#4 – PACIFIC TOWER

Measures installed

 Air-to-water heat pumps, VFD on chiller, demand-controlled ventilation in all zones, LEDs with controls integrated to HVAC and OS, tenant engagement

Status

- Completed renovation in 2016
- September 2016
 - Reached 75% occupancy
 - Performance period begins!





#5 – VIRTUAL AUDIT RFP

- City of Seattle tune-up ordinance
 - Compliance staged
 - 200k sf 2018
 - 50k to 70k sf by 2021
 - DOE grant awarded
 - "Tune-up Accelerator"
 - Target buildings between 50k to 100k
- SCL Pilot to support Tune-up Accelerator
 - ~ 60 small and medium rate customers
 - Located in the "downtown network"
 - Currently have active interval meters

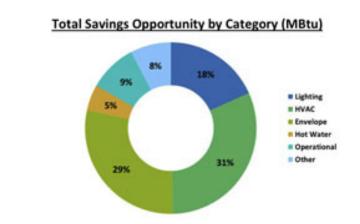
#5 - VIRTUAL AUDIT RFP

Virtual audit reports

- Based on historical interval data
- Identify energy uses
- Make recommendations
- Provide on-going monitoring and feedback

Incentives

- Report and monitoring provided at no cost
- Customer paid for verified O&M savings
- Capital upgrades through existing utility programs





GENERAL FINDINGS

- Savings can be seen at the meter!
- Managing the data can be difficult
 - Quality/reliability of data sources
- Industry not as mature as expected
 - Tools and techniques
 - Awareness/application of ASHRAE Guideline 15 (confidence and uncertainty)

OPEN QUESTIONS

- Savings attribution are we paying for savings?
 - Impact of energy codes
 - Fuel switching
 - Change in use/occupancy
- Is it reportable and what is auditable documentation?
 - How is cost-effective defined
 - No measure attribution
 - No documentation of "measure cost"
 - What can we count towards BPA? Towards I-937?
 - Can't differentiate between Capital, Operational, and Behavioral
 - How do you keep track of market penetration or conservation potential?
 - How do we incorporate the savings into our IRP?
- What is the best incentive structure?
 - Fixed/ rolling baseline
 - Term of performance
 - Optimal incentive rate



OUR VISION

To set the standard—to deliver the best customer service experience of any utility in the nation.

OUR MISSION

Seattle City Light is dedicated to exceeding our customers' expectations in producing and delivering environmentally responsible, safe, low-cost and reliable power.

OUR VALUES

Excellence, Accountability, Trust and Stewardship.

