

Sandri Truck Wash » Pellet Boiler / Solar Thermal Combination



Above: Driver washing truck. Solar panels and pellet storage silo are visible on the left.

Top Left: ÖkoFEN 56kW (190 MBH) Pellet Boiler and old oil boiler

Bottom Left: Solar hot water storage and ÖkoFEN boiler

System Benefits

- » *Switch to local, renewable source*
- » *Increased efficiency*
- » *Showcase technologies*

Going Green to Clean

Built in 2007, Sandri's outdoor truck wash is a year-round facility, with a high-pressure wash system and a 20' x 80' pad heated with 4,500' of radiant tubing. The system was originally heated using a Weil-McLain 480 oil boiler, consuming approximately 3,800 gallons of oil annually.

In the fall of 2009, we installed a small Bosch/Janfire wood pellet boiler system and a 3 panel Stiebel Eltron solar thermal system to offset oil consumption. In October of 2010, we replaced the small pellet boiler with a larger pellet system from ÖkoFEN. While we are doing this primarily to showcase our principal pellet boiler line, the ÖkoFEN boiler is larger and significantly more efficient than the original system, and we expect to reduce our overall oil consumption to less than 100 gallons this winter and in the future.

Project Specifications

Project Type	Outdoor Truck Wash - Heated Wash System and 20' x 80' Class II radiant snowmelt pad
Original System	Weil McLain 480 Cast Iron Oil Boiler
Renewable Equipment	Stiebel Eltron SOLkit 3 Solar Thermal System and ÖkoFEN 56kW (190 MBH) Pellet Boiler System
Fossil Fuel Reduction	3500 gallons #2 heating oil