



Town of Madbury, NH
Planning Board
13 Town Hall Rd
Madbury, NH 03823

**Town of Madbury Safety Complex
102.600 kW DC / 75kW AC Ground Mount Photovoltaic System**

Brief Overview:

ReVision Energy is contracted with the Town of Madbury to install a grid tied ground mounted solar electric system at the Safety Complex on 334 Knox Marsh Rd. The electricity generated by will offset municipal electric loads and save the town \$354,886 for the first 25 years of production (during the warranty) and total \$677,447 over the lifespan of 40 years. Annual CO2 offset is 196,523lbs, equivalent to 10,031 of gasoline not burned or 98,216 pounds of coal not burned. The system will benefit the town and surrounding areas both financially and environmentally.

The solar array is to be mounted on ground screws and racking in the adjacent field of the Safety Complex, divided into three arrays covering a total of 4,890 square feet. The panels will be shielded by a line of trees along Knox Marsh Rd. If there is an area of visibility, the rear of the racking and solar panels will be seen as the front will be facing opposite the road. Disturbance to the wetland hydric soil and field UNH uses for haying will be kept to a minimum. The panels themselves will be outside the wetland boundary but part of the electrical trenching will pass through but will be buried and reseeded so natural vegetation can take root again.

Attachments:

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| 1) Design Packet | 7) Glare Specification |
| 2) USDA Soil Map | 8) Construction Schedule |
| 3) Mounting Detail | 9) Maintenance & Decommissioning |
| 4) Trenching Detail | 10) Required Permits |
| 5) Photos | 11) About ReVision Energy |
| 6) Ground Cover/Proposed landscaping | |

Submitted by:
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