New Construction Program

Frito-Lay

Frito-Lay's Jim Rich Service Center Earns United States Green Building Council's Leadership in Energy and Environmental Design (LEED™) Program Gold Certification

Henrietta, Monroe County

Background

Frito-Lay, the convenient foods division of PepsiCo, is headquartered in Purchase, New York, and operates manufacturing plants and distribution centers across the United States. The company sought to build a new 40,000-square-foot distribution center in Henrietta that qualified as a high-performance building and met LEED certification criteria.

To achieve its energy efficiency goals, Frito-Lay took part in the **New York Energy $mart**SM New Construction Program administered by the New York State Energy Research and Development Authority (NYSERDA). A technical assistance study was performed by NYSERDA's independent technical consultant Steven Winter Associates. The study evaluated and verified the energy efficiency measures proposed by the design team of William McDonough + Partners of Charlottesville, Virginia, and Stantec of Rochester, New York.

Recommendations

The technical assistance study evaluated energy-saving opportunities through Whole Building Energy Simulation Modeling. The results of the energy modeling also served as a basis for energy efficiency assertions needed for LEED certification. The project scored an overall 47 points in the LEED rating system, resulting in Gold Certification. It also scored eight out of ten points in the Energy Optimization Credit category, indicating that the implemented high-performance technologies reduced the energy cost budget by 50%.

Energy efficiency recommendations included:

- Office lighting and control measures - occupancy sensors and continuous daylight dimming
- Warehouse lighting and control measures - occupancy sensors and stepped daylight dimming
- A 25 kW photovoltaic (PV) system
- High-performance glazing
- Office and warehouse high efficiency heating, ventilation, and air conditioning (HVAC) units and controls

Incentive and Results

NYSERDA provided a **$185,579** incentive to offset some of the cost associated with implementing the energy efficiency improvements and to assist in the LEED certification process.

The implemented energy efficiency measures will result in an annual savings of approximately 108,500 kWh.

NYSERDA

For more information about these services, contact NYSERDA
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