

Multiple List Service and The Green Button Initiative

white house inspired.
industry led.

In response to the Obama Administration's call to action, 150+ utilities and service providers commit to provide 60+ million homes and businesses with their own energy usage information in the consensus industry standard Green Button format



Photo credit: Silver Spring Networks CustomerIQ™ Energy Portal

Greg Manship, CEO Intermountain MLS, gmanship@intermountainmls.com

John Teeter, Computer Scientist, NIST, john.teeter@nist.gov

Presidential Innovation Fellow Alumni



Thoughts and Questions??



- Vision and Value?
- What Opportunities exist?
- Partners -- BSU? Idaho Power? ... ?
- What is the volume of new listings?
- Experiments and Pilots??

Federal Government Interest in Data



Open Data Initiatives

- Making government information resources more publicly accessible in “computer-readable” form; encouraging its use by entrepreneurs fueling the creation of new products, services, and jobs
- Project Open Data: <http://project-open-data.github.io>
- <http://www.data.gov> is primary entry point

My Data Initiatives

- Empowering consumers with secure access to their own personal energy, health, and education data
- Green Button (energy), Blue Button (health info), Education, ...



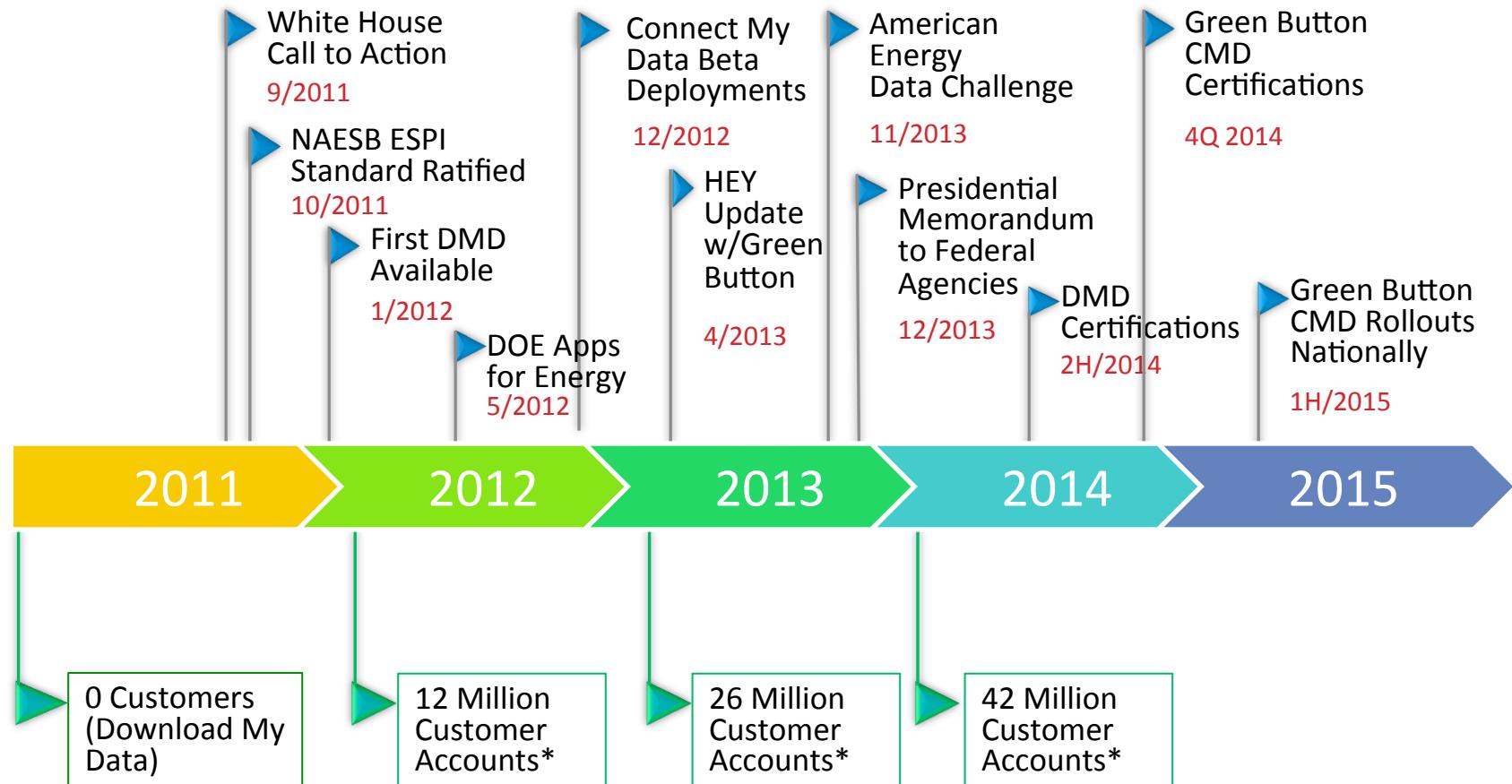
What is Green Button? –

How is it useful to the economy?



- The Green Button Initiative encourages all utilities and service providers to standardize the format and communication of energy data so customers and third-party service providers can easily access and exchange energy usage information from utility or electricity suppliers.
- The cost of resources is a significant portion of our national spend. 40%

Green Button Evolution



* Represents Customer Accounts with Access to Green Button Data – Primarily DMD; Actual Customer download numbers are not available

Download My Data and Connect My Data



**Green Button
Download
My Data**

A customer visits their utility web portal, they can simply login and download their Green Button Data as an XML-formatted file.



**Green Button
Connect
My Data**

This powerful model allows a consumer to authorize a third-party service provider to receive direct access to their Green Button Data - no need to repeatedly login to their utility and download files. These authorizations are valid for an agreed upon time and can be revoked at anytime by the consumer.

