



## NON-PROFIT CASE STUDY – “GREEN CHIMNEYS”

### About the Company

- Founded in 1947, Green Chimneys is a nationally renowned, non-profit organization with a mission of restoring possibilities and creating futures for children with emotional, behavioral, social and learning challenges through educational, therapeutic and outreach services, while providing care for animals and nature, thereby promoting a philosophy of dignity and worth for all living things.
- The 24.84kw system is located on the southeast roof of the maintenance building and will cover much of the buildings’ historical electrical usage.

### The Numbers and the Benefits

- Production: 27,199kwh/year, covering 90% of historical electrical usage
- 83% of the costs were covered by NYSERDA and secured by Hudson Valley Clean Energy
- 8.6% ROI the first year
- 25-year average ROI is 16.4%
- Hedge against inflation by locking in electric rates

### Resource Avoidance



**Coal**

1 year: 11.1 tons  
25 years: 276.7 tons



**Oil**

1 year: 2,067 gallons  
25 years: 51,627 gallons



**CO<sup>2</sup>**

1 year: 23.3 tons  
25 years: 583.0 tons