Agenda

• EWEB: Results-to-date 2019, Current & future offerings
• SUB
• EPUD
• Lane Electric
• Questions?
EWEB Contacts

Project inquiries: ems.answers@eweb.org or 541-685-7088
Submiting invoices, etc.: ems.answers@eweb.org
Loan inquiries: ems.loans@eweb.org or 541-685-7318

Staff*
Supervisor Greg Kelleher 541-685-7368
Administrative Dina Yarbrough -7088
Zulema Duarte -7045
Loans Misty Merriam -7318

Specialists Charles Schifferdecker -7369
Matt Lutter -7545
Sarah Helmers -7442
Jeffrey Petersen -7441

*Staff emails are: first.last@eweb.org
2019 EWEB Residential Results

- **Low-income W+ (EWEB)**: $200K in rebates, $400K in loans
- **Low-Income EE (Agencies)**: $200K in rebates, $400K in loans
- **Ductless Heat Pumps**: $600K in rebates, $500K in loans
- **HP conversions from gas/oil**: $100K in rebates, $300K in loans
- **Electric Vehicles**: $100K in rebates, $200K in loans
- **Ducted Heat Pumps**: $100K in rebates, $300K in loans
- **Heat Pump Water Heaters**: $100K in rebates, $200K in loans
- **New Const Heat Pumps**: $100K in rebates, $200K in loans
- **Windows**: $100K in rebates, $200K in loans
- **Insulation**: $100K in rebates, $200K in loans
- **Low Income Leak Repairs**: $100K in rebates, $200K in loans
- **Electric Service Upgrade**: $100K in rebates, $200K in loans
- **Backup Generators**: $100K in rebates, $200K in loans
- **Septic Replacements**: $100K in rebates, $200K in loans
- **Water Line Replacements**: $100K in rebates, $200K in loans

Total $1.34M in rebates & grants, $1.78M in loans, 2.1M kWh saved, 1319 customers served
## 2019 EWEB Residential Program Summary

