



# Energy Management

Track and manage energy use to control costs, reduce carbon footprint, and mitigate risk

With lower utility costs, mandates to reduce carbon emissions, and sustainability efforts gaining more visibility, effective energy management has become even more important for organizations. ARCHIBUS Energy Management provides the means to easily aggregate, evaluate, and optimize energy and utility spending decisions to reduce unnecessary consumption and costs. Unlike spreadsheets or finance software alone, Energy Management helps users correlate and manage extensive cost and consumption data with real-time facility and infrastructure portfolio information to track energy expenditures against a business plan or objective benchmarks.

## Reports and Summary Tables:

- Utility Costs by Type
- Utility Costs with Consumption
- Utility Costs with Rates
- Electric Load Factor
- Electric/Gas Consumption or Demand vs. Weather Model
- Utility Metrics by Building, Building Use, etc.
- Measured Energy Consumption Over Time
- Measured Energy Consumption by Location
- Utility Bill Proration
- Annual Energy Cost and Consumption comparisons
- Interactive Energy Intelligence Reports
- What-If Projections of Energy Cost and Occupancy Changes
- GIS Thematic Maps of Energy Cost
- **Plus Many More...**

## Benefits

- **Helps lower annual energy costs, typically by 5% (or approximately \$0.10 – 0.20 USD per square foot of space/year) and reduces carbon footprint**
- **Provides audit capabilities to easily access, aggregate, and evaluate consumption patterns as the basis to renegotiate rates, consolidate energy providers, and target opportunities for improvement**
- **Reduces business risk and exposure to changes in energy costs or carbon emissions regulation through “what-if” analyses**
- **Improves decision-making by aligning energy spending to organizational priorities**



Graphical dashboard views, such as Utility Cost with Consumption (by building and billing period) shown above, simplifies visualization and analysis while improving decision support for energy management strategies

## Reduce Costs and Carbon Footprint

Utility costs represent, on average, 13% of total annual facility costs according to the International Facility Management Association (IFMA). As organizations increasingly embrace energy/carbon footprint reduction goals, it becomes equally clear that spreadsheets and accounting software are unable to map current energy usage, model remediation scenarios, and measure the effectiveness of periodic changes, based on normative standards. ARCHIBUS Energy Management does all that and more with analytic tools that can help lower energy costs by 5%, or about \$0.10 – 0.20 USD per square foot. The application, which typically pays for itself in less than one year, factors in a wide range of variables to control expenses while helping to achieve energy conservation targets.

- Organize and evaluate a large volume of current or historical consumption, cost, facility, and weather data to reduce energy consumption across a portfolio
- Employ a weather model to normalize fluctuations in weather conditions, and obtain consistent, accurate data to allow streamlined comparison of properties that vary in climate, size, use, or occupancy
- Reduce the incidence of billing errors such as charges for overlapping dates, expired leases, and incorrect properties or tenants
- Identify buildings with unusual consumption patterns or energy intensity to target remediation actions that can often be completed in the normal scope of building operations and preventive maintenance

## Access, Aggregate, and Evaluate Energy Usage

Tracking and controlling energy use is an elusive goal without the right tools. ARCHIBUS Energy Management centralizes the management of energy initiatives based on actual operating data. It provides managers with the means to understand how and where energy is purchased and used in order to optimize efficiency and enforce best practices using real-time information.

- Gain visibility to compare energy rates, consolidate purchases, and effectively negotiate volume discounts
- Capitalize on utility providers' demand-management programs which give financial incentives for reduced peak-hour energy use
- Use Electronic Data Interchange (EDI) to upload billing information and uncover anomalies with reporting that correlates data within complex bills and validates billed values against measured values from submeters and BAS data
- Benchmark energy consumption and spending using KPIs based on BOMA, Energy Star, IFMA standards

## Mitigate Risk with Improved Analyses and Planning

In an energy management context, managers must balance a wide range of needs, from making capital project decisions to calculating the Return on Investment of remediation efforts. ARCHIBUS Energy Management provides the tools to transform these calculations from labor-intensive exercises to streamlined decision support aids.

- Implement interactive dashboards to conduct "what-if" scenario planning and identify energy-inefficient buildings and cost centers that reduce profitability
- Measure baselines and objectively assess progress against regulatory mandates or industry benchmarks
- Conduct analyses to evaluate potential savings attributed to conservation, renovation, co-generation or demand-response agreements
- Run scenarios to determine the cost effectiveness of various improvement measures
- Influence sustainability policy by measuring an organization's carbon footprint with defensible accuracy

## Align Spending/Priorities, Reuse Existing Data

ARCHIBUS Energy Management can improve decisions by aligning energy spending with organizational priorities. By linking energy costs to occupancy decisions, organizations can decrease expenses by phasing out of buildings with high energy costs relative to other occupancy costs. In addition, by integrating Energy Management with other ARCHIBUS applications, organizations can accelerate efficiencies to further reduce operating costs.

- Bill energy costs back to tenants and/or internal cost centers equitably by using ARCHIBUS Cost Chargeback & Invoicing
- Identify and prioritize action items to reduce energy use (such as re-lamping projects, tuning dampers, window replacement, and more) using ARCHIBUS Environmental Sustainability Assessment
- Issue and track remediation work orders with ARCHIBUS On Demand Work

For more information, visit [www.archibus.com/em](http://www.archibus.com/em)

