



Step Up to **NEEM**+PLUS™

The Northwest Energy Efficient Manufactured Housing Program (we call it NEEM) is proud to partner with Kit Custom HomeBuilders in offering the most energy efficient manufactured home option package available anywhere in the USA. Together we developed 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.

One of the few builders in the country to make ENERGY STAR certification standard on their HUD-code homes, Kit Custom HomeBuilders is also the most experienced builder of homes certified to meet the 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
 - Enhanced air sealing for 20 percent reduction in building air leakage
 - o 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 saves more energy in the kitchen
- Smart Wi-Fi thermostat improves comfort and saves up to 10 percent on heating

Expected annual household Energy Usage and Savings*:

Location	HUD Standard	ENERGY STAR	ENERGY STAR With NEEM+PLUS
	(annual kWh usage)	(annual kWh/\$ Savings vs. HUD)	(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+plus*		
Kit Custom Homebuilders Insulation and Energy Efficiency Measures				
Ceiling	R-40	R-40		
Walls	R-21	R-21 w/R-6 insulated headers		
Floor	R-33	R-33/R-55		
Windows	U-0.35	U-0.28		
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	In-floor	In-floor		
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		
Whole House Energy Usage Seattle / Portland Boise / Kennewick Spokane / Billings	28% Savings Versus Code 11,200 kWh total annual use 13,600 kWh total annual use 15,000 kWh total annual use	39% Savings Versus Code 9,500 kWh total annual use 11,500 kWh total annual use 12,700 kWh total annual use		