

For a global energy intelligence platform

We enhanced user experience and engagement with a highly configurable, AI-powered energy insights web app.

A Ccube Case Study





Problem Statement



Generic billing failed to influence consumer energy behavior

Manual segmentation & outreach
slowed demand-side program
delivery







Solution

- Developed a customizable React-based web app for energy intelligence delivery
- Enabled real-time appliance-level insights using smart meter disaggregation
- Integrated Highcharts for intuitive energy data visualization and recommendations
- Delivered secure, SSO-enabled access with global theming and localization support

Our Tech Stack

React
TypeScript
Java
CloudWatch
Node.js
Encryption at Rest
AWS (S3, Lambda, ECS)
Audit Trails





Process



Designed a responsive, modular React-based web application tailored to utility needs



Integrated RESTful APIs to fetch and visualize disaggregated smart meter data



Implemented theming, RTL localization, & accessibility (ADA/WCAG) standards



Built secure SSO authentication with mTLS and audit logging

Deployed on AWS using scalable Lambda and ECS services with Cloudflare protection







- >> Reduction in on-peak EV charging
- >> Increased customer satisfaction (CSAT)
- >> Thousands of agents enabled with real-time tools
- Full accessibility and localization compliance





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