

T R A D E

Checklist for Corporate Energy Efficiency



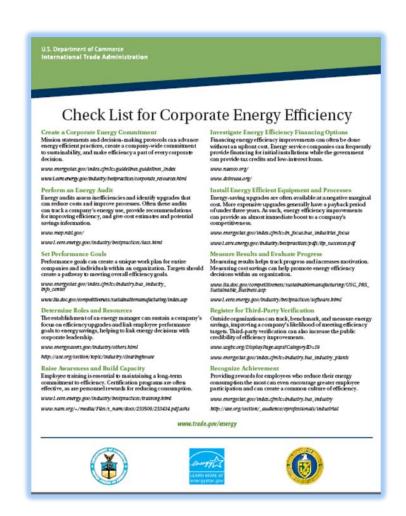




Ryan Mulholland International Trade Specialist U.S. Department of Commerce

DOC-Manufacturing and Services

- The Department of Commerce is committed to energy efficiency as a major competitiveness tool for U.S. businesses
- The Office of Energy and Environmental Industries can be a resource for U.S. manufacturers
 - Provide market research and opportunities
 - Voice industry concerns within the federal government
- http://www.trade.gov/energy



Step 1: Create a Corporate Energy Commitment

Mission statements and decision-making protocols can advance energy efficient practices, create a company-wide commitment to sustainability, and make efficiency a part of every corporate decision.

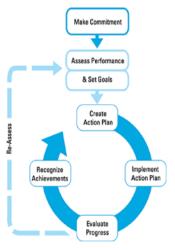
Guidelines for Energy Management Overview

EPA offers a proven strategy for superior energy management with tools and resources to help each step of the way. Based on the successful practices of ENERGY STAR partners, these guidelines for energy management can assist your organization in improving its energy and financial performance while distinguishing your organization as an environmental leader.

The steps:

- STEP 1: Make Commitment
- STEP 2: Assess Performance
- STEP 3: Set Goals
- STEP 4: Create Action Plan
- STEP 5: Implement Action Plan
- STEP 6: Evaluate Progress
- STEP 7: Recognize Achievements







Department of Energy Resources for Corporate Decision Makers



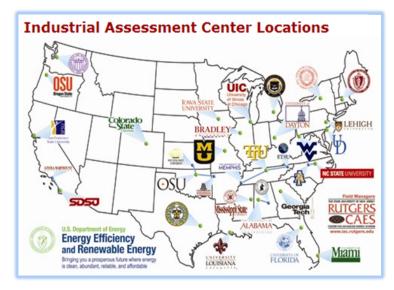


Step 2: Perform an Energy Audit

Energy audits assess inefficiencies and identify upgrades that can reduce cost and improve processes. Often these audits can track a company's energy use, provide recommendations for improving efficiency, and give cost estimates and potential savings information.



Manufacturing Extension Partnership



Department of Energy Industrial Assessment Centers



Step 3: Set Performance Goals

Performance goals can create a unique work plan for entire companies and individuals within an organization. Targets should create a pathway to meeting overall efficiency goals.



Energy Star Management Information Center



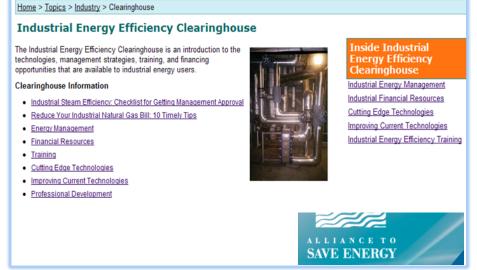
Department of Commerce – Sustainable Manufacturing Initiative



Step 4: Determine Roles and Resources

The establishment of an energy manager can sustain a company's focus on efficiency upgrades and link employee performance goals to energy savings, helping to link energy decisions with corporate leadership.





