

NEW TRADE ALLY ORIENTATION

2024

PUD 

AGENDA

- Introductions
- Benefits of joining the network
- Expectations
 - Contractor
 - PUD
- Conservation at the PUD
 - Why Energy Efficiency
 - Programs
 - Rebates and Application Process
- Next Steps



BENEFITS OF BECOMING A PUD REGISTERED TRADE ALLY

BENEFITS

- Competitive Advantage
 - **Only** PUD Registered Contractors can offer Single Family program rebates
- Online Contractor Directory
 - Customer traffic
- Credibility
 - Ability to leverage PUD Logo
- PUD Program Outreach



ONLINE CONTRACTOR DIRECTORY

- Directory on PUD's website where customers can search contractors by
 - Contractor Type (Insulation, Windows, Heating)
 - Performance (Completed Jobs)
 - Years in Network
 - **List is now randomly sorted, so contractors at the top of list vary each time it is opened.**

*Keep contact info updated

*Must meet program requirements to stay included



ONLINE DIRECTORY

Sort by:

JOBS ▾

YEARS IN NETWORK ▾

A-Z ▾

Service Max Heating & Air Conditioning, LLC

PUD registered trade ally since 2021
1 job in the last year

Specialties: Air Source Heat Pumps, Duct Sealing, Ductless Heat Pumps

☎ 360-333-5904

🌐 www.servicemaxheating.com

✉ servicemax1hvac@gmail.com

📍 20611 67th Ave NE
Arlington, WA, 98223

Nordic Temperature Control, Inc

PUD registered trade ally since 2020
1 job in the last year

Specialties: Air Source Heat Pumps, Duct Sealing, Ductless Heat Pumps, Geothermal Heat Pumps, Multifamily

☎ 360-873-8163

🌐 www.nordictempcontrol.com

✉ contact@nordictempcontrol.com

📍 380 Pease Rd
Burlington, WA, 98223

CM Heating

PUD registered trade ally since 2010
64 jobs in the last year

Specialties: Air Source, Ductless Heat Pumps

☎ 425-448-3555

🌐 cmheating.com

✉ info@cmheating.com

📍 1500 Industry St Ste 200
Everett WA 98203

Frog HVAC LLC

PUD registered trade ally since 2018
0 jobs in the last year

Specialties: Air Source, Duct Sealing, Ductless Heat Pump

☎ 425-359-7988

🌐 www.froghvac.com

✉ brad@froghvac.com

📍 3731 257th St NE
Arlington, WA, 98223

1st Response Heating and Air Solutions LLC

PUD registered trade ally since 2018

Specialties: Air Source, Ductless Heat Pumps

☎ 206-643-1525

🌐 www.1stresponsehvac.com

✉ kyonghui@1stresponsehvac.com

📍 19231 36th Ave W Suite 1
Lynnwood, WA, 98036

ALLRED Heating & Cooling

PUD registered trade ally since 2022

Specialties: Residential Heating & Cooling

☎ 877-7-ALLRED

🌐 trustallred.com

✉ service@trustallred.com

📍 3409 McDougall Ave Suite 201
Everett, WA 98201



CREDIBILITY & RECOGNIZABILITY

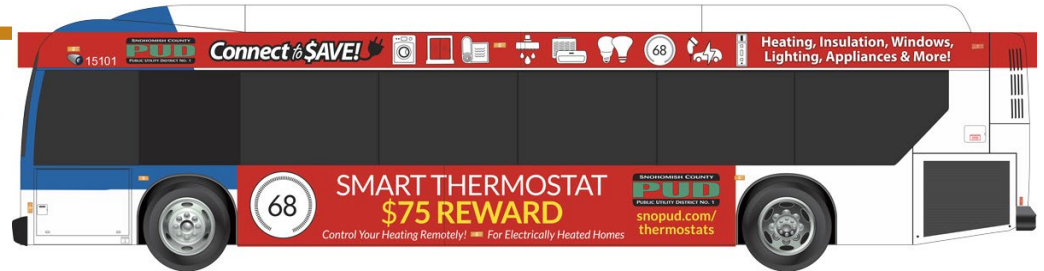
- Promote
 - Authorized participation in PUD energy efficiency programs
 - Ability to offer rebates
- Use **online** & in **print** materials
 - All use must be **pre-approved by PUD**
 - See **usage guidelines** on www.snopud.com/TAResources



**REGISTERED
TRADE ALLY**

PROGRAM OUTREACH

- Promotional Materials
- Newsletters
- Television Commercials
- Print & Digital Ads
- Community Fairs/Events
- Transit Ads
- Social Media



EXPECTATIONS OF CONTRACTORS

EXPECTATIONS: PRE-INSTALLATION

- Solicit New Business
 - Perform outreach and promote PUD initiatives
- Provide Energy Efficiency Expertise
 - What solution is best for customer?
 - Provide estimate and discuss costs
- **Qualify & Guide Customers**
 - Know program benefits and eligibility requirements
 - Navigate program processes and paperwork for customer



SNOHOMISH COUNTY
PUD
PUBLIC UTILITY DISTRICT NO. 1
REGISTERED
TRADE ALLY

EXPECTATIONS: PERFORMANCE

- Commitment to Quality and Partnership
- Install to “Best Practices”
- Customer Satisfaction
 - Resolve any complaints



EXPECTATIONS: PERFORMANCE

- Install work to meet PUD program specifications
 - Determined largely by BPA requirements
- Volume
 - Minimum 2 jobs/year.
 - Timeliness & Paperwork
 - Complete “Call Backs” within 30 days
 - Keep insurance and licenses current

B O N N E V I L L E
P O W E R A D M I N I S T R A T I O N



EXPECTATIONS OF PUD

EXPECTATIONS: PUD

- Monitor contractor performance
- Provide timely feedback
- Support contractors with a goal of shared success
- Partner with contractor to make sure program is a good fit
- Promptly notify contractors of program updates
- Market conservation programs
- Foster open communication



