**URLs for Energy Auditing**

**TEXTS BOOKS**

Web site for IAC (Industrial Assessment Centers) technical documents:

<https://iac.university/technicalDocuments>

then select

“**Essentials of Industrial Assessments**” and download book

Engineering Cookbook - A Handbook for the Mechanical Designer, Loren Cook Company:

<http://www.lorencook.com/PDFs/Catalogs/Cookbook_Catalog.pdf>

**USEFUL SOFTWARE**

ASAP Utilities for EXCEL

<http://www.asap-utilities.com/>

Convert – free unit conversion software

<http://joshmadison.com/software/convert-for-windows/>

**UTILITY APPS**

Tools and information on many types of buildings

<https://www.nationalgridus.com/ProNet/>

**BENCHMARKING**

Energy Star Building Upgrade Manual

<https://www.energystar.gov/sites/default/files/buildings/tools/EPA_BUM_Full.pdf>

Energy Star Portfolio Manager

<http://www.energystar.gov/index.cfm?c=evaluate_performance.bus_portfoliomanager>

Commercial Buildings Energy Consumption Survey (CBECS)

<http://www.eia.gov/consumption/commercial/index.cfm>

Oak Ridge National Lab Benchmarking tool

<http://eber.ed.ornl.gov/benchmark/bldgtype.htm>

EGA greenhouse-gas-equivalencies-calculator

<https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator>

**DOE COMMERCIAL REFERENCE BUILDINGS**

<http://energy.gov/eere/buildings/commercial-reference-buildings> web site

[*U.S. Department of Energy Commercial Reference Building Models of the National Building Stock*](http://www.nrel.gov/docs/fy11osti/46861.pdf). Manual

Location of Commercial Reference Building data sets

<https://openei.org/datasets/files/961/pub/COMMERCIAL_LOAD_DATA_E_PLUS_OUTPUT/>

**WEATHER SOURCES**

FREE Degree Day Data:

<http://www.degreedays.net/>

As of September 2020 they moved TMY data. It is now labeled “**National Solar Radiation Database 1991-2005” and can be found here (note it is a huge 3.1 GiB file which took me 3 hours+ to download). It contains data for 1020 US States and Territories:**

<https://nsrdb.nrel.gov/data-sets/archives.html>

Text and Map search:

<http://www.ncdc.noaa.gov/cdo-web/>

Data Tools: Local Climatological Data (LCD) (choose station and download LCD data and goto cart to list desired dates): <https://www.ncdc.noaa.gov/cdo-web/datatools/lcd>

LCD Documentation (shows what the columns are):

<https://www1.ncdc.noaa.gov/pub/data/cdo/documentation/LCD_documentation.pdf>

Weather Map search: (all data up to the present)

<https://gis.ncdc.noaa.gov/maps/ncei/cdo/hourly>

Integrated Surface Data Lite

<ftp://ftp.ncdc.noaa.gov/pub/data/noaa/isd-lite/>

**Web site that list power used by appliances**

<https://www.energy.gov/energysaver/save-electricity-and-fuel/appliances-and-electronics/estimating-appliance-and-home>

**OTHER USEFULL INFORMATION**

<http://www.engineeringpage.com/message/map.html> (Chemical Engineering Mag.)

<http://www.engineeringtoolbox.com/>

<http://www.engineeringtoolbox.com/fan-affinity-laws-d_196.html>

<http://www.cheresources.com>

<https://energy.gov/eere/amo/motor-systems>

<https://energy.gov/eere/amo/software-tools>

<https://copper.org/environment/sustainable-energy>

<https://www.titus-elearning.com/content/course-catalog>

<https://www.pnnl.gov/energy-efficiency>

<https://buildingretuning.pnnl.gov/training.stm>

<https://www.etcgrp.com/resource-guide-managing-facilities-through-the-pandemic/>

<https://www.lightingdesignlab.com/sites/default/files/pdf/Footcandle_Lighting%20Guide_Rev.072013.pdf>

**TRADE PUBLICATIONS ASSOCIATED WITH ENERGY AUDITING**

[www.freetrademagazines.com](http://www.freetrademagazines.com)

[www.bnpmedia.com](http://www.bnpmedia.com)

[www.ashrae.org](http://www.ashrae.org) ASHRAE Journal

<https://gbdmagazine.com> Green Building & Design magazine

[www.esmagazine.com](http://www.esmagazine.com) Engineered Systems magazine

[www.csemag.com](http://www.csemag.com) Consulting-Specifying Engineer magazine

[www.HPAC.com](http://www.HPAC.com) Heating/Piping/Air Conditioning Engineering magazine

[www.pump-zone.com](http://www.pump-zone.com) Pumps & Systems magazine

[www.flowcontrolnetwork.com](http://www.flowcontrolnetwork.com) Flow Control magazine

[www.worldpumps.com](http://www.worldpumps.com) World Pumps magazine

[www.carrier.com/commercial/en/us/literature/newsletters/](http://www.carrier.com/commercial/en/us/literature/newsletters/) Carrier Engineering Newsletter

<https://www.trane.com/commercial/north-america/us/en/education-training/self-paced-learning/engineers-newsletters.html> Trane Engineers Newsletter

<https://www.airbestpractices.com/> Compressed Air Best Practices magazine

<https://www.blowervacuumbestpractices.com/magazine> Blower and Vac Best Practices mag

[www.PMengineer.com](http://www.PMengineer.com) PM Engineer magazine

[www.PMmag.com](http://www.PMmag.com) Plumbing & Mechanical magazine

[www.Process-cooling.com](http://www.Process-cooling.com) Process Cooling magazine

[www.Process-heating.com](http://www.Process-heating.com) Process Heating magazine