



Sustainable energy savings

Monitoring and Tracking (M&T)

Interval meter data

Access to interval meter data of electricity consumption enables you to identify both patterns and energy waste. It also ensures that you are billed accurately by the utilities. This data also unlocks a potential treasure trove of hidden energy cost reduction opportunities that can range from no cost/ low cost to deeper retrofits bringing in long term energy savings.

The Opportunity

Several facilities may already have a smart meter installed by the utilities. If not, investing in an accurate submeter to collect interval meter data could be an excellent investment. Access to this information may also facilitate the delivery of information for some of the “pay for performance” incentive programs that are offered by the utilities.

How Star Energy can help

Working as your energy advisor, Star Energy can work with your local utility to collect the relevant information, analyze, and report on the energy cost reduction opportunities that can be readily implemented. Where appropriate, Star Energy will also supply interval meters and provide for remote access to consumption patterns in order to facilitate timely action to reduce energy wastage.

Our turnkey offering, the supply and installation of interval meters and the provision of regular reporting on the energy consumption trends, will help you make smart decisions to improve the energy efficiency of the facility and avoid energy waste.

Issues

- Consumption data available from utilities through monthly energy bills is the cheapest but is available almost 6 weeks after the energy is consumed.
- Not enough details in the monthly data to identify actual issue without conducting detailed audit of the facility.
- Operational issues and low cost/ no cost opportunities can only be identified with interval meter data analysis.
- Savings achieved through recommissioning or any controls optimization and other associated retrofits tend to slip over a period if not monitored and tracked proactively.
- Abnormal patterns in energy consumption are often related to malfunctioning of equipment related to maintenance issues.

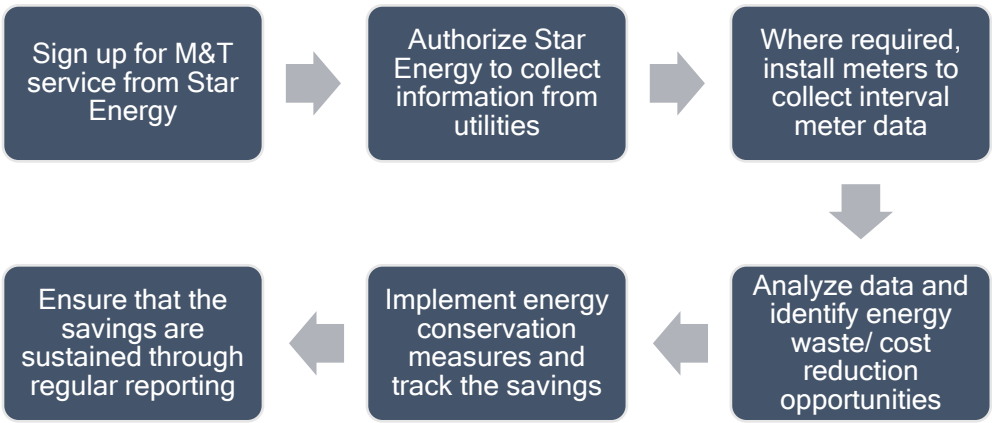
Service levels

<i>Activity</i>	Level 1	Level 2	Level 3
<i>Review of current situation and data availability</i>	✓	✓	✓
<i>Collection of data from utilities</i>	✓	✓	✓
<i>Supply, installation, and commissioning of smart meters for collecting interval meter data</i>	✓		
<i>Developing a weather-normalized baseline for standard energy consumption</i>	✓	✓	✓
<i>Data analysis and reporting of savings and/or abnormal trends</i>	✓	✓	✓
<i>Advising service provider and follow up for corrective actions</i>	✓	✓	

Benefits

- Identification of low cost/ no cost opportunities through interval meter data analysis
- Measurement and Verification of savings from any ongoing or new projects
- Pro-active control of energy waste through alarms on deviation from pre-established consumption patterns
- Sustainable energy savings as continuous monitoring will help to take corrective actions if energy savings are being lost
- Billing discrepancies can be spotted easily leading to possibly significant savings
- Prevents unnecessary operation of equipment which can help in reducing overall maintenance costs
- Enables participation in certain enhanced value utility incentive programs

Process



Star Energy is an energy management company specializing in delivering comprehensive energy cost reduction programs throughout North America. Our experience in working with major clients has helped us to develop customizable programs that not only maximize returns on retrofit capital but also improve asset values and the life of mechanical and electrical systems. We have worked with major utilities across the US and Canada to optimize the eligibility of our programs for incentives to reduce implementation costs and improve paybacks. Part of our program customization relates to our client's annual energy reduction targets and their available retrofit capital.