Green Button Supports Innovation in New Applications



Insight: entrepreneur-created web portals analyze energy usage and provide actionable tips;

Heating and Cooling: customized heating and cooling activities for savings and comfort;

Education: community and student energy efficiency competitions;

Retrofits: improved decision-support tools to facilitate energy efficiency retrofits, Virtual Energy Audits;

Verification: measurement of energy efficiency investments;

Real Estate: provide energy costs for tenants and/or new home purchasers; and

Solar: optimize the size and cost-effectiveness of rooftop solar panels.



Green Button Connect My Data In Washington DC Governmental Services



Green Button
Connect
My Data

Providing 15 Minute
Interval Data for 400
Buildings in DC

Local Utility (Pepco Holdings) providing first in the nation deployment with Green Button Connect My Data inside!



The District of Columbia is saving money, saving energy and creating one of the greenest cities in the world.

Transparency

Build Smart DC is a public, visual record of building energy use in the District. Established with a core of publicly-managed facilities, the platform is expanding to provide building performance and energy efficiency project data on the broadest possible swath of buildings in Washington, DC.

Efficiency

From building management system optimization to improved HVAC and lighting scheduling, Build Smart DC captures and highlights the significant savings achieved through no- and low-cost improvements to building energy management.

<http://www.buildsmartdc.com>

Climate Action Plan Commitment



“The Administration will leverage the ‘Green Button’ standard – which aggregates energy data in a secure, easy to use format – within federal facilities to increase their ability to manage energy consumption, reduce greenhouse gas emissions, and meet sustainability goals.”

The President’s Climate Action Plan,
June 25, 2013

US Federal Government Commitment



Presidential Memorandum (to all Federal agencies)

"Sec. 3. Building Performance and Energy Management .. each agency shall: ... incorporate Green Button into reporting, data analytics and automation, and processes, in consultation with local utilities ..." [.. GSA, EPA pilots ...]