<table>
<thead>
<tr>
<th>Program</th>
<th>Rebates Available</th>
<th>Loan Limit (0% interest)</th>
<th>Program Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ducted Heat Pump</td>
<td>$1,000</td>
<td>$12,000 for site built homes, $7,000 for manufactured</td>
<td>Air-source heat pumps only. For income eligible amount, home must have electric heat. Learn more at bit.ly/EWEBEdictedhp</td>
</tr>
<tr>
<td>Ductless Heat Pump</td>
<td>$800</td>
<td>$4,000 plus $1500 per additional feed</td>
<td>For income eligible amount, home must have electric heat. For single- or multi-unit systems installed in single-family homes, manufactured homes, side-by-side condos/row houses, or non-stacked apartments. Learn more at bit.ly/EWEBEdthp</td>
</tr>
<tr>
<td>Insulation</td>
<td>$0.80/Sq.ft of insulation, up to 50% of eligible cost</td>
<td>$4,000</td>
<td>Home must have electric heat and be poorly insulated. For income eligible, a minimum of 2 bids are required. Learn more at bit.ly/EWEBInsulationwind</td>
</tr>
<tr>
<td>Windows</td>
<td>$4.00/ft. of glass or $6,000 for U-factor ≤ 0.25</td>
<td>$4,000 for U-factor ≤ 0.22</td>
<td>Unless otherwise specified, must have U-factor ≤ 0.22. Home must have electric heat and existing single pane or double-pane metal windows. For income eligible, must have existing single pane windows. Learn more at bit.ly/EWEBwindowsinsulation</td>
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<tr>
<td>Heat Pump/Water Heater</td>
<td>$800</td>
<td>$2,500</td>
<td>For income eligible amount, home must have electric water heater. Must be Tier 3 with at least a 50 gallon tank. Learn more at bit.ly/EWEBFrpwh</td>
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<tr>
<td>Solar Electric Net Metering</td>
<td>$0.40/AC output watt up to $2,500</td>
<td>N/A</td>
<td>Site must have at least a 50% total solar resource fraction to receive rebate. 25 kWh max. Direct generation option available in lieu of net meter. Learn more at bit.ly/EWEBnetmeters</td>
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<tr>
<td>New Construction</td>
<td>$1000 heat pump, ducted or ductless</td>
<td>N/A</td>
<td>EWEB encourages homes to be built with efficient low-carbon electric heating and water heating systems. Custom rebates may be available as well. Learn more at bit.ly/EWEBnewconst</td>
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<td>Electric Water Heater</td>
<td>$800</td>
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<td>Level 2 EV Charger</td>
<td>$500</td>
<td>N/A</td>
<td>Charger must be Level 2 (240V, 30 Amp maximum), equipped with the SAE J1772 standard or Tesla connector plug, installed in compliance with applicable codes. Learn more at bit.eeweb.org/ev</td>
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### 1. Unless otherwise noted, customer is eligible for a loan OR rebate, not both, unless income eligible. Loans and rebates are capped at project cost, including installation.
### 2. An application submitted by the homeowner is required. Apply online for most programs at https://secure.eeweb.org/Programs.aspx.
### 3. Program restrictions may apply. Rebate and loan amounts are subject to change at any time, please contact EWEB at 541-440-7880, or visit our website for the most current program information.
### 4. Loan funding may be used to cover costs of labor from participating contractors. See list of contractors online at bit.ly/EWEBcontractor.
### 5. Information about all of EWEB’s rebates and loan offerings can be found at http://www.eeweb.org/energy.
### 6. To qualify for the limited-income funding, households must meet income guidelines, which can be found at bit.ly/EWEBLI.
### 7. Aggregate loan limit is $25,000 per customer. The term for an EWEB loan is 48 months when borrowing under $5,000, or 60 months when borrowing $5,000 or more.
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<td>Ductless Heat Pump</td>
<td>$800</td>
<td>$4,000, plus $1500 per additional head</td>
<td>For income eligible amount, home must have electric heat. For single- or multi-head systems installed in single-family homes, manufactured homes, side-by-side condos/townhouses, or non-stacked apartments. Learn more at <a href="http://bit.ly/EWEBdhp">bit.ly/EWEBdhp</a></td>
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<td>Heat Pump Water Heater</td>
<td>$800</td>
<td>$2500</td>
<td>For income eligible amount, home must have electric water heat. Must be Tier 3 with at least a 50 gallon tank. Learn more at <a href="http://bit.ly/EWEBhpwh">bit.ly/EWEBhpwh</a></td>
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<td>$0.40/AC output watt up to $2,500</td>
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<td>New Construction</td>
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<td>EWEB encourages homes to be built with efficient low-carbon electric heating and water heating systems. Custom rebates may be available as well. Learn more at <a href="http://bit.ly/EWEBnewconst">bit.ly/EWEBnewconst</a></td>
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<td>$800 heat pump water heater</td>
<td>N/A</td>
<td></td>
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<tr>
<td></td>
<td>$800 NEEM certified manufactured home</td>
<td>N/A</td>
<td></td>
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<td>$500</td>
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<tr>
<td>Efficiency Education Program</td>
<td>FREE</td>
<td>N/A</td>
<td>Receive a free kit with energy and water-saving products and basic emergency preparedness supplies. We visit your home and evaluate it, looking for opportunities to reduce your monthly bill, improve your home comfort and lower your carbon footprint. Contact us for details.</td>
</tr>
<tr>
<td>EWEB Greenpower</td>
<td>N/A</td>
<td>N/A</td>
<td>Support clean energy &amp; encourage renewable energy projects in our community by assigning 100% of your electricity to Greenpower, or choosing blocks of Greenpower for as little as $1.50 per month. Learn more at eweb.org/greenpower</td>
</tr>
<tr>
<td>Backup Generator</td>
<td>N/A</td>
<td>$2,000</td>
<td>Installation must include a transfer switch and be permitted. Applicant must be an EWEB electric customer and be the owner of the property. Learn more at eweb.org/generatorloan</td>
</tr>
<tr>
<td>Toilets</td>
<td>$100 bill credit per toilet</td>
<td>N/A</td>
<td>New toilet must be WaterSense and use 1 gallon per flush or less and must replace an existing toilet using 1.6 gallons per flush or more. Learn more at eweb.org/waterconservation</td>
</tr>
<tr>
<td>Hand Valve</td>
<td>Free valve (or $75 bill credit) and $75 bill credit for installation</td>
<td>N/A</td>
<td>Shut-off valve to be installed on customer side of water meter by a plumber. Valves may be provided by plumber or EWEB. Learn more at eweb.org/waterconservation</td>
</tr>
<tr>
<td>Water Service Line Replacement</td>
<td>N/A</td>
<td>$5,000</td>
<td>Replacement of a leaking water service line between the meter and the house only. Must be done by a qualifying plumber. Learn more at eweb.org/leakassistance</td>
</tr>
<tr>
<td>Leak Repair Assistance</td>
<td>100% of eligible costs, income eligible only</td>
<td>N/A</td>
<td>Applies to minor plumbing repair and/or service line replacement.</td>
</tr>
<tr>
<td>Septic</td>
<td>$250 to inspect and pump out septic system</td>
<td>$10,000 for repair or replacement of septic system</td>
<td>Property must be within the McKenzie River Pure Water Partners Boundary. Learn more at eweb.org/septic</td>
</tr>
<tr>
<td>Electric Service Upgrade</td>
<td>N/A</td>
<td>$20,000</td>
<td>Property must be in EWEB electric service territory. Examples include electric panel or meter base replacement, underground service work, or new services. Learn more at eweb.org/service-upgrade</td>
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5. Information about all of EWEB’s rebate and loan offerings can be found at: http://www.eweb.org/savenenergy.
6. To qualify for the limited-income funding, households must meet income guidelines, which can be found at bit.ly/EWEBLI.
7. Aggregate loan limit is $20,000 per customer. The term for an EWEB loan is 48 months when borrowing under $5,000, or 60 months when borrowing $5,000 or more.
# Installation Quality

