

CUSTOM STEAM SOLUTIONS INC.

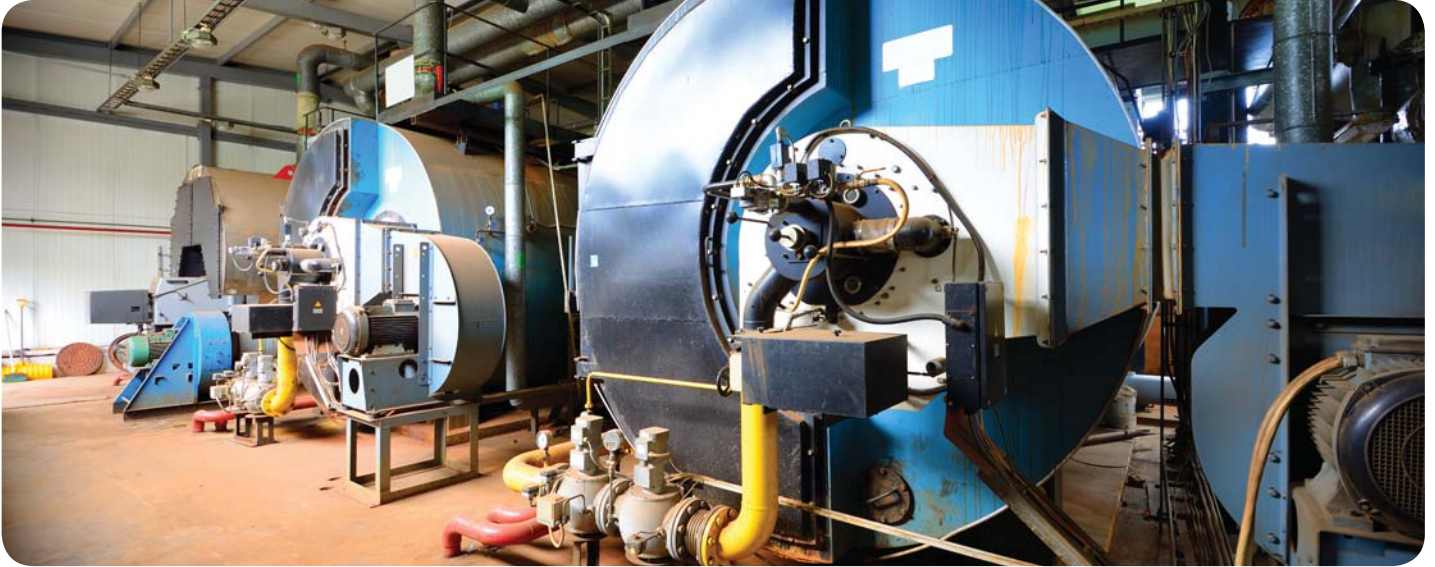
SUITE 1764, 225 THE EAST MALL, TORONTO, ON M9B 0A9

647.539.9699 | WWW.CUSTOMSTEAM.CA



YOUR STEAM SYSTEM INTEGRATORS

ENERGY Audit



THERMAL ENERGY AUDIT

In a world of optimization and efficiency enhancement, driving bottom-line through higher Energy Savings Benchmark has become a mandate for many organizations. We at Custom Steam Solutions understand this need. As a focused team of energy experts, we apply a comprehensive Energy Program for Audits in providing efficient solutions to energy savings benchmarking. Our team is structured to be the single source for your complete steam and hot water system.

STEAM AND HOT WATER ENERGY AUDIT PROGRAM



CSSI, perform a comprehensive Steam System Audit at your facility which will encompass an entire steam system review, right from the incoming raw water going through a treatment system all the way through to the return of condensate to the Boiler Room and the venting of non-condensable at the various receivers. We are certified by Association of Energy Engineers (AEE) and have Certified Energy Managers to carry out audits. Auditors are widely experienced in the operations & maintenance and understand unique requirements of a complete steam and hot water loop.

Our goal is to help you achieve substantial saving and assist to get rebates to add to your savings keeping your facility in its optimum levels of energy usage.



ENERGY AUDIT PROGRAM APPROACH

WALK AROUND

The team views energy audits as a top to bottom driven program. Level 1 of the audit involves a walk around of the facility identifying the major thermal energy users and types of demands and supplies. This involves bringing on board the management and staff involved and identifying major areas of possible energy conservation and establishing the road-map to achieve realistic savings in energy.

