

## Manufacturing and Processing Plant “Energy Audit”

The identification of economically-justified operating cost reduction opportunities associated with manufacturing and processing plant building, utility, and processing systems – most typically those opportunities resulting in significantly lowered electrical, natural gas, steam, water, and sewer costs.

**Initial consultation** to establish acceptable return on investment or simple payback, subject systems, and other criteria necessary to focus the energy audit.



**Utility bill audit** to evaluate tariffs, rates, and riders; rate and rider options; deregulated energy options; billing accuracy; ratchet and power factor penalties; sales tax exemptions; consumption patterns; unit costs including incremental rates; etc.

**Electric demand data and thermal data analysis** to assess opportunities such as cogeneration, multi-fueling, on-site generation, peak-shaving, and thermal storage.





**On-site inspection** of utility systems by an experienced energy auditor with an engineering, manufacturing, and processing background. This assessment of configurations, conditions, control methods, etc. is a comparison to "best practices."

**Data evaluation** by an experienced energy auditor with an engineering, manufacturing, and processing background.



**Final written report** including data, recommendations, interaction considerations, savings estimates, cost estimates, budgetary equipment quotations, and supplier contact information.



**Optional clarifications and training,**

especially to address projects that can be implemented entirely "in house" with little or no capital investment.



**Optional management consultations** to facilitate prioritization of projects; development of implementation plans; evaluation of financing, grant, and performance contracting opportunities; etc.

Reference:

<http://www.optimumus.com>