Presidential Memorandum on Federal Leadership in Energy Management, Dec 5, 2013

Buildings use 40% of our Energy Resources; 75% of our Electricity

Achieving Efficiency is a National Priority

Green Button provides the missing feedback loop

And helps to engage the consumer in the solution

Federal Leadership in Energy Management



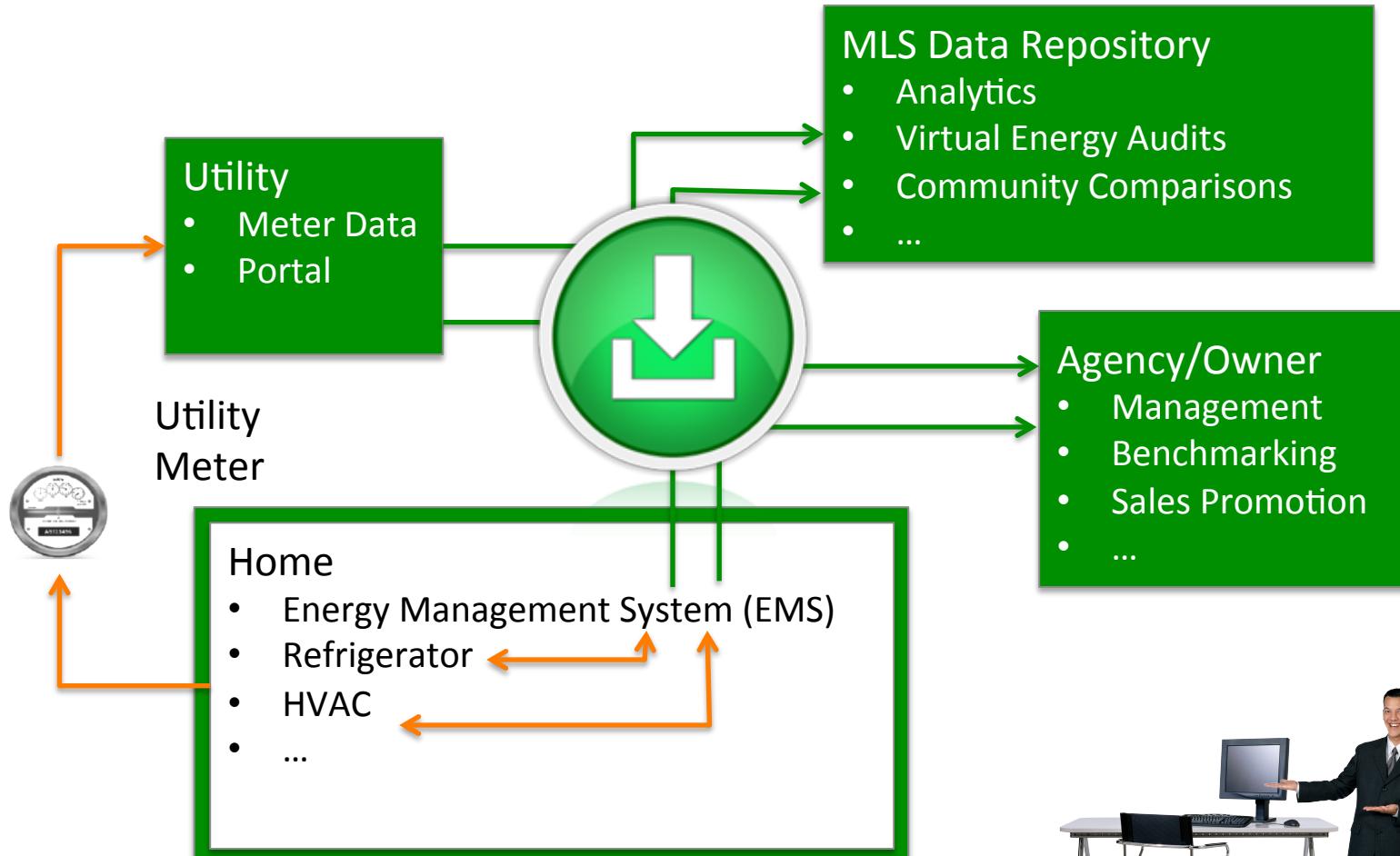
Sec. 3. Building Performance and Energy Management.

