ENERGY-AS-A-SERVICE (EAAS):

AI-powered Energy Management Solution to Drive Climate Action in Universities

Infosys®
Navigate your next

Decarbonizing Universities for a Sustainable Future

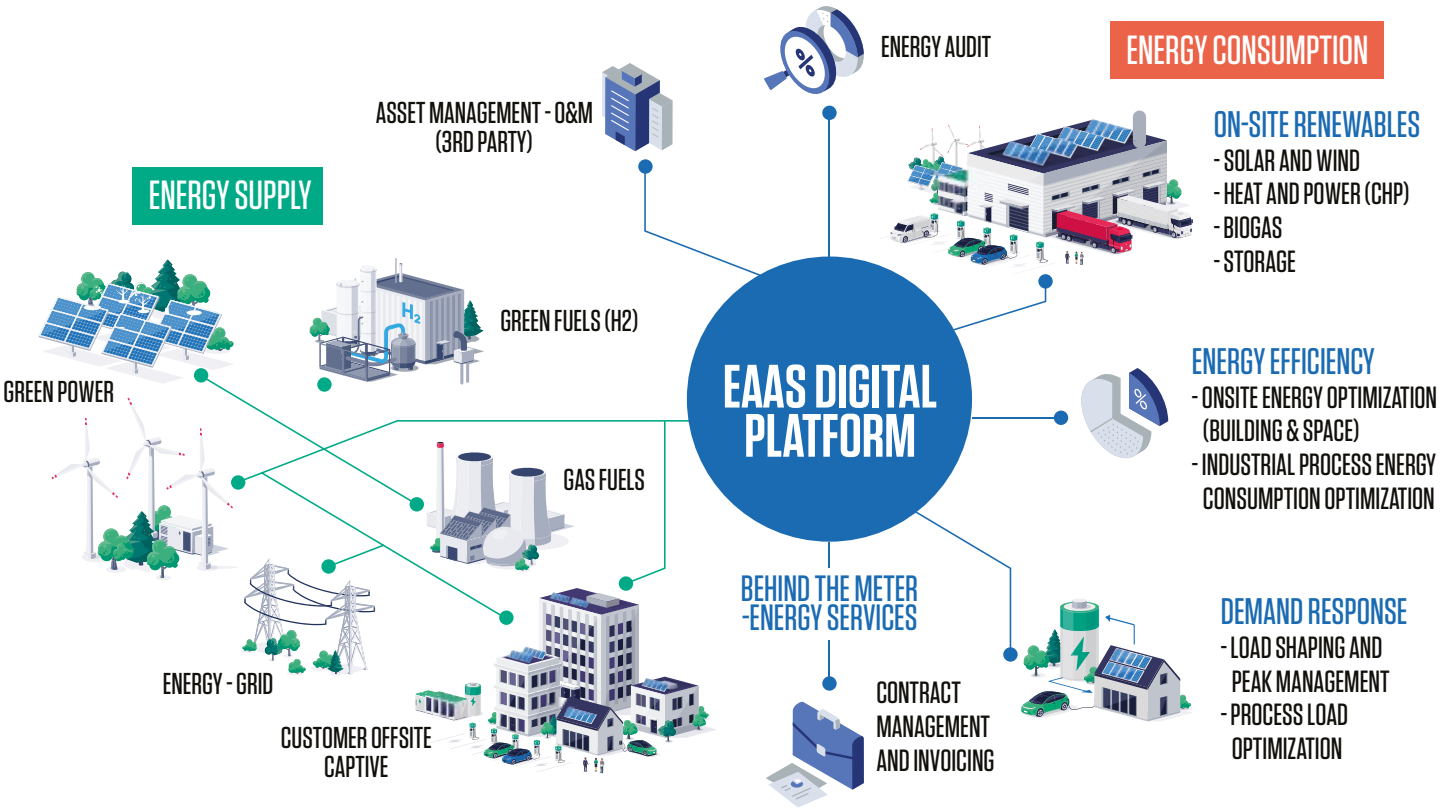
Studies show that universities can emit up to 1.0 metric ton of CO_2 per person annually, with campuses consuming over one-third of global energy. Heating and cooling account for 40% of campus energy, worsened by outdated systems and tight budgets.

