Case Study for a Garment Manufacturer

Situation

- Wanted to have
  - LEED Green Building Certification
  - Reduce energy and water usage footprint
  - Avail industry specific government subsidy of 25%
  - Improve working environment inside the factory

Task

- Mandate to reduce energy consumption
- Quantify energy and water usage and wastage by time of the day, day of the week.
- Automatic remote control of cooling and exhaust equipment.
- Improve air quality to ensure better working environment for employees
- Measure & alert users about threshold breaches in real time

Action

- Site survey done and identified the major areas to be targeted for monitoring and controlling
- Installed smart energy meters, water flow meters, air quality sensors and monitoring hardware and connected to SEnergy cloud.
  - Analytics provided for
    - ✓ Real time consumption values
    - ✓ Carbon footprint
    - ✓ Air quality index
    - ✓ Quality of input power
    - ✓ Wastage pattern
- Installed control mechanism to automatically switch ON the exhaust fans in case of threshold breaches of air quality indices like CO2 level.
- Created a standard process for inspection, reporting and performance review to pursue the LEED Green Building Certification.
- Isolated and alerted O&M team on wastage and loading pattern

Result

- Helped the client to
  - Have a clear roadmap to achieve Green Building Certification by continuous monitoring and bench marking of the required parameters
  - Qualify for industry specific energy conservation references
  - Avoid costly yearly audits
  - Plan for future expansion by clearly understanding the installed energy capacity and actual utilization.