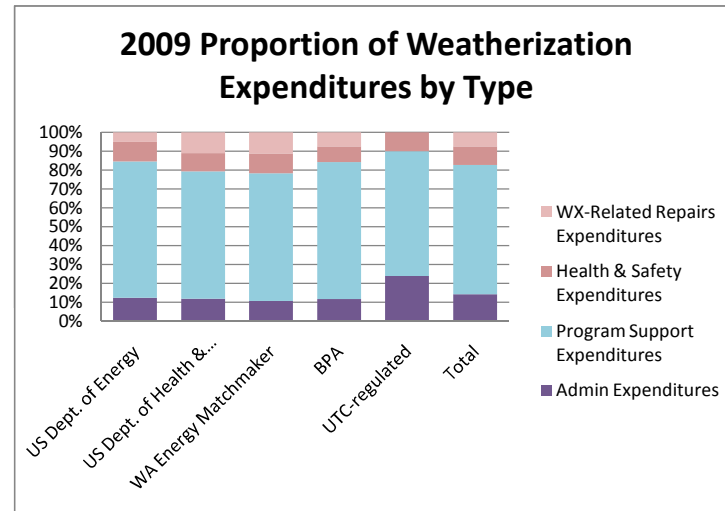
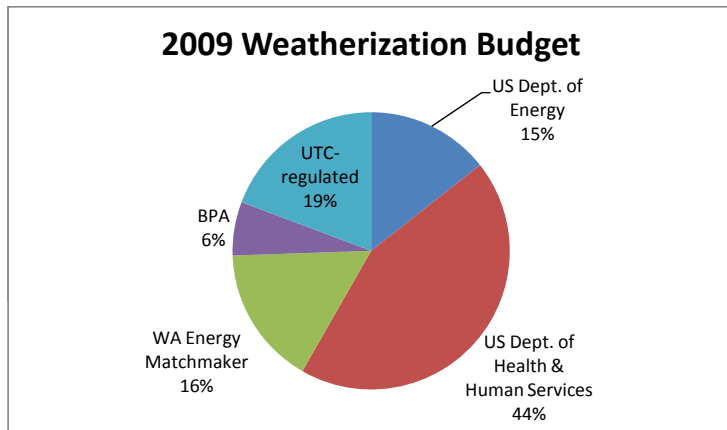


Question 1 - For low-income agencies, a complete budget for low-income conservation including housing repair, health and safety assistance and spending as a proportion of total conservation budget.

Program	Budget	Expenditures	Admin Budget	Admin Expenditures	Program Support Budget	Program Support Expenditures	Health & Safety Budget	Health & Safety Expenditures	WX-Related Repairs Budget	WX-Related Repairs Expenditures
US Dept. of Energy	\$ 4,476,296	\$ 4,436,100	\$ 522,966	\$ 498,201	\$ 2,833,007	\$ 2,926,709	\$ 487,151	\$ 413,170	\$ 201,352	\$ 209,146
US Dept. of Health & Human Services	\$ 13,690,138	\$ 13,065,754	\$ 1,098,004	\$ 962,671	\$ 5,461,195	\$ 5,504,933	\$ 789,607	\$ 789,607	\$ 898,258	\$ 898,258
WA Energy Matchmaker	\$ 5,039,316	\$ 5,016,416	NA	\$ 527,365	NA	\$ 3,342,086	NA	\$ 516,930	NA	\$ 555,657
BPA	\$ 1,953,890	\$ 1,910,312	\$ 232,682	\$ 213,324	\$ 1,295,769	\$ 1,334,941	\$ 152,011	\$ 152,019	\$ 172,594	\$ 136,061
UTC-regulated	\$ 6,008,850	\$ 5,119,945		\$ 1,225,584		\$ 3,378,021	\$ 607,459	\$ 516,340		
Total	\$ 31,168,490	\$ 29,548,527	\$ 1,853,652	\$ 3,427,145	\$ 9,589,971	\$ 16,486,691	\$ 2,036,227	\$ 2,388,066	\$ 1,272,204	\$ 1,799,121
% of Budget				20%	11%	53%		9%		6%

* This is a multi-year budget which has been "normalized" to 12 months.



