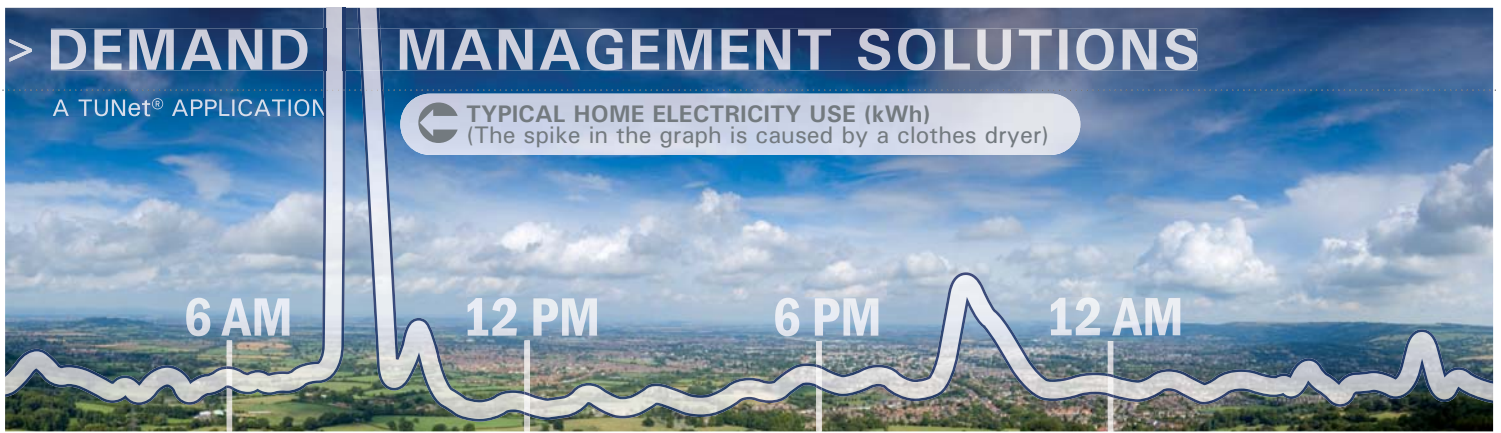


> DEMAND MANAGEMENT SOLUTIONS

A TUNet® APPLICATION



TYPICAL HOME ELECTRICITY USE (kWh)
(The spike in the graph is caused by a clothes dryer)



Source: Secretary Steven Chu, "Investing in our Energy Future," DOE

COST-EFFECTIVE APPLICATIONS

1 DIRECT LOAD CONTROL (DLC)

Monitors and sheds load during peak demand, so that a utility can reduce expensive premiums on power

2 VARIABLE RATE PRICING (VRP)

Charges different power rates to customers based on peak pricing and other factors

3 CONSERVATION VOLTAGE REDUCTION (CVR)

Reduces line voltage within an economical range to constantly monitor and reduce peak power usage



These Demand Management applications are designed to help utilities **manage peak loads in order to save money and energy**. They also allow utilities more control over billing and monitoring power usage.

WHY DEMAND MANAGEMENT?

Distribution utilities are subject to the volatility of the electric wholesale market. During peak usage times, such as summer afternoons, power can be over 18 times more expensive than an off-peak rate². Demand management is a smart grid application that strategically manages real-time demand to avoid premium energy prices and save money for utilities. Utility infrastructure is typically built to accommodate the yearly peak line usage. If the peak is lowered, then less infrastructure is needed. On average, about 10 percent of all network capacity is built solely to accommodate peak demand that occurs only 84 hours per year¹.

on-peak energy rates can be over **18x** higher than off-peak rates²

THE STRENGTH OF TUNet

The Tantalus Utility Network (TUNet®) is the industry's fastest and most reliable smart grid communications platform. TUNet's advanced Demand Management package allows utilities to capitalize on their investments in AMI technology.

✓ REAL-TIME COMMUNICATIONS

TRUPUSH™ technology guides TUNet's two-way, event-driven utility network. The platform integrates seamlessly with many other applications and serves as a single network for all AMI services.

✓ STRATEGIC DEPLOYMENT

TUNet enables utilities to target high-need locations and accounts first to accelerate results. TUNet is compatible with both IP-based wired and wireless systems.

✓ CURTAILMENT CONFIRMATION

Accurate records verify which customers participated in a load shed event at any period, which helps to gauge the success of energy-saving programs. Includes simple integration with legacy billing systems, CIS, OMS, SCADA, and MDM applications.



Tantalus

Tomorrow's Smart Grid. Today.

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LEADING INDUSTRY INNOVATOR

Tantalus is a private company founded in 1989. Corporate offices are located in Raleigh, North Carolina and Vancouver, British Columbia. In 2004, Tantalus commercialized TUNet, its smart grid communications platform. Tantalus' senior executives average more than twenty years of experience in the utility industry, and the company's financial position has been consistently strong over the last ten years.

1. IPART Inquiry into the Role of Demand Management and Other Options in the provision of Energy Services, Final Report. 2002, p5
2. Carolina Power and Light Company. Large General Service (Time-of-Use) Schedule. 2010, p1