

PSE Energy Efficiency Custom Incentives program for Wastewater/Water treatment Customers



Andreas Winardi

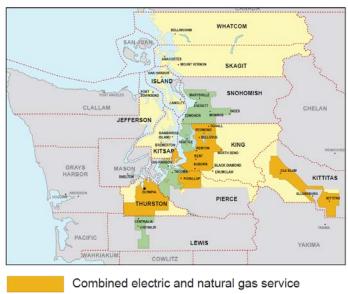
Sr Energy Management Engineer Industrial Program





About Puget Sound Energy

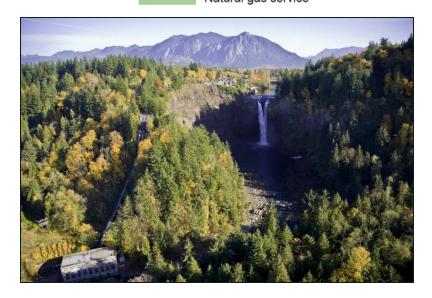
- Washington state's largest investor owned utility
- More than 1 million electric customers
- More than 750,000 natural gas customers
- 6,000+ square mile service area across 11 counties
- 2,800 employees
- 140 employees in energy efficiency



Combined electric and natural gas ser

Electric service

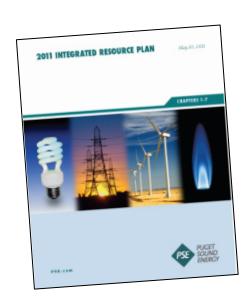
Natural gas service

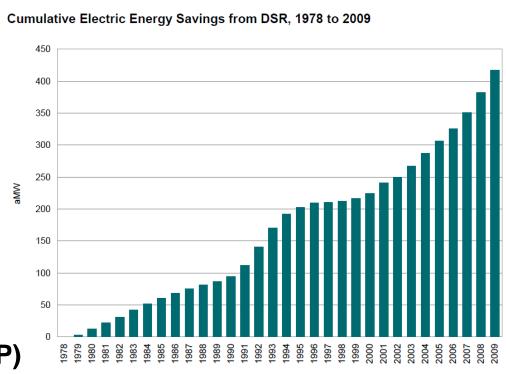






Why offer energy efficiency programs?





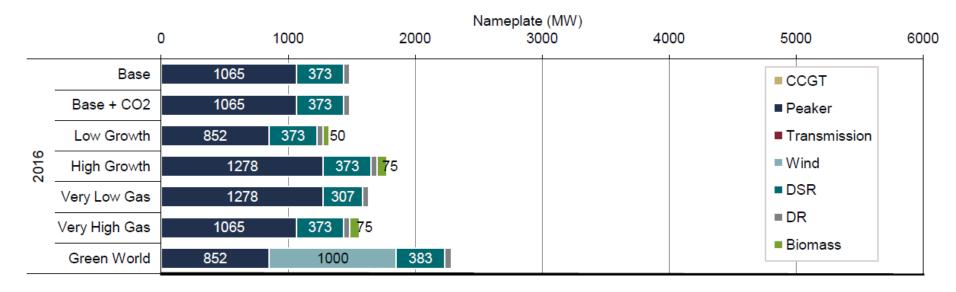
Integrated Resource Plan (IRP)

- Strategic road map for securing reliable and cost-effective energy resources
- Thorough, objective assessment of benefits, costs and risks associated with each energy-supply option, including energy efficiency
- Analyzes region's population and economic trends, including PSE customers' electricity and natural gas needs two decades into the future





Resource builds by scenario (5 year outlook)



Scenarios

Base Case Low Growth High Growth Very Low Gas Prices Very High Gas Prices Base + CO2 Green World

