



Commercial

Sainsbury / Prologis



Grey SolarWall® panels were incorporated in the façade of the Pineham Sainsbury Distribution Center, built by the developer Prologis. The system was divided into several sections for architectural appeal, and also to accommodate the floor-to-ceiling windows.

Background

The Sainsbury Distribution Center in Pineham, England, is a combined effort between Sainsbury, which is one of the world's largest retailers, and Prologis, which is one of the world's largest real estate developers. It demonstrates the new standards that are being established for sustainable construction. This particular building is the first to be completed under the Plant Positive™ initiative, which has been spearheaded by Prologis and the CA Group, the SolarWall® licensee in the UK. The goal of this initiative is to offset 110% of the CO2 generated in the construction of the completed project.

Solution

The 60,000 m² (645,600 ft²) Sainsbury distribution center incorporates 950 m² (10,200 ft²) of grey SolarWall panels with a projected energy deliverance of 343,000 kWh/year. Sainsbury and Prologis chose the SolarWall system for their facility because the technology represented the lowest cost method for satisfying the 10% renewable energy target that is in place in the United Kingdom. This performance value was confirmed by BSRIA (Building Services Research and Information Association) after conducting a 12 month long monitoring program on a Solar-

Wall installation at the CA Group headquarters in northern England to quantify the energy and CO2 savings. This data then formed the basis of a thermal modeling study undertaken by leading environmental architects, Battle McCarthy, which concluded that in many applications, SolarWall by itself more than satisfies the overall 10% renewable energy target by actually delivering up to 20% of a building's total energy requirements.

Results

The SolarWall air heating technology was awarded a 2007 World Green Business Award in the category of "Best Use of a Product Design" for its involvement in the Pineham Sainsbury Distribution Center. The award for SolarWall was presented at a ceremony in London by BBC Senior Environmental Correspondent Roger Harrabin.

Andrew Brewster, the CA Group SolarWall Design Engineer who accepted the award said "*We're delighted that World Business have recognized the true value of specifying simple and effective renewable technologies like SolarWall, which can provide up to 20% of a building's energy requirements. But the real praise has to go to Prologis and Sainsbury's for their foresight in specifying the system.*"

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