

Smart Distribution Board



Technology Overview

Essentially, we make a Distribution Board (DB) smart by incorporating an innovative sensor and coupled it with data analytics. The Smart DB can now sense the electricity usage from its individual circuit breakers and derive rich insights pertaining to energy usage, and occupants' behaviour and habits to provide a simple, all-in-one and cost-effective management solution.

Unlike other 'smart meters' that are integrated with a DB and can only provide aggregated energy usage patterns, our Smart DB can provide real-time detailed energy usage using analytics. This means that one can get real-time feedback of how much energy are being used in the various parts of the house, e.g. living room, kitchen, bedrooms and toilets; and also for each electrical appliance such as aircon, water heater, fridge, washing machine, etc.

Features & Specifications

- Energy monitoring
- Lifestyle tracking
- Long-term health monitoring and improvement
- Safety improvement

Customer Benefits

Cost Effective Solution - Our Smart DB removes the need to have individual energy meters installed for every electrical socket in order to have detailed energy profile information in a household. What we need is simply ONE Smart DB for the entire house.

Energy Management - With detailed energy usage data, Smart DB allows users to wisely and responsibly change their behaviour towards better energy usage. For example; Smart DB timely alerts users if the aircon is operating in a less efficient manner, prompts users on the unnecessary standby power of the TV, etc., thus empowering users to make informed decisions and adopt responsible behaviour towards energy usage.

Lifestyle Management - Many of our lifestyles are directly related to the use of energy. For example, watching excessive TV programs and frequent staying late into the night to work on assignments are harmful to our health; and frequent visitations to toilet at night may indicate some serious health issues. Smart DB provides useful information on lifestyle habits and patterns, therefore allowing users to manage their lifestyles more sensibly.

Potential Applications

- Residential estate development
- Offices and hotels
- Schools

