

## EOS™ Operational Benefits

*A comprehensive energy management solution*

EOS allows your operations team to take a holistic approach to cutting energy spend. Since the solution is for operational optimization and efficiency, it provides standardized cost reduction strategies that unify the whole organization.

Differences between buildings, teams, and locations disappear increasing overall comfort and compliance, while cutting costs.



### Optimize Comfort & Safety of Occupants

EOS ensures that space requirements are being met automatically. As a result there are fewer manual adjustments by building operations staff, and fewer occupant complaints (hot/cold calls).



### Create an Energy & Building Management Toolset with a Single Web Based Interface

Your engineers and operators can leverage the energy and building management toolset for better decision-making and tracking the results.



### Leverage Existing Technology / Operator Integration

Software-as-a-Service means all EOS enhancements and maintenance are centrally managed by SHIFT, so you always have the most updated functionality.



### Extend Asset Life & Improve Asset Management

By reducing equipment run-time and introducing leaner operations, EOS extends the life of current assets and equipment.



### Improve Fault Detection & Prevention

EOS predicts equipment failures before they happen, and even employs automated measures to rectify or avoid them when possible.



### Achieve Sustainability & Create Value

Realize sustainability goals as EOS reduces energy consumption and carbon emissions while adding money back into your budgets every year.

To know more about  
EOS™ or to see a demo:

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ENERGY OPTIMIZATION SYSTEM™

Intelligent  
Energy Management

# EOS™ Overview

Automating cost savings, increasing comfort

**SHIFT Energy's Energy Optimization System (EOS™)** was launched by a group of environmentally-minded software, electrical and mechanical engineers who saw the opportunity to reduce high energy use. Built on nearly ten years of research in collaboration with leading academic and engineering organizations, EOS applies Real-Time Machine-to-Machine Communications (Internet of Things), Cloud Computing, and Big Data technologies to **automate persistent energy and cost optimization.**



In addition to automating energy optimization, EOS has built-in analytics, measurement & verification, and fault detection tools to help operators manage their facilities better.

Specially designed for complex facilities, EOS returns significant savings within a targeted payback period of 6 to 18 months. The solution also adheres to building codes and strict environmental health and safety (EHS) standards like ASHRAE®.

With EOS, SHIFT's vision is to dramatically reduce the carbon footprint of hospitals, venues, higher education facilities and commercial buildings. SHIFT accomplishes this using the existing facilities' equipment. Utilizing advanced software EOS automates execution of recurring savings while always ensuring patient and staff comfort.

# How EOS™ Works

A new level of intelligent operations for buildings

EOS continuously harvests both external and internal data along with the current state of your building's energy ecosystem. The EOS Engine then uses all this data to build an optimized energy use plan, and drives it back through the building control system. This process repeats every minute of every hour of every day, continuously optimizing your facility.



# EOS™ Financial Benefits

Quantifiable results with minimal investment risk

Many other energy efficiency measures often require a large initial cost and create high exposure risk. EOS avoids those pitfalls instead by utilizing your existing infrastructure and actually automating the recommissioning of your buildings. This helps you realize substantial energy and cost savings year after year with minimal risk.



## Minimal Capital Expenditures

- EOS uses your existing infrastructure so no significant capital expenditure is needed.



## Payback & Strong Economics

- Leverage legacy infrastructure/ building asset investments to deliver more business value.
- Immediate positive return on investment.
- Reduce direct energy cost overall by 15-25%.



## Tax Efficient & Financially Advantageous

- Tax deductible operating expense through Software-as-a-Service.
- Potential tax incentives and utility rebates depending on jurisdiction.



## Monitor Utility Cost Savings & Related Greenhouse Gas Emissions

- EOS' savings persist over time resulting in a significant emissions reduction.
- This creates a foundation for carbon savings tracking across the organization.



## Project Risk Mitigation & Management

- Project is self-funded through shared risk model upon achieving cost saving milestones.
- Warranted performance of EOS ensures that you realize net savings every month.
- Results are measured by a third party using industry-accepted IPMVP standards.