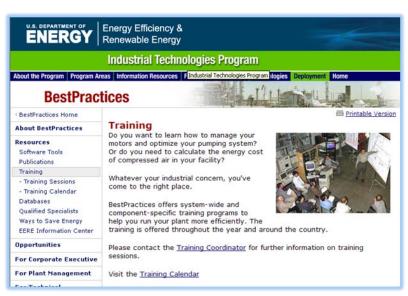
DOE- Information for Plant Managers and Engineers

Alliance to Save Energy – Industrial Efficiency Clearinghouse

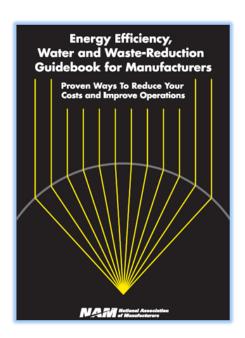


Step 5: Raise Awareness and Build Capacity

Employee training is essential to maintaining a long-term commitment to efficiency. Certification programs are often effective, as are personnel rewards for reducing energy consumption.



Best Practices in Energy Efficiency Training



National Association of Manufacturers Guidebook for Manufacturers



Step 6: Investigate Energy Efficiency Financing Options

Financing energy efficiency improvements can often be done without an upfront cost. Energy service companies can frequently provide financing for initial installations while the government can provide tax credits and low-interest loans.



National Association of Energy Service Companies



Database of State Incentives for Renewables and Efficiency

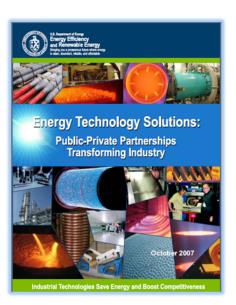


Step 7: Install Energy Efficient Equipment and Processes

Energy-saving upgrades are often available at a negative marginal cost. More expensive upgrades generally have a payback period of under three years. As such, energy efficiency improvements can provide an almost immediate boost to a company's competitiveness.



Energy Star Industry-Specific Tools and Resources

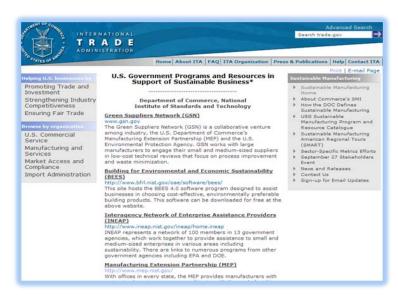


Department of Energy *Energy-Technology Solutions*

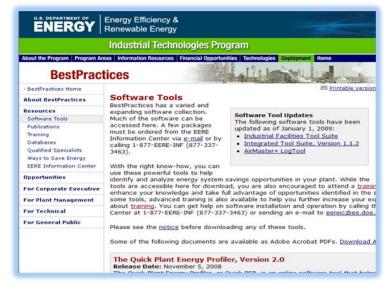


Step 8: Measure Results and Evaluate Progress

Measuring results helps track progress and increases motivation. Measuring cost savings can help promote energy efficiency decisions within an organization.



International Trade Administration – Resources for Sustainable Business

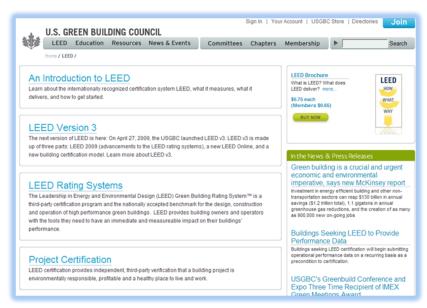


Department of Energy Software Tools for Managing Energy



Step 9: Register for Third-Party Verification

Outside organizations can track, benchmark, and measure energy savings, improving a company's likelihood of meeting efficiency targets. Third-party verification can also increase the public credibility of efficiency improvements.







EPA Energy Star Plaque – Plants can display only if they meet Energy Star requirements



Step 10: Recognize Achievement

Providing rewards for employees who reduce their energy consumption the most can even encourage greater employee participation and can create a common culture of efficiency.



Energy Star for Industry



Alliance to Save Energy – Recognition for Energy Management Leaders



Additional Information

Useful Websites

- <u>Department of Commerce Office of</u>
 <u>Energy and Environmental Industries</u>
- EPA Industrial Energy Star Program
- <u>Department of Energy Industrial</u>
 <u>Technology Program</u>
- Industrial Assessment Centers
- Manufacturing Extension Partnership
- Alliance to Save Energy
- American Council on an Energy-Efficient Economy
- National Association of Manufacturers
- Green Building Council
- <u>Database of State Incentives for</u> Renewables and Efficiency

<u>Department of Commerce Contact</u> <u>Information</u>

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