- **Good-quality work!**
- **Only 10 failed inspections in 2019**
  - Ducted Heat pumps: 7 failures, due to various things including missing pressure relief, controls issues, air flow, duct sealing
  - Attic insulation: 2 failures due to attic venting, thin final insulation levels
  - Ductless failure due to location near bedroom, unhappy customer
- **Review of ducted heat pump requirements**
  - Return air paths need to be added to bedrooms ONLY IF they are pressurized 3 Pascal or more with respect to hallway
    - Ducted returns, undercut doors, pass-thru grilles, jumper ducts are all OK
    - Check for pressure imbalance before install and/or after
  - **Thermostat settings**
    - Auxiliary heat lockout at 30F or below
    - Compressor lockout at 5F, or OFF
Resources to help contractors participate in EWEB programs

See eweb.org for web pages intended for contractors, one click…

Find forms, specifications, tools, links, checklists, etc.
Changes

• 2019
  – Increased rebates
    • Ductless heat pumps $800
    • Heat pump water heaters $800, or LI $1,700
    • Heat pump water heaters direct from General Pacific
    • Insulation $0.80 per square foot
    • Electric vehicle charger rebate $500
  – More EWEB program offerings, share with your customers

• 2020
  – No change in budget
  – Coming soon: Air sealing offering, optional photo-based inspections using web form, electric service repair grant
Questions?
DeeAnn Starr & David Harris

Springfield Utility Board
Energy Efficiency Future at EPUD

+5 million kWh per year
(over 300 homes)
Energy Efficiency Future at EPUD

Areas of Focus Near Future:
- Heat Pump Water Heaters
- Opportunities With Advanced Analytics (Energy Audits)
- Weatherization
- Cold-Temperature Heat Pumps
- Smart Thermostats

Areas of Focus Far Future:
- Residential Behavioral Programs
- Commissioning Existing Heat Pumps
- VRV DHPs
- CO2 Water Heating and/or Space Heating
- New Lighting?
Lane Electric
No major program changes in 2020!
All homes must be electrically heated

All projects require pre-approval
HEAT PUMPS

$500 rebate

or

0% loan up to $9000

*Except for DHP upgrades (11.0 HSPF or greater)