BENCHMARKING & IDENTIFICATION

This level involves recommending usage of flow-meters at certain locations to quantify the energy flow. we also install data logging devices to map the steam and hot water flows and trend important process parameters such as temperature and pressure, blow down venting etc. Supply and Install custom Energy Panels for your system. This stage includes the following:

- Drawing the system P&ID
- Steam trap audit
- Insulation Losses
- Boiler Combustion test
- Venting and dumping losses
- Controls tuning losses

PROCESS EFFICIENCY

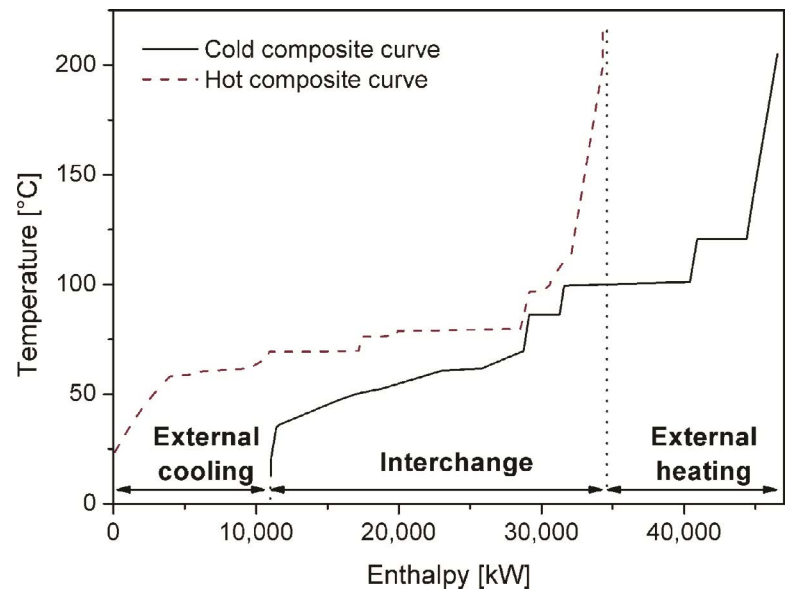
CSSI is equipped to perform a complete thermal mass balance on the system and identify the most efficient process for thermal exchange. Pinch Analysis: The CSSI certified CEM Auditor will analyze the complete steam system taking measurements of the variables associated with your process, such as PV temperatures, SV temperatures, steam pressures at critical locations, Volumes and Product Quantities, Process requirements etc. The auditor will work out your process specific thermal loads and benchmark individual process and total BTU exchange.

REPORTING PROCESS

Includes a comprehensive data analysis and Calculations. A comprehensive Comparison between the actual flow of energy in the system and the benchmarked values. Computing all necessary data to quantify actual savings on achieving set goals and setting a road-map to achieve the energy goals.

FINANCIAL SAVINGS

The report will include a detailed financial map with savings statement through the recommendations. This will include paybacks and include rebates from utility company and quantify annuities to add to your bottom-line. We also look at the possibility of funding the projects or work in partnerships with your organization to mutually benefit both.



ADJACENT AUDIT CAPABILITIES

Water Conservation

CSSI offers a detailed water consumption audit which includes identifying potential to save water or recover wasted water. Water wastage and dumping of waste water are expensive for facilities. Our approach includes Water flow metering, Water Quality Monitoring, quantifying water conservation and associated dollar value and implementing water recovery Solutions.

Compressed Air

Compressed Air is the most expensive utility for any facility. CSSI offers a comprehensive compressed air system audit which includes checking air quality and identifying pressure losses in distribution or utilization.

