

Find insights into how to reduce the costs of manufacturing products by connecting Energy Consumption to the Pulse of Machines. Connect IIoT Energy Sensors to machines & processes, gaining real-time feedback & advanced analytics to drive continuous improvement and cost reductions.

### CONNECT MACHINE ENERGY CONSUMPTION TO THE SHOPLOGIX REAL-TIME PRODUCTION MONITORING SYSTEM TO DRIVE VISIBILITY INTO COMPONENT BY MACHINE AND PROCESS:

For cost reduction, most manufacturers have limited data available to the energy consumption cost per part produced. This is a black box of opportunity, especially when the cost of energy continues to grow and with the uncertainty of how energy costs will change in the future.

#### With Shoplogix Energy Monitoring...

Implement Energy Monitoring to your Smart Factory Platform to provide an optimal connection between energy or raw material consumption and the plant-floor process. Many manufacturers understand energy consumption at the plant-level, however the opportunities exist to understand what processes are costing the most money.

### QUANTIFY THE TRUE COST OF MANUFACTURING YOUR PRODUCTS WITH JOB ESTIMATING TO DRIVE COST SAVINGS INITIATIVES:

Most manufacturers have an energy savings initiative, however, they are missing the information to help drive the project to success. There are many factors which drive up energy consumption resulting in missed opportunities for cost savings—such as relying on a manual entry for tracking downtime or using cost estimates based on minimal data. It becomes difficult to understand cost variances resulting in unclear data for finance teams and stakeholders to analyze.

#### With Shoplogix Energy Monitoring...

When manufacturers connect their ERP and Job Schedules to Shoplogix, they take the next steps to a fully integrated Smart Factory. By adding energy consumption sensors to their machines, data insights can be found for each individual process or machine on the plant floor. Manufacturers can discover which process consumed the most energy to empower the engineers to investigate how to reduce this consumption. With the connection between production and machine downtime, manufacturers have visibility of energy costs to plan better estimations into the future.

### DRIVE REAL-TIME ENERGY MANAGEMENT USING AUTOMATIC ALERTS FOR ENERGY CONSUMPTION DURING STOPPAGE TIMES OR CONSUMPTION OUT OF SPEC:

Most legacy or manual downtime tracking systems lack the connectivity needed to drive real-time decisions. Without this connection, the plant floor lacks the capability for proactive energy initiatives, and projects tend to halt. Options exist from the larger energy supply companies, however, the costs outweigh the benefits, and ROI becomes very difficult to quantify.

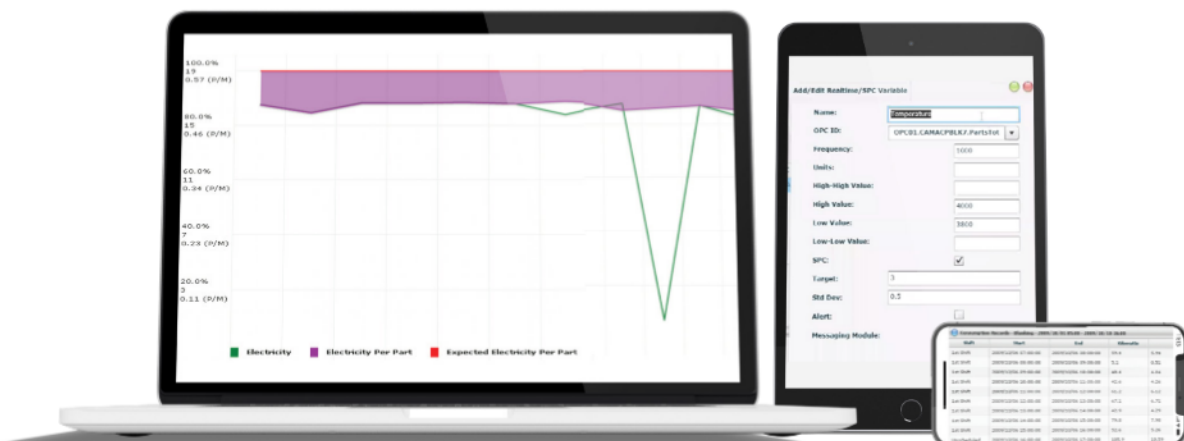
#### With Shoplogix Energy Monitoring...

Connect simple IIoT Energy Consumption sensors to machines to realize the opportunities to drive and sustain Project-Based ROI. Engineers can treat Consumption data just like Process data, establishing Expected Energy Per Product, with SPC monitoring and real-time alerts.

One of the simplest initiatives a manufacturing team can undertake is energy consumption during Unscheduled Time. Setup real-time alerts that tell operations teams when they have left a machine running after production end is an opportunity to reduce energy consumption.



CAPABILITY	ENERGY CONSUMPTION ONLY AVAILABLE AT THE PLANT-LEVEL	SHOPLOGIX ENERGY MONITORING
Real-time visibility into energy consumption per machine	X	✓
Alerts to operations or energy project manager when unscheduled machines are consuming energy	X	✓
Real-time visibility into energy consumption per part	X	✓
Feedback to ERP on average energy cost per part	X	✓
Ability to perform root-cost analysis of all energy components (gas, electricity, etc) compared with production runspeeds	X	✓
Ability to understand true cost of maintenance and changeover downtimes	X	✓
Instantly share and escalate consumption out-of-spec issues with supervisors and managers	X	✓
Build downtime & energy reduction strategies between departments using automated data	X	✓
Accurately track ownership and accountability of issues	X	✓



## About Shoplogix

Shoplogix is re-defining the manufacturing industry by making the Smart Factory platform the cornerstone of digital production performance transformation. By empowering manufacturers to visualize, integrate, and act on production performance in real-time, Shoplogix helps to uncover hidden shop floor potential and drive rapid time to value.

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