

US EPA ARCHIVE DOCUMENT

Evaluation, Monitoring and Verification Resources

Primary Impact Evaluation Resources

National Action Plan for Energy Efficiency, U.S. EPA & DOE	Model Energy Efficiency Program Impact Evaluation Guide, 2007 http://www.epa.gov/cleanenergy/documents/evaluation_guide.pdf Guide to Resource Planning with Energy Efficiency, 2007 http://www.epa.gov/cleanenergy/documents/resource_planning.pdf Guide for Conducting Energy Efficiency Potential Studies, 2007 http://www.epa.gov/cleanenergy/documents/potential_guide.pdf
Efficiency Valuation Organization (EVO)	International Performance Monitoring and Verification Protocols, 2007 http://www.evo-world.org/
ASHRAE	Proposed Guideline 14P for Measurement of Energy and Demand Savings: How to Determine What was Really Saved by the Retrofit. http://repository.tamu.edu/bitstream/handle/1969.1/5182/ESL-IC-01-07-04.pdf?sequence=1 ASHRAE Scoping Studies http://www.ashrae.org/technology/page/678
The Consortium for Energy Efficiency's Market Assessment and Program Evaluation (MAPE) Clearinghouse	http://www.cee1.org/eval/clearinghouse.php3
U.S. Department of Energy	Key Measurement and Verification documents http://ateam.lbl.gov/mv/ Final Report on the Clean Energy/Air Quality Integration Initiative Pilot Project of the U.S. Department of Energy's Mid-Atlantic Regional Office http://apps1.eere.energy.gov/wip/clean_energy_initiative.cfm EERE Impact Evaluation Resource Documents http://www1.eere.energy.gov/ba/pba/program_evaluation/evaluation_documents.html

California Public Utilities Commission	The California Evaluation Framework http://www.cce1.org/eval/CEF.pdf California Standard Practice Manual: Economic Analysis of Demand-Side Programs and Projects http://www.energy.ca.gov/greenbuilding/documents/background/07-J_CPUC_STANDARD_PRACTICE_MANUAL.PDF California Energy Efficiency Evaluation Protocols: Technical, Methodological, and Reporting Requirements for Evaluation Professionals http://www.cpuc.ca.gov/PUC/energy/electric/Energy+Efficiency/EM+and+V/
California Measurement Advisory Council (CALMAC)	http://www.calmac.org
California Public Utilities Commission and The California Evaluation Outreach Initiative	Survey of Energy Efficiency Evaluation Measurement and Verification (EM&V) Guidelines and Protocols: An Initial Review of Practices, Gaps and Needs, 2007 http://www.naesb.org/pdf2/dsmee061807w19.pdf
National Association of Clean Air Agencies and ICLEI – Local Governments for Sustainability	Clean Air and Climate Protection Software http://www.icleiusa.org/cacp
Northeast Region	
ISO New England	ISO New England Manual for Measurement and Verification of Demand Reduction Value from Demand Resources http://www.neep.org/about/final_MV_manual.pdf
Massachusetts Department of Transportation & Energy	Investigation by the Department of Public Utilities on its own Motion into Updating its Energy Efficiency Guidelines Consistent with An Act Relative to Green Communities (See p. 5 for M&V discussion) http://www.mass.gov/Eoeea/docs/dpu/electric/08-50/82208dpunoi.pdf
Northeast Energy Efficiency Partnerships' (NEEP) Regional Evaluation, Measurement and Verification Forum	http://www.neep.org/policy_and_outreach/EMV.html

Northeast Energy Efficiency Partnerships	The Need for and Approaches to Developing Common Protocols to Measure, Verify and Report Energy Efficiency Savings in the Northeast http://www.neep.org/files/Protocols_report.pdf
International EM&V Resources	
International Energy Agency	Evaluating Energy Efficiency Policy Measures & DSM Programmes. (2006) http://dsm.iea.org
World Bank Carbon Finance Unit	Achieving Greenhouse Gas Emission Reductions in Developing Countries through Energy Efficient Lighting Project in the Clean Development Mechanism, November 2006 http://carbonfinance.org/Router.cfm?CatalogID=30255&Page=DocLib
Australasian Energy Performance Contracting Association	A Best Practice Guide to Measurement and Verification of Energy Savings - a companion document to "A Best Practice Guide to Energy Performance Contracts" http://www.aepca.asn.au/documents/BPGtoMeasurementandVerificationofEnergySavings.pdf
ESMAP & Carbon Finance Unit World Bank	Scaling Up Demand-Side Energy Efficiency Improvements through Programmatic CDM http://www.evo-world.org/index.php?option=com_docman&task=doc_download&gid=614
European Union	Directive 2006/32/EC of the European Parliament and of the Council on Energy End-use Efficiency and Energy Services and Repealing Council Directive 93/76/EEC http://www.evo-world.org/index.php?option=com_docman&task=doc_download&gid=615
Québec Agence de l'Efficacité Énergétique	A Free Guide on Measurement and Verification for Your Energy Efficiency Projects (in French) UN PROTOCOLE DE MESURAGE ET DE VÉRIFICATION GRATUIT POUR VOS PROJETS EN EFFICACITÉ ÉNERGÉTIQUE! - http://www.evo-world.org/index.php?option=com_docman&task=doc_download&gid=590
Miscellaneous	
New Jersey Clean Energy Program	New Jersey Clean Energy Program Protocols to Measure Resource Savings (2004) < http://www.njcleanenergy.com/files/le/Protocols_REVISED_VERSION_1.pdf >

Northwest Regional Technical Forum (RTF)	http://www.nwcouncil.org/energy/rtf/Default.htm
Public Utility Commission of Texas	Measurement and Validation Guidelines (2005) http://www.puc.state.tx.us/electric/projects/30331/052505/m%26v%5Fguide%5F052505.pdf
New York State Energy Research and Development Authority	Deemed Savings Database Version 9.0. http://www.nyserda.org
Public Service Commission of Wisconsin	State of Wisconsin Public Service Commission of Wisconsin Focus on Energy Evaluation Semiannual Report (FY07) http://www.focusonenergy.com/files/Document_Management_System/Evaluation/focusonenergy_semiannualreportfull_yearend07.pdf
Steven Meyers & Steve Kromer	Measurement and verification strategies for energy savings certificates: meeting the challenges of an uncertain world, 2008 http://www.springerlink.com/content/xk6705w743006h0v/fulltext.pdf
Summit Blue Consulting, LLC.	Measurement and Verification Publications http://www.summitblue.com/publications.php
TecMarket Works	Non-Energy Benefits Publications http://www.tecmarket.net/nebs.htm