



SMART ENERGY SOLUTION FOR COMMERCIAL BUILDING ENERGY OPTIMIZATION

CLIENT OVERVIEW

Our client is a Leading US based energy management service provider.

KEY REQUIREMENTS

- Client was looking for a solution to remotely monitor, automate and optimize energy consumption across various devices used in commercial buildings (lights, A/C, etc.)
- The key requirement was to automate the collection, processing and conversion of sensor data into a graphical representation in order to remotely monitor and control the devices to conserve energy

KEY CONTRIBUTIONS

- We designed APIs to call HVAC and lighting device drivers that would fetch current temperatures and store data on Azure Cloud
- We developed drivers to accurately read energy consumption values captured by various sensors
- We developed an analytics and control system for renewable energy prediction, fault detection, preventive maintenance analysis and usage intensity heat map analysis
- We implemented predictive analytics and developed a sensor chart system to facilitate the complete visualization of the collected sensor data
- We developed a web configuration UI using Kendo UI to enable end users to configure, manage, monitor and remotely control their devices

KEY BENEFITS

- Created a competitive advantage by reducing cost by 20%
- Improved market reach by 20% within a short time by enabling the client to quickly and easily demo the application at end-customer locations
- Enabled end customers (public schools, libraries, medical centers, etc.) to:
 - Lower their energy cost
 - Fix heating/cooling complaints
 - Reduce system maintenance

TECHNOLOGY STACK

- Kendo UI
- Windows Azure
- DB
- SQL server
- rainforest



About Xoriant:

Xoriant Corporation is a Product Development, Engineering and Consulting Services Company, serving technology startups as well as mid-size to large corporations. We offer a flexible blend of onsite, offsite and offshore services from our eight global delivery centers with over 2000 software professionals. Xoriant has deep client relationships spanning over 25 years with various clients ranging from startups to Fortune 100 companies.