



**"iBOS Energy uses AI and smart forecasting to reduce HVAC energy costs by up to 40%, without sacrificing comfort."**

## What is iBOS energy?

iBOS energy® is the energy management software that provides change today and impacts tomorrow. iBOS energy® optimizes your HVAC-systems 24/7 through intelligent control and adaptive energy management and provides comprehensive and actionable information on all your buildings. Harnessing the power of predictive weather, indoor temperature, and thermal mass of the building, the intelligence in iBOS energy® updates the existing HVACsystems with new parameters and settings to continuously optimize operations and achieve energy savings while optimizing the indoor climate.

## Key benefits of iBOS Energy

**Environmental Impact:** i makes your business take proactive steps toward environmental responsibility by reducing your carbon footprint and promoting sustainable energy practices.

**Tenant Satisfaction:** Enhance the comfort and satisfaction of your tenants with iBOS energy®. Our software ensures optimized heating, ventilation, and air conditioning, creating a positive environment that fosters satisfaction and retention.

**Cost savings:** iBOS energy® uses AI to optimize the HVAC-systems in each individual building with its own thermal storage and specifics 24/7, reducing energy waste and ensuring lower utility bills. By maximizing efficiency, you will see significant savings that directly impact your bottom line and reduce CO2 emissions.

**Real-time analysis:** iBOS energy® offers a comprehensive 24/7 online dashboard to help analyze the efficiency in your building and review historical data. An advanced analysis tool for enhanced monitoring enables you to track savings made and identify further important trends.

**Alarms when needed:** iBOS energy® includes energy alarms to alert users to issues

and ensure that problems can be resolved quickly.

**Fewer disruptions:** iBOS energy® identifies imbalances, system imperfections, and flaws in connected heating, ventilation, and cooling systems. The full BMS overview ensures settings and actions consider the impact on all systems in the building, thereby removing disruptions caused by conflicting settings on individual systems.

**Future proof:** iBOS energy® integrates well with IoT sensors, providing additional information on, e.g., occupation, utilization, or other information affecting the indoor climate needs. The open architecture ensures that future innovations can be incorporated and used for further optimization and value creation.

**It's all about the Balance:** Your facility's thermal storage and adaptive modeling allow iBOS energy® to store and release energy intelligently over time. Using weather forecasts, IoT data, and your building's unique capacity for thermal mass, iBOS energy® predicts and plans what your building needs and exactly when it needs it.

As iBOS energy® minimizes energy consumption it helps you meet the EU's climate targets on greenhouse gas emissions. With iBOS energy®, energy consumption has been significantly reduced across a broad installation base in the Nordics, EU, and Canada, contributing to environmental sustainability efforts with average savings of 15-25%.

## How it works:

iBOS energy® optimizes your HVAC-systems through intelligent control and adaptive energy management to provide you with comprehensive and actionable insights. From identifying and rectifying system inefficiencies to improving indoor comfort, iBOS energy® is designed to increase sustainability, reduce CO2 emissions, and minimize cost.

In real-time, the iBOS energy® collects and processes multiple factors like predictive weather, indoor climate, and the thermal mass of the building. Based on the comprehensive data collected, the intelligence in iBOS energy® updates the Building Management System (BMS) that controls the HVAC-Systems with new parameters and settings to continuously optimize the operation of the building.

iBOS energy® creates a coordinated control strategy of the various technical systems in a property to provide optimal energy savings within specified limits for the indoor climate. By continuously calculating the energy balance in the various zones of the property, the property's thermal mass can be utilized in the calculations of how each individual zone should be controlled with regards to HVACsystems.

Further, iBOS energy® ensures your systems never "step on the gas and brake simultaneously," e.g., heating and cooling at the same time, which is a common issue with traditional systems. This saves energy and creates a more consistent and pleasant indoor climate, avoiding large temperature fluctuations.

## Change today. Impact tomorrow.

Buildings account for about 40% of Europe's CO2 emissions. By using iBOS energy®, you make a change today that will have a significant impact tomorrow. Every building counts when we all work together to reduce CO2 emissions and continue to deliver against climate targets, and help protect the planet.