

Comfort and savings

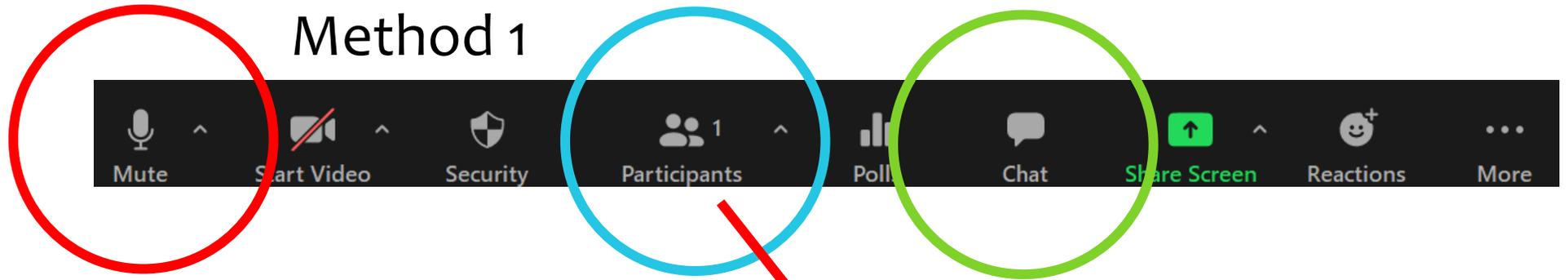
Add insulation, seal air leaks, and upgrade your windows

Breakout Session Weatherization

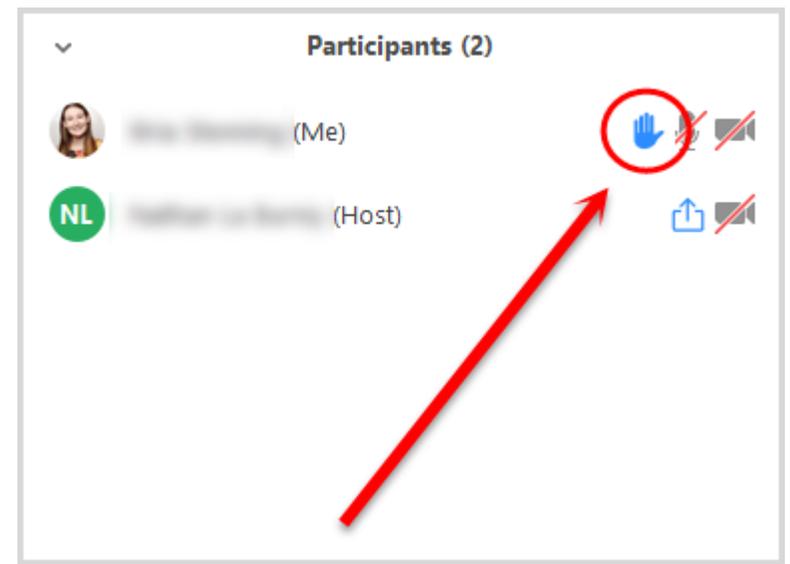
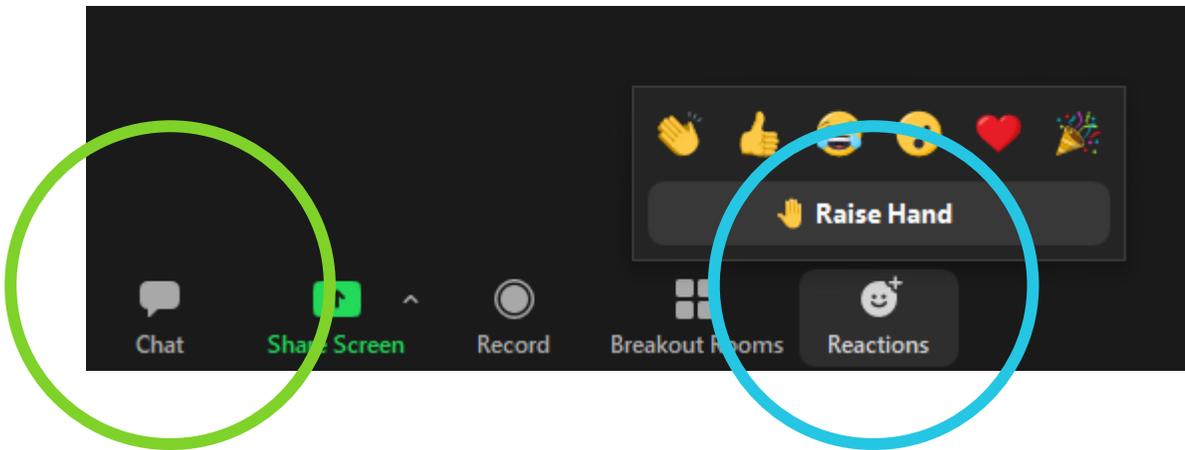
Insulation, Air Sealing, and Windows