ENERGY ADVISOR LINE

(425) 229-5598



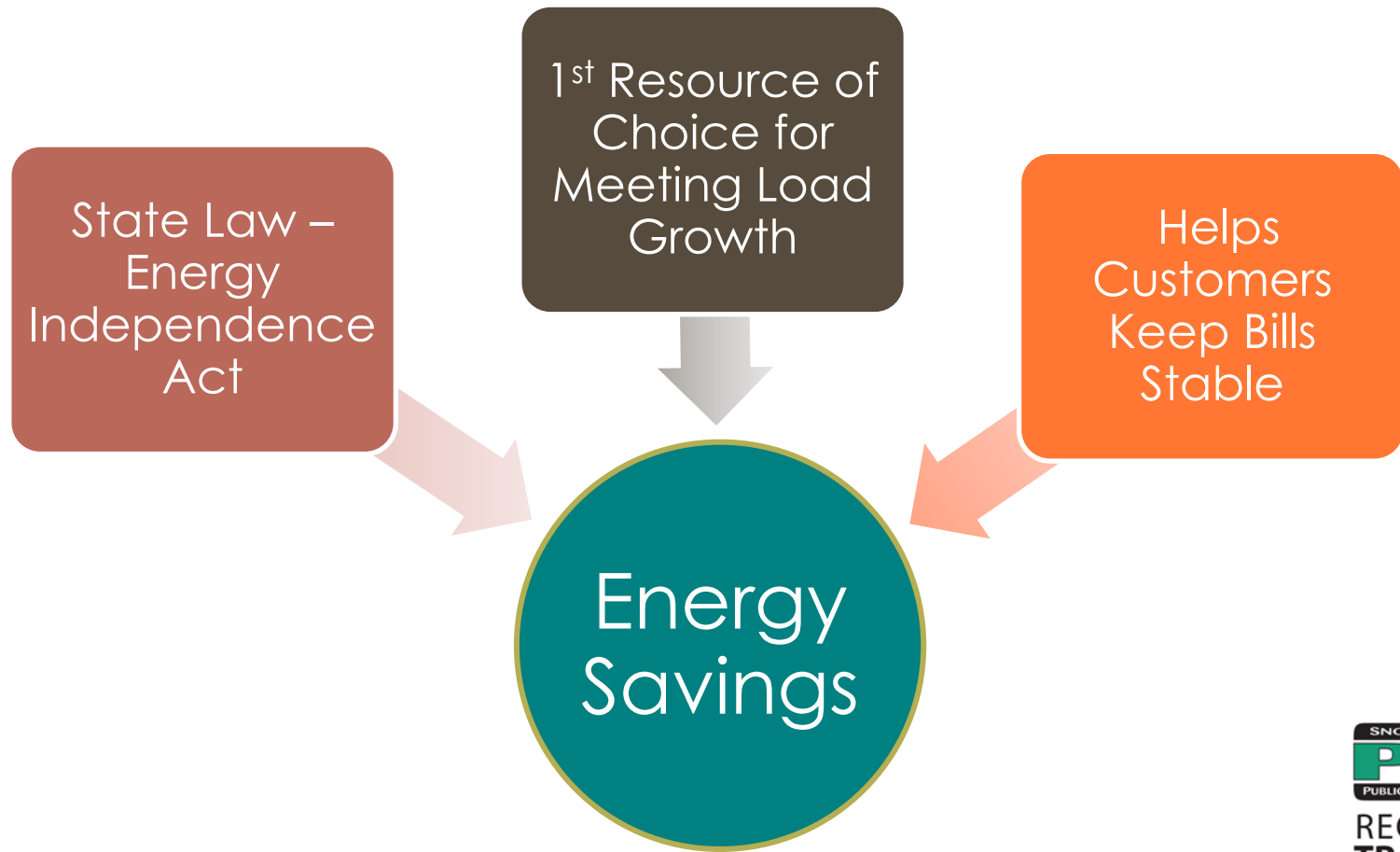
We welcome all questions!
Eligibility...Equipment...Specifications...Sizing
Calculator

