Demand Side Management Programs

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Why Demand Side Management?

• Securing Demand versus Supply.
• Enhancement and Optimization of the investment at Supply Side.
• Restructuring for Demand and Energy Tariffs.
• Setting the corrective actions for Energy Performance Schemes.
• Upgrade to the Supply Side Loading Factor.
Demand Profile
Analysis to Demand Profile

• Analyze and assess for Peak Demand Contributors of different load.
  – Cooling.
  – Heating.
  – Lighting System.
  – Motors.
  – Appliances.
  – Etc.
Ways to reduce Peak Demand

• Energy Efficient Programs.
• Efficient Appliances.
• Load Shifting/Shaving.
  – Shift Peak loads if possible to off peak.
  – Shave the peak demand through shutdown of non essential loads.
• Energy Storage Approaches during off peak (Thermal);
  – Cooling Load.
  – Heating Load.
Common Approaches for DSM

- Peak Clipping
- Conservation
- Load Building
- Valley Filling
- Load Shifting
Steps to Design DSM Programs

- Development of necessary infrastructure for implementation
- Load research and load profiling
- Market survey
- Consumer awareness and marketing programme
- Regulatory approval
- Development & implementation of DSM programme
- Development & implementation of DSM bidding process
- Monitoring & evaluation of DSM programme
Utilities Driven Programs

- Tariff Reforms
- Load Management Directives
- Public awareness campaigns
- Funding Options for DSM
- Sector specific programmes in residential, commercial, industrial sectors.