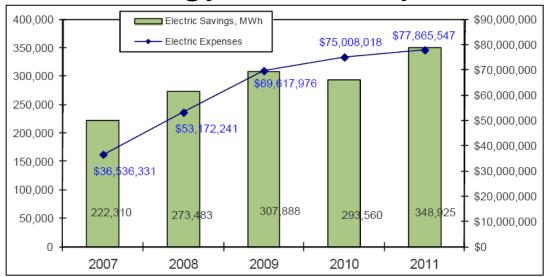
Sensitivities

No Northwest Coal
No Peakers
Thermal Mix
Fixed (firm) gas transport cost for peakers
Renewable tax credit extends to 2013
Renewable tax credit extends to 2016
Renewable tax credit extends to 2020
Renewable tax credit extends to 2031
DSR Ramp Rates
Plug-in vehicles

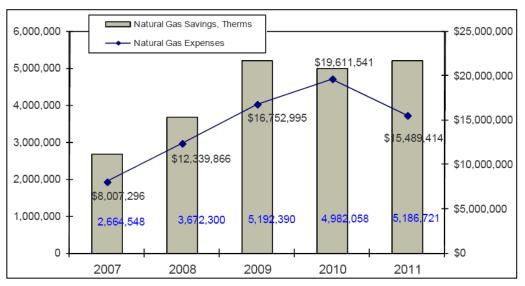
Energy efficiency (DSR) continues to be a significant resource moving forward



PSE Energy Efficiency 5-Year Trends



2012 Budget & Goals		
Electric	336,600 MWh	
	\$ 98,476,000	
Natural Gas	4,836,500 therms	
	\$ 13,450,000	







Overview of Business Energy Management Programs

Rebates

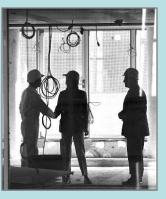
Standardized prescriptive incentives





Custom Grants

Incentives for efficiency upgrades





Programs

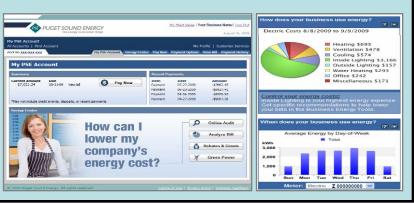
Low-cost & operational improvements





Services & Tools

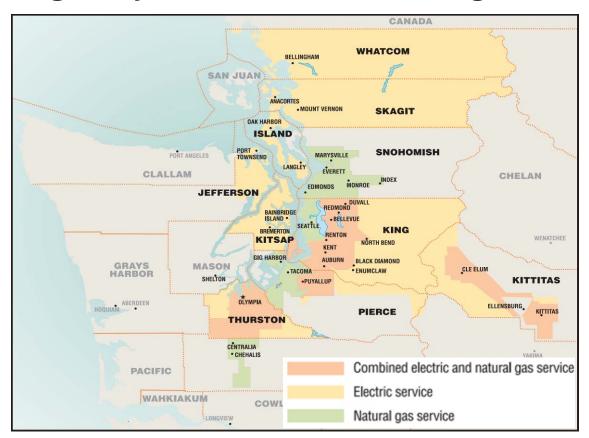
Empower customers







Eligibility – You must be saving a PSE resource



- Electric Incentives Must be a non-residential PSE electric customer
- Gas Incentives Must be a non-residential PSE natural gas customer

Natural gas <u>transportation</u> customers are not eligible for conservation incentives





Commercial Rebates

PSE Offers Over 100 Prescriptive Rebates for Energy Efficiency Measures

- Small business lighting
- Commercial lighting
- Commercial high-efficiency HVAC
- Portable classroom controls
- Electronically-commutated motors
- Green motor rewind
- Premium HVAC service
- Variable speed drives
- Commercial kitchen equipment
- LED traffic signals