CALL BEFORE YOU INSTALL



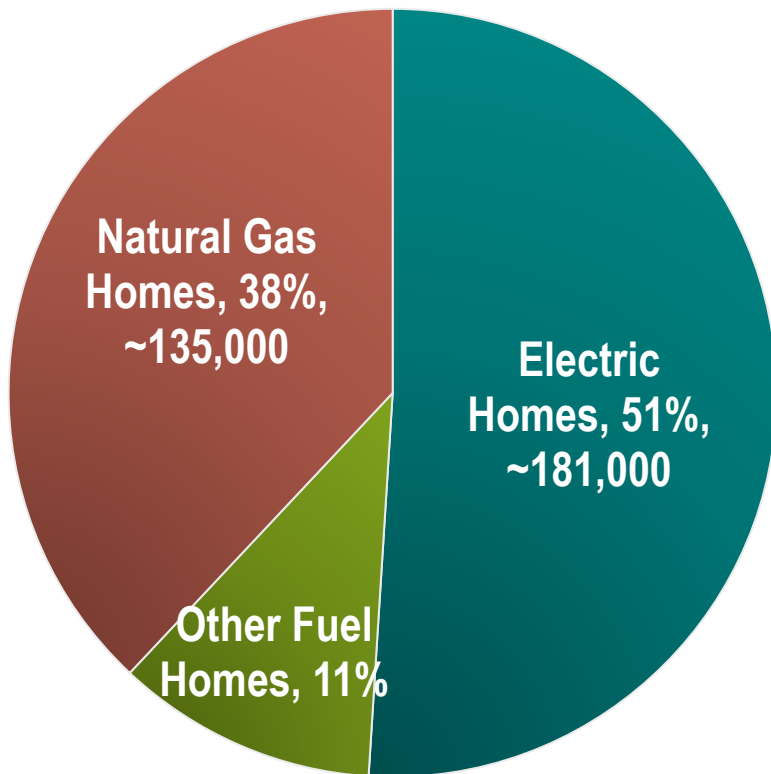
CONSERVATION AT THE PUD

WHY PUD INVESTS IN ENERGY EFFICIENCY

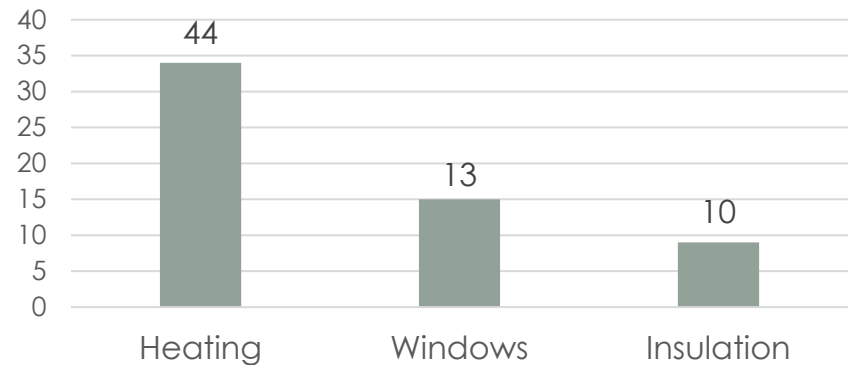


MARKET POTENTIAL FOR ENERGY CONSERVATION

% Heat Source Type in SnoPUD Service Territory

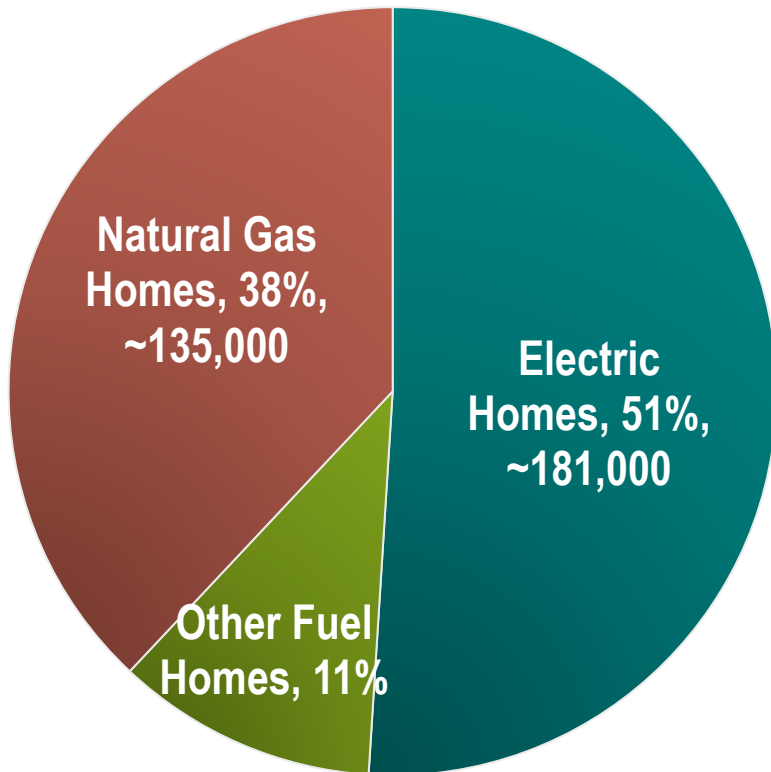


2022 Contractors by Measure

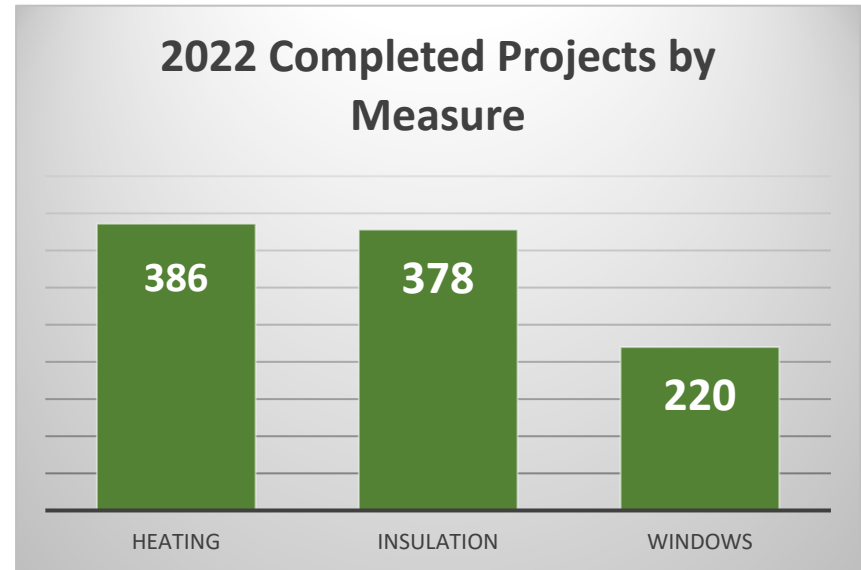


MARKET POTENTIAL FOR ENERGY CONSERVATION

% Heat Source Type in SnoPUD Service Territory



2022 Completed Projects by Measure



PROGRAMS / MEASURES

Single Family (Existing Homes)

- Weatherization and Heating Measures
- SF Rebate Eligibility
- Rebate Amounts
- Rebate Process

Retail Instant Rebates

- Appliances, **electric hybrid water heaters**, smart thermostats
- At participating retailers and online marketplace.snopud.com



WEATHERIZATION & HEATING MEASURES

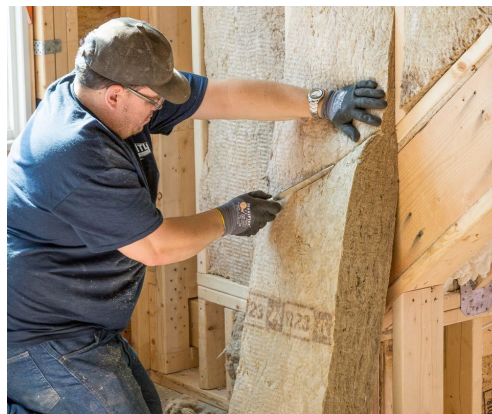
Heat Pumps

- Air Source



Insulation

- Attic
- Wall
- Floor
- Duct



Windows



REBATE PROCESS

- Contractor determines customer eligibility
- No waiting for PUD pre-approval
 - Customer and contractor determine installation schedule
- Contractor ensures installation meets PUD program specifications
 - All jobs subject to verification
- Work is completed before applying for rebate

Unsure? Call before you install!

