

Accelerating Access to Energy Data

Better Buildings Summit May 10, 2016, 3:45 – 5:00 pm



Agenda

- Energy Data Accelerator Overview
- Presentations
- Moderated Q&A
- Audience Q&A



Today's Presenters

- Andrew Burr, U.S. DOE
- Drew Quirk, Xcel Energy
- Kevin Emerson, Utah Clean Energy





Energy Data Accelerator









Accelerator Outcomes

- Eighteen utilities serving 2.6 million commercial customers to provide whole-building energy data to property owners by 2017
- Publication of Energy Data Accelerator Toolkit to share resources and best practices, and support replication
- U.S. EPA to add ENERGY STAR Awards category for utility data innovation in 2017
- Carry-forward commitments from 6 organizations: ACEEE, IMT, NMHC, NRDC, USDN, USGBC







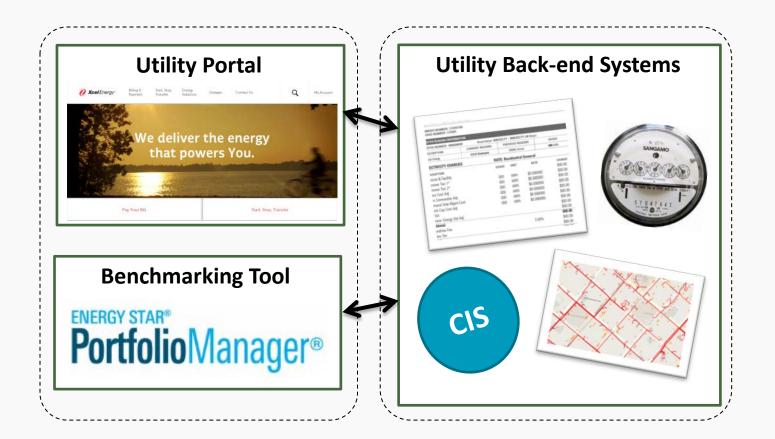


WHOLE-BUILDING BENCHMARKING WITH XCEL ENERGY

Drew Quirk – Product Developer

HOW XCEL ENERGY IS SUPPORTING ENERGY BENCHMARKING





HOW WE GOT THERE



- Collaboration with Key Stakeholders critical to success
 - Create good policy
 - Galvanize support internal to utility
 - Solution designed for success















KEY DESIGN ELEMENTS

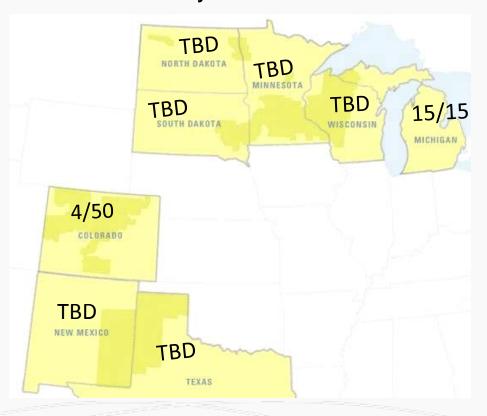


- Data Privacy Protections
- Integration with Portfolio Manager
- Integration with Customer Information Systems

DATA PRIVACY LANDSCAPE



 Privacy policy with regard to data privacy for whole-building data is not consistent across the country



CURRENT DESIGN RELIES ON STANDARDIZED POLICIES



- Property Owner Verification
 - Ensure requestor has a relationship with the building owner of record
- Aggregation Rule of 4/50
- Tenant Consent via standard form where required



WHY PORTFOLIO MANAGER?

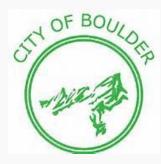


Industry standard for energy managers who benchmark

Cities and states with benchmarking policies are unanimously using it







WHY PORTFOLIO MANAGER?

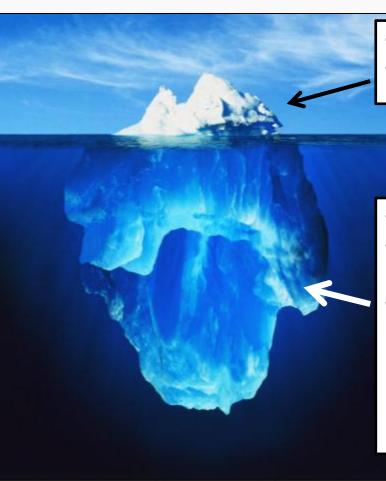


Open data exchange protocol has many applications



INTEGRATION WITH BACK-END





- Customer and community satisfaction
- Cost efficiencies relative to manual practices

- New valuable customer touchpoint
- Receive high-quality data about buildings, leading, and an ability to better serve customers
- Advanced analytics energy program platform
 - Virtual Audits
 - Continuous Commissioning
 - Demand response, dynamic pricing
 - Storage and renewables

THANK YOU

RESPONSIBLE BY NATURE®





Partnering with Stakeholders to Support Energy Data Access in Salt Lake City

Kevin Emerson, MSc, LEED GA Senior Associate





Better Buildings Summit

May 9–11, 2016 ■ Washington, D.C.



UTAH ENERGY EFFICIENCY & CONSERVATION PLAN

Preparing for Utah's Energy Future



But making large buildings across Salt Lake City more energy efficient directly contributes to cleaner air while also improving the financial bottom line for building owners.



32,000 CARS

It could help remove over 1 million pounds of pollutants – equivalent to taking more than 32,000 vehicles off the road for 1 year





We'd also prevent over 650 million pounds of CO2 from entering the atmosphere each year...