HVAC VARIABLE SPEED DRIVE REBATE APPLICATION

PSE PUGET SOUND ENERGY





Custom Grants

Funding for measures that provide verifiable energy savings

Electric measures

Lighting: \$.20/kWh, up to 50 percent of measure cost*

Non-lighting: \$.30/kWh, up to 70 percent of measure cost*

Natural gas measures

• All Measures: \$5/therm, up to 70 percent of measure cost*











Custom Grants

Typical Wastewater/Water Grant Measures

- Lighting retrofits
- Central control systems
- Equipment upgrades
 - Boilers
 - Chillers
 - Heat Recovery
- Turbo Blowers
 - Aeration & Agitation Blowers
 - Controls
 - VFDs
- Compressed air system improvements
- Pumping System Improvement













Custom Grants – Getting Started

Complete a single-page application **before** you start work

Customer information & signature



General project information



Preparer information



Questions?
Call a PSE Energy Advisor
1-800-562-1482

	CUSTOM GRAI FACILITY II			IA	
I. PSE CUSTOMER INFORMATION BUSINESS NAME				PSE ACCOUNT NO.	
SERVICE ADDRESS		CITY			ZIP
PRIMARY CONTACT PERSON			I	TITLE	
MAJUNG ADDRESS (if different from above)		CITY			ZIP
PHONE	FAX			E-MAIL	
PSE CUSTOMER SIGNATURE				DATE	
II. PROJECT INFORMATION					
		AFFECTED FLOOR	AREA (Sq. Ft)	
ESTIMATED ENERGY SAVINGS* SAVINGS (MWh or therms/yr.)		AFFECTED FLOOR AVERAGE DEMAND		i (MV)	
ESTIMATED ENERGY SAVINGS* SAVINGS (With or thermalyr.) ESTIMATED INSTALLED COST	ESTIMATED START DATE	AVERAGE DEMAND	O REDUCTION	I (MW) ESTIMATED COMPLETION DAT	
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Custom Grants - Terms and Conditions



INFORMATION ONLY

CONSERVATION GRANT

Agreement No. C-09565 Project No. 084-1365 Conservation Schedule E250

This AGREEMENT is made this _____ day of _____, 20_____, by and between PUGET SOUND ENERGY and Skywalker Basket Weaving ("Participant").

RECITALS

- A. Under Puger Sound Energy's Electric Schedule 33 and Gas Schedule 183, as currently in effect and on file with the Washington Utilities, and Tamaporation Commission, Puger Sound Energy offices yrants for electricity and natural gas conservation measures installed or implemented at facilities that receive electric or instural gas service from Puger Sound Energy.
- B. Participant intends to install or implement conservation measures and is requesting a grant from Puget Sound Energy under its filed Electric Schedule 83 and/or Gas Schedule 183 tariffs.

AGREEMENTS

Puget Sound Energy and Participant agree as follows:

- Premise: Participant will install or implement the conservation measures listed in paragraph 2 (*Conservation Measures*) at the facilities located at 16445 600/11ECNTER PKWY TUKWILA, WA 98188 (the "Premises"). Participant represents either (a) that it is the owner or contact purchases or otherwise has the lawful authority to make the statements been on leakel of the owner or contract purchases of the Premises, or (b) that it is the lawful enauth of the Premises and that it has obtained written authorization from the owner or contract turnlesses of the Premise.
- 2. Conservation Measures. Participant represents that it will purchase equipment or materials or has entered into an agreement will enter into a gareement with a contractor or contractors (the "Contractor") for purchase and installation or implementation at the Premises of the Conservation Measures, which may be detailed in Autochment D. Angelment to Conservation Grant at the indicated costs, numnarized below.

Conservation Measures	Measure Life	Total Cost of Conservation Measures	Eligible Conservatio Grant
Lighting	5	\$9.058.00	\$4.394.00

TOTAL (includes sales tax) \$9,058.00

Participant represents that the total cost of the Conservation Measures, if identified above, is the full amount of its obligation, after adjustment for any discounts, credits or non-PSE incentives offered.