(425) 229-5598



INSTANT REBATE REQUIREMENTS

- Customer invoice/receipt must show “PUD Instant Rebate”
- Contractor assumes risk for non-qualifying installations submitted
- Option for Customer credit at signature line

Unsure? Call before you install

(425) 229-5598



PROJECT DEVELOPMENT INCENTIVE

- In 2022 we added a Project Development Incentive or PDI for our contractors.
- The PDI is payable to the contractor to offset the administrative costs of participating in our program(s).
- **Eligibility to receive the PDI:**
 - **Application must be submitted in the most current workbook (2022).**
 - **Rebate must be paid to the contractor and taken off the customer invoice.**
 - **Rebate application must be submitted within the 90-day window from completion.**
 - **Call-backs must be completed with-in 30-days.**
 - **PDI may not exceed Rebate.**
 - **Rebate must meet all program requirements and be approved for payment.**
 - **PDI amounts:**
 - **Heating \$175.00/rebate**
 - **Weatherization \$125.00/rebate**



NEXT STEPS

DECIDE IF PUD PROGRAM IS A FIT

Does the PUD Registered Trade Ally Network fit your company's business?

- Job Volume Requirements (2/yr)
- Single Family Existing Homes
- PUD Program Specifications
- PUD Service Territory
- Customer Qualification & PUD Instant Rebate
- Management of Timelines and Paperwork



IF “YES”, THEN.....

- Review & Sign Trade Ally Agreement & Rider(s)
- Provide Liability & Auto Insurance Certificates
(with endorsements & additional insured)
- Provide Contractor & Master Business License
- Provide W-9
- Attend PUD Installer & Sales training for relevant measures
 - (included in this training)

Provide all documentation within 30 days of this presentation.



HEAT PUMP INSTALLER & SALES TRAINING

WINTER 2022 - 2023

PUD 

AGENDA

- Single Family Program Review
- Process & Paperwork
- Requirements & Specifications
- Installation Guidelines
- Quality Control
- Meeting Program Requirements
- Resources

ELIGIBILITY: SINGLE FAMILY

- **“Single Family” definition** includes
 - Residences of up to 4 attached dwellings, including
 - Manufactured and Modular Homes
 - Additional Dwelling Units
 - Townhouses (share walls but do not vertically overlap, not subject to the # of units cap)
- **Permanently installed electric heat at time of bid**
 - Wood/propane/gas stoves and inserts not applicable
- **An active PUD account**
 - Snohomish County or Camano Island
- Only **living areas of the home**
- Not a repair or remodel program





Gas vent

Gas meter

Outdoor unit

Tankless gas water heater

DUCT SEALING & INSULATION REBATES

Measure	Rebate
Duct Sealing & Insulation	\$5.00/lineal foot up to \$450
Duct Sealing & Insulation - Manufactured Homes	\$200 single wide \$400 double/triple wide

All programs & rebates subject to change. Check www.snopud.com for current offerings.



HEAT PUMP REBATES

Measure	Rebate
Ducted HP Conversion - Sized: Inverter Driven HSPF2 8.5	\$2,500
Ducted HP Conversion - Sized: Air Source \geq HSPF2 7.5	\$1,800

* Ductless Heat Pumps in Midstream Program

All programs & rebates subject to change. Check www.snopud.com for current offerings.



PROCESS & PAPERWORK

PROCESS: STEP BY STEP

1. **Contractor** meets with **customer** to determine
 - Eligibility, provide estimate, win the job
2. **Contractor** and **customer** agree to
 - Price, payment terms, installation schedule
3. **Contractor** completes installation to PUD specifications and provides PUD Instant Rebate on customer invoice.
4. **Contractor** and **customer** complete the PUD Rebate Application and **contractor** submits to **PUD** with supporting documentation.
5. **PUD**
 - Reviews application
 - Contacts **customer** if inspection required
 - Pays **contractor** when job passes



REBATE APPLICATION PROCESS

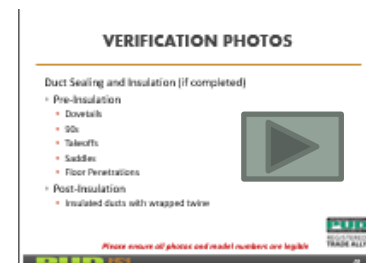
- Complete ALL relevant sections in application workbook
 - Heat Pump Applications
 - Sizing Calculator
 - Startup Checklist
- Attach required supporting documents
 - Verification Photos
 - Itemized Invoice with PUD Instant Rebate
- **Submit within 90 days of installation**
- Use the current version: www.snopud.com/TAResources



APPLICATION CHECKLIST

- Include ALL home information
 - Square footage, Year, Home Type, Pre-Existing Electric Heat Source etc.
- Check “Instant Rebate” OR “Customer Credit”
 - Discuss with customer, align with invoice
- Complete ALL relevant rebate fields
- Complete customer signature box
- Use the checklist (“How to Apply”) in Workbook ‘Process end Requirements’ to ensure all necessary documents are included

Incomplete applications will not be processed



Resources for residential contractors

Materials on this page are for PUD Registered Trade Allies installing heating or weatherization equipment for residential customers in single-family homes.

