



# ENERGY OPTIMIZATION ASSESSMENT

## REDUCE OPERATING COSTS THROUGH ENERGY EFFICIENCY

Our team of experienced automation, refrigeration, electrical and mechanical engineers have performed energy optimization assessments and design-build solutions across the globe. We have improved efficiencies for customers in industries including: beef, pork, poultry, dairy, beverage, ready-to-eat, bakery, cold storage and distribution, pharmaceutical, steel and commercial applications. In many cases, our clients achieve payback in as little as a few months after making modifications based on our recommendations.

### STELLAR'S ENERGY OPTIMIZATION ASSESSMENTS CAN HELP YOU:

- Reduce consumption of all utilities — water, air, gas, electricity and steam
- Reduce operating costs
- Improve process efficiencies
- Prolong the life of existing equipment
- Reduce carbon footprint
- Achieve LEED certification

# COMPREHENSIVE SYSTEMS ANALYSIS

Through collaboration with our in-house engineers across multiple disciplines, Stellar takes a comprehensive look at automation, refrigeration, steam, tempered water, compressed air, electrical and mechanical systems to maximize efficiencies and improve overall system performance and productivity. As part of our energy optimization assessment, we provide:

- **ANALYSIS** – establish an operating baseline, determine client efficiency improvement opportunities and goal attainment
- **DIRECTION AND ESTIMATES** – define the scope of work and provide a range of solutions with ROI estimates for each
- **CORRECTIVE ACTION** – prioritize actions by return on investment, self-performing all services needed, from design through fabrication and monitoring
- **MONITORING** – deliver high-reliability, high-availability solutions, developed on open, non-proprietary control systems
- **ONGOING MAINTENANCE** – 24/7 service and preventive or scheduled maintenance available

# ENERGY-SAVING TECHNIQUES

WE UTILIZE SEVERAL METHODS TO INCREASE UTILITY/ENERGY DEMAND AND GENERATION EFFICIENCIES FOR OUR CUSTOMERS INCLUDING:

- Variable frequency drives (VFDs) / Soft start solutions
- Advanced energy management programs
- High-efficiency motors
- Split-stage refrigeration systems
- Condenser balancing
- Compressor balancing
- Use of natural, LED and fluorescent lighting
- Demand response to proactively reduce load and alleviate grid stress
- Demand control to reduce energy demand peaks and related charges
- Thermal balancing
- Sequencing controls
- Point of use evaluation
- Waste energy recovery and utilization



## COMMON ENERGY WASTERS:

- Air balance ratios/ airflow issues
- Compressors running inefficiently
- Poorly maintained equipment
- Valves leaking
- Poor insulation
- Lack of controls

# A SINGLE SOURCE FOR ALL YOUR NEEDS

Stellar combines centuries of experience in refrigeration, utilities, mechanical and automation services to provide everything you need from a single source. Our highly trained professionals go beyond energy optimization to provide a comprehensive list of services — from manufacturing design build to refrigeration system remote troubleshooting and parts.



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