

Overview

Vykon[®] Energy Suite (VES) is an applications suite designed to help manage energy and facilities. Built on the Niagara Framework[®], VES has the ability to gather data from diverse systems including utility meters, building automation systems, and mechanical and electrical systems. VES integrates common protocols including Modbus, BACnet, OPC, and LonWorks. In addition, users can import data from a variety of sources including CSV, HTML, MV-90, and XML. Beyond data gathering, VES provides a window into the energy portfolio with a web-based reporting suite.



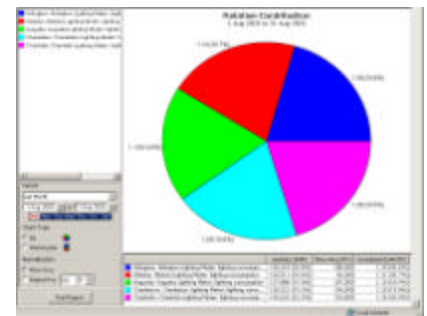
Applications

Vykon[®] E² Profiler is a module in VES that provides an advanced, user-friendly profiling tool designed to help users manage **Energy** and **Enterprise (E²)** systems. E² Profiler offers extensive reporting flexibility allowing users to profile any data point over any period of time. Users can trend and analyze energy, temperatures, production, and facility data. The day of week selector allows users to define days or a combination of days to be considered in a given report. Fully browser-based, intuitive navigation tools make it easy to get the information when you need it, where you need it. E² Profiler utilizes a robust time series database that enables complex, multi-faceted computations. Hundreds of thousands of records from years of data can be presented in web-based reports within seconds.

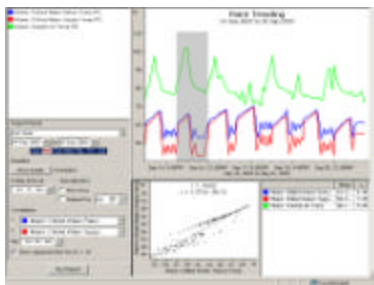
Vykon E² Profiler™ Data Sheet

Energy Benefits

Users can analyze consumption, demand, and compute load factor with a click of the mouse. Meters can be aggregated and disaggregated on the fly to determine how underlying meters affect the total portfolio. E² Profiler allows different commodities to be converted to a common measurement unit to aggregate and compare dissimilar energy types. In addition to the flexible reporting capabilities, E² Profiler normalizes potentially confounding variables such as weather and floor area to see what energy would have been under "normal" circumstances. With the comprehensive baselining features, users can compare energy usage against historical levels, giving users a scorecard on their conservation efforts.



Enterprise Benefits



E² Profiler provides sophisticated facility reporting to analyze production information, temperatures, chilled water, equipment status, and more. Users can determine correlations and perform other statistical analysis on buildings, equipment, and energy. The exception report allows users to determine anomalies by comparing data values against a baseline or versus a user defined range. The equipment operation report allows users to compare runtime with runtime percentage information. E² Profiler provides a comprehensive M&V tool that meets International Performance Measurement and Verification Protocol (IPMVP) guidelines. The robust reporting capabilities make it the perfect tool for commissioning buildings and equipment.

Features



- ◆ Dynamic profiling allows for transitioning between reports without redefining set parameters.
- ◆ Web-based application enables anytime, anywhere access.
- ◆ Universal comparison allows users to convert measurement units to a common unit.
- ◆ Graphical zoom provides ability to zoom in horizontally and vertically for more in-depth analysis.
- ◆ Allows for aggregation of energy data on the fly.
- ◆ Customizable Energy Portal Page and HTML frame support permits partners

to develop product consistent with its company graphics and messaging.

- ◆ Extensive data import capabilities allow interval data to be added to the database.
- ◆ Localization support provides quick translation into several languages .

E² Profiler Reports

Aggregation Analysis – Computes consumption and demand along with load factor for a point or group of points.

Average Daily Profile – Displays an average 24-hour period for any day or combination of days.

Enterprise Ranking – Ranks meters in the enterprise to identify the most and least efficient buildings.

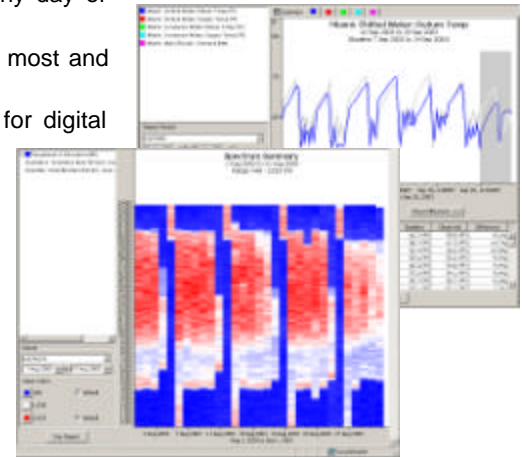
Equipment Operation – Displays runtime and runtime percentage for digital points.

Exceptions – Allows users to compare data values versus a baseline or against a defined range of values.

Point Trending – Performs statistical analysis to determine correlations, standard deviations, slope, regression line, and mean.

Relative Contribution – Determines how submeters or multiple main meters contribute to total energy within or between sites.

Spectrum Summary – Utilizes pattern recognition to quickly identify anomalies with inconsistent patterns indicating a need for more detailed analysis.



Server Hardware Requirements

- Intel Pentium™ III, 500 MHz or higher.
- Internet Explorer™ 5.0 or later or Netscape Communicator™ 4.5 or later.
- 1 GB hard drive minimum and 5 GB for applications that need extensive archiving capacity.
- Display should have 1024 x 768 pixel resolution.

Ordering Information

Point blocks can be purchased starting at 15 points. Flexible license programs allow users to buy perpetual or annual licenses. Optional software maintenance programs are available and highly recommended.

www.tridium.com

North America

3951 Westerre Parkway, Suite 350
Richmond, VA 23233-1313
Phone 1.800.747.4771
Fax 1.800.747.5402

Europe

1 The Grainstore
Brooks Green Road
Coolham, West Sussex, United Kingdom
RH13 8GR
Tel. +44 (0) 1403.740290
Fax. +44 (0) 1403.741804

Asia Pacific

101 Cecil Street #10-11
Tong Eng Building
Singapore 069533
Phone +65.6.887.5154
Fax +65.6.887.5342