Bulletins

- ↪ Heating program changes > 6/21
- ↪ Heating promotion > 6/20
- ↪ Photo verification > 6/20

Heating



Training

- ↪ Orientation & heat pump training > 7/21
- ↪ Insulation training > 1/21
- ↪ Orientation & windows training > 7/21

Trade Ally newsletter

- ↪ October 2021
- ↪ June 2021
- Subscribe >

Workbooks

- ↪ Heating rebate application workbook (7/21)
- ↪ SAMPLE ducted HP, standard construction workbook
- ↪ SAMPLE inverter HP, manufactured

Rebate resources

- ↪ Process & requirements
- ↪ Heat pump startup checklist with TrueFlow test (printable) > Do not submit for rebate
- ↪ Photo examples



Rebate Application

For Heating Rebates in Single Family Homes

Customer Information

Homeowner Name		Email		Phone		Contact (if not homeowner)		Contact Email		Contact Phone					
Installation Address			City/Town		State	ZIP		Mailing Address (if not home address)			City/Town		State	ZIP	
					WA										
		# of													
Total SqFt	Treated Area	Dwellings	Year Built	Residence Type	Home Type	Foundation	Primary Heat Source	Water Heater							
Notes															

Heat Pump Rebate

Heat Pump rebates are available to PUD customers who replace their primary electric resistance heating system (e.g., baseboard, wall heaters, electric furnace) with an efficient electric heat pump. Homes with an existing gas, oil, or propane furnace or boiler are not eligible. Only one (1) heat pump rebate per home. For more information on this program visit our [Heatline Page](#). Please provide: 1) a PUD Startup Checklist, 2) a PUD Sizing Calculator with balance point, 3) an itemized invoice, and 4) verification photos.

Heat Pump	Requirements	Install Date	Installed Cost	Rebate Amount

Duct Sealing & Insulation Rebate

Must be sealed with mastic and insulated to a minimum of R-6. Please complete all applicable fields and provide: 1) an itemized invoice and 2) verification photos.
**Linear feet required only for Standard Construction homes.*

Home Type	Linear Ft.*	Old R-Value	New R-Value	Install Date	Installed Cost	Rebate Amount

PUD Registered Trade Ally Information

Trade Ally Company Name	Representative Name	Phone	Email Address	Project Development Incentive

Check for Errors

Signature

I, the homeowner, request one or more rebates for measure(s) installed in the home located at the address above. Attached are legible copies of the itemized invoice(s) and other required documentation. I understand and agree to the terms of the Energy Efficiency Rebate Agreement, the Additional Conditions, and the conditions for participation in Residential Energy Efficiency Programs ("Programs"). I also understand that:

- (i) the Public Utility District No. 1 of Snohomish County ("PUD") will make the final determination of any rebate I may be eligible to receive;
- (ii) Program(s) are subject to change without notice; and
- (iii) rebate applications must be submitted within 90 days of installation of the energy-efficiency measure(s).

I agree to receive my rebate via (select one):

Instant Rebate (provided on the PUD Registered Trade Ally's invoice) and authorize the PUD to pay the PUD Registered Trade Ally, in my name, the rebate(s) due to me



Homeowner Signature:

Date:

Electronic Signature: By checking this box, inserting my name on the signature line, and submitting the form electronically to the PUD, I certify that I understand and agree to the above terms.

SIZING CALCULATOR

- Fill out all applicable fields
- Size to a balance point of $\leq 30^{\circ}\text{F}$
- Click 'Area Calculator' Button to directly input Window/Door sizes and import to sizing calculator
- Use "Insulation Tables" Button to help with hard-to-verify site-built and manufactured homes

SIZING CALCULATOR



Energy Services • ce@snopud.com • www.snopud.com/TAResources

Sizing Calculator

For Heat Pumps

Homowner Name:

This heating system sizing calculator is based on industry standard practices and ACCA Manuals J and S. This calculator will calculate heating loads only. Please fill out all of the blue drop-downs and boxes that are applicable to your project. As you make selections in the drop-downs for each section, some values will be calculated for you. If you do not see the selection you need in the drop-down options, please call SnoPUD at **(425) 783-1731** for assistance. To see detailed instructions for each section, place your cursor over the cells with **red corners**.

Home Information

Design City	Design Delta T	Treated Area (sqft)	Avg Ceiling Height (ft)	Heated Volume (ft ³)	% Ducts in Unheated Area	Infiltration Level
Bothell	49	2,012	8	16,096	75%	Normal

Windows & Skylights

Area Calculator

Window Type	Area (sqft)	U-Factor	UA	Window Type	Area (sqft)	U-Factor	UA
Double Pane Vinyl or Wood Frame-Clear Glass	173	0.55	95.2				
Skylight	Area (sqft)	U-Factor	UA				
Standard Skylight	12	0.5	6				

Doors

Door Type	Area (sqft)	U-Factor	UA	Door Type	Area (sqft)	U-Factor	UA
Wood Slab in Wood Frame	35	0.46	16.1	Steel Panel	21	0.19	4.0

Insulation (Attic/Ceiling, Walls, Floors)

Insulation Tables

Attic/Ceiling	Area (sqft)	U-Factor	UA	Attic/Ceiling	Area (sqft)	U-Factor	UA
Attic R-15	2012	0.069	138.8				



STARTUP CHECKLIST



Energy Services • ce@snopud.com • www.snopud.com/TAResources

Heat Pump Start-Up Checklist

Homeowner Name:

All applicable sections must be filled out by the contractor at the time of installation. This completed form must be signed by the contractor. Submittal required to receive PUD funding. Keep a copy for your records.

