

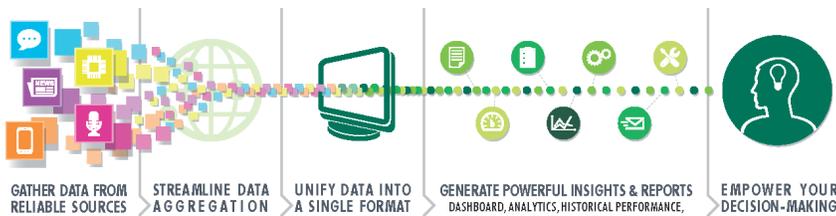
# DATA MANAGEMENT



**OVERVIEW** | To implement a successful energy management program, sound data and usage statistics are required to set the energy baseline and to measure on-going progress. This entails tracking and reviewing energy invoice data, metering data, system diagnostics, audit results, benchmarking, system monitoring, budget forecasting, and variance reporting in a variety of ways and in multiple formats. CBRE E&S's partnerships, processes and proprietary technology platform, Envizi, reduce the time needed to collect and aggregate data; analyze and generate reports; and identify and prioritize project and initiatives.

## OUR PROCESS

E&S works with our customers to create a centralized process for collecting and storing utility bill data with a third party bill administration vendor or through a manual process. This solution is combined with invoice auditing to ensure the account and meter information is correct and that the client is categorized in the appropriate rate and tariff structure. Once the billing data is being collected and stored, additional data from various source systems, e.g. PMS, BAS/BMS, can be combined to validate and enrich the available reporting.



Next we audit the sites to evaluate energy usage and consumption as well as a thorough system evaluation, equipment review and operations and maintenance assessment. With the audit solution implemented, a comprehensive inventory of projects and initiatives is provided and the data is aggregated in Envizi along with the utility bill and other information. The ability to manage the energy and sustainability information in a centralized and organized model allows our client to balance environmental concerns with cost-saving business solutions.

Reporting capabilities include:

- Consumption and cost of energy, fossil fuels and other utilities (water, waste, etc.),
- Carbon emissions including historical, reductions and equivalence data
- Cost variances and benchmarking summaries
- Baselines to evaluate performance contracts
- Measure and verify the results of energy conservation programs and initiatives
- Site-based energy cost performance showing the best, worst and averages across the organization
- Normalize reports based on weather data, square footage or other user-defined criteria

## BENEFITS

- Analyze utility data to recommend solutions which create cost-effective savings.
- Provide customers with tools to measure, report, and reduce energy costs and usage, improve environmental sustainability and the "bottom line".
- Identify savings when utility invoices and metering data are centrally captured, analyzed and mined for all available cost and usage savings opportunities.
- Help clients understand how they consume energy and how to manage both commodities markets and change employee behaviors. This continuous process improves efficiency and reduces overall energy cost and consumption over time.
- Produce savings through energy rates and energy usage reductions, along with the elimination of late fees.
- Reduce processing time allocated to payment allowing you to concentrate on your core business.
- Facilitate reporting.

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