Question 2 - For each utility, a complete budget for low-income conservation including housing repair, health and safety assistance and spending as a proportion of total conservation budget.

ALL COMPANIES	2008	2009	2010	2011
Budget available for repairs	\$ 565,761	\$ 607,459	\$ 2,375,100	\$ 2,166,200
Low Income Conservation Budget	\$ 4,420,475	\$ 6,008,850	\$ 9,005,930	\$ 6,462,350
Average Percentage of DSM Budget	6%	8%	7%	6%
Total Utility Disbursement to CAP	\$ 3,280,196	\$ 4,581,602		
Total low-income conservation spending	\$ 3,805,942	\$ 5,119,945		
Average Low-income conservation spending as a Percentage of Revenue	0.10%	0.12%		
Homes weatherized	1377	2245	2821	

PacifiCorp	2008	2009	2010	2011
Available for repairs - 15%	\$ 152,561	\$ 152,561	\$ 150,000	\$ 150,000
Low Income Conservation Budget	\$ 1,017,075	\$ 1,017,075	\$ 1,000,000	\$ 1,000,000
Percentage of DSM Budget	13%	14%	11%	12%
Total Utility Disbursement to CAP	\$ 532,700	\$ 491,986		
Total LI spending	\$ 571,926	\$ 527,437		
Percentage of Revenue	0.23%	0.19%		
Homes weatherized	253	131	100	

Northwest Natural	2008	2009	2010	2011
Available for repairs - 10%	0	\$ 6,698	\$ 8,800	\$ 13,200
Low Income Conservation Budget	\$ -	\$ 66,975	\$ 89,330	\$ 133,950
Percentage of DSM Budget	0%	6.0%	8.2%	8.8%
Total Utility Disbursement to CAP	\$ -	\$ 36,327	\$ 64,703	
Total LI spending		\$ 36,327	\$ 64,703	
Percentage of Revenue	0%	0.04%		
Homes weatherized	0	15	16	30

Question 2 - For each utility, a complete budget for low-income conservation including housing repair, health and safety assistance and spending as a proportion of total conservation budget.

Cascade				
Available for repairs - \$0	\$ -	\$ -	\$ -	\$ -
Low Income Conservation Budget	\$ 171,400	\$ 342,800	\$ 463,600	\$ 466,400
Percentage of DSM Budget	7%	11%		
Total Utility Disbursement to CAP	\$ 95,344	\$ 168,378		
Total LI spending	\$ 192,706	\$ 242,765		
Percentage of Revenue	0.07%	0.08%		
Homes weatherized	43	54		

Avista - combined gas & electric				
Available for repairs - 15%	\$ 113,200	\$ 148,200	\$ 222,300	\$ 300,000
Low Income Conservation Budget	\$ 1,132,000	\$ 1,482,000	\$ 1,482,000	\$ 2,000,000
Percentage of DSM Budget	8.6%	9.0%	8.4%	7.0%
Total Utility Disbursement to CAP	\$ 1,059,819	\$ 1,307,318	\$ 1,488,097	
Total LI spending	\$ 1,059,819	\$ 1,339,705	\$ 1,488,097	
Percentage of Revenue	0.14%	0.20%		
Homes weatherized	343	363	420	

PSE - combined gas & electric				
Available for repairs - varies	\$ 300,000	\$ 300,000	\$ 1,994,000	\$ 1,703,000
Low Income Conservation Budget	\$ 2,100,000	\$ 3,100,000	\$ 5,971,000	\$ 2,862,000
Percentage of DSM Budget	2.6%	3.1%	6.1%	2.5%
Total Utility Disbursement to CAP	\$ 1,592,333	\$ 2,577,593	\$ 5,617,403	
Actual spending	\$ 1,981,491	\$ 2,973,711	\$ 5,971,167	
Percentage of Revenue	0.05%	0.08%		
Homes weatherized	738	1682	2285	
				includes increase in multifamily

Question 4 - Provide an explanation of administration of low-income conservation programs.