New Heat Pump Equipment

AHRI #	HSPF	SEER	Balance Point
8331376	9.6	16.0	30
Outdoor (OD) Unit Make	OD Unit Model #	Number of Compressor Stages OR check if Inverter Driven <input type="checkbox"/>	
Lennox	SL 18XP1 - 030-230A	1	
Indoor (ID) Unit Make	ID Unit Model #	OD Unit Capacity (Tons)	
Lennox	CBY32MV-024/030*+TDR	2.5	
Backup/Auxiliary Heat Type		Backup/Auxiliary Heat Capacity (kW)	
Electric Furnace		15.0	

VERIFICATION PHOTOS

- Installed Indoor and Outdoor Unit
- Model numbers of indoor and outdoor units
- Condensate outside termination/line set
- Thermostat showing OD temperature
 - For Mitsubishi/Daikin show aux. lockout control mounted at air handler
- Filter at Air Handler
- If filter grill is used, 2” filter installed

Please ensure all photos and model numbers are legible



VERIFICATION PHOTOS

Duct Sealing and Insulation (if completed)

- Pre-Insulation
 - Dovetails
 - 90s
 - Takeoffs
 - Saddles
 - Floor Penetrations
- Post-Insulation
 - Insulated ducts with wrapped twine

Please ensure all photos and model numbers are legible

INVOICE WITH INSTANT REBATE

- Information must match Application
- Include *Proof of Purchase Requirement* details (listed on Application)

PROOF OF PURCHASE REQUIREMENT: ITEMIZED INVOICE

Invoices must be legible and include the information listed below (photocopies are acceptable):

- ✦ PUD Registered Trade Ally name, address, and phone number.
- ✦ Itemized list of each product, including quantity, product description, manufacturer, model number, or other identifying information. This must match the information listed on the rebate application.
- ✦ Total installed cost and amount of PUD Instant Rebate deducted.



INVOICE #05550126

Bill To		Ship To	
Customer	Jane Smith	Recipient	ABC Heating
Address	1234 Main St Everett WA 98201	Address	2130 Smit St EVERETT WA 98201
Phone	425-555-5425	Phone	425-555-1212

Qty.	Item#	Description	Unit Price	Line Total
1	insulation	Install Mitsubishi 1.5 -Ton inverter driven ductless heat pump model #MUZGL18 with 1.5-Ton wall unit model number #MSZGL18 AHRI #7489178 and wall mounted thermostat		5200

Application **DUCTLESS HEAT PUMP**

Must have minimum 9.0 HSPF and SEER 14, be inverter-driven and use 410A refrigerant. Must install one head in the main living area, and main living area must have existing permanently installed electric heat. Please complete all fields and provide an itemized invoice.

OUTDOOR MODEL #	INDOOR MODEL #	INDOOR MODEL # <small>(if applicable)</small>	INDOOR MODEL # <small>(if applicable)</small>	AHRI #
MUZGL18	MSZGL 18			7489178

<input checked="" type="checkbox"/>	INSTALL DATE	INSTALLED COST	REBATE AMT
	12/1/20	\$ 5,929.20	\$800

	Job Total	5929.20
	PUD Instant Rebate	- 800.00
	Balance Owed	5129.20

WHO GETS THE REBATE?

INSTANT REBATE (99%)

- Invoice shows “PUD Instant Rebate” deducted from total cost
- PUD sends payment to **contractor** after job passes inspection

CUSTOMER CREDIT

- Invoice shows that customer paid for job in full – no PUD Rebate shown
- Credit to **customer’s PUD account** after job passes inspection



REQUIREMENTS & SPECIFICATIONS

All Heat Pumps

- “Single Family” Residence
- Electric Heat Source
- UL Listed & AHRI Certified
- No Dual Fuel

Ducted Heat Pumps

- Electric Resistance Heat
 - Sized to 125% of designed heat load
 - Locked out between 30-35°F



HP REQUIREMENTS & SPECIFICATIONS

Heat Pump Specs				
Heat Pump Type	HSPF2	SEER2	Inverter Driven	Sized to 30°F Balance Point*
Ducted - Sized	>= 7.5	>= 13.8		X
Ducted – Sized – Inverter Driven	>= 8.5	>= 13.8	X	X

*If Balance Point is below 24°F must be 2-Stage or Inverter Driven, if below 20°F must be Inverter Driven

DUCTED HEAT PUMPS

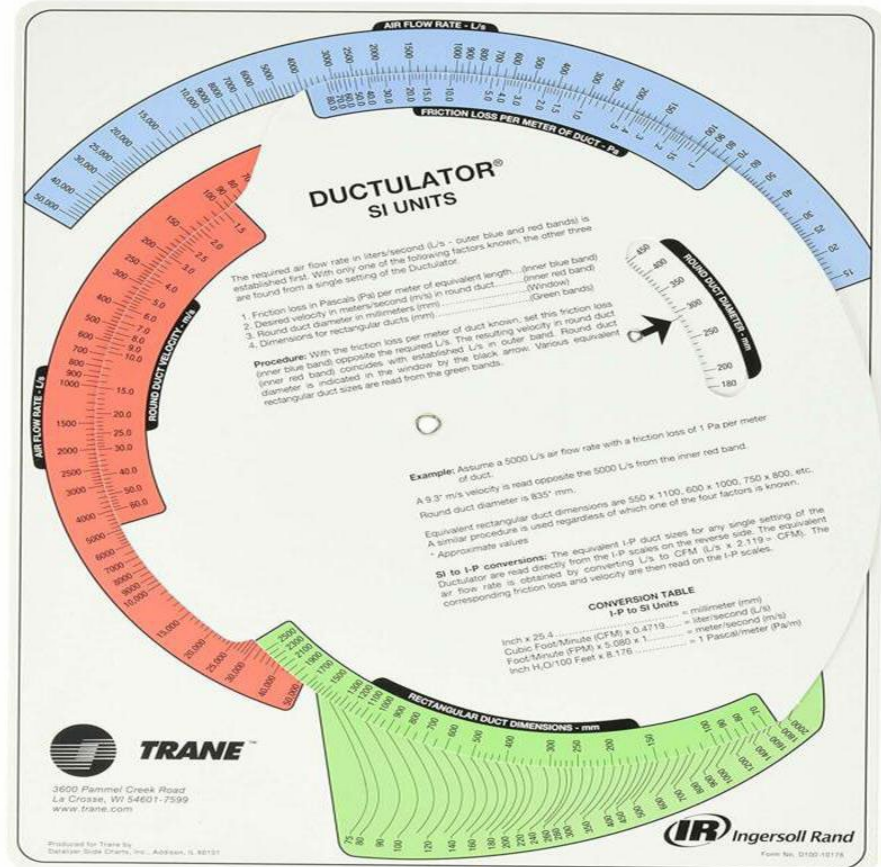
Duct sealing and insulation is not required, but highly recommended for ducted systems



