

■ Metering System Checklist

□ **Install Natural Gas, and Steam Metering**

Advanced meters are those that have the capability to measure and record interval data (at least hourly for electricity) and communicate the data to a remote location in a format that can be easily integrated into an advanced metering system. For electrical meters, they measure electrical demand (kW) over a predetermined interval—commonly every 15 minutes to match utility billing intervals. This data can be used to measure, verify, and optimize building performance, identify retrofit projects, monitor power quality problems, and develop energy use indices (EUIs).

Walk through each building or facility and identify the number and type of electrical, natural gas, fuel oil, and steam meters. Identify the meters that need to be retrofit with a solid state meter with automated metering reading and data collection capability.

□ **Install Smart Electricity Metering**

Smart electricity metering (solid state or digital) can provide more accurate and more detailed information about energy use and power quality. This data can be used to measure, verify, and optimize building performance, identify retrofit projects, monitor power quality problems, and develop EUIs.

Walk through each building or facility and identify the number and type of electrical meters. Identify the electrical meters that need to be retrofit with a solid state meter.

□ **Install Smart Water Metering**

Smart water metering (positive displacement, differential pressure, velocity) can provide more accurate and more detailed information about water use. This data can be used to measure, verify, and optimize building performance, identify retrofit projects, and monitor problems.

□ **Install Communication and Data Storage Technology**

Communication and data storage is vital to building operation. New technologies communicate data from automated metering systems and allows for real-time information processing of building operating conditions. Communication and data storage technology should be installed in buildings to improve information and identify energy saving potentials.