



Lummi Nation Housing Development

Ducoterra's SolaRay infrared heating panels completely heat Sixteen Northwest homes, add comfort and save money



"They look similar to an acoustic panel. Most people don't notice them which is nice. We've promoted them quite a bit."

- Douglas Landsem—Architect

"The tenants like the heat, they like of feel of it versus a regular furnace. They're easy to install, no ductwork. A simple panel that's included in the electrical bid."

- Pete Powless— Project Manager, Lummi Housing Authority

"Ducoterra delivers exceptional value and high quality for my customers and are easy to do business with."

- Jeff Caldwell—Heating Green



Lummi Nation Housing Authority all-electric housing

The Lummi Nation is a nationally recognized leader in tribal self-governance and education, the third largest tribe in Washington State, serving over 5,000 members on the Lummi Reservation, and with an ongoing investment in tribal economic development. The Lummi Housing Authority commissioned the construction of sixteen new low-cost homes for the members of their tribe. These 3, 4, and 5 bedroom homes were required to be affordable, energy-efficient homes, with a low-cost heating system requiring only minimal maintenance. Usually, having both an affordable and energy-efficient heating system is not achievable, but Ducoterra's *SolaRay* heating panels met the challenge perfectly with our 20-year warranty, high-comfort radiant heat, excellent energy efficiency, and maintenance-free operation.

Energy savings and comfort combined

Ducoterra (www.ducoterra.com), in partnership with Heating Green owner Jeff Caldwell (www.heatinggreen.com), delivered 182 of its ceiling-mounted *SolaRay* infrared panels to heat the 16 new homes, supplying 186kW of electric heating capacity. These low-cost *SolaRay* panels will save the Lummi's over 63,000 kW and \$6,300 each year and 1,580,000 kW and \$174,000 over the lifetime of the housing project. The heating panels were installed with smart thermostats allowing homeowners to customize the heat in every room. The results are more comfortable living and increased energy savings. The new homeowners are happy with the infrared heating system and even in below freezing weather this winter, they are staying cozy and warm. As a bonus the panels help reduce indoor air pollution while staying whisper quiet. And with the expected life-time of 40 years for these panels, the new homeowners can be assured of a lifetime of hassle and maintenance free heating.

Ducoterra — changing heating—one house at a time

"We at Ducoterra believe that we can help make the world a better place by changing the way people heat their homes with our high efficiency heating panels which will reduce energy consumption and CO₂ emissions," said Patrick Beebe-Sweet, Ducoterra's President and Founder. "Ultimately, we believe radiant heat is the standard home heating of tomorrow, as our European neighbors have already learned."

KEY FACTS

LOCATION

Bellingham, WA

SIZE

16 homes, 186 kW in 182 panels

INSTALLED

July-November 2013

ANNUAL COST SAVINGS

\$6,300

LIFETIME COST SAVINGS

\$174,000