



New Construction Guidelines for Custom Efficiency Projects

The general guidelines used in determining eligibility for custom new construction energy efficiency projects are outlined below. When an Energy Savings Purchase Agreement (ESPA) is signed, the specific requirements for a EWEB incentive are finalized for the period of the ESPA. Please note prescriptive offerings are also available.

Determination of Savings:

- Savings are based on third party modeled savings using hourly simulation software (such as eQuest or Energy Plus) using ASHRAE 90.1-2013 Appendix G with adjustments for the applicable Oregon Energy Efficiency Specialty Code for baseline guidance.
- For some small projects, engineering calculations may substitute for hourly simulation.

New Construction Lighting:

- Savings shall be determined based on the Lighting Power Allowance (i.e. total watts allowed by applicable lighting code) and the projects Proposed Lighting Power (total watts of the project).
- Savings from lighting must achieve at least a 20% reduction from Lighting Power Allowance to qualify.

New Construction HVAC:

- HVAC systems qualifying for incentives include, but are not limited to, high efficiency: VRFs, PTHPs, DHPs, chilled beams, ground source HPs, package and split HPs.
- Efficiency for HVAC is generally the highest level efficiency specified by the Consortium for Energy Efficiency (CEE).

Incentives:

- Incentives subject to a 50% of Incremental Measure Cost (IMC) cap.
- For whole building models, if IMC is not available, EWEB may calculate IMC based on a percent of the whole building cost.
- To be eligible for incentive, project must have a benefit to cost ratio (as defined by BPA) of greater than one.

Measurement and Verification (M&V) for all projects consist of:

- Pre-project signed ESPA.
- Post-project Inspection.
- Review of invoices and labor costs.
- Written certification of measure completion by business owner/stakeholder.

Additional M&V for non-lighting projects with over 200,000 kWh of annual savings:

- The determination of actual energy and monetary savings will follow current best practice, as defined in IPMVP Volume I, EVO 10000 -1:2012. The M&V Plan shall adhere to IPMVP Volume I, EVO 10000 -1:2012 following IPMVP Option D and be approved by Energy Management Staff of EWEB.
- Lighting projects without significant interaction with other measures are exempt from the additional level of M&V, see New Construction Lighting section below for determination of savings.
- Projects with over 200,000 kWh in savings may receive a fraction of the total estimated incentive upon project completion and the remaining incentive after the model is calibrated (exact terms will be written in the ESPA).

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