

LOAD MANAGEMENT IN SMART GRID NETWORK

Dr.S.Suja M.E.,Ph.D.

Professor, Dept. of Electrical and Electronics Engineering,
Coimbatore Institute of Technology, Coimbatore, India

A.R.Siddhartha

Dept. of Electrical and Electronics
Coimbatore Institute of Technology, Coimbatore, India

V.Mariyammal

Dept. of Electrical and Electronics
Coimbatore Institute of Technology, Coimbatore, India

S.Sreepradhaa

Dept. of Electrical and Electronics
Coimbatore Institute of Technology, Coimbatore, India

S. Ranjeth

Dept. of Electrical and Electronics
Coimbatore Institute of Technology, Coimbatore, India

S. Kishore

Dept. of Electrical and Electronics
Coimbatore Institute of Technology, Coimbatore, India

Nowadays, there is an increase in the demand of electricity, due to increase in population. Supplying adequate electricity is the big challenge to the utility companies. In order to ensure reliable and quality power supply to the consumers, load management is much needed. Load scheduling is one form of load management action that allows consumers to save energy by minimizing their demand. Also, the optimum scheduling of different power plants is important because, when considering the solar and wind energy, it is easily available, but the amount of power generated from it is insufficient to meet the load demand and not available at constant rate. Considering all these aspects, it is essential to identify an optimal load scheduling method for energy saving and more over to meet the load demand. This paper differentiates the various load scheduling algorithms applied in the various heterogeneous systems in detail.

Keywords— Load Scheduling, Load management, Priority based algorithm, Dead line-based algorithm.