To achieve net zero by 2050, over 1,000 universities are adopting renewables, advanced technologies, and electric vehicles. **Infosys' AI and IoT-powered Energy-as-a-Service** solution optimizes energy use, cuts costs by 5-30%, and reduces emissions, driving sustainability.

How Infosys' EaaS Can Help Unlock Energy Savings

Infosys, a global leader in digital services and consulting, is a carbon neutral company with decades of experience helping universities decarbonize their energy management.

Our EaaS solution provides a comprehensive approach for universities to optimize energy costs, improve efficiency, and reduce carbon emissions. It ensures a reliable energy supply through a combination of digital technologies and sustainable energy sources.



Revolutionizing University Campuses – EaaS as a Sustainability Partner

Infosys EaaS helps universities achieve sustainability by offering tailored green energy solutions. Our platform enables universities to reduce energy usage by 25-30%, improve energy generation by 5-10%, enhance asset efficiency by 5-10%, and cut CO_2 emissions by 50-70%. Successful implementations in India and Germany demonstrate our ability to drive both sustainability and operational efficiency for universities.

Key Features of EaaS Offering for Universities

Comprehensive Energy Dashboard

Real-time energy insights for smarter decisions.

AI-Driven Energy Efficiency

Optimizes asset performance and reduces waste.

Peak Demand Management

Predictive analytics optimize energy use for labs, events.

Renewables & Mobility

Integration of solar panels, EV charging, and storage.

Supply Optimization

Market-driven cost reduction and efficient energy trading.

Battery Energy Storage (BESS) Dashboard

AI optimizes battery use for cost savings.

Benefits for Universities

Integrated Energy Management

Single-platform optimization for cost and sustainability.

Reduced Consumption

AI forecasting lowers energy usage and carbon footprint.

Optimized Sourcing

Efficient procurement for reliable, cost-effective energy.

Operational Efficiency

Intelligent monitoring enhances asset performance.

Green Energy Mix

Increased renewables for decarbonization.

Case Study 1: Accelerating Decarbonization Digitally at Infosys Pune Campus: EaaS Implementation & Success

The Infosys Pune Development Center, a campus with 40,000 employees and 18 buildings, faced the challenge of managing energy consumption efficiently and sustainably across its vast operations. To address this, the center piloted the Infosys-bp EaaS solution.

The EaaS platform, powered by AI and designed to be hardware-agnostic, played a crucial role. By analyzing data from diverse energy sources and assets across the campus, the platform empowered the development center to make data-driven decisions regarding energy usage and investments and this data-driven approach yielded significant results:

75%
Increase in renewable energy utilization

10%
Improvement in energy efficiency

5%
Reduction in unit energy costs

These outcomes demonstrate the effectiveness of EaaS in accelerating energy transition and delivering substantial environmental and economic benefits for organizations.

Value delivered at Infosys Pune Campus

Case Study 2: Transforming Energy Management at a Leading German Airport

Germany's leading passenger and cargo airport, a major hub for European trade, handles millions of passengers and hundreds of thousands of tons of cargo annually. Committed to 2045 climate neutrality, they partnered with Infosys to implement an EaaS solution.

Infosys mapped the airport's energy landscape, including critical assets like boilers, chillers, and CHP plants. Hourly energy and cost data were then onboarded to the EaaS platform for analysis and visualization. EaaS recommendations, including optimizing CHP, maximizing BESS, and upgrading to heat pumps, resulted in:

Improve Energy Efficiency opportunity by
~20%

10%
Reduction in unit price of power

Equivalent CO_2e avoided
~10% (5600 tCO2e/year)

EaaS solutions helped this airport advance sustainability by optimizing CHP, improving boiler and chiller efficiency, leveraging energy market flexibility, and adopting cleaner energy storage technologies.

For more information, contact askus@infosys.com

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