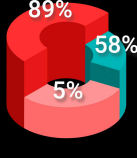




SMART ENERGY SOLUTIONS

Globally Preventing Energy Wastage



Till 2030, Global energy demand is expected to expand by 5%.

Energy produced through non-renewable resources amount a total of 89%.

In US alone, the energy wasted due to use of inefficient power flow systems amount to 58%.

HOW IS ELECTRICITY WASTED?



POWER PLANT

Aging and inefficient equipment in power plants consumes most of the energy from non-renewable resources while producing electricity.

TRANSMISSION LINES

Even with the use of step-up transformers, a large portion of electricity is wasted due to resistance in the transmission cables and Joule effect.

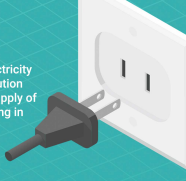


DISTRIBUTION NETWORK

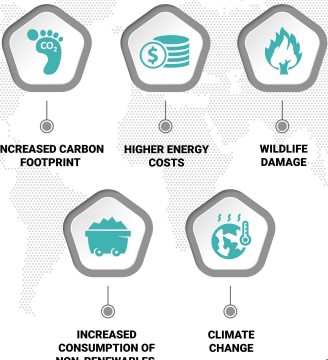
The inability to monitor electricity consumption by the distribution network can result in the supply of unwanted electricity resulting in energy wastage.

HOMES

The inability to monitor electricity consumption by the distribution network can result in the supply of unwanted electricity resulting in energy wastage.



CONSEQUENCES OF ENERGY WASTAGE



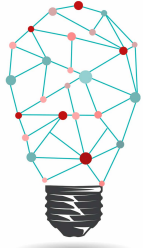
IoT SMART ENERGY SOLUTIONS PREVENTING ELECTRICITY WASTAGE

Equipment Monitoring

IoT embedded sensors allow utilities to track the performance of their assets like power plants and transformers. They can thus effectively plan maintenance tasks to reduce heat and magnetic field losses.

Power Consumption Monitoring

The use of smart meters and grids allow electricity providers to measure fluctuations, peak hours, and electricity consumed by a house. They can thus manage the flow of power in a locality accordingly.



Reducing power wastage at homes

Smart meters allow the end consumers to monitor electricity consumed by their appliances via a web application or a mere television. They can even optimize their smart devices to alert them whenever they cross their operating threshold.