

A Win-Win for Dollars and Learning



Reed Intermediate School in Newtown, CT serves students in the fifth and sixth grades. In an effort to lower energy costs and do their part to help the environment, they partnered with the Newtown Sustainable Energy Commission to bring the largest solar installation to date to Newtown. They selected Direct Energy Solar to install the massive system while working under a unique schedule. The school now boasts a 617 kW system that the students can directly see in their daily lives as they come to school every day.



39%

Electricity Offset
with Solar Power



43%

Reduction in
Energy Costs



\$1.5 MILLION

Projected Savings
Over 25 Years

System Description			System Size	System Production	Environmental Benefits
LG 285 watt panels	Solaredge 20 kW and 10 kW Inverters	Roof Mount	617 kW	756,205 kWh annually	196 tons of waste recycled instead of landfilled each year ¹



Reed Intermediate School

Newtown, CT

Reed Intermediate School Was Looking to Help the Environment

Reed Intermediate School in Newtown, Connecticut educates and inspires students in the fifth and sixth grades to excel. Providing a quality education to hundreds of students uses a lot of electricity [1,958,098 kWh a year!]. That's when the Newtown Sustainable Energy Commission stepped in.

The commission was founded in 2005 to identify, implement, and support renewable energy, energy efficiency, and energy conservation programs for Newtown's residents, businesses, and town agencies. Having already installed solar on several other town facilities, the Newtown Sustainable Energy Commission identified Reed Intermediate School as an opportunity for their biggest installation to date. Schools are perfect candidates for solar, as it reduces the operating expenses and provides students with a first-hand look at taking positive steps for the environment. It's a win-win for dollars and a win-win for teaching.

Direct Energy Solar's Custom Solution

Many of the students at Reed Intermediate School experienced the tragedy at Sandy Hook Elementary in 2002, and so it was extremely important to the selection committee that their solar installer accommodate a sensitivity to loud noises and limit work to evenings, weekends, and during school breaks. They chose Direct Energy Solar because, not only was the team happy to accommodate their special request, but they were **very experienced with this type of project** and provided the **most comprehensive solution at a competitive price**. Direct Energy Solar designed the school's impressive system and worked diligently during the requested hours to complete this massive project on time.

The Results

Reed Intermediate School's motivation for going solar was more of an effort for the building to go green than to save money on electricity. However, they are benefiting from lower electricity bills while doing their part to help the environment. They financed their system with a Power Purchase Agreement with the Connecticut Green Bank, which offers an opportunity for building owners to go solar with no upfront costs, delivering immediate savings on electricity. Going solar enabled Reed Intermediate School to reduce their energy consumption by 43% and the electricity generated from their system has a 25-year average cost of \$.059/kWh versus \$.104/kWh—a 43% reduction in electricity costs! Their total solar investment is projected to save them \$1.5 million over 25 years, which is a lot of money to reinvest into their students' education!

“This project is a large array and has opened many eyes as to just how big this whole alternate energy industry can be. More importantly it has sparked interest among the students as to the possibilities.”

FRED HURLEY | *Public Works Director—Newtown Connecticut*



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Offers and financing are available to customers who qualify, vary by location, and are not available in all areas. We customize our solar power system specifically for your facility, therefore, pricing, savings, utility bill, solar bill amounts and actual returns vary based on different factors including but not limited to your location, system size, available solar incentives and local utility rates. See terms and conditions for more details. CA CSLB 992952, CT HIC 0628993/ELC 0200988-E1, DC HIC 420216000150/ELC EM902554, MD MHIC No. 132642, MA HIC 168228/ELC 21555, NJ HIC 13VH05618900/ Electrical Contractor Bus. Permit # 34EI01175700, Suffolk 54817-H/51050-ME, Nassau H2409670000, Westchester ELC 1753/1750, Putnam HIC PC6168, Orange ELC 494, Rockland H-12400-40-00-00, PA HIC PA023535, RI Registration Number 39880 © 2018 Direct Energy. All Rights Reserved.