3. Grant. Subject to Puget Sound Energy acceptance, Puget Sound Energy will grant the Participant, after installation of the Conservation Measures, an amount equal to the Eligible Electric Schedule 183 and Gas Schedule 183 Conservation Grant (the "Grant") as identified above, provided, however, that such Conservation Measures must be installed, and Grant paid within 24 months or less of the signing of this Conservation Grant Agreement. If for any reason the cost of the Conservation Measures is actually less than shown above, Puget Sound Energy may decrease prorate the amount of the Grant. Participant shall be responsible for paying any amount in excess of the amount of the Grant.

C-09665



CONSERVATION GRANT

- 4. Separate Contract. The purchase and installation of the Conservation Measures shall be pursuant to a separate contract between Participant and Contractor Puget Sound Energy in not, and shall not be deemed to be, a party to any purchase or installation contract. All obligations to any Contractor pursuant to any such contract shall be Participant's responsibility. Participant expressly acknowledges that Puget Sound Energy's involvement with respect to the Conservation Measures, including but not limited to any energy analysis or imspection by Puget Sound Energy of the Premises or the Conservation Measures, is solely undertaken in connection with funnishing the Grant.
- 5. The types of materials, methods of installation, quality and timing thereof, and any warranties with respect to the Conservation Measures or their installation at the Premise, are matter to be appell upon solely between Participant and any Contractor, PUCET SOUND ENERGY HAS NOT MADE AND DOES NOT MAKE (AND PARTICIPANT ACKNOWLEDGES THAT PUCET SOUND ENERGY DOES NOT MAKE (AND PARTICIPANT ACKNOWLEDGES THAT PUCET SOUND ENERGY DOES NOT MAKE) ANY IMPLIED OR EXPRESS WARRANTY (INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS). REPRESENTATION, OR PROMISE WITH RESPECT TO EITHER (A) THE CONSERVATION MEASURES, (B) ANY MATERIALS AND LABOR REQUIRED FOR OR USED IN THE INSTALLATION OF THE CONSERVATION MEASURES.
- 6. Release Participant releases Puget Sound Energy from any and all claims, losses, harm, costs, labilities, damages and expenses directly or indirectly residing from or in connection with (a) the Conservation Measures, (b) any materials and labor required for or used in the installation of the Conservation Measures, or (d) the identification, handling and disposal of any associated hazardous water materials.
- 7. Dictainer. Puget Sound Energy conducts many analyses at the request of its customers to determine the extent to which conservation measures are cort. Heferities. Any estimate of energy savings made by Puget Sound Energy in connection with any such analyses its colery for the purpose of determining the confectiveness of the particulus conservation measures and not to be used for any other purpose. Puget Sound Energy has not and does not make any growine, warranty or representation with respect to any savings in energy consumption from Companyino Measures.
- 8. Termination: In the event a Paricipant's contribution to Puger Sound Energy's (PSE) recovery of energy efficiency program costs, is affected by all or a portion of Participant's electric and/or gas delivery service being provided by a party other than PSE, then Participant shall refund to PSE an amount equal to the ratio of the unused Measure-Life of the heavure-Life of the heavure-Life of such Conservation Measure(s) multiplied by the dollar amount of the Grant with respect to such Conservation Measure(s).
- 9. Incorporation of tariffit by reference. This Agreement and the Attachment To Conservation Grant are subject to the terms of the filled Electric Schedules (3) and Gas Schedules 133 mifft, which are incorporated herein by this reference. Further, specific terms and conditions from one or more Conservation Schedules (including but not limited to: Electric Schedules 217 (Multi-Family Existing Structure); 218 (Multi-Family New Construction); 250 (Commercial and Industrial New Construction Efficiency); or 258 (Large Fower User Self Directed Program); 251 (Commercial and Industrial New Construction Hadustrial Retroff Program); 271 (Multi-Family Setting Structures); 218 (Multi-Family New Construction); or 251 (Commercial Industrial New Construction Efficiency) may also apply. Puget Sound Energy well determine, at its cole discretion, which Conservation Schedule or Schedules apply. This determination will be based on, but not limited to metering type, construction type, building size, Puget Sound Energy experience and other industry standards. In applicable Schedule or Schedules sumber or numbers

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CONSERVATION GRANT

appear in the title of this Agreement above. A complete list of conservation Schedules is available at: http://www.pse.com/insidePSE/ratereginformation/Pages/Default.aspx.