Raising Your Hand and Using the Chat Feature in Zoom

Method 1

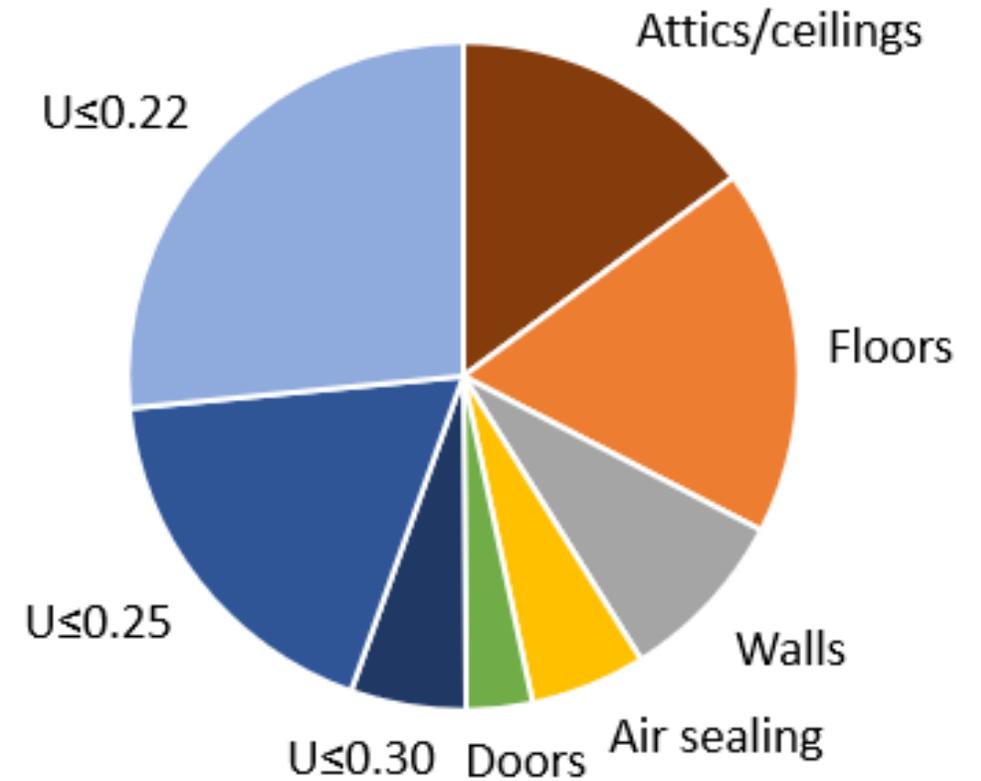


Method 2



Weatherization factoids from 2020-2021

- Weatherization Projects: 191 including 377 shell measures
- About the same activity as recent years (COVID did not slow you down)
- Mostly windows
- Estimated to save EWEB customers nearly \$200 per household, annually

