



CARL ZEISS CASE STUDY

Carl Zeiss, an international leader in the fields of optics and optoelectronics, installed a 531.7kW Kingspan Energy solar photovoltaic system on their manufacturing facility in Thornwood, NY, in September 2014.

PROJECT SUMMARY

Carl Zeiss has been contributing to technological progress for more than 160 years – with solutions for the semiconductor, automotive and mechanical engineering industries, biomedical research and medical technology, as well as eyeglass lenses, camera and cine lenses, binoculars and planetariums.

As a technology and innovation leader, Carl Zeiss continues to expand their sustainability commitment throughout its operations across the globe.

The commitment transcends to their facilities in Thornwood New York, where they have installed a 531.7kW Kingspan Energy rooftop solar PV system. Integrated with an EnergySmart Roof system, it blossomed into a full turnkey energy efficiency installation, consisting of an energy-efficient LED lighting upgrade along with a comprehensive Honeywell building energy management system.



SYSTEM PERFORMANCE

The building energy management system on its own will yield a total yearly savings of 172,000 kWh.

Together with the solar system, it will amount to a total annual energy saving of nearly 1,040,864 kWh.

The energy efficient lighting upgrade will remove 270,705 kWh from their total load, equivalent to 65% reduction in energy load.

Environmental equivalencies (per year):

404,709 lbs of CO₂ avoided;
1,714.5 lbs of SO₂ avoided;
676.8 lbs of NO avoided;
54.6 acres of new trees planted;
500,072 miles not driven in passenger cars;
20,923 gallons of gasoline not burned.



PROJECT CARD

Building owner: Carl Zeiss

Location: Thornwood, NY

System size: 531.7kW

Roof space coverage: 52,000 sq ft

Project type: New Build

Industry sector: Manufacturing

Financing: Nysesda, Self financed

Completion date: September 2014

Installation time: 90 days

Kingspan Energy Inc
7510 Montevideo Road
Jessup
MD 20794

kingspanenergy@kingspan.com
www.kingspanenergy.us

