



## Energy Smart Industrial

# The Value of a Performance Tracking System

Heating during cold months and cooling during hot months can significantly increase energy use.

Meter  
in real-time



Track  
key variables



Automate  
data collection



Analyze  
performance



Improve  
awareness



### Utilities may offer up to \$25,000 to cover Performance Tracking System costs.

Tracking energy performance is a critical part of any Strategic Energy Management (SEM) program. Improved awareness of how energy is used will lead to informed decisions that save energy. The measurement system and characteristics (e.g., frequency of data collection, data intervals, etc.) will vary by system and facility.

### What is a Performance Tracking System?

A Performance Tracking System (PTS) is any hardware, software or other equipment that is used to measure baseline conditions, determine energy savings, and/or help establish cause and effect. It could be as simple as thermal or acoustic imaging equipment, Building Management System (BMS), or even basic data loggers, such as current transducers, flow meters, on and off sensors, or occupancy sensors.

A PTS can incorporate an Energy Management Information System (EMIS) to collect data, track

performance, and record projects. An EMIS often integrates with other systems to automate energy consumption data collection from meters, alongside production data. During a two-year SEM engagement, key variables such as energy, production, and weather are also tracked to establish a baseline and monitor performance. Real-time performance tracking provides quick feedback when changes are made and allows for awareness and response when backsliding occurs. Existing utility data collection systems or control systems may not achieve these goals without upgrades or enhancements.

### Available incentives up to \$25,000<sup>1</sup>

for PTS setup, installation,  
and maintenance per two-year  
SEM engagement.

<sup>1</sup>Subject to utility-specified cap

# Performance Tracking System Use Cases

The examples below illustrate how some utilities have allowed participants to use PTS funding to purchase equipment or software in support of SEM efforts. These case studies are not exhaustive. SEM Participants should talk to their local electrical utility to see if funding is available for their PTS project.

## CASE STUDY #1

An office building used PTS funding to upgrade their BMS with advanced analytics and real-time monitoring capabilities. The enhanced system enabled facility managers to identify scheduling inefficiencies, optimize setpoint strategies, and diagnose equipment malfunctions affecting multiple HVAC zones. These improvements helped reduce energy waste from simultaneous heating and cooling, excessive ventilation during unoccupied periods, and equipment staging issues while maintaining occupants' comfort.

## CASE STUDY #2

A chemical manufacturer leveraged PTS funding to install electrical power submeters, gaining near real-time usage insights that were not available through monthly utility billing. This data enabled the facility to identify opportunities to reduce peak demand and minimize baseload during production pauses.

## CASE STUDY #3

Utilities and industrial customers have utilized PTS funding to purchase EMIS software, to streamline energy efficiency projects through comprehensive project tracking and management, performance monitoring, savings verification, and stakeholder visibility. Additionally, PTS funding can cover the costs of establishing secure data connections and automated transfer protocols, eliminating manual data entry and reducing data security risks.

## CASE STUDY #4

A lumber mill used PTS funding to install bi-directional flow meters in each zone of their compressed air system. These meters enabled them to develop compressed air key performance indicators (KPIs) to identify new leaks, improper uses, or equipment changes, and address demand-side inefficiencies. This approach maximizes savings by reducing loads and optimizing equipment operation.

## Performance Tracking System Reimbursement Process

- 1 SEM participants confirm available PTS funding with their serving utility representative and identify the software, equipment, or system, etc. they intend to purchase.
- 2 Participants install PTS and provide documentation (e.g., invoices, photos, sample data, calibration records, etc.) to their Energy Smart Industrial (ESI) representative and utility representative. PTS documentation for Commercial SEM must be sent to the utility representative and BPA Customer Service Engineer.
- 3 The ESI representative will prepare and submit a PTS Verification Report to the utility representative for submission to BPA.
- 4 Once BPA approves the PTS submittal, the utility issues PTS funding to the SEM participant.



**Let's see how a performance tracking system can work for you.**  
Reach out to your Energy Smart Industrial Partner (ESIP) or electric utility representative.

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PUBLIC UTILITIES



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