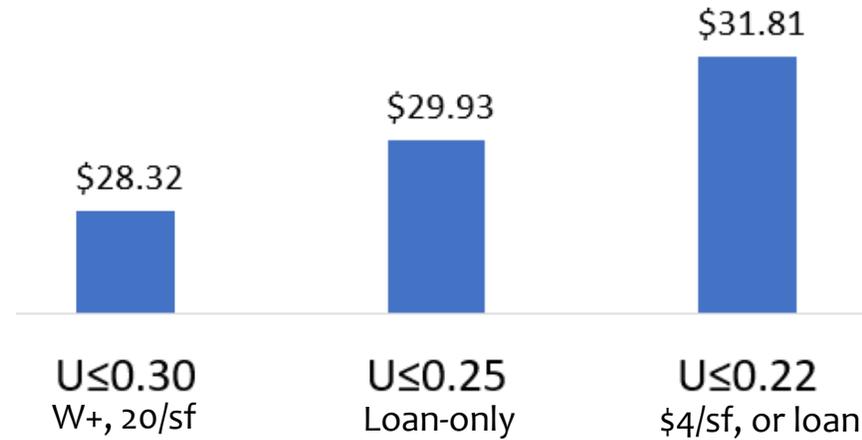


Weatherization factoids from 2020-2021

Windows jobs completed by participating contractors: 99%



Average installed window cost per sqft

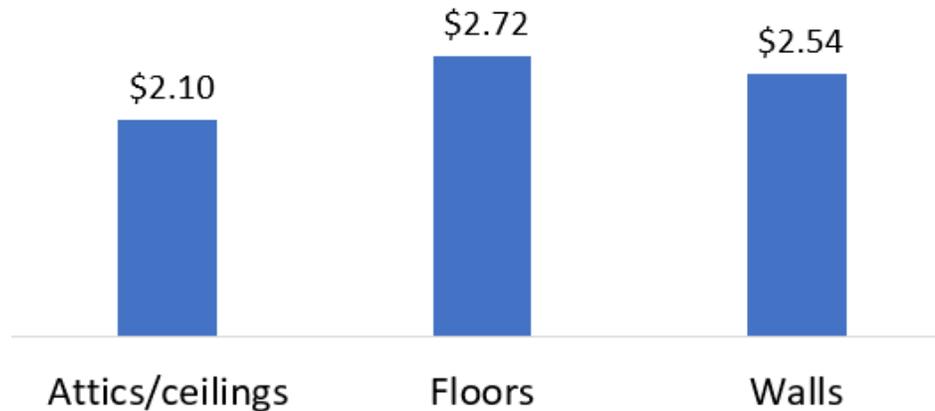


\$4/sf rebate often covers the cost for the triple pane package

Insulation jobs completed by participating contractors: 76%

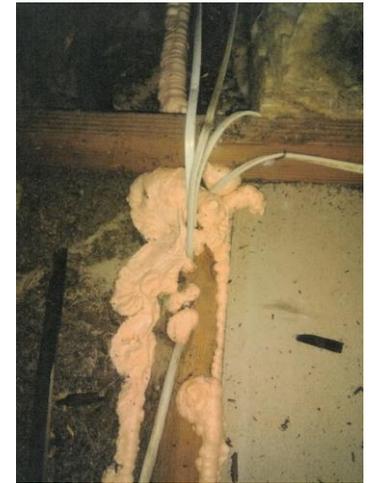


Average installed insulation cost per sqft



New rebate offering – Air Sealing

- Air leaks can contribute significantly to building heat loss
- Lost opportunity to make insulation perform better and improve comfort and indoor air quality
- New offer: add \$0.10 per square foot to attic or floor insulation jobs, or 0% interest loan up to \$1000
- In addition to current \$0.80 per square foot for insulation
- Prescriptive checklist



