

Tackling Carbon Footprints in Built Environments

Buildings and construction contribute nearly 40% of global carbon emissions, with the global floor area expected to double by 2060, intensifying the need for sustainable practices. With rising energy demands and the push for low-carbon alternatives, businesses are adopting smarter, data-driven energy management systems. These advanced digital platforms gather data from buildings, equipment, and sensors, offering actionable insights to optimize energy efficiency, reduce costs, and improve operations — all critical for maintaining competitiveness while reducing environmental impact.



Transforming Energy Management with Infosys EaaS

Infosys brings you EaaS, a comprehensive offering designed to enhance energy efficiency and help businesses transition to net zero. Using an Al-powered, cloud-enabled digital platform, we integrate data from your buildings, equipment, and sensors to optimize energy supply and demand for power, heat, cooling, and EV charging. Our intelligent platform leverages AI to provide actionable insights that improve performance, reduce costs, and maximize operational efficiency. Combined with renewable energy sources, low-carbon fuels, and decarbonized logistics, EaaS ensures a sustainable energy mix tailored to your needs. The offering enables you to unlock the pace of your net zero ambitions with EaaS for energy transition now.

Advancing Sustainability and Efficiency with AI-Powered Modules



Energy Mix

Transform how your business manages energy consumption and emissions with the EaaS Energy Dashboard. This powerful tool provides real-time insights into energy usage, costs, and carbon footprints, enabling data-driven decisions. With capabilities to forecast energy trends, it helps reduce costs and supports decarbonization.



Solar

Maximize the performance of your solar PV systems with the Solar Module from EaaS. This solution identifies and categorizes energy losses, uses Al/ML to detect soiling issues, and provides actionable insights for improvement. With energy and monetary loss estimations, it enhances return on investment while contributing to CO2 reduction.



Power Purchase Agreement (PPA)

Streamline your energy contract management with EaaS's PPA Module. Monitor energy contracts, track banked energy, and analyze slot-wise energy patterns for optimized operations. This module automates energy reconciliation, saving time and boosting efficiency with comprehensive summaries and <u>actionable insights.</u>



Demand and Consumption Analysis

Manage energy demand with the EaaS Demand and Consumption Analysis Module, offering a granular view of your energy landscape. Monitor demand utilization, analyze ToU slot-wise consumption, and identify off-business hour energy losses. With actionable insights, this module enables efficient energy usage, cost savings, and reduced emissions.



Demand Forecasting and Optimization

Predict energy demand with precision using the EaaS Demand Forecasting Module. Powered by AI and ML, this tool provides day-ahead and month-ahead demand forecasts, allowing businesses to optimize energy consumption strategies and shift loads smartly based on ToU charges to reduce peak-hour costs and boost resource efficiency.



Asset Energy Efficiency

Optimize the performance of your energy assets with the EaaS Asset Energy Efficiency Module. This digital platform detects persistent anomalies, reduces downtime, and enhances operational efficiency. By offering actionable recommendations and monitoring energy performance, it ensures cost savings and improved reliability.



Chiller Plant Optimization

Revolutionize your chiller plant operations with Al/ML-powered Chiller Plant Sequencing. This module uses predictive analytics and time-series forecasting to recommend optimal chiller combinations for maximum efficiency. With deeper insights into plant performance, this module enables customized strategies to suit specific consumption needs.

Driving Decarbonization at the Infosys Pune Campus

Infosys partnered with bp to co-develop an AI-powered energy management platform aimed at reducing emissions while optimizing energy supply and demand. Despite challenges like IoT integration and data handling obstacles, solutions such as seamless OT-IT integration and clear KPIs enabled us to rapidly achieve sustainability milestones with the EaaS platform. Through actionable insights, Infosys improved energy predictability, efficiency, and operational reliability, including a 60% increase in renewable energy use, a 20% tariff reduction, and a 10% decrease in energy consumption.

Unlocking Smarter Energy Management

EaaS offers a fully integrated, behindthe-meter solution for smart energy management, helping businesses save energy, cut costs, decarbonize, and ensure a reliable energy supply.

Key Benefits:



Reduce energy consumption by 25% to 30%.



- Optimize costs with improved usage strategies.
- Achieve 5% to 10% gains in energy and asset performance.

Slash CO2 emissions by 50% to 70%.

Get in touch with our experts today to learn how EaaS can revolutionize your energy consumption, optimize costs, and drive environmental sustainability.



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For more information, contact askus@infosys.com

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