



Sustainability

Energy Efficiency

Customized Mitigation Strategies: Utilizing any and all available data, information garnered from energy audits and or consultant information generated from third party assessments, understanding the company's temperament and ability to expend capital, and working with the internal management team, a custom management and intervention plan can be developed and implemented. This plan will be "holistic" and will be used to manage all possible internal and external factors contributing to future success. This service offering incorporates all of the following services, as applicable to the business.

Energy Audits: Widely recognized as the first line of intervention and positioning, the Public Utility Commission (PUC) has recognized the relevance and is moving towards standardization and training of "qualified" consulting groups to satisfy the demand. MANTEC is uniquely positioned to identify and provide quality consultants to "at risk" manufacturers in need of mitigation and without resources. MANTEC can offer multiple levels of technical intervention including but not limited to:

Facility Walk-through Assessment— This is an entry-level assessment that takes less than a day to complete. It is followed by a brief report that identifies opportunities for improvement in general terms and a general ranking of these opportunities. Twelve months of energy bills and completion and return of a pre-assessment form are required.

Targeted Assessment— This is an in-depth analysis of a particular system within the business, such as compressed air. A detailed report follows the assessment, makes specific recommendations and provides estimates on capital expenditures, expected savings and payback for projects.

Investment Grade Energy Efficiency (E2) Assessment — An investment grade assessment involves a team of energy experts spending one to three days at your facility (team size and team days on-site are dependent on facility size and number of energy-consuming processes) to gather data for analysis. The results of the analyses are reported upon in a detailed report that can be comfortably relied upon to make investment decisions of capital upgrades and process improvements.

Demand Response and Curtailment Management: Potentially the only source of revenue other than grants, "demand response" or "curtailment" programming allows the company to uniquely position itself to provide or "shed" energy usage on a short notice to add capacity to the grid at times of peak need. Monitoring equipment is installed in the facilities offering management control and analysis of their own usage as an added benefit. During a requested shutdown the company earns significant revenue contributing to the top line and/or mitigating bottom line cost.

Aggregation: Perhaps the greatest mitigation opportunity, "aggregation" allows multiple companies of like profiles to combine efforts through group purchasing to drive wholesale pricing into alignment and electric cost into an affordable, contract-based, extended term purchase.

MANTEC assists manufacturers in lowering their energy/utility costs from both a Supply and Demand perspective. MANTEC is utilizing "best practices," and has developed a holistic energy management strategy. The customized mitigation strategy addresses all internal and external liabilities that a company can experience.

To set up your Energy Efficiency Services contact your Professional Business Advisor directly or MANTEC at 717-843-5054

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Contract Optimization: One of the finer aspects of external liability mitigation, contract optimization is the most complicated facet of the holistic strategy and left for expert negotiation and consultant maximization. Due to the intricacies of the aspects and long term implications of poor management, this is a critical factor to the overall success of a strategic intervention.

Grant Application Development: Throughout the stimulus package and contained within the current political environment are large movements towards energy market development. With that movement is the associated movement of stimulus money in grant form. Multiple programs are available and multiple agencies are offering granting programs. The sheer diversity of programs and entities involved requires specialty knowledge for proper application. MANTEC will assist with proper alignment to opportunities and positioning them for maximum success.

Renewable Energy Planning Resourcing & Development: As with the granting landscape, throughout the stimulus package and contained within the current political environment are large movements towards energy market development. The Federal government is strongly promoting development of the renewable energy infrastructure, jobs, and manufacturing. It is predicted that 30% of all energy will come from renewable resources by 2030. MANTEC can assist clients by positioning them into supply chains, providing opportunities for access to renewable energy resources and helping clients develop their own renewable energy resources.

Lighting Retrofits: Lighting retrofits represent low-hanging fruit in the reduction of energy costs through direct project implementation. They are high impact, quick turn, energy reduction projects with good external funding assistance. All companies should, at a minimum, look at this option immediately. Lighting retrofits are the cheapest, easiest, and single highest impact project a company can undertake to manage costs.

Solar Projects: Solar projects are increasing in popularity as the federal, state, and local funding environments conspire to provide the perfect environment for short term ROI on project costing. Although complicated in structure, these are very high impact, high profile, projects.

Biomass Energy Systems: Biomass is truly a renewable source of energy where plant matter can be used to generate electricity with steam turbines and gasifiers or produce heat, usually by direct combustion. As an energy source, biomass can either be used directly, or converted into other energy products such as biofuels. Installation of a biomass energy system can dramatically reduce energy costs.

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