

EnergyPeak

Based in Pittsburgh, CENTRIA Services Group, is a division of CENTRIA, an international company and one of the U.S.'s premier suppliers of architectural metal wall and roofing systems used in commercial/industrial projects. Since 1906, CENTRIA professionals have offered combined engineering expertise, fabrication capabilities, and practical construction experience to owners, architects, engineers, and contractors worldwide. CENTRIA boasts a comprehensive line of building products and services designed to meet the aesthetic and functional challenges of nonresidential construction.

CENTRIA is a dedicated member of the U.S. Green Building Council (USGBC). Their products have been used on 10 LEED Certified Projects in the past two years. From light pollution reduction, optimal energy performance, advanced thermal and moisture protection to using recycled and recyclable content materials, CENTRIA has a number of projects and products in development with the environment and energy efficiency in mind.

One such innovative product is the EnergyPeak Building Integrated Photovoltaic (BIPV) Standing Seam Roof Program. EnergyPeak was developed by CENTRIA Services Group to deliver viable solar roofing systems to the commercial building industry through a quality standing seam roof system manufacturer. EnergyPeak is a complete, tested, proven and warranted system for integrating photovoltaic technology with standing seam metal roofing. The technology behind EnergyPeak is UNI-SOLAR, 4 mm thick photovoltaic laminates. These lightweight, durable and flexible thin-film solar laminates are packed with power potential and are well-suited for integration with metal standing seam roofing. The EnergyPeak system converts the collected solar energy into electricity that can be used internally or returned to the electrical grid. Laminates are adhered to the flat pan area between seams in new or existing standing seam applications and require no additional installation hardware or structural support.

EnergyPeak UNI-SOLAR photovoltaic laminates have many advantages over other similar products in the market: UNI-SOLAR laminates have the highest relative efficiency under high temperature and low light condition of all comparable technologies, they weigh less than 1 psf, compared to competitors' 3-7 psf, and UNI-SOLAR laminates are the #1 choice of architects and designers for ability to conform to virtually any roof contour and slope. EnergyPeak's unique, integrated solar roofing technology provides an efficient approach to producing clean energy, with systems available in 5, 10, 15, 30, 60 and 120 kW.

The alliance of CENTRIA and UNI-SOLAR has combined breakthrough BIPV technology and a standardized system for specifying solar energy on behalf of the standing seam commercial roofing industry, bringing the industry to the forefront of the green building movement. Any standing seam metal roofing manufacturer can adopt the EnergyPeak system and begin immediately to provide a turnkey alternative energy solution to their customers, establishing their commitment to a sustainable future. By integrating EnergyPeak technology into the commercial building industry, CENTRIA provides the necessary tools standing seam manufacturers would need to manufacture, brand, market and sell solar roofing solutions that are built upon existing standing seam roofing products.

One such tool is the EnergyPeak custom software which is given exclusively to EnergyPeak providers. The software produces a personalized report outlining an application's expected power production as well as a complete and thorough financial analysis, including 25-year cash flow projections, payback time in years, and internal rate of return on investment information. The software also creates a completed report which is submitted to an up-to-date database of all federal and state financial incentives for alternative energy systems to check for any applicable rebates, tax credits and possible renewable energy credits (RECs). In some cases, these favorable incentives, combined with low installation costs and high efficiency, can decrease ROI to less than ten years and, in states like New Jersey, New York and California, less than five years—an unmatched time period for commercial solar energy.