

# Case Study: Building Automation

## Building Energy Management



### About the client

**HQ:** US

**Primary Focus:** A Fortune 100 company working on generating clean, healthy energy and using it more efficiently. Increasing safety and security. They work in Aerospace, Control Solutions, Performance Materials and Transportation Systems

### About the Solution:

Create a data model / schema for visualization from raw data in MYSQL.. The solution displays energy consumption trends with daily/weekly/monthly comparison charts. The solution will enable customer to reduce energy consumption and track the same with comparative depiction. The depiction allows the customer to study occupancy level inside Rooms/Unit/ Zone/Floor/Tower of buildings.

### Happiest Minds Scope

- Create a data model / schema for visualization from raw data in MYSQL
- Create Java APIs which the front end can call for visualization.
- Create customized visualization for depiction of energy consumption.

### Business Impact

The following were the business impact derived from implementation:

- Reduction in energy consumption, resulting in revenue savings
- Comparative analysis between different towers/floors/zone/units to pin point encouragement of lagging units for every conservation
- Achieve lower carbon footprint and achieve green buildings