New rebate offering – Air Sealing

9. Prescriptive Air Sealing		Verified
9.1	If a combustion appliance exists in the home, a CO alarm exists and has been verified to be working.	<input type="checkbox"/>
Attic		
9.2	Attic hatch/door: Weatherstripping installed between the attic access frame and hatch or knee wall door.	<input type="checkbox"/>
9.3	Pull-down stairs: Weatherstripping or gasket installed between pull down stair cover frame and door, or an air-tight cover installed between stairs and attic.	<input type="checkbox"/>
9.4	Duct boots: Mastic (or similar) installed around the perimeter of duct boots, between the boot and the ceiling.	<input type="checkbox"/>
9.5	Chases & open cavities: Rigid barrier attached to attic floor or wall, and sealed with foam & caulking. Clearances maintained from combustible materials. Fire-rated materials used as appropriate near heat-producing devices.	<input type="checkbox"/>
9.6	Non-IC rated fixtures: Fixture sealed between interior finish and the fixture, or a non-flammable air-sealed box installed over fixture. Shield extended above new attic insulation. No insulation covers the top of the shield.	<input type="checkbox"/>
9.7	IC rated fixtures: Fixture sealed between interior finish and the fixture, or air-sealed box installed over fixture. Fixture not covered with spray foam and openings in the fixture are not sealed. Attic insulation can be installed over fixture.	<input type="checkbox"/>
9.8	Bath fans: Foam, caulk, or other airtight sealant installed around perimeter of bath fans. Fire-resistant caulk used for bath fans with a heat source. Gaps larger than 1" spanned with sheet metal.	<input type="checkbox"/>
9.9	Electrical fixtures and plumbing penetrations: Foam, caulk or other airtight sealant installed at penetrations.	<input type="checkbox"/>
9.10	Top plates: Drywall-to-top-plate connections, wood-to-wood seams, top plate penetrations sealed.	<input type="checkbox"/>
9.11	Drop soffits: Rigid material installed and sealed with foam or caulk to close off drop soffits from the attic.	<input type="checkbox"/>
9.12	Floor joists under knee walls: Rigid material installed between floor joists, and foamed or caulked.	<input type="checkbox"/>
9.13	Tops of balloon-framed walls: Foam, caulk, or other air-tight seal installed at the tops of balloon-framed walls and to open walls between split-level attic areas. Perimeter of each stud space foamed or caulked.	<input type="checkbox"/>

- Important: carbon monoxide detector
- We must be able to verify that air sealing has been completed according to checklist
 - In-person verification
 - Photo-documentation

Underfloor Crawlspace		
9.14	Crawlspace hatch/door: Weatherstripping installed between the crawlspace access frame and hatch or door.	<input type="checkbox"/>
9.15	Chases & open cavities: Rigid barrier attached to floor or wall, and sealed with foam or caulking. Clearances maintained from combustible materials. Fire-rated materials used as appropriate near heat-producing devices.	<input type="checkbox"/>
9.16	Duct boots: Mastic (or similar) installed around the perimeter of duct boots, between the boot and the floor.	<input type="checkbox"/>
9.17	Electrical fixtures and plumbing penetrations: Foam, caulk or other airtight sealant installed at penetrations.	<input type="checkbox"/>
9.18	Sill-plate: Sealed to stem-wall connections with foam or caulk.	<input type="checkbox"/>
9.19	Rim-joists: Rigid material installed between rim joists if no blocking is present. Perimeter of each rim joist cavity between basements and crawl spaces foamed or caulked.	<input type="checkbox"/>

Note: the following locations are considered "not accessible" and are not required to be air sealed:

- Where building structure or mechanically fastened materials block access |
- Any air sealing opportunities immediately adjacent to eave line (i.e. top plates, electrical & plumbing penetrations, can lights, drop soffits).
- Attic penetrations covered by more than 5 inches of loose-fill insulation or a combination of loose-fill and batt insulation.
- Areas with existing vermiculite insulation, due to possible risk of asbestos exposure.

Additional requirements for air sealing payment (circled)

New rebate offering – Air Sealing



SEALED CHASE OR CAVITY.

Courtesy of Oregon Housing and Community Services and Oregon Energy Coordinators Association



OPEN/UNSEALED CHASE OR CAVITY.

Courtesy of Oregon Housing and Community Services and Oregon Energy Coordinators Association



FLOOR JOISTS UNDER KNEEWALL (BLOCKED WITH RIGID MATERIAL AND SEALED WITH CAULK).

Courtesy of U.S. Department of Energy



FLOOR JOISTS UNDER KNEEWALL (NOT BLOCKED WITH RIGID MATERIAL AND UNSEALED).

Courtesy of U.S. Department of Energy



NON-IC FIXTURE WITH DRYWALL SHIELD (HAT).

Courtesy of Advanced Energy



UNSEALED NON-IC FIXTURE.

Courtesy of Advanced Energy



SEALED PENETRATION (HEAT-PRODUCING).

-  Surrounded by sheet metal.
-  3-inch clearance maintained.
-  Fire-resistant sealant.

Courtesy of DOE Weatherization Program Trainers' Consortium (DOE WAP TC)

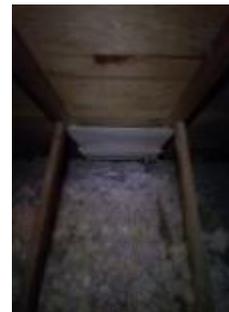


UNSEALED PENETRATION (HEAT-PRODUCING).