$100 rebate
WEATHERIZATION

25% project cost w/ $1000 cap
or
0% loan up to $9000

(window u-value 0.30 or lower)
LOW INCOME WEATHERIZATION

$1,500 grant

LOW INCOME DHPs

$3,800 grant
HEAT PUMP WATER HEATERS

$200 Tier 1

$400 Tier 2 & 3
NEEM Certified Manufactured Homes

$500 Rebate
QUESTIONS?
### Residential Rebate & Incentive Programs

<table>
<thead>
<tr>
<th>Program</th>
<th>Description</th>
<th>Requirements</th>
<th>Incentives</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ENERGY STAR® Clothes Washer</strong></td>
<td>Up to $75</td>
<td>N/A</td>
<td>$75 per unit</td>
</tr>
<tr>
<td><strong>ENERGY STAR® Clothes Dryer</strong></td>
<td>Up to $75</td>
<td>N/A</td>
<td>$75 per unit</td>
</tr>
<tr>
<td><strong>Ductless Heat Pump</strong></td>
<td>With working electric furnace: Option 1: $2,000 cash rebate, No loan; Option 2: 0% interest $10,000 loan.</td>
<td>$800 rebate or 0% loan for all service types (must have electric heat in use)</td>
<td>Minimum Insulation Requirements* (see below) $800 rebate or 0% loan up to $7,000</td>
</tr>
<tr>
<td><strong>Variable Refrigerant Flow System</strong></td>
<td>New Heat Pump must be variable speed inverter driven compressor: Convert from working electric furnace: Option 1: $2,000 cash rebate, No loan; Option 2: 0% interest $10,000 loan.</td>
<td>$1,000 rebate or 0% interest loan up to $12,000 (Electric and non-electric heated homes)</td>
<td>Minimum Insulation Requirements* (see below) $800 rebate or 0% loan up to $7,000</td>
</tr>
<tr>
<td><strong>Whole House Air Sealing</strong></td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>
| **Insulation: ATTIC INSULATION (TO R-38)**   | $1.00 / SF not to exceed 70% of cost or 0% loan up to $5,000 available.    | Loan Program: 0% loan up to $5,000 for single or multi-family residences with permanently installed electric heat. Cash Grant: $0.80 per square foot of insulation-
| **FLOOR INSULATION (TO R-30)**              |                                                                            | Funds cover 25% of the measured costs up to a max of $1,100. 
(Customer is not obligated to reimburse Lane Elect.)  |
| **WALL INSULATION (TO R-15)**                |                                                                            | N/A                                                                          | N/A                                                                        |
| **WINDOW REPLACEMENT**                       | Eligible Windows: Minimum performance 0% loan up to $4,000.                 | Loan Program: 0% loan up to $5,000 for single or multi-family residences with permanently installed electric heat. Cash Grant: $0.80 per square foot of insulation-
|                                               |                                                                            | Funds cover 25% of the measured costs up to a max of $1,100. 
(Customer is not obligated to reimburse Lane Elect.)  |
| **ENERGY STAR® EXTERIOR DOOR**               | $40 / Unit not to exceed 70% of cost or 0% loan up to $5,000.               | N/A                                                                          | N/A                                                                        |
| **Heat Pump Water Heater**                   | $800 rebate per Tier 3 water heater and 0% interest loan up to $1,300.     | Loan Program: 0% loan up to $5,000 for single or multi-family residences with permanently installed electric heat. Cash Grant: $0.80 per square foot of insulation-
|                                               | Must replace an existing electric storage water heater.                     | Funds cover 25% of the measured costs up to a max of $1,100. 
(Customer is not obligated to reimburse Lane Elect.)  |
| **Northeast Energy Efficient Manufactured Housing Program** | Incentive payment to home buyer purchasing NEEM home with Electric Heat unless in utilities service territory | NEEM-certified Manufactured home $800 | N/A                                                                        |
| **Residential New Construction Program**     | N/A                                                                        | N/A                                                                          | N/A                                                                        |
| **Electric Vehicle**                         | $300 registration rebate                                                   | Electric Vehicle Charger (to help minimum $500 rebate)                       | N/A                                                                        |

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All utility program summary
As shared at the contractor meeting Dec 30, 2019