A - To encourage continuous improvement and better manage building performance, enhance energy efficiency, and reduce energy waste in an open and transparent way, each agency shall:

- (i) install building energy meters and sub-meters
- (ii) install water meters at agency buildings
- (iii) ... agency buildings associated monthly performance data is entered into the EPA Energy Star Portfolio Manager.
- (iv) publicly disclose ... web-based tracking system annual energy performance data
- (v) ... incorporate Green Button into reporting, data analytics and automation, and processes, in consultation with local utilities

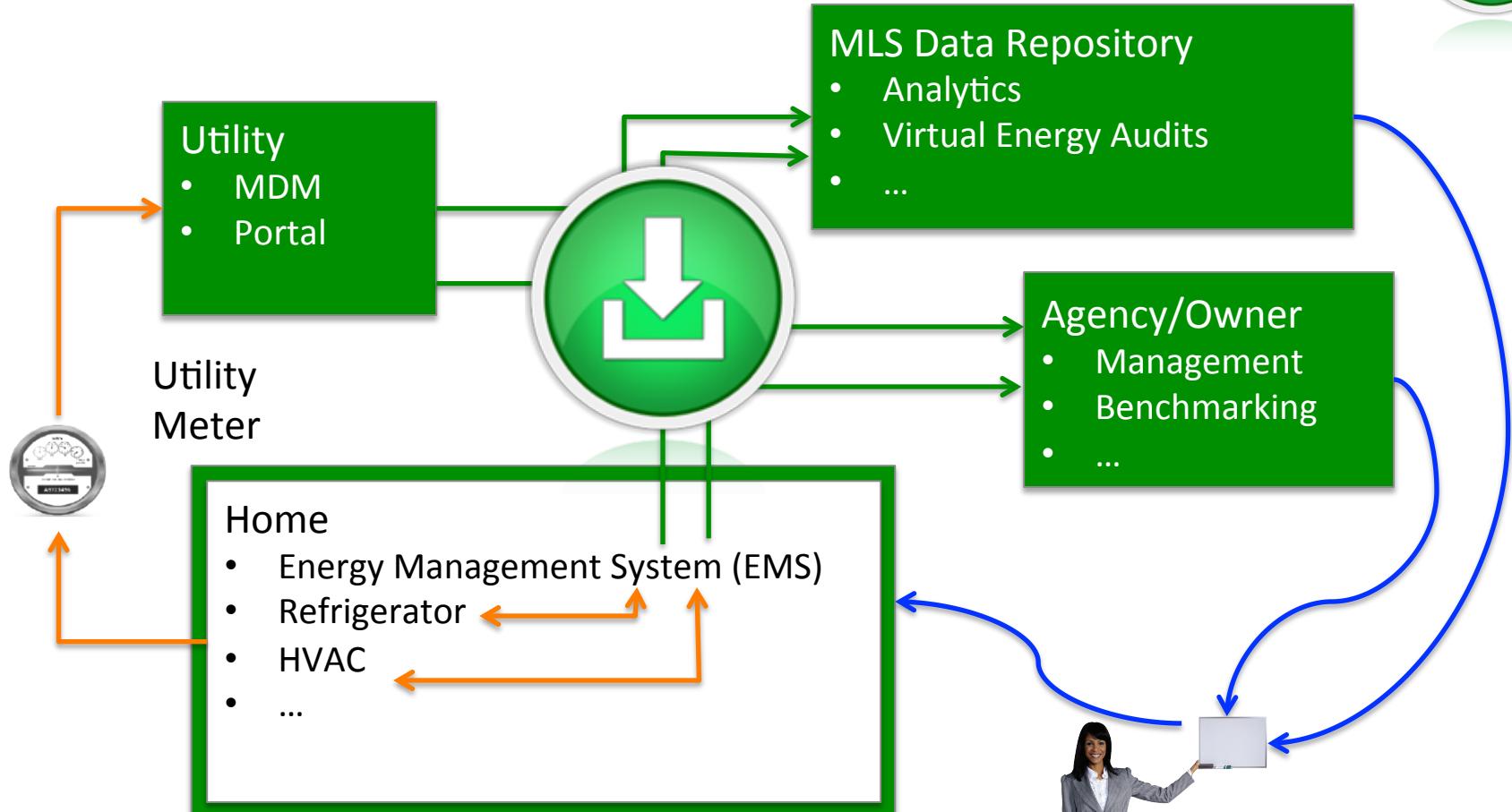
Presidential Memorandum for Heads of Exec.
Departments and Agencies
Dec 2013

Listing a House – 13 Months of History



Client Approval

Showing the Property





Thank You