	Pacificorp	Northwest Natural	Cascade	Avista	The Energy Project
Tariffs	Low-income Weatherization Program Description Schedule 114. System Benefits Charge Adjustment Schedule 191	Schedule I	Low Income Weatherization Incentive Program Sheet 301	Schedule 91 and 191 Energy Efficiency Rider	
Agencies	Blue Mountain Action Council in Walla Walla, Northwest Community Action Center in Toppenish and Opportunities Industrialization Center of Washington in Yakima	Clark County Community Services and Washington Gorge Action Program		Spokane Neighborhood Action Partners (SNAP), Community Action Partnership (Lewiston, ID, serving the area of Clarkston, WA), Rural Resources Community Action, Opportunities Industrialization Center (OIC) of Washington, Washington Gorge Action Programs, Community Action Center of Whitman County	All
Rebate limits	Pacific Power provides a rebate of 50 percent of the cost of installing approved measures when the Agencies have state Matchmaker program funding available, and 100 percent of costs when the funding is not available.	90% of cost-effective measures up to \$3500/home	The lesser amount of the sum of the first year therm savings (100% of avoided cost) OR the sum of the installed cost plus \$225 energy audit fee	100% of the installed cost	Varies
Admin costs	Agencies bill the Company for an administrative cost reimbursement calculated as 15 percent of the rebate requested on each completed home.	The lesser of \$525 or 15% of job cost	None?	15% of installed cost	Varies
Repair limits	Reimbursements on related home repairs are available up to 15 percent of the annual reimbursement on energy efficiency measures received.	An average of \$440/home may be spent on H&S	\$0	Up to 15 percent of the annual reimbursement on energy efficiency measures received.	Up to 15 percent of the annual reimbursement on energy efficiency measures received.

Question 4 - Provide an explanation of administration of low-income conservation programs.

	Pacificorp	Northwest Natural	Cascade	Avista	The Energy Project
Health & Safety limits				Health and safety treated the same as repair. \$0	
Eligibility	Services are available to homeowners and renters residing in single-family homes, manufactured homes and apartments.				<= 200% Federal poverty or <= 80% State median income
Cost Effectiveness	TREAT audit required on each home	SIR analysis required on each home ratio must be 1.0 or better	Treat audit or Commerce's approved measure list	Avista maintains a list of approved measures.	SIR analysis required on each home ratio must be 1.0 or better
CE includes					Repairs required to protect Wx measure (roof, etc)
CE excludes					Health & safety measures (CO monitors)

Question 5 - List of the types of conservation measures installed.

The Energy Project	PacifiCorp	Northwest Natural	Cascade	Avista	PSE
shell measures such as attic, wall, and floor insulation;	Ceiling, floor and wall insulation in electrically heated homes if cost effective; Thermal doors in electrically heated homes; Class 40 replacement windows in electrically heated homes if cost effective	Ceiling Insulation R-2; Ceiling Insulation R-12; Floor Insulation; Wall Insulation; Windows	Attic/Ceiling Insulation; Floor Insulation; Wall Insulation	Insulation (floor, wall, ceiling); Energy Star windows; Energy Star doors	Ceiling Insulation; Floor Insulation; Wall Insulation; Windows
base-load measures such as refrigerator replacement, incandescent light bulb and fixture change-outs;	Attic ventilation when installed with ceiling insulation; Replacement of electric water heaters if cost effective; Fluorescent light fixtures; Refrigerators when the model in use has monitored results showing annual usage of 1,500 kWh or more;	HE Water Heater (EF=.62)		Electric to natural gas water heater; Energy Star Refrigerators; Natural gas water heaters	Refrigerator Replacement; Water Heater Replacement; CFL fixtures (indoor); CFL fixtures (outdoor)
energy-related water efficiency measures such as hot water tank wraps; showerheads, flow restrictors;	Ground cover and water pipe insulation when installed with floor insulation; Energy efficient showerheads and aerators when electric water heaters are in use;	Hot Water Pipe Insulation; Faucet Aerators			Aerator; Shower Head; Pipe Insulation; Water heater wrap;

Question 5 - List of the types of conservation measures installed.

