

Selected References on Energy and Energy Management

ASHRAE publications:

- 2007 ASHRAE Handbook-HVAC, Chapter 35 - Energy Use and Management
- Procedures for Commercial Building Energy Audits (2004)
- ASHRAE Standard 100-2006 Energy Conservation in Existing Buildings
- Energy Efficiency Guide for Existing Commercial Buildings: The Business Case for Building Owners and Managers

Avina, J. (2008), "Making the Right Choice: The guide to choosing the best desktop utility bill tracking software for your facility," *Strategic Planning for Energy and the Environment*, 27(4), Spring 2008, 20-25.

Claridge, D.E., M. Liu, W.D. Turner, Y.Zhu, M. Abbas, and J.S. Haberl. (1998) "Energy and comfort benefits of continuous commissioning in buildings," *Proceedings of the International Conference Improving Electricity Efficiency in Commercial Buildings*, Amsterdam, pp. 12.5.1-12.5.17

Duff, J.M. (1999) "A justification for energy managers" *ASHRAE Transactions* 105(1):988-992.

Langley, G. et al. (2009), *The Improvement Guide: A Practical Approach to Enhancing Organizational Performance*, Jossey-Bass, San Francisco

Liu, M., D.E. Claridge, J.S. Haberl, and W.D. Turner. (1997) "Improving building energy systems performance by continuous commissioning," *Proceedings of the Thirty-Second Intersociety Energy Conversion Engineering Conference*, Honolulu, vol.3.

Mendell, M.J. and A.G. Mirer (2009), "Indoor thermal factors and symptoms in office workers: findings from the US EPA BASE study," *Indoor Air*, 19, 291-302.

Mills, E. and P. Mathew. (2009) "Monitoring-Based Commissioning: Benchmarking Analysis of 24 UC/CSU/IOU Projects," Lawrence Berkeley National Laboratory Report number 1972E.

Mills, E. (2009), "Building Commissioning: A Golden Opportunity for Reducing Energy Costs and Greenhouse Gas Emissions" report for California Energy Commission Public Interest Energy Research ; <http://cx.lbl.gov/2009-assessment.html>

Russell, C. (2006) "Energy Management Pathfinding," *Strategic Planning for Energy and the Environment*, Winter 2006; Vol. 25, No. 3.

Sikorski, B.D. and B.A. O'Donnell (1999) "Savings impact of a corporate energy manager," *ASHRAE Transactions* 105(1):977-987.

Sonderegger, R.C. (1998) "A baseline model for utility bill analysis using both weather and non-weather-related variables," *ASHRAE Transactions* 104(2):859-870

Waltz, James P. (2000) *Computerized Building Energy Simulation*, Fairmont Press, Lilburn, GA, 2000.

On-line references and tools

Portfolio Manager (Benchmarking)

www.energystar.gov/benchmark

Building EQ Benchmarking

www.buildingeq.com

Financial Evaluation Tools:

- Building Value Upgrade Calculator
- Cash Flow Opportunity Calculator
- Financial Value Calculator

www.energystar.gov/index.cfm?c=assess_value.financial_tools

End-use Energy Survey Spreadsheet Tool

http://www.focusonenergy.com/files/Document_Management_System/Business_Programs_ARCHIVE/equipmentusage_spreadsheet.xls

Building Energy Software Tools Directory

http://apps1.eere.energy.gov/buildings/tools_directory/

This directory provides information on almost 400 building software tools for evaluating energy efficiency, renewable energy, and sustainability in buildings. The energy tools listed in this directory include databases, spreadsheets, component and systems analyses, and whole-building energy performance simulation programs. A short description is provided for each tool along with other information including expertise required, users, audience, input, output, computer platforms, programming language, strengths, weaknesses, technical contact, and availability.

2009 Buildings Energy Data Book (Oct 2009) on uses of energy in buildings

http://buildingsdatabook.eren.doe.gov/docs/DataBooks/2009_BEDB_Updated.pdf

2009 Annual Energy Review is the U.S. Energy Information Administration's primary report of historical annual energy statistics. For many series, data begin with the year 1949. Included are data on total energy production, consumption, and trade; overviews of petroleum, natural gas, coal, electricity, nuclear energy, renewable energy, international energy, as well as financial and environmental indicators; and data unit conversion tables.

<http://www.eia.gov/emeu/aer/contents.html> (2010 update scheduled to be released July 2011)

Energy Information Administration: Commercial Buildings Energy Consumption Survey (commercial energy uses and costs)

www.eia.doe.gov/emeu/cbecs/

References for *Implementing Energy Management in New & Existing Buildings* 11/23/2010

Emissions associated with energy generation

www.epa.gov/cleanenergy/energy-resources/egrid/index.html

Climate zone information

<http://resourcecenter.pnl.gov/cocoon/morf/ResourceCenter/article/1420>

California Energy Commission (2000) Guide to Preparing Feasibility Studies for Energy Efficiency Projects, <http://www.energy.ca.gov/efficiency/partnership/> (scroll to bottom of the page). This document provides good information to support effective energy audits.

Washington State University Extension Energy Program audit worksheets, includes a comprehensive list of Energy Efficiency Measures (EEMs), shown as opportunities.

<http://www.energy.wsu.edu/Documents/audit2.pdf>

Alliance to Save Energy

www.ase.org

American Council for an Energy Efficient Economy

www.aceee.org/altsites/index.htm

Energy Efficiency and Renewable Energy

<http://www.eere.energy.gov/>

Christopher Russell's Energy Pathfinder blog

<http://energypathfinder.blogspot.com/>