

The Cadran's » Solar Hot Water Installation



A Solar Success Story



Two roof mounted Stiebel-Eltron flat plate collectors were installed by Sandri professionals at the Cadran's Ranch style home in the fall of 2009. This installation qualified for a 30% federal tax credit.

The panels cycle the heat gained from the sun into a 108 gallon hot water tank, insulated by 3 inches of urethane foam (with an R 21 insulating value). A System 2000 hybrid oil boiler (also installed in 2009) backs up the solar tank; however, the sun is able to provide for a majority of the hot water needs.

The upgrade to a new boiler, as well as the installation of a pellet stove to supplement their central heating needs, changed the Cadran's oil consumption from 800 gallons to only 300 gallons per year. When they added the solar hot water system, they are using less than 100 gallons of oil per year on average!

System Benefits

- » Switch to Renewables
- » 30% Tax Credit
- » Cost Savings

Project Specifications

Size	1100 sq. ft. Ranch home
Project Type	Solar Hot Water Installation
Renewable Equipment	Stiebel Eltron SOLkit 2 Solar Thermal System and Pellet Stove
Incentives	30% Federal Tax Credit