The Energy Project	PacifiCorp	Northwest Natural	Cascade	Avista	PSE
heating system treatments such as furnace tune-ups, furnace replacement, duct sealing and insulation;	Electric space heating duct insulation and sealing in unheated spaces;	90% High Efficiency Furnace; Furnace Tune-up; Duct Insulation; Duct Sealing;	Duct Sealing and Insulation	Electric to natural gas furnace; Duct sealing & insulation; Natural gas furnaces	Duct Insulation; Duct Sealing
diagnostically-driven air leakage control; and	Weather-stripping and caulking including blower door assisted air sealing and duct sealing in electrically heated homes;	Infiltration (Shell Sealing)	Air Infiltration Reduction	Air infiltration	Doorsweep; Structure Sealing; Weatherstrip
low-cost/no-cost energy-saving measures	Compact fluorescent light bulbs, limit of 10 per home in fixtures in use 2 or more hours per day;				CFL Screw-in Lamps
	Dehumidifiers in electrically heated homes;				
	Timed thermostats on centrally controlled electric heat systems and heat anticipating thermostats for zonal electric heating systems;			Programmable thermostat	Setback Thermostat
		Space Heater			
		Direct Vent Space heater			
				Other measures that may not be listed	

Question 6 - List of types of health and human safety measures installed.

The Energy Project	Avista	PSE	PacifiCorp
			Schedule 114 allows for Agencies to bill the Company for reimbursement on home repairs.
electrical knob-and-tube wiring and minor energy-related electrical repair;			
diagnostic testing for indoor air quality;	Timer on bath fans; Replace dryer vent; Repair kitchen fan damper	Mechanical ventilation	
heating system repair or replacement;		Furnace Repair and Maintenance; Furnace Replacement	
combustion safety testing;		Combustion safety testing;	
repair of a solid fuel burning appliance (not allowed by BPA);			
smoke detectors;		Smoke Alarm	
carbon monoxide detectors;	Install CO Detector	Carbon Monoxide Detector	
window repair or replacement; and			
lead-safe weatherization (required when lead containing materials will be disturbed by the installation).			
	Repair plumbing leaks	Ground Vapor Barrier	
		Water Heater Replacement	
		Water Heater Repair	
		Health Related Repairs	
		In-home energy education	
		Zonal Space Heater Replacement	

		Heat Anticipating Thermostat	
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Question 8 - Best information available on conservation potential for low-income customers.

	Pacificorp	Cascade	NWN	Avista	PSE	The Energy Project	40% of Energy Project
Total homes weatherized	6,792	100				55,294	22,118
years	24	2				15	
ave homes/year	283	50	30	375	1568	3,686	1,475

	Pacificorp	Cascade	NWN	Avista	PSE	The Energy Project	Apprise 2007	
						<=200%	<=125%	<=200%
Statewide Qualifying Homes						657,000	353,000	452,000
Service Area Qualifying Homes	20,588	33,352	6,960	41,853	189,460	262,800	141,200	180,800

(Assumes 20% of each company's 2009 residential customers) (converted statewide number to service area number assuming IOUs serve 40% of electric customers)

	Pacificorp	Cascade	NWN	Avista	PSE	The Energy Project
Years until all eligible homes weatherized (assumes this is even possible)	73	667	232	112	121	71

	Pacificorp	Cascade	NWN	Avista	PSE	The Energy Project
MWh				12,712		
Therms		1,600,000				

