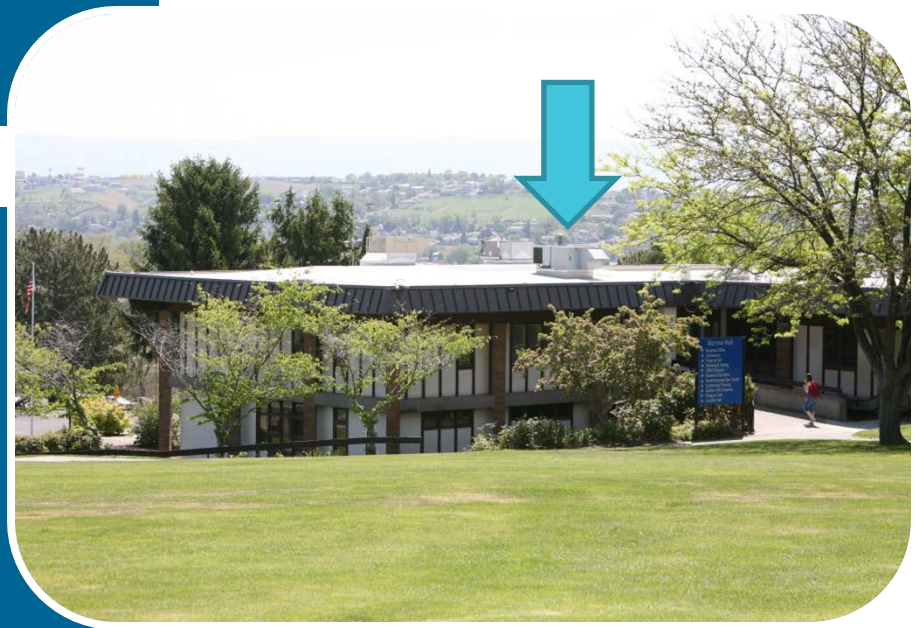

CAC Update:
Existing Buildings program
Roof-top Tune-ups

Wednesday February 13, 2013

EnergyTrust of Oregon

What are Roof-top Tune-ups?

- There are tons of unitary HVAC units out in the market
- We know that many (most) of them aren't working properly
- Building owners tend to have contracts with technicians for repair but there are very few routine tune-ups going on to get the units to work as intended

EnergyTrust of Oregon

Background

- Offering developed during height of recession when capital was more restrained
- Designed to cover the majority if not all of cost of RTUs
- Must be a qualified and trained Trade Ally
- Provided significant savings 2010-2012
- Available for existing commercial building customers

RTU Trend

RTU Projects			
Year	**Project Count**	**Electric Savings (kWh)**	**Gas Savings (Therms)**
2010	153	918,437	99,613
2011	450	3,415,189	381,239
2012	582	4,404,192	509,577
Total	1185	8,737,818	990,429

EnergyTrust of Oregon

Measure Descriptions

3 thru 4 Ton Rooftop Unit (less than 7 years old)	**New Economizer Installation Measures**
1.) Economizer with DCV controls	Includes new economizer package, new OSA sensor, new two-stage programmable thermostat and DCV control, installed and set for maximum energy savings.

EnergyTrust of Oregon

Measure Descriptions

5 thru 30 Ton Rooftop Unit (less than 10 years old)	Tune-up Service Measures on Units with Existing Economizers
2.) Add DCV control	Add-on DCV control, CO2 sensor, controller where necessary, and OSA sensor. Economizer must be operational and tuned up. Assumes existing thermostat is functioning and no new thermostat is needed. Damper repair included when needed.

EnergyTrust of Oregon

Measure Descriptions

5 thru 30 Ton Rooftop Unit (less than 10 years old)	Tune-up Service Measures on Units with Existing Economizers
3.) Complete Tune-Up Package with DCV control	Perform all tune-up measures to units with existing operational economizerson the same visit. Add-on DCV control, CO2 sensor, controller where necessary, OSA sensor, and new programmable thermostat. Damper repair included when needed.

EnergyTrust of Oregon

Program Offering

	Previous offering		Updated offering for 2013	
	3-4 Ton Units	5-30 Ton units	3-4 Ton Units	5-30 Ton units
1.) Economizer with DCV controls	$1,250	$0	$0	$0
2.) Add DCV control	$0	$1,050	$0	$945
3.) Complete Tune-Up Package with DCV control	$0	$1,250	$0	$1,125
Savings estimates: 342 kWh/ton and 43 therms/ton in eligible service territories.				

- 2013 goal of serving 1,500 units by June 30, 2013. Program will track and modify offering as necessary.

EnergyTrust of Oregon

Questions?