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Portland General Electric



Panasonic



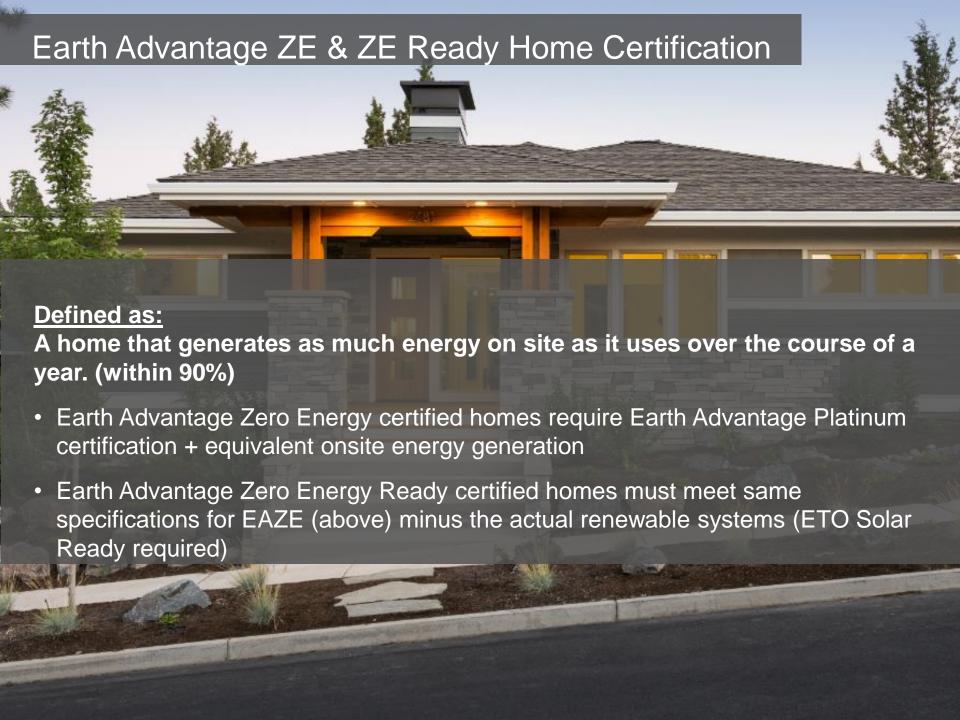












5 steps to ZERO ENERGY

Renewable Systems High Efficiency Appliances & Lighting Right-sized Mechanical Systems High Performance Shell Efficient Use of Space

ZERO ENERGY THEN VS ZE TRENDING

- Efficient use of space
- 2 High performance shell
- Right-sized mechanicals
- High efficiency appliances & lighting
- 5 Renewable systems

- 1 Renewable systems
- 2 Hyper efficient mechanicals
- 3 Efficient use of space
- 4 High performance shell
- High efficiency appliances & lighting

Home Design Tips

- Roof Pitch (for hosting solar PV)
- Overhang Depth
- Ranch vs 2 Floor
- Window / Fl Area Ratio
- Orientation
- HPWH Location
- Locate roof penetrations on N side

Building Component

- Flat Ceilings
- Vaults
- Walls
- Frame Floors
- Slab Floors
- Windows
- Doors
- Space Heating
- Water Heating
- Lighting
- Mech Vent
- Spot Vent
- Blower Door Score
- *Gas Fireplace & *Gas Range

Solar PV System Tips

- Central Inverter vs Micro Inverters
- Inverter Efficiency
- TSRF
- Black or Silver
- Watts Per Panel
- Roof vs Ground Mount



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