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# Energy Management

## Artificial Intelligence Package

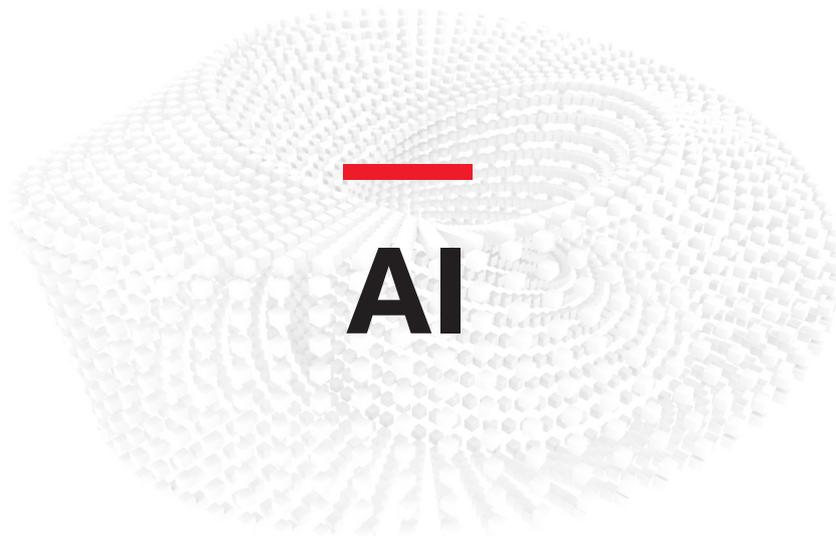


ABB Artificial Intelligence (AI) Package for Energy Management is the innovative service dedicated to energy efficiency in the Commercial and Industrial Buildings segment.

### Overview

This ground-breaking application, based on Artificial Intelligence and Machine learning algorithms, turns data into actionable insights and provides it to ABB's final customers – Owners, Facility managers, Energy Managers – new real-time and predictive capabilities to optimize energy demand, reduce energy costs and enable a dynamic operating paradigm for buildings.

The AI Package for Energy Management is the result provided by ABB and it is powered by Verdigris Technologies, a Startup Company based in Silicon Valley, part of ABB Ecosystem of trusted partners.

This innovative solution is comprised of two applications Energy forecasting and Intelligent Alert, together they bring new value to ABB's customers, helping them to reduce energy consumption and to better manage their critical assets. ABB integrating artificial intelligence in its offering is delivering the next generation of abilities to its customers; AI unlocks a chain of opportunity to provide advanced services.

Forecasting and intelligent alerts are predictive and real-time tools that enable cost benefits and drive hard ROI for value-added services. Better decisions can be made through automation and digitization.

### Value proposition



Reduce energy costs



Optimize energy demand



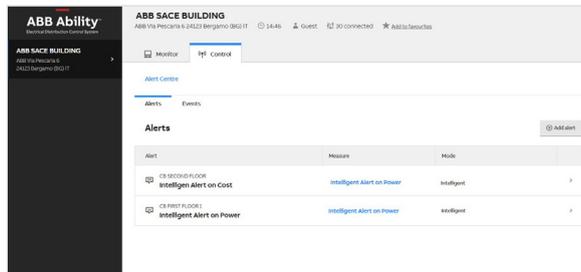
Optimized critical asset management

### Intelligent Alert

Intelligent Alerts continuously learns your building and equipment “normal” states. Intelligent alerts are adaptive setpoints. It warns you when something unexpected happens, such as failing equipment or abnormal usage.

No more hassle of setting manual setpoints or alarms which requires throughout understanding of the both electrical system’s and equipment’s normal status. This capability helps customers overcome notification overload. The patented technology cost-effectively collects and analyzes 8,000+ data points per second in order to build a model of the building’s energy usage.

For both local and remote teams, Intelligent Alert empowers operators to act with confidence when something unexpected happens in the building or equipment operations.



### Energy forecast

Verdigris energy forecast is a recurrent neural network that understands patterns of energy consumption in your circuits and buildings. Verdigris forecasting uses weather, short term and long-term power trends and other data to create forecasts.

The rolling forecast updates every 15 minutes and forecasts forward the next 24 hours at 15-minute intervals. Forecasting enables business intelligence, energy demand management, and custom applications for commercial and industrial (C&I).

Energy forecast learns from a building’s energy usage and weather to deliver highly accurate forecasts. It works with commercial and industrial buildings of all types.

Energy forecast provides the trusted tools to reduce peak demand charges on electricity bills.



### Marketplace info

Both services are available as an add-on for ABB Ability EDCS Predictive and Standard Access subscriptions.

The new services add intelligence to users’ plant without having to upgrade hardware if they already have a ABB Ability EDCS subscription on their site.

The services will be sold in both EU and US Marketplaces under EDCS Predictive and Standard Access subscriptions. Users can subscribe for free trial of three months for both of the new services.

<https://eu.marketplace.ability.abb>  
<https://us.marketplace.ability.abb>

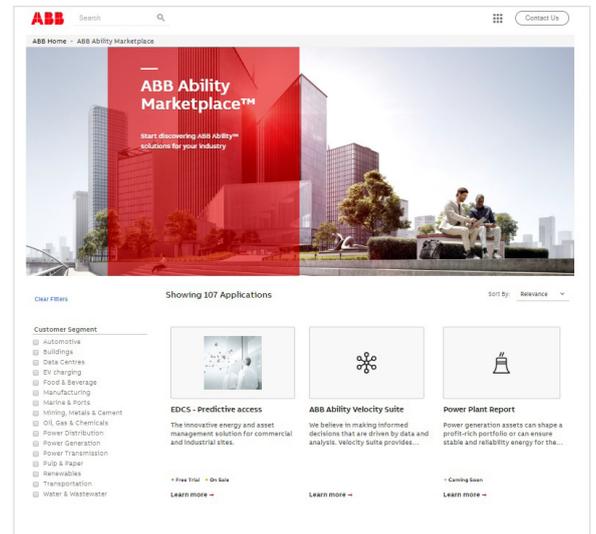


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