improve energy efficiency

Active Energy is an energy management solution that makes it possible for you to measure and identify utility usage (electricity, water, gas and more) in real-time.

It's estimated that this solution could help reduce your building's energy consumption and emissions by up to 20%.

Instead of relying on utility bills to tell you how much energy you've used at the end of each month, Active Energy provides real-time data. Now you can make better decisions on how to improve your building's energy usage, reduce costs and emissions proactively by analyzing the performance of your building.

Active Energy can help you to meet your corporate sustainability goals. All of the metrics you need to prove efficient operation and obtain certification levels that comply with legislation and industry standards are already part of the solution.

It's also a tool that can be tailored to meet your specific business operation and keep track of your Key Performance Indicators (KPIs).



Data analytics

Automate data analysis with our data normalization, alarming, and reporting features.



Sustainability targets

Set sustainability targets & get alerts in real time.



User-friendly

An intuitive digital interface that's easy to learn, use and install.



BE Sustainable with Efficiency AI

powered by BrainBox AI®

The simplest way to optimize energy consumption in your building.


ABB Ability™ BE Sustainable with Efficiency AI uses Artificial Intelligence (AI) to proactively optimize building HVAC systems to achieve remarkable cost savings and emission reductions, while improving occupant comfort.

The AI solution gives building owners and operators real-time data and autonomous technology that help reduce building carbon footprints by up to 40%, supporting net zero and cost reduction goals.


Efficiency AI uses existing data from building systems, establishing thermodynamic behavior patterns based on advanced deep learning models. These patterns inform autonomous decisions that transform HVAC systems from reactive to pre-emptive or “self-driving,” eliminating the need for human input, eliminating energy waste, and extending equipment service life. With no retrofitting or additional sensors required, Efficiency AI delivers a strong ROI in cost savings and improves the ESG (Environmental, Social and Governance) score.

 **Up to 40% reduction in carbon footprint.**

Drive autonomously the building's HVAC system to use the least energy and decrease emissions.

 **Up to 25% reduction in HVAC energy costs.**

Lower HVAC bills and operating costs and improve building's EUI (Energy Use Intensity).

 **Up to 50% extension of equipment service life.**

Reduce equipment runtime, maintenance costs, unplanned downtime.

 **Up to 60% improvement in occupant comfort.**

Reduce energy consumption without compromising on comfort by maintaining HVAC set points.

BE Partners

The simplest way to boost the digital transformation of your building.

BE Partners is a program designed to offer solution providers in the commercial building sector the opportunity to join the ABB Ability™ Building Ecosystem.

With the goal of creating end-to-end solutions for the ABB Ability™ Building Ecosystem, the new BE Partners program represents a step-change in the way ABB drives digital transformation and decarbonization of the commercial building sector.

BE Partners program gives you the opportunity to expand your ABB solution with a partner's solution built upon the OpenBOS offering, our end-to-end building operating system.

The partner program further expands the ABB Building Ecosystem's breath of offering, while breaking down the silos within building systems. It gives you more options, supporting you in the adoption of different solutions that lower costs and positively impact the environment.



Existing Ecosystem

Take advantage of the powerful and versatile ABB Ability™ Building Ecosystem.



Connecting Partners

Powered by openBOS, BE Partners connects a wide variety of trusted solutions to deliver incremental value – all under one roof.



Strong Partner

Benefit from ABB's scale, reach and global sales force and support teams.



Domain expertise

Leverage ABB's know-how of the commercial buildings' domain and energy efficiency leadership.





—
ABB Ltd.

buildings.ability.abb

