C3 AI Energy Management

AI-Enabled Energy and Emissions Management to Reduce Costs and Achieve Sustainability Goals

C3 AI® Energy Management is an enterprise AI application that helps enterprises gain visibility into their energy consumption and GHG emissions across the operational footprint and prioritize actions reduce operational costs while meeting sustainability targets. C3 AI Energy Management models energy use of any complex operation, detect anomalies, forecast energy use and emissions, identify savings and emissions reduction opportunities, and helps operators and managers take action to achieve organizational objectives. C3 AI Energy Management can be configured to address specific business requirements including customizable energy use alerts, case management settings, project management approval processes, and user interface screens.

C3 AI Energy Management creates a unified federated image of key data sources, including energy data (e.g., meters, sensors, utility bills), operational data (e.g., schedules, occupancy, utilization, field utilization), telemetry signals from network and building systems (e.g., lighting, HVAC), third-party data (e.g., weather) and environmental data (e.g., emission factors, air quality). By unifying data across all operations, C3 AI Energy Management enables a single comprehensive view of energy and sustainability across the whole enterprise.

C3 AI Energy Management supports continuous analytics processing and delivers insights and AI recommendations in near real-time. With a comprehensive view of data across many systems and AI-based algorithms running continuously at scale, C3 AI Energy Management empowers operators, managers, and executives to optimize energy use, reduce utilities expenditures, lower emissions, and achieve sustainability objectives.

Figure 1. *C3 AI Energy Management provides facility managers with a real-time dashboard to monitor portfolio energy usage and expenditure*

Feature Summary

- **Streaming Energy and Carbon Analysis** – Generate high-level and detailed insights by visualizing in real time >50 KPIs and flexibly benchmarking across assets
- **Goal Setting and Tracking** – Create goals for energy, emissions, waste, and water, and continuously track over time
- **Energy Forecasting and Peak Prediction** – Predict peak loads with advanced AI algorithms that use streaming energy, building, and weather data
- **Scopes 1 and 2 Emissions Analysis** – Automatically convert all fuel combustion and electricity consumption into GHG emissions at all levels of the business
- **Scope 3 Value Chain Emissions** – Model supply chain activities and automatically apply emission factors to optimize the indirect, Scope 3 footprint
- **Anomaly Detection** – Utilize advanced AI to detect operational anomalies, data issues, and billing errors
- **End-Use Disaggregation** – Identify individual energy end-uses (e.g., heating, cooling, lighting) with AI models
- **Building Optimization** – Optimize costs, emissions, and comfort by maximizing BMS, solar, and storage systems
- **Project Analyzer** – Assemble, prioritize, and execute a portfolio of energy conservation measures

Feature Summary (cont.)

- **Measurement & Verification** – Automatically calculate and report the savings and ROI of Capex projects
- **Real-time Alerts** – Utilize pre-built alerts or easily configure custom alerts for facility and sustainability manages
- **AI Recommendations** - Continuously generate recommendations for highest value ECMs and projects, based on streaming energy and operational data
- **Virtual Building Audit** - Enhance accuracy of building AI models and enable new analytics by collecting behavioral, operational, and building characteristic data from users
- **Power Purchase Analysis** – Integrate and visualize all PPAs and RECs across facilities and corporate; model avoided emissions and procurement costs
- **AI Data Cleansing** – Identify and automatically remove erroneous and missing data points; insert AI-predicted, 'cleansed' data in their place
- **Self-Service Data Science** – Configure advanced analytics and run custom analysis projects using self-service tools including C3 AI Ex Machina
- **Open and Extensible Data Interface** - Integrate and normalize data from any enterprise, third-party source (e.g., weather), building management system (BMS), meter data management (MDM), or distributed energy resource management (DERMS) system using industry standard templates, self-service tools and pre-built integrations.
- **API endoints** – Visualize or embed insights from C3 AI Energy Management into existing applications or workflows through configurable APIs.

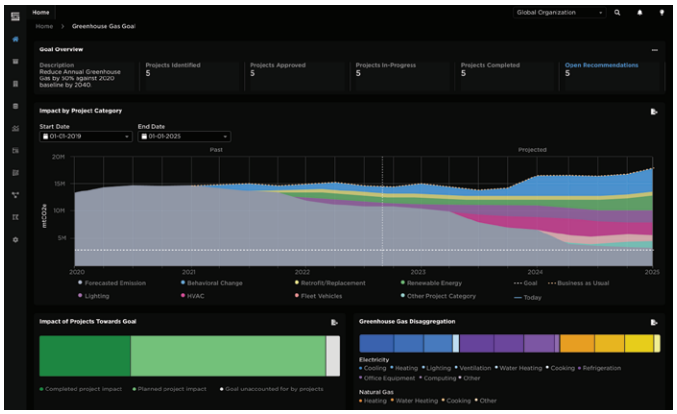

Figure 2. *With C3 AI Energy Management, sustainability managers can track and verify the contribution projects towards achieving sustainability goals*

Powerful Analytics to Enable Operational Insight, Energy Cost Savings and Carbon Emission Reductions

Benefits of C3 AI Energy Management include:

- **Achieve energy cost reductions of 15-30%** using predictive analytics and optimization
- **Enable the energy transition** by using AI-powered analytics to baseline and optimize Scope 1, 2, and 3 emissions
- **Improve energy demand forecasting accuracy** with advanced machine learning analytics which re-train daily to maximize performance
- **Increase Capex investment ROI** by maximizing the value of building and energy infrastructure (e.g., solar, smart lighting, storage, EVs).
- **Improve reliability** by integrating on-site power, predicting peak and outage events, and optimizing demand across buildings
- **Rapidly deploy and configure solutions** using self-service tools for AI, analytics, dashboards, and data integrations

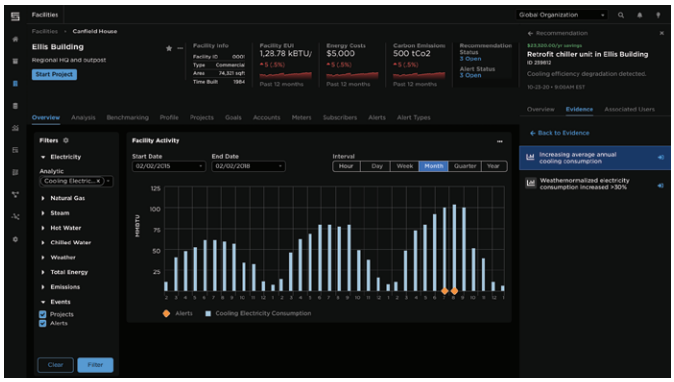

Figure 3. *With C3 AI Energy Management, facility operations have AI-enabled recommendations with supporting evidence to drive decision making and energy savings*

Proven Results in 8-12 Weeks | **Visit C3.ai/get-started**