

EEBS

CMS's Electronic Energy Billing System (EEBS) is a consumer centric metering system that is able to manage and optimize consumer level power demand while staying relevant to the demand cutoff at the power generators (or distributors) side.

Consumer electricity demand can be quite dynamic and high loads can get cut off quickly resulting in inconveniences to consumers. The EEBS creates a flexible and accurate measurement environment for the supplier and the consumer alike.

Ambience Mall in Gurgaon is one of the largest malls in Northern India and due to its irregular power shortages, chose CMS's EEBS to better optimize on the same.

Challenges

Due to its immense size and the considerable power cut situation in the Delhi NCR region, the mall was facing serious issues during the downtime they faced due to power outages from the state electricity board. Just like other consumers in the National Capital Region, Ambience mall kept its operations going by switching between the State Electricity Board and backup Diesel Generators. This would lead to unforeseen cost implications for the mall, as it does with many other business operators, industries and consumer residential complexes alike.

High demand spikes would eventually lead to cut offs with unexpected downtime. CMS's EEBS helped alleviate many of these challenges for Ambience Mall.

Solution

CMS's implementation of EEBS at Ambience mall was a turnkey project with meters being installed at each node. There were 6 diesel generators placed to support the dynamic needs of the mall and all meter nodes captured data and generated billing in real time.

This system helped the mall, create a demand supply equation with the power boards and manage modular and dynamic billing from the diesel generators.

The EEBS is connected to the ABT and EMS systems deployed at the power distributor so as to create a real time demand generation cycle for the mall. It is a tool that satisfies both parties and is a measurement indicator. Thanks to this implementation, consumers can now also enjoy prepaid and postpaid billing options so as to be able to get the most out of the distributor in an organized manner.

Benefits

For a consumer, uninterrupted power is needed. When the electricity board fails to deliver, the consumer turns to diesel generators, both of which have their own tariff structures. Capacity was a problem when it came to diesel generators. Once the fuel runs out, power just gets cut.

EEBS helps manage all this and gives the consumer many conveniences. It allocates power availability and distributes it according to the demand equations. Since at a consumer level, each unit has dynamic requirements, based on their commitment levels, power from diesel generators will be allocated.

So based on the power availability, EEBS helps in managing excess power consumption and distribution uniformly. This is automatically done through the software.