

IMServ Energy DataVisualisation 2.0 (EDV)

Service overview

Energy DataVisualisation 2.0 (EDV) provides seamless integration of energy management data in a single energy management system.

By enabling organisation's to tailor their energy management needs through an easy to use online tool, an organisations business structure and energy strategy can be replicated and managed to achieve clear and easy visibility of all energy data regardless of data source, utility, measurement type and frequency or data transfer.

With a broad range of modular tools users can select the data analysis outputs that best suits

- energy managers, in making key strategic decisions,
- stakeholders, with quick to understand reports and dashboards,
- carbon managers, in meeting legislative requirements,
- facility managers, in reacting to key changes in operational activities,
- finance managers, in seeing changes to energy costs, energy saving projects and tariff changes,
- environmental and renewable managers, in determining investment payback and carbon savings

Using a modular approach, EDV can be tailored to provide easy to use solution for small single site companies to a multi-module solution for multi-national organisations with broad metering solutions, complex portfolios and different user access needs.

With added options for service providers including administration tools, branding, multi-lingual configuration, end user help guides, videos and FAQ, EDV can provide Energy Saving Product sellers and Environmental service providers with an added value service and continuing visibility of their brand.

Hosted within a secure data centre, custom built to be the platform for all of IMServ's industry regulated systems, EDV offers a reliable and scalable solution to organisations energy data requirements.

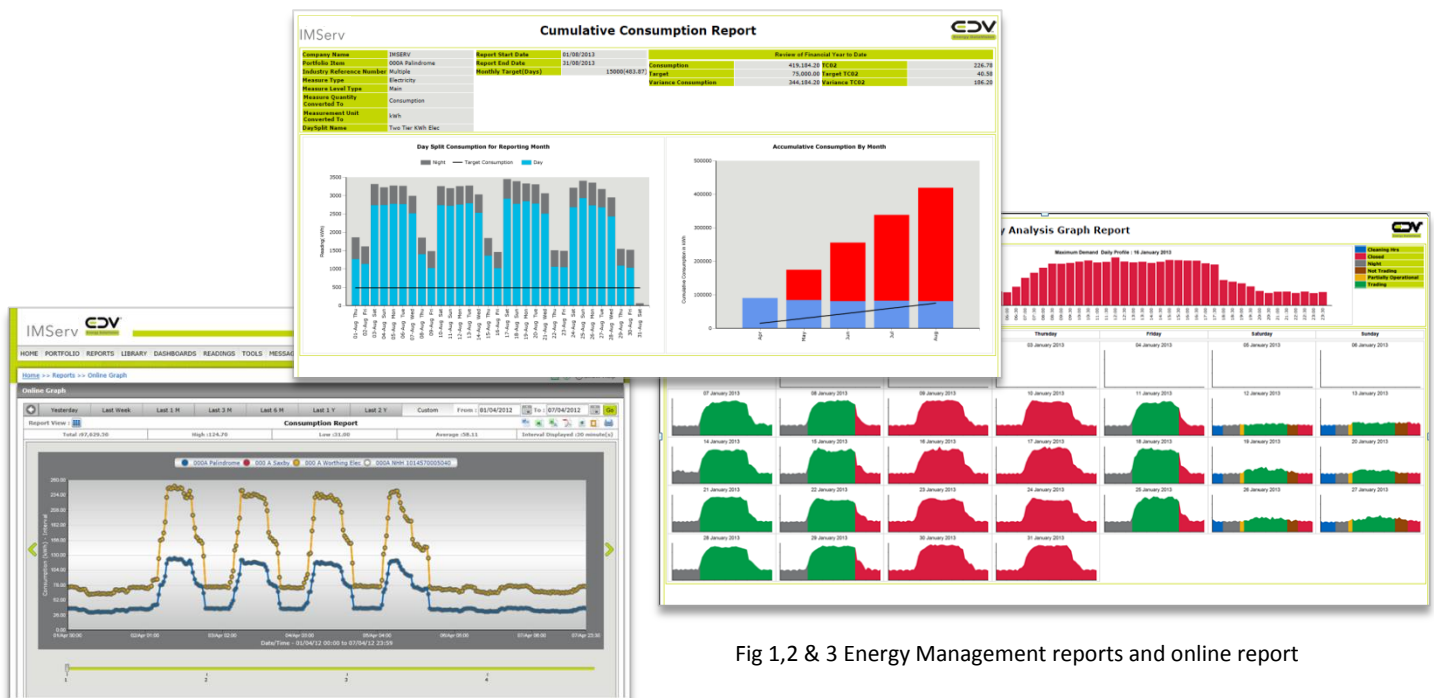


Fig 1,2 & 3 Energy Management reports and online report

Features and Benefits

Feature	Benefit
Data Independence	Energy DataVisualisation 2.0 (EDV) is independent to IMServ's data collection services and can hold data from internal building management systems, independent data solutions or IMServ retrieved data to provide customers with a single point of view for all energy data.
Data Integration	Where IMServ's Data Collection services are in place, seamless integration of data into EDV will be managed and maintained providing an end to end data provision service.
Independently Managed Software	Customers can manage user access and privileges to allow quick and easy control of system. Help guides, videos and FAQs are available to answer questions quickly and efficiently.
High Availability	A fully backed up data centre with off-site disaster recovery along with an experienced and dedicated service delivery team.
Scalable	IMServ's data centre is fully scalable providing the same high performance regardless of the selected service or type of business.
Upgrade	Increase of historic data visibility, storage allowance and user access allowing a cost effective upgrade if and when required.