Utility Bill

ROCKY MOUNTAIN POWER

PAGE 1 OF 2

Questions about your bill. 1-888-221-7070 Call toll free 24 hours a day. 7 days a week www.rockymountainpower.net BILLING DATE: Feb 6, 2013

ACCOUNT NUMBER:

DATE DUE: Feb 22, 2013

AMOUNT DUE: \$136.90

Your Balance With Us

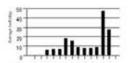
Previous Account Balance 171.80 Payments (Credits -71.80 New Charges +36.90

Payments Received

DATE	DESCRIPTION	AMOUNT
Feb 6, 2013	Payment Received - Thank you	71.80

Total Payments \$71.80

Historical Data - ITEM 2



Your Average Daily lewh Usage by Month

PERIOD ENDING	FEB 2013	FEB 2012
Aug. Doily Temp.	22	27
Total koh	360	0
Avg. Roh per Day	28	0
Cost per Day	32.84	\$0.00 /

Customer will be responsible for reasonable costs associated with collection of unpaid accounts. including but not limited to: court costs, attorney's fees and a collection agency fee.

Detailed Account Activity

Current Account Balance

ITEM 2 - ELECTRIC SERVICE	1104 N 2ND St Lot 23 Lander W
	Residential By Park: Schedule 2

\$ 136.90

METER NUMBER	SERVICE PERIOD . From To	DAYS DAYS	METER READINGS Principle	Currie	METER MULTIPLIER	AMOUNT USED THIS MONTH	
66699285	Jan 23, 2013 Feb 5, 2013	13	4327	4687	1.0	360 kwh	

MW CHARLE - 6/D	UNITS	COST PER UNIT	CHARGE
CLOSING CHARGES	54.5	- VIVIII GET	S. Prints
Basic Charge - Single Phase for 13 day(s)			8.67
Energy Charge Block 1 for 13 day(s)	217 kwh	0.0040300	0.87
Energy Charge Block 2 for 13 day(s)	143 keh	0.0105500	1.51



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Workshop: Automated Energy Data Access
When: Kiesey, activities. Media Briefing Room
8 a.m. to 9:30 a.m.
Salt Lake City Public Safety Building

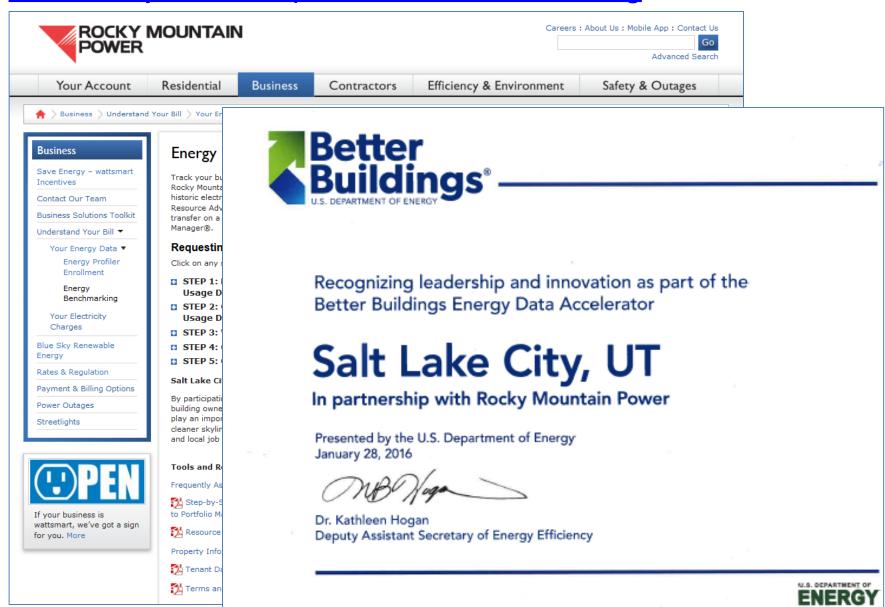
8 a.m. to 9:30 a.m.

Who Should Attend? This works Kick-Of, fanagwoor, Kshoop

process, saving you time and enhancing your energy management assets. Project Skyline's February challenge workshop is focused on understanding how the Department of Energy, it is not to be access to the Department of Energy access to the Department of E

- Letter of support to utility
- DSM Advisory Group meeting
- Stakeholder updates

www.rockymountainpower.net/benchmarking



Thank you!

Contact information:

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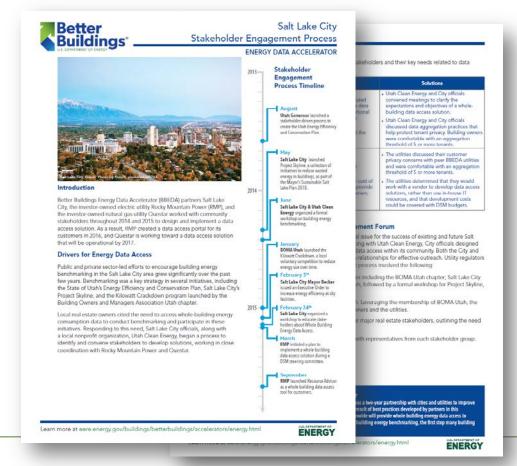






Case Study: Salt Lake City Stakeholder Engagement Process

http://betterbuildingssolutioncenter.energy.gov/toolkits/ energy-data-access-blueprint-action



Discussion



Thank you!

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