

FLETCHER BUSINESS PARK

Fletcher, North Carolina

Project Overview

In December 2008, Vanir completed the world's largest solar thermal heating and cooling facility.* Vanir financed, designed, developed, constructed and now owns and operates this 1.5 MW solar thermal facility.

Encompassing only 30,000 sq. ft. of rooftop space, the 1.5 MW solar thermal energy production facility is powered by 640 EnerWorks solar thermal panels racked on one mile of structural steel framing. These panels feed

a 27,000 gallon storage tank using 1.5 miles of piping, five heat exchangers, and 17 pumps. The system generates approximately 1,500,000 kWh of power annually while conditioning 185,000 sq. ft. of space.

The Fletcher Business Park project created 90 jobs and generated \$2.6 million in revenue for the local economy in the span of three months. The renewable energy generated will offset 2,040,000 lbs. of CO₂, equivalent to reducing 2,013,000 miles of cars driven, and saves 237,789 trees.

Solar Thermal Purchase Agreement

With Vanir owning and operating the system it enables our customers to take advantage of this technology without having to make a capital expenditure. Fletcher Business Park is purchasing the energy from the solar thermal power generation facility through a long-term Solar Thermal Purchase Agreement (STPA) based on the kWh generated.

Fletcher Business Park is the cornerstone project in Vanir's entry into North Carolina, and eventually nationally, as a Fund to develop, own and operate, solar energy facilities.

* Certified by International Energy Agency (IEA)



PROJECT INFORMATION

Fletcher Business Park
269 Cane Creek Industrial Park
Fletcher, North Carolina 28732

Summary

- 1.5 MW solar thermal energy production facility
- Powered by 640 EnerWorks solar thermal panels
- The system generates approximately 1,500,000 kWh of power annually
- The renewable energy generated offsets 2,040,000 lbs. of CO₂, equivalent to reducing 2,013,000 miles of cars driven, and saves 237,789 trees
- Largest solar thermal generation facility in the world (certified by IEA)