

With lower costs relative to petroleum alternatives, residential wood heating appliances are common in rural Alaskan communities. Many of these applications employ steel woodstoves which have a number of shortcomings including low efficiencies, high particulate emissions, and safety concerns related to high external surface temperatures. This short presentation reviews an old heating technology, the masonry heater, redesigned for small dwellings as a possible solution to these shortcomings. The use of the masonry heater has been popular in Europe and Southeast Asia since the 12th century and can potentially add001upe aJ1(a)1J(aJ1(5(l-5(l)-5(i