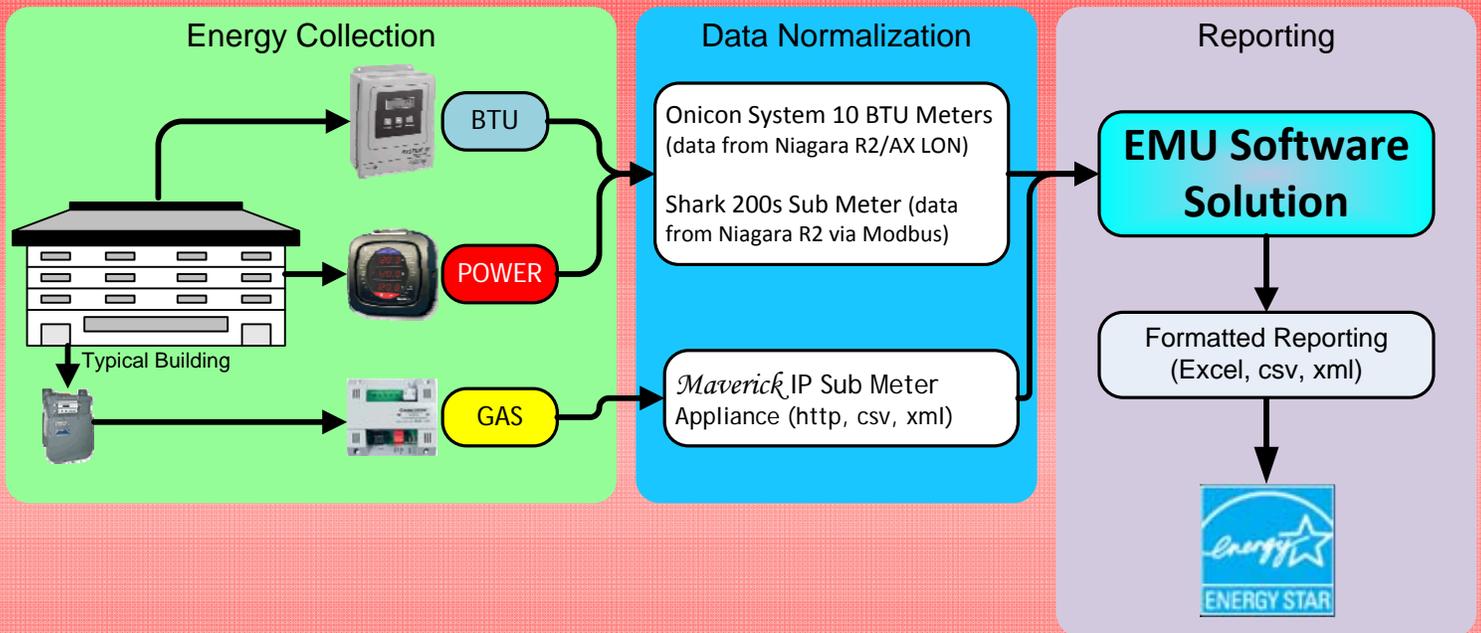


OLYMPIC COLLEGE

Energy Monitoring & Utility Reporting Mini-Case Study

Olympic College is a campus that has several Energy Management Systems. Not all EMS systems communicate and share information. Upgrading the various EMS systems was not cost effective. The campus had recently installed Shark power meters during an ESCO project. To maintain consistency they decided to continue installing the meters instead of installing lower cost meters. Several buildings have the Alerton IBEX control systems installed. Collecting Gas and BTU energy data from these systems needed another solution. The college selected *Maverick* IP Sub Meter Appliances to pick up Gas from all buildings using gas and BTU energy data from Alerton buildings. The EMU Software was developed to gather energy data from multiple EMS Systems and the *Maverick* IP Sub Meters. EMU Software was customized for each control system thereby providing the college with an easy to use interface to report energy data. The software allows the user to quickly generate energy reports for ENERGY STAR® Portfolio Manager reporting.



Project Costs

- | | |
|--|--------------|
| • <i>Maverick</i> IP Sub Meter Appliance (approx. installed cost per building) | \$ 1,100.00* |
| • Shark 200s Sub Meters (approx. installed cost per building) | \$ 5,000.00* |
| • Onicon System 10 BTU Meters (approx. installed cost per building) | \$ 7,000.00* |
| • EMU Customized software to tie into existing EMS System | \$ 3,500.00* |
| • Metering per building this project (Shark 200s and Onicon BTU) | \$12,000.00* |

Total Energy Metering cost for 21 buildings
(excludes project management fees and other indirect costs) (approx.) \$ 286,000.00*

Summary

This energy monitoring and reporting system represents a “cadillac” version of energy reporting. The ESCO project aided in the addition of high-end energy monitoring equipment at Olympic College. Most energy monitoring and reporting systems will cost much less. The features needed versus features wanted drives the cost for these systems.

* Pricing is estimate only, actual costs are reflected in two separate ESCO Projects.

For more information Call 1-800-381-8208 or Email: bill@tempestsys.com

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