



## OVERVIEW – ENERGY & POWER ASSESSMENT

*Denison Consulting is dedicated to assisting manufacturing, industrial and large commercial customers reduce energy cost and improve efficiency in today's Industrial Internet of Things (IIoT). We deliver turn-key engineering and consulting solutions connecting the operations floor to the executive suite, enabling our customers to convert raw data to actionable real-time information with bottom line impact.*

### CUSTOMER NEEDS TO:

- Reduce energy costs
- Understand more specifically the drivers of energy cost and usage
- Make more informed, real-time decisions using a variety of data sources
- Reduce failures that add cost and potential costly operational shut downs
- Prioritize projects with greatest ROI, understand where, when, and how to start migration to IIoT

### COMPREHENSIVE ENERGY & POWER ASSESSMENT INCLUDES:

- Comprehensive Review and business operations and priorities
- Detailed plant walk-through conducted by our engineers or with our partner engineers
- Metering, measuring and monitoring the drivers of energy and power
- Analysis of tariffs and tax programs
- Review of process inefficiencies and other projects to determine the best ROI
- Measurement of energy and power usage across a full duty cycle
- Recommendations for cost reduction and energy improvement
- Analysis of utility bills and rate schedules to reduce demand and energy charges

## ✓ BENEFITS:

- Reduction in energy and power usage and cost
- Increased operational efficiencies and profitability
- Reduction in costly machine breakage and even costlier operational downtime
- Network migration plan towards target state IIoT secure architecture
- Data analytics plan to capture large data sources and convert into real-time actionable decision making
- Controlling demand, consumption and procurement
- Power quality control monitoring
- Demand management and load curtailing
- Cost allocation
- Load profiling
- Power factor correction
- Harmonic mitigation