



U.S. DEPARTMENT OF
ENERGY

Energy Efficiency &
Renewable Energy

Federal Metering Requirements

FUPWG - May 23, 2013

Brad Gustafson

Federal Energy Management Program

(e) Metering

By October 1, 2012, in accordance with guidelines established by the Secretary under paragraph (2), all Federal buildings shall, **for the purposes of efficient use of energy and reduction in the cost of electricity used in such buildings**, be metered. Each agency shall use, to the maximum extent practicable, advanced meters or advanced metering devices that provide data at least daily and that measure at least hourly consumption of electricity in the Federal buildings of the agency. Not later than October 1, 2016, each agency shall provide for equivalent metering of natural gas and steam, in accordance with guidelines established by the Secretary under paragraph (2). Such data shall be incorporated into existing Federal energy tracking systems and made available to Federal facility managers.

EO 13514(g) High Performance Sustainable Federal Buildings

■ Optimize Energy Performance - Guiding Principles

- Per the Energy Policy Act of 2005 (EPAAct) Section 103, install building level electricity meters in new construction and major renovation projects to track and continuously optimize performance.
- Per EISA Section 434, include equivalent meters for natural gas and steam, where natural gas and steam are used.

Federal Metering Needs

- Install proper meters
- Data collection
- Site/enterprise level data analysis
- Actionable outcomes that
 - Reduce energy use and/or
 - Reduce energy expenses

FEMP's Metering History

- Guidance for Electric Metering in Federal Facilities (2006)
- Metering Best Practices Guide (2007, 2011)
- Advanced Electric Metering in Federal Facilities (2012)
- Outreach examples
 - 1st Thursday webinar – Advanced Metering Requirements and Best Practices (June 2010)
 - Advanced Metering Solutions for Federal Agencies symposium (Dec 2010)
 - Energy Charting and Metrics Tool webinar series (Oct/Nov 2012)

Status of Federal Building Metering

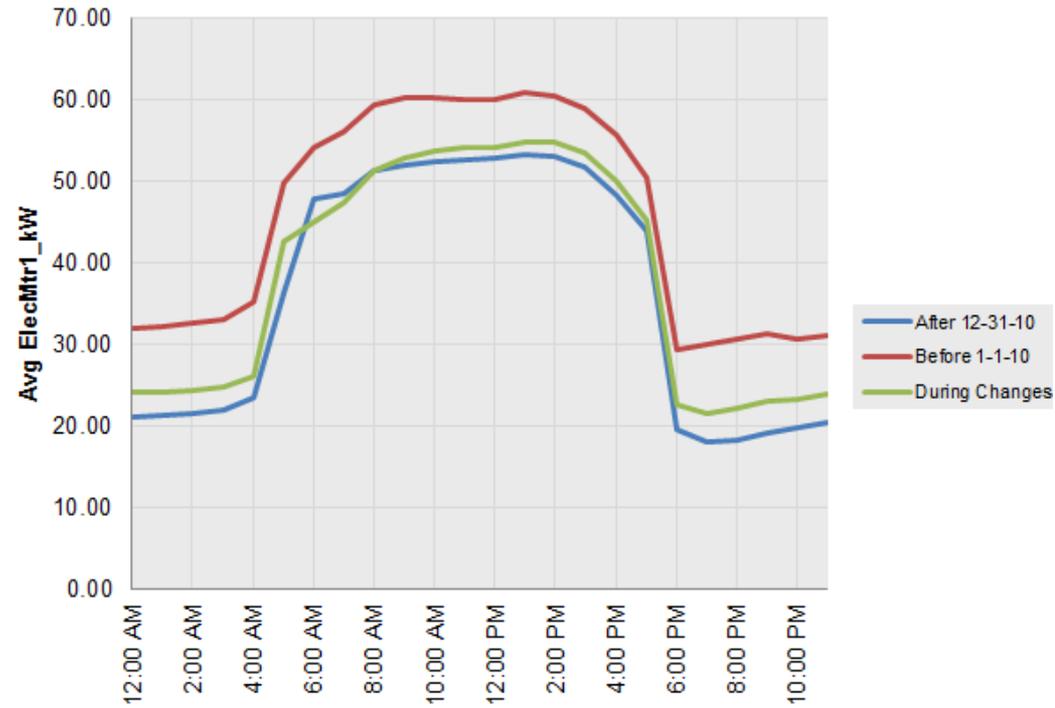
- Agencies reported near full compliance for electric metering in 2010.
 - How are agencies using the data at the
 - Site level?
 - Agency level?
- DoD's new metering policy
- Agencies can use help to
 - Expand application of advanced meters
 - Data analysis

Utility/Agency Opportunities

- What roles can the utilities play in growing an effective Federal metering effort?
 - Provide advanced meters?
 - Provide data analysis?
 - Make interval data available where advanced revenue meters are installed?
 - Areawide contract installations?
 - Other ideas?

Thank You

Brad.Gustafson@ee.doe.gov



Federal Utility Partnership Metering Opportunities

May 23, 2013

Brad Gustafson

Brad.Gustafson@ee.doe.gov