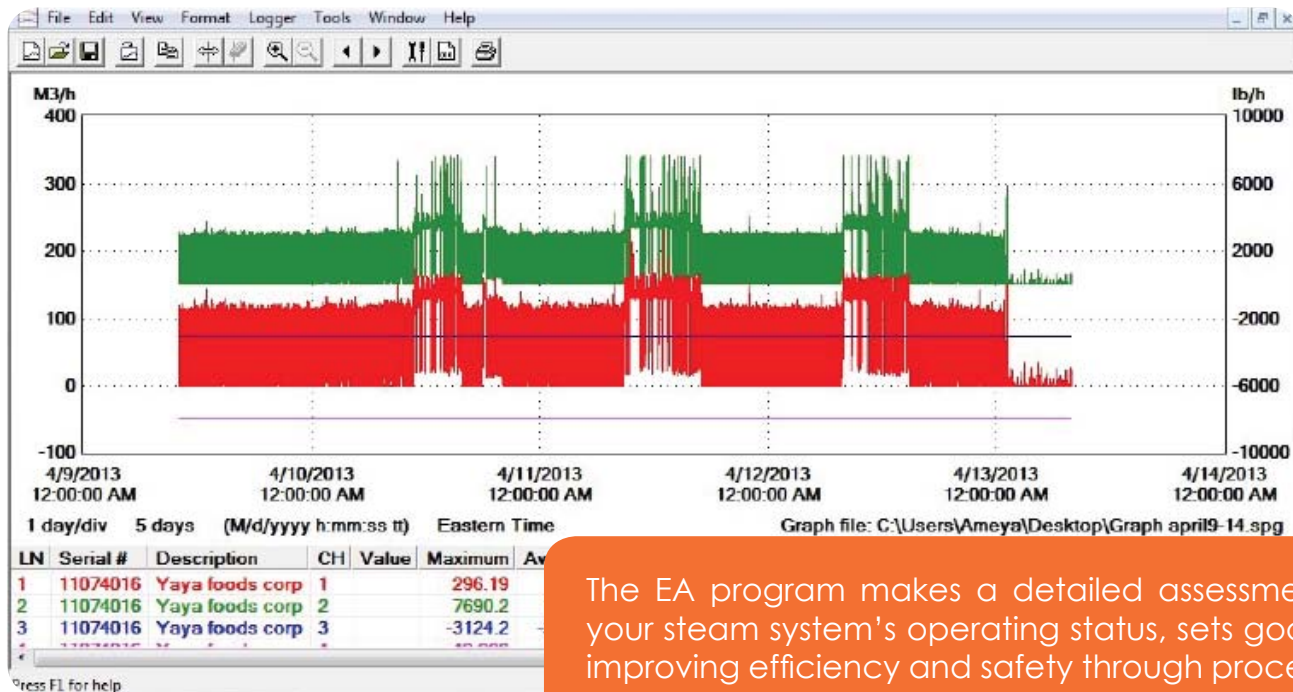
Electricity

We offer metering services for Electricity consumption and peak load demand plotting for facilities. A complete comparative study for heat loads with Steam/ Direct combustion/Hydro consumption.

Cogen Feasibility

CSSI comes with good expertise and experience for cogen feasibility studies. The study includes the Electricity demand mapping, waste heat utilization study, primary turbine, secondary steam boiler and possibly water heating or load study for maximum utilization of combustion energy. A comprehensive study to identify, verify and justify the need of a cogen technically as well as commercially.

THE ST&T APPROACH FOR THE ENERGY AUDIT PROGRAM



The EA program makes a detailed assessment of your steam system's operating status, sets goals for improving efficiency and safety through procedure changes and equipment upgrades, and renew training for all your personnel on all the features and operations of your steam system components. We work closely with utility companies and assist in getting the maximum rebate for your projects.





ENBRIDGE REBATE

Energy Assessment and Measurement Incentive Structure

Customers are eligible for a rebate of up to 50% of the cost up to a maximum of:



ANNUAL NATURAL GAS CONSUMPTION	MAXIMUM INCENTIVE
2,500,000 m ³ or greater	\$10,000
1,000,000 m ³ to 2,499,999 m ³	\$6,000
300,000 m ³ to 999,999 m ³	\$2,000
Upto 299,999 m ³	\$1,000

Action and Implementation Incentive Structure

Customers are eligible for a incentives based on consumption savings up to a maximum of the greater of 50% of the cost of implementation or \$100,000 per project:

SAVINGS ASSOCIATED WITH PROJECT	INCENTIVE
First 50,000 m ³ saved	\$0.02/ m ³ saved
Each cubic meter beyond 50,000 m ³ saved	\$0.05/ m ³ saved

UNION GAS INCENTIVE INFORMATION

Energy Feasibility Studies

Union Gas will help fund studies to identify and quantify potential energy saving measures on natural gas consuming equipment, gas-related heating systems or facilities. Studies analyze an existing building or process to determine the changes that will increase your overall energy efficiency.

- **WHY STUDIES HELP:** Determine your current energy costs, pinpoint problem areas and prioritize energy improvements. Union Gas will pay varying percentages of the actual cost of the project.
- **TYPICAL STUDIES INCLUDE:** Thermal surveys, facility air-balances, HVAC audits, energy audits, benchmarking activities and equipment upgrade studies.

Money Saving Customer Incentives

- Commercial Customers: 30% up to \$4000
- Industrial Customers: 50% up to \$10,000
- One study/site/year
- \$10,000 cap applies to multi-site industrial customers one study per year



Ameya Desai
T . 647-539-9699
E . ameya.desai@customsteam.ca

Marcus Bellot
T . 647-284-8048
E . marcus.bellot@customsteam.ca