

Northstone Solar LLC has recently completed a large (12.5 KV) residential Solar Photovoltaic (PV) project near Coudersport, PA with some unique features. The PV project was sized to provide heating and cooling for the existing house in addition to the house's normal electrical usage. The home was previously heated by natural gas, but a geothermal heat pump will now be used to provide heating, cooling and "free" domestic hot water, all from one unit. Now all the energy needed to operate the home will be provided by sunshine via the PV array. The PV array will be producing electricity for 7 cents per kilowatt-hour compared to the utility rate of 12 cents per kilowatt-hour.

In addition to supplying the energy for the home, the array was constructed as a storage space for things like firewood or power equipment, adding further value for the homeowner.

PV project detail and real time performance can be found [here](#).

The Lent Hollow Powerhouse