DUCT DESIGN

- Static Pressure Limitations
 - Supply .08 PSI to .10 PSI
 - Return .05 PSI to .06 PSI
- 400 CFM per Ton Single Stage
- 350 CFM per Ton Two Stage and Variable Speed units

*or to manufacturer's specifications



Spec H1-3

INSTALLATION

INSTALLATION LOCATIONS

Air Handler Units

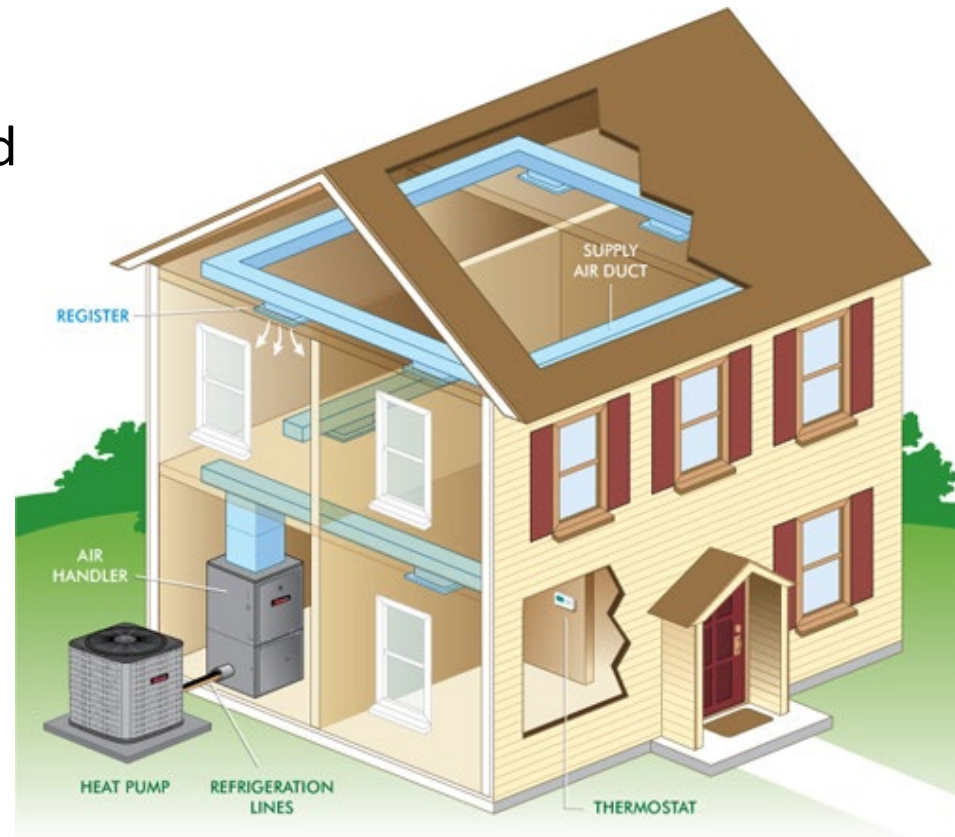
- Install where it can be easily accessed by customer if needed

Outdoor Units

- Install to Manufacturer & PUD Clearances
 - >5ft from property line
 - >6ft from dryer exhaust
 - *>6ft propane tank

Refrigerant Piping

- Doesn't block access



*varies with jurisdiction

Spec G1-G3

EQUIPMENT MIXING

Addition of coils to existing electric furnace (FEH) assembly will not be approved unless:

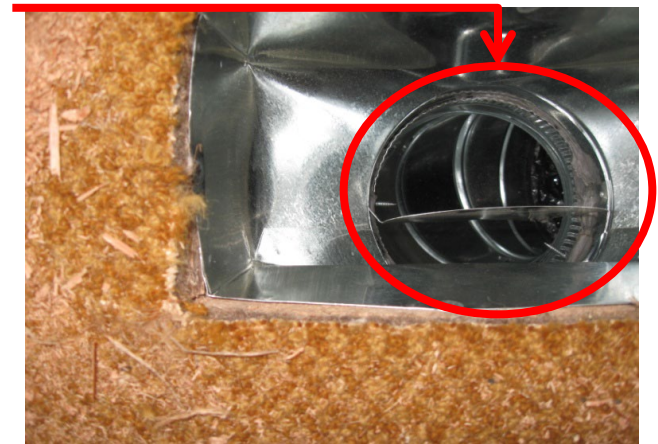
- UL & AHRI Approved coil and FEH combination
- Meets efficiency requirements
- Heating elements staged in increments of 10kW or less
- **FEH is heat pump ready**
- Blower sizing meets minimum CFM requirement
 - Note in Start-Up Checklist

