Abstract

A typical smart meter is more than a traditional meter which calculates the real time consumption of electricity and also generates the electricity bill. The smart grids are developed at the back end to support the smart meter. Smart grid makes electricity delivery system more flexible, intelligent, smart, reliable and economical. A variety of technologies are available to make a grid station as smart like smart meter, electric vehicles EVs, energy storage etc. To change a smart grid from concept to reality, it needs a collaboration, integration and interoperability between a sequence of resources like generation, transmission, distribution, communication, consumer markets and service providers. The motivation of this problem is to introduce the mechanism for load management that will be acceptable and easily adopted. The proposed smart embedded meter system will calculate the final consumer load. In case of violation it will ask to set high priority appliance.
A Challenging Demand Side Power Management through Smart Embedded Meter System


**Index Terms**

Computer Science  
Circuits And Systems

**Keywords**

Smart Meter  
Smart Grid  
Communication Technologies  
Physical Grid  
Smart Power Management  
Smart Home  
Consumer  
Real time Response and Protocols