



Step Up to ENERGY STAR® With NEEM+PLUS™

The Northwest Energy Efficient Manufactured Housing Program (we call it NEEM) is proud to partner with the Northwest’s manufactured home builders in offering **the most energy efficient manufactured home option package available anywhere in the USA**. The NEEM program’s technical experts teamed with homebuilders to design a home package that is durable, practical to build and **outperforms the EPA’s ENERGY STAR savings targets by 30 percent**. We call the result **ENERGY STAR with NEEM+PLUS**.

For those who want the best possible energy efficiency, enhanced comfort and durability for their new home, be sure to purchase one certified to meet ENERGY STAR With NEEM+PLUS standards.

What do I get?

- 10 percent more thermally efficient building envelope than ENERGY STAR
 - Additional insulation
 - New window technology
- Improved indoor air quality
 - Meticulous air sealing for 20 percent reduction in building air leakage
 - Best in class ventilation fans move air quietly and with half the energy use
- LED lighting lasts 10x longer, gives better light, uses 80 percent less energy
- ENERGY STAR refrigerator and dishwasher save energy and water
- Smart Wi-Fi thermostat improves comfort and saves up to 10 percent on heating

Expected annual household Energy Usage and Savings*:

Location	HUD Standard (annual kWh usage)	ENERGY STAR (annual kWh/\$ Savings vs. HUD)	ENERGY STAR with NEEM+PLUS (annual kWh/\$ Savings vs. HUD)
Seattle/Portland	15,700	11,200 / \$450 saved	9,500 / \$620 saved
Boise/Kennewick	19,500	13,600 / \$590	11,500 / \$800
Spokane/Billings	22,300	15,000 / \$730	12,700 / \$960

* For a 1,500 square foot home with an electric furnace, electricity rate of 10 cents/kWh. HUD Standard home represents typical builder base efficiency packages. Intended to be a guide, your savings may vary.



NORTHWEST ENERGY EFFICIENT MANUFACTURED HOUSING PROGRAM

Technical Specification Comparison between NEEM ver. 1.1 and ver. 2.0

	NEEM ver. 1.1, branded as ENERGY STAR®	NEEM ver. 2.0, branded as ENERGY STAR with NEEM+
Reference Path Insulation		
Ceiling	R-40	R-44 (or R-40 with improved floor)
Walls	R-21 standard framing	R-21 Intermediate framing w/insulated headers
Floor	R-33	R-33 (or R-33/52 with R-40 ceiling)
Windows	U-0.35	U-0.25 (or U-0.28 w/ added insulation)
Skylights	U-0.50	U-0.50
Entry Doors	U-0.19	U-0.19
Overall Average U-value	0.053	0.049
Building Tightness	5.0 ACH @ 50 Pa, via standard NEEM measures	4.0 ACH @ 50 Pa, via expanded air sealing measures
HVAC Measures		
Duct System	Mastic, 0.06 CFM50/ft3 total	Mastic, 0.06 CFM50/ft3 total
Crossover duct	R-8, elbows, tensioned straps	R-8, elbows, tensioned straps
Thermostat	Programmable	Wi-Fi Connected “Smart”
Whole house ventilation	32 Watts, <1 Sone	17 Watts, <1 Sone
Lighting	Not Specified	LED Throughout
Appliances, ENERGY STAR	Dishwasher	Dishwasher and Refrigerator
Moisture Management	Not Specified	Building wrap & door/window flashing