10. Entire Agreement. This Agreement sets forth the entire agreement between the parties and supersedes any and all prior agreements with respect to the Conservation Measures. No change, amendment or modification of any provision of this Agreement shall be valid unless set forth in writing and signed by both parties.

PUGE	I SOUND ENERGY	PARTICIPANT
By:		Ву:
Name:	David Landers	Print Name:
Title:	Mgr., Energy Efficiency Services	Title:
		Federal Tax I.D. No.:

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If you do not have a Conservation Grant agreement signed by both parties, PSE has not committed to funding your project.





Services & Tools

My PSE Account

Small business customers can manage their PSE account online with services that track and analyze their energy use

- Visit pse.com
- Go to My PSE Account section on upper left corner of the page

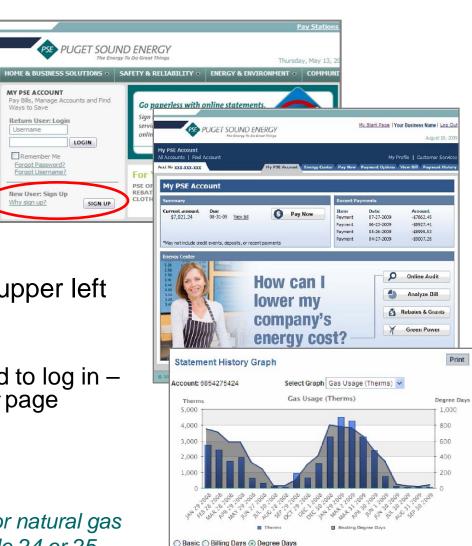
Return users:

 Enter your username and password to log in – takes you to your My PSE Account page

New users

Click on the Sign Up button

Available to non-residential PSE electric and/or natural gas customers served by commercial rate schedule 24 or 25





Services & Tools

Energy Advisors

- Energy specialists standing by to assist PSE customers with their energy efficiency questions and needs
- PSE Energy Advisors available at
 1-800-562-1482, Monday through Friday,
 8 a.m. to 5 p.m.





PSE.COM

- Detailed descriptions of rebates, qualifications and eligibility
- Links to brochures and forms
- Contact information





Services & Tools

Re-Energize Your Business E-newsletter

Quarterly e-newsletter for non-residential customers, from small businesses to large facilities

- Filled with information and updates on energy-efficiency services for commercial, industrial and institutional customers
- Provides money-saving tips and articles about how other business customers are becoming "green" with energy efficiency

Visit www.PSE.com/EESNews to sign up today



Quick Links

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In This Issue

Providence St. Peter Hospital Grant

Museum of Glass Grant

LOTT Alliance Award

United States Military Grants

Standby Generators

West Coast Energy Management Congress Many types of organizations in the Puget Sound Region benefit from PSE's energy-efficiency programs, proving the point that responsible use of energy resources can improve the bottom line for virtually any type of business or institution. This issue of Re-Energize Your Business includes news about energy efficiency in healthcare, cultural, military and wastewater treatment facilities - now that is covering our bases. PSE grants and rebates for non-residential buildings offer something for nearly everyone who wants to use energy more wisely.

PSE Provides Energy-Efficiency Grant to Olympia's Providence St. Peter Hospital



PSE recently awarded Providence St. Peter Hospital (PSPH) an energy-efficiency grant totaling \$458,343.23. The grant helped the Olympia hospital purchase a system designed to recycle the boiler heat that would otherwise vent into the atmosphere. The otherwise wasted energy is now being used to heat part of the hospital and provide hot water.

This project is estimated to save the hospital about \$60,000 in natural gas costs per year. Reducing the reliance on natural gas has also helped PSPH reduce their carbon footprint.





Thank you!

Andreas Winardi

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