Spec O 1-6



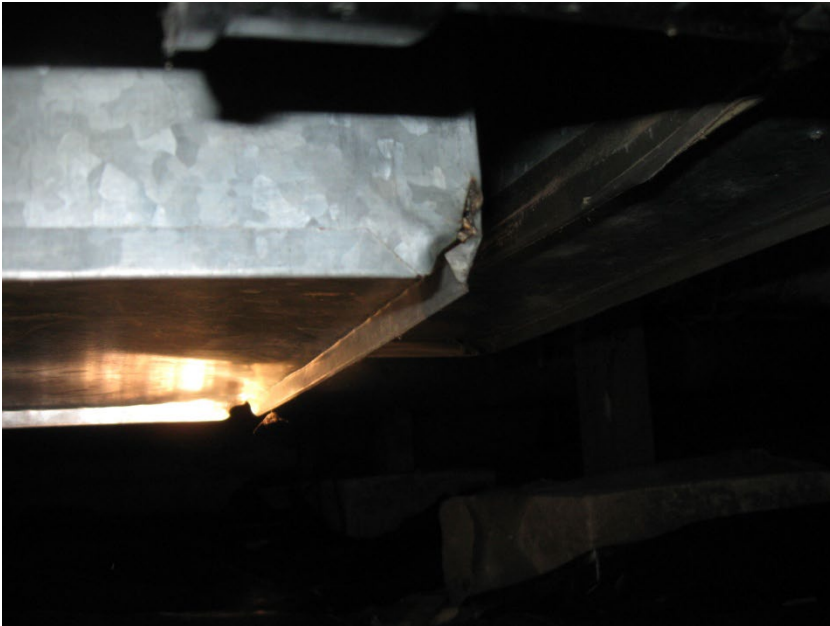
DUCTWORK INSTALLATION

- Crawlspace – min 18” clearances
- Flex Duct – 30ft limit (supply or return)
 - Anything before or after flex duct needs to be hard piped to avoid crimping, sagging, and poor air flow
- Balancing dampers **required in new duct work** at boot or main supply trunk
- Seal ducts and insulate to nominal R-8
- Routine human contact
 - FSK type material required



Spec I1-I6

REPAIRING & SEALING DUCTWORK



Needs to be sealed



Signs of leakage

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REPAIRING & SEALING DUCTWORK

- All accessible ductwork must be sealed
 - Anything in unheated space
 - If not smooth metal – seal it
 - i.e. not asking to remove road barrier in manufactured home
- Mastic from below or foil-backed metal tape from above
- Meet new building codes & PUD specs
- Seal building cavities



Spec R1-5



DUCT INSULATION



Spec 101.1100

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NOISE & VIBRATION ABATEMENT

Indoor Units

- 2" Sound Liner
 - 1" is only R-4, insulate exterior plenum to achieve R-8 and cover with foil or FSK
- Flexible Connections (optional)

Outdoor Units

- >5ft from property line
- Be mindful of placement
 - i.e. below bedroom windows



Spec L1-L3

AIR FILTER

- High Efficiency Required
 - Electronic air cleaner or 4" pleated filter (furnace)
 - 2" min. pleated filter (filter grill)
 - All filters must have $MERV \geq 9$
 - 1" AirRanger filter approved for installations with limited space
- 100% of Return Air must pass through filter
- Easily Accessible
- Review maintenance requirements with customer



Spec J



REFRIGERANT PIPING

- Line Hide
- UV Tape
- Seal Penetrations



Spec L1-7

CONDENSATE PIPING

- Do NOT use existing plumbing
- Installed in accordance with manufacturer requirements
- Need to be drained to exterior
 - If not possible note why
- Terminates with a 90° or 45° fitting
- Termination not to exceed 4" above grade
- Seal all penetrations



Spec M 1-6

INDOOR/OUTDOOR THERMOSTATS

- Review thermostat operation with customer
 - Must provide user guide
- Must have Advanced System Recovery
- Outdoor thermostats lockout control must not exceed **35 degrees**
- **Onsite outdoor sensor highly recommended**



Spec P1-3

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QUALITY CONTROL

INSPECTION REQUIREMENTS

- All jobs subject to verification* before rebate payment is made
- Inspection will result in
 - Payment is authorized
 - Any issues found during review communicated to contractor
 - **Must be corrected within 30 days**
- High pass rate may lead to lower rate of inspection

****NOTE: Photographs are required as proxy for on-site verification during COVID-19 restrictions***



COMMON HEAT PUMP ERRORS

- Efficiency requirement not met (HSPF/SEER)
- Equipment installed doesn't match application
- Plenum not insulated
- Protective covering not installed
- Condensate line blocking access and or not sloped
- Incomplete start-up checklist
- Incorrect air-flow
- Return air grill noise
- Penetrations not sealed



MEETING PROGRAM REQUIREMENTS

CONTRACTOR REQUIREMENTS

- Manufacturer Training Once a Year
- **2 Year Parts & Labor Warranty**
- 24-Hour Phone Service



Spec D1-D 4

SNOHOMISH COUNTY
PUD
PUBLIC UTILITY DISTRICT NO. 1
REGISTERED
TRADE ALLY

RESOURCES

PUD ENERGY ADVISOR LINE

For timely help with

- **Eligibility** – you have a scenario that isn't covered by our standard eligibility requirements or customer qualification description
- **Specifications** – you have an installation or equipment question that isn't covered in the specification guide
- **Sizing Calculator** – you have a special situation or are having trouble

Unsure? Call before you install!

(425) 229-5598



IMPORTANT: TRADE ALLY RESOURCES

www.snopud.com/TAResources

- ALL Application Forms
- Supporting Docs - Sizing Calculator, Start-up Checklist, Insulation Certificate, Extension Request...
- Technical Specifications: Weatherization, Heating, Venting
- Sample Rebate Applications
- Newsletters, Bulletins, Logo Usage guidelines
- Contractor Agreement & Monitoring procedures



FINANCING OPTIONS



Snohomish County

Snohomish County Energy Smart Loans
Puget Sound Cooperative Credit Union
www.pscu.org/efficiency.php
askus@pscuc.org
1-800-273-1550



Banner Bank
www.bannerbank.com
1-800-272-9933



Puget Sound Cooperative Credit Union
Energy Smart Loans
www.pscu.org/efficiency.php



**UMPQUA
B · A · N · K**

Umpqua Bank
GreenStreet Lending
www.umpquabank.com
Tim Corrigan | 206-694-5441
timcorrigan@umpquabank.com



WASHINGTON STATE
**HOUSING FINANCE
COMMISSION**

Opening doors to a better life



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- Carol Jodock

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Questions?

THANK YOU

**... for helping our
customers save
energy!**