



## project: athletic club

New Shrewsbury Racquet Club, Tinton Falls, N.J.

**Product:** Englert Series 2500 standing seam panels (61,000 square feet)

**Material:** 24-gauge unpainted Galvalume

**Installer:** FM Home Improvement, Denville, N.J.

**Designer:** Pro-Tech Energy Solutions, LLC, Branchburg, N.J.

Pro-Tech Energy Solutions designed and managed the installation of a 281.06kW photovoltaic solar array atop a 61,000 square foot Galvalume roof. The standing seam roof and solar array replaced an aging fastened through metal roof that had been leaking on the pre-engineered metal building. Pro-Tech and Englert, the roofing consultant on the project, also recommended installation of a Roof Hugger retrofit system over the old roof, avoiding business interruption and the need to remove and replace the old roof at high cost. Blanket insulation was also inserted into the Roof Hugger grid system to reduce energy costs and to mute the sound of rainfall that had plagued the old racquet club roof. The designers also chose a lightweight S-5! Miniclamp over a heavier photovoltaic panel clamp to reduce weight loads on the structure. The combination of the 1,200-solar panel array, the Englert Series 2500 standing seam metal roof and the insulation are expected to save the owner \$49,000 in annual energy costs.