

ALLEGHANY INN

Sparta, North Carolina

Project Overview

In December 2009, Vanir completed the installation of a Solar Thermal Generation Facility for the Alleghany Inn in Sparta, North Carolina. Alleghany Inn now uses the Solar Thermal Facility's power generation to heat water for the hotel's 37 guestrooms, laundry facilities and restaurant dish washing. Vanir financed, designed, developed, built and now operates this solar thermal facility.

Providing more than 3,700 Therms of power annually, Alleghany Inn's Solar thermal Facility is powered by 48 EnerWorks solar thermal collectors. The collectors are flush mounted to a south facing 35 degree standing seam roof by integrated S-5 clamps. These panels feed seven 119 gallon water storage tanks and which are connected to the previously existing heating system via heat exchangers. Previously, the Allegheny Inn heated its hot water from propane, a considerable more expensive alternative.

Solutions that Work

Through the use of Vanir's Solar Thermal Power Purchase Agreement, The Alleghany Inn locked in the energy prices from Vanir for 20 years, all without making any capital outlays. Alleghany Inn is billed monthly for the solar energy consumed at a predetermined flat rate for 20 years, freeing the Allegheny Inn of the unpredictable price movements of the energy markets.

Vanir's installation of this solar thermal facility created 15 jobs and generated \$130,000 in revenue for the local economy in the span of two months. Additionally, the renewable energy generated offsets 146,880 lbs. of CO₂, the equivalent of reducing 144,936 miles of cars driven.



PROJECT INFORMATION

Alleghany Inn
341 North Main Street
Sparta, NC 28675

SUMMARY

More than 3,700 Therms of power annually

Powered by 48 EnerWorks solar thermal collectors

These panels feed seven 119 gallon water storage tanks

Use of Vanir's Solar Thermal Power Purchase Agreement

The renewable energy generated offsets 146,880 lbs. of CO₂, the equivalent of reducing 144,936 miles of cars driven