Portfolio Management	Portfolio management allowing the replication of an organisational geographical hierarchy. Reporting can then occur at company summary level down to site and individual meter. Aggregating data allow reduced site administration and easy integration of data regardless of company size.
Energy Management Report Modules	Vast suite of consumption reports providing answers on everything from power efficiency, energy wastage, on-going site reduction progress and site prioritisation.
Bill Management and Tenant billing module	Tariff storage and conversion of consumption to cost based on tariff uploads. Providing accurate financial reporting on energy spend. Tenant billing reports allowing sub meters and virtual meters to drive tenant invoicing and cost recovery on sub-let energy supply.
Mapping Module	Visibility of portfolio on map functionality allowing geographical trends to be easily identified.
Data Writer Module	Consumption data writer to create easy integration into exported system with tailored formatting and automatic FTP data communication.
Query Management module	Query Management functionality to allow tracking and resolution of issues across companies and between service provider and customer.
Project Analysis Module	Ability to collate actual and proposed operational changes to enable best operational patterns for lowest energy cost. Pre project Return On Investment (ROI) calculation for energy saving project business cases along with post project analysis for true on-going ROI .
Alerting Module	Alert setting for proactive communication detailing everything from water leaks, fuel theft and unusual peak energy patterns.
Dashboard Module	Activation of near real time dashboards to communicate to employees and external customers using television monitors in key areas such as reception, show rooms and cafeterias.
Service Provider module	Account management of multi end user customers allowing service providers the full range of tools to support their own end customer services.
Project Analysis Reports	Project analysis reports allow statistical analysis of consumption data allowing normalisation and comparison against profile tolerance values, weather and degree day data to support direct comparison in causal patterns to influence next step energy saving changes.
Energy Management Reports	A suite of consumption reports allowing energy data and related operational data to be output in a variety of file formats via online presentation, export via scheduled email or FTP to support easy communication of all consumption reporting needs.
Account Reports	A suite of account reports allowing accounts and users to be proactively managed and to support commercial offerings.
Carbon Reports	A suite of emission reports allowing energy data to be converted to carbon using both CRC and GHG conversion factors.

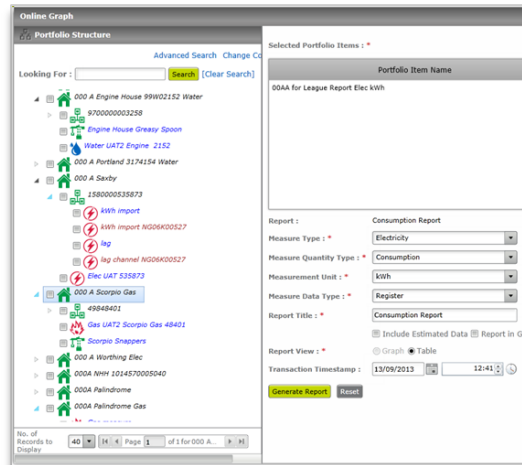
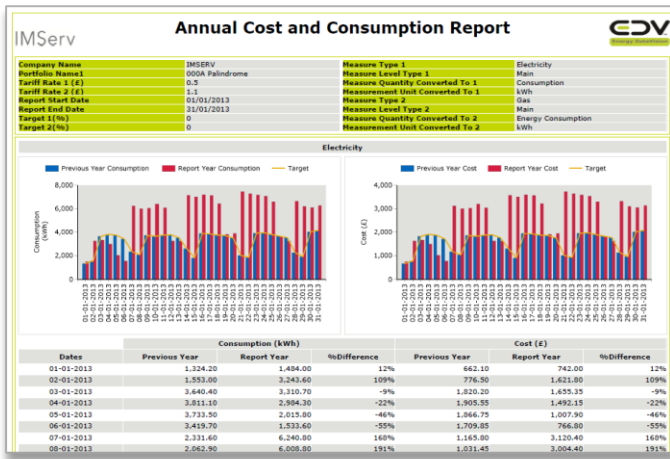


Fig 4 & 5 Energy Management reports and portfolio

Service Management

Energy DataVisualisation (EDV) 2.0 is an independent Energy Management system but can be a fully managed service that can be integrated into IMServ's data collection services to provide an end to end metering installation, communication infrastructure and data integration offering

Supporting Services

Experienced bureau resource offering proactive data analysis, report production and distribution, portfolio management, bill verification and forecasting.

No Additional System Requirement

Facilities – The data centre is designed to be fault tolerant with redundant cooling, power distribution, fire protection systems, UPS and generator backup. The site is supported by dedicated in house technical teams trained to run and manage IMServ's IT portfolio.

Data Security – Integrity and security of customer data is one of IMServ's primary concerns, we employ a number of techniques to ensure platforms remain secure. Customer connections utilise secure protocols and are served through multiple firewalls in a DMZ (Demilitarized Zone) configuration. Platforms are subject to external penetration testing and strict code control to ensure integrity.

Data, backup and DR – Customer data is housed on state-of-the-art redundant Storage Area Network (SAN) which is synchronized to the DR site. In addition all data is backed up to removable media daily and stored in a secure offsite location.

Accreditation's – IMServ operate to ISO9001, ISO27001 and ISO14001 environmental accreditations. The working practices are audited to ensure quality and security are in line with expectations.

Why IMServ

With over 20 years experience in the energy collection and metering industry with over 80 billion units of energy data monitored annually remotely monitored. IMServ have extensive expert in helping customers reduce their energy consumption and help them achieve up to 30% cost savings.

For more information

To find further information on IMServ and their services please go to <http://www.imserv.com>