Courtesy of DOE Weatherization Program Trainers' Consortium (DOE WAP TC)

Inspections

- Please provide 3 working days' notice for attic and wall insulation jobs, and an approximate time when preparation work will be complete.
- During pandemic, we may rely on contractors to do self inspections
 - Take photos that show pre conditions, prep work, and post conditions
 - An online form that follows the inspection checklist, and collects photos: bit.ly/EWEBinspect (can upload photos back at office if needed)

A screenshot of the EWEB Inspection Form. The form includes fields for Site Address, Homeowner's name, and a photo upload section. It also has a checklist for energy efficiency upgrades and a section for the user's role.

EWEB INSPECTION FORM

Please complete this page before moving on.
This photos can be saved on your phone or computer and uploaded when the installation is complete, but please review the following pages to be sure you collect all required photos before leaving everything in insulation.

Site Address
Please enter the street address where work is being done.

Homeowner's name

Please take a photo of the front of the house, including the street address.

Upload

What energy efficiency upgrades are being installed?

- Ceiling Insulation
- Floor Insulation
- Wall Insulation
- Air Sealing
- Ducted Heat Pump

What is your role?

- Contractor
- Property owner
- EWEB Inspector
- Other

Please enter your name



Springfield Utility Board



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2020 COMPLETED PROJECTS

Programs	#projects	Rebate Funded	Loans Funded
Heat Pumps	23	\$10,100	\$42,000
Ductless Heat Pumps	210	\$139,300	\$179,947
Windows	85	\$54,416	\$30,140
Insulation	39	\$34,847	\$0.00
Limited Income Windows and Insulation	18	\$52,418	\$0.00

Weatherization Contractors

24 SUB Approved List

Worked with 12 in 2020

Heat Pump Contractors

36 SUB Approved List

Worked with 21 in 2020



2021 SUB Residential Programs

PROGRAMS	REBATE	LOAN	0% Interest	PROGRAM REQUIREMENTS
Ductless Heat Pump	\$800	\$4000 single head system \$5500 two head system \$7000 three or more heads 48 to 60 months term limit	Loans are approved and serviced by Pacific Cascade Credit Union	Single family home, Manufactured home, 2 to 4 <u>Plex</u> units. Homes must be electrically heated. https://www.subutil.com/conservation/for-your-home/rebates-and-loans/
Ducted Heat Pump	\$800	\$7000 max financing 60 months term limit	Loans are approved and serviced by Pacific Cascade Credit Union	Single family home, Manufactured home. Homes must be electrically heated. https://www.subutil.com/conservation/for-your-home/rebates-and-loans/



2021 SUB Residential Programs

Window Program	\$6 / sq ft of glass ≤ 0.30 U-value	\$4000 max financing 12 to 48 months term limit	Single family home, Manufactured home, 2 to 4 <u>Plex</u> units. Homes must be electrically heated. https://www.subutil.com/conservation/for-your-home/rebates-and-loans/
	\$8 / sq ft of glass. ≤ 0.22 U-value		
	50% Cap Cost		
Insulation	\$1 / sq ft of insulated area	\$4000 max financing 12 to 48 months term limit	Single family home, Manufactured home, 2 to 4 <u>Plex</u> units. Homes must be electrically heated. https://www.subutil.com/conservation/for-your-home/rebates-and-loans/
	50% Cap Cost		



Springfield Utility Board

WELCOME TO COMFORT READY HOME

We help communities become more energy efficient, healthier and more comfortable through home weatherization, HVAC and water-heating upgrades. We make affordable energy-efficiency upgrades possible for every home by connecting energy utilities, contractors and homeowners with each other and with the tools they need to make smart energy-efficiency decisions.



On Demand and Live Training

Making the most of your time.

Online Learning

- Courses on air sealing and insulation where you can earn CEUs.
- Webinars and Hands On Workshop
 - Air Sealing Webinar coming up on 3/23
- Field Guide with Checklists
 - Comfortreadyhome.com to download



[Click on an event for details and registration.](#)

MARCH 2021

Today < >

SUN	MON	TUE	WED	THU	FRI	SAT
28	1	2	3	4	5	6



Thank you!

Eugene Water & Electric Board

Business Solutions and