PROGRAM COMPARISON

2009 Electric Special Programs

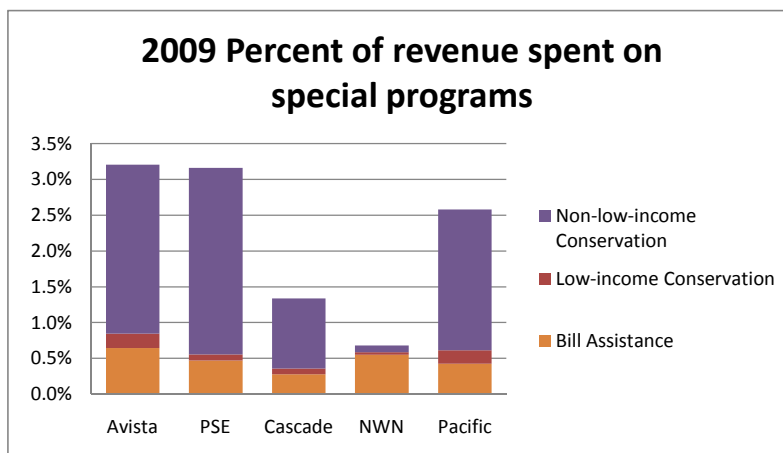
	Avista	Pacific	PSE	All electric companies
Conservation	\$ 10,556,969 2.30%	\$ 5,595,809 1.97%	\$ 67,474,566 3.33%	\$ 83,627,344 3.02%
Low Income Conservation	\$ 706,746 0.15%	\$ 527,437 0.19%	\$ 2,143,410 0.11%	\$ 3,377,593 0.12%
Total Conservation	\$ 11,263,715 2.46%	\$ 6,123,246 2.16%	\$ 69,617,976 3.43%	\$ 87,004,937 3.14%
Low Income Bill Assistance	\$ 2,784,757 0.61%	\$ 1,208,972 0.43%	\$ 11,529,986 0.57%	\$ 15,523,715 0.56%
Total Revenue	\$ 458,107,415	\$ 284,100,835	\$ 2,029,009,633	\$ 2,771,217,883
Portion of Revenue for Special Programs	3.07%	2.58%	4.00%	3.70%

2009 Natural Gas Special Programs

	Avista	Cascade	NWN	PSE	All Gas companies
Conservation	\$ 4,975,869 2.49%	\$ 2,951,461 0.98%	\$ 96,171 0.10%	\$ 16,522,752 1.39%	\$ 24,546,253 1.37%
Low Income Conservation	\$ 632,959 0.32%	\$ 242,765 0.08%	\$ 36,327 0.04%	\$ 530,272 0.04%	\$ 1,442,323 0.08%
Total Conservation	\$ 5,608,828 2.81%	\$ 3,194,226 1.06%	\$ 132,498 0.13%	\$ 17,053,024 1.43%	\$ 25,988,576 1.45%
Low Income Bill Assistance	\$ 1,436,080 0.72%	\$ 836,278 0.28%	\$ 550,000 0.55%	\$ 3,600,295 0.30%	\$ 6,422,653 0.36%
Total Revenue (Res+com+ind)	\$ 199,744,195	\$ 301,407,504	\$ 100,198,922	\$ 1,192,396,013	\$ 1,793,746,634
Portion of Revenue for Special Programs	3.53%	1.34%	0.68%	1.73%	1.81%

DUAL FUEL ANALYSIS

	Avista	PSE	Cascade	NWN	Pacific	All companies
Low-income Conservation	\$ 1,339,705 0.20%	\$ 2,673,682 0.08%	\$ 242,765 0.08%	\$ 36,327 0.04%	\$ 527,437 0.19%	\$ 4,819,916 0.11%
Non-low-income Conservation	\$ 15,532,838 2.36%	\$ 83,997,318 2.61%	\$ 2,951,461 0.98%	\$ 96,171 0.10%	\$ 5,595,809 1.97%	\$ 108,173,597 2.37%
Bill Assistance	\$ 4,220,837 0.64%	\$ 15,130,281 0.47%	\$ 836,278 0.28%	\$ 550,000 0.55%	\$ 1,208,972 0.43%	\$ 21,946,368 0.48%
Combined Revenue	\$ 657,851,610	\$ 3,221,405,646	\$ 301,407,504	\$ 100,198,922	\$ 284,100,835	\$ 4,564,964,517
	3.2%	3.2%	1.3%	0.7%	2.6%	3.0%



Other questions

Can we compare throughput of regular conservation to low income programs?
What can we do better or differently?

Can we find a common definition of low income?
Should we be using an alternative measurement?