



Facility Energy & Condition Assessment Services

Actionable insights to reduce energy costs, improve performance, and plan for long-term resiliency.

A high-quality facility assessment is the first critical step in identifying energy-saving opportunities, reducing operating expenses, and improving system performance. At kW Engineering, we provide comprehensive facility energy and condition assessments that deliver actionable insights to help facilities enhance efficiency, maintain regulatory compliance, and build long-term resiliency against rising energy costs and evolving sustainability mandates.

Our assessments are not one-size-fits-all. We design each engagement to meet the specific needs of the facility and its stakeholders, whether that means identifying near-term operational improvements, evaluating capital investment opportunities, supporting regulatory or funding requirements, or developing long-term energy and decarbonization strategies.

Each assessment begins with a detailed evaluation of facility operations, energy use patterns, and equipment conditions. We then identify opportunities ranging from no-cost and low-cost operational improvements to strategic capital upgrades that enhance system performance, occupant comfort, reliability, and overall efficiency.



Setting the Standard in Energy Auditing

Energy auditing has been central to our DNA from the beginning. Our founder played a key role in developing industry standards, leading the creation of ASHRAE's Procedures for Commercial Building Audits "green book" and the subsequent ASHRAE Standard 211. We've completed over 2,000 unique ASHRAE-compliant audits, providing clients with actionable insights and measurable results.

Deliverables You Can Use

Clients receive a clear, decision-ready report with prioritized recommendations, which may include:



Analysis of historical energy use and utility costs



Benchmarking against similar facilities



Actionable Energy Efficiency Measures (EEMs)



Facility condition findings and risks



Estimated project costs



Estimated energy and cost savings



Economic and feasibility analysis



Implementation and incentive considerations



Assessment Types We Offer

We provide customized assessments that can align with industry standards or be tailored to unique project goals:

- 1

Comprehensive Facility Energy Assessments
- 2

Retro-commissioning or Energy Management
- 3

Facility Condition Assessments (FCA) & Feasibility Analyses
- 4

Decarbonization Assessments & Roadmap Development
- 5

Utility-, incentive-, or grant-driven assessments
- 6

Facility benchmarking
- 7

ASHRAE-aligned audits (Levels 1,2,3.), when required
- 8

Targeted System Assessments (HVAC, lighting, process loads, controls, refrigeration, etc.)



Example Projects

Client Name	Annual Energy Savings kWh	Annual Energy Savings Therms	Annual Cost Savings	Project Cost	Annual Incentives	Simple Payback
JW Marriott Essex House	539,000	33,000	\$180,000	\$641,000	\$79,500	3.1
Marin Municipal Water District	1,076,000	N/A	\$194,000	\$505,000	\$104,000	2.1
Santa Clara County – Main Jail North	1,244,000	2,900	\$162,000	\$634,000	\$181,000	2.8

We have deep expertise in auditing facilities across a wide range of sectors:

- Commercial Buildings
- Higher Education
- K-12 Schools
- Healthcare & Laboratories
- Data Centers & High-Tech Facilities
- High-Rise Buildings
- Food Processing & Manufacturing
- Grocery & Retail
- Refrigerated Warehouses
- Hospitality
- Municipal, Government, & Institutional facilities