


Demand Response

North Boone CUSD 200

Business Committee

December 2019

A watercolor illustration of a wind farm. In the foreground, a large wind turbine is depicted with blue and purple hues. The background shows a series of smaller turbines receding into the distance under a vibrant sunset sky with orange, yellow, and pink tones. The overall style is artistic and painterly.

“ It’s a no-cost, best efforts reduction program that asks participating sites, such as schools, to reduce power during unusually high peak times on the grid.



Program Partners

PJM (grid operator)

Program run by NRG Curtailment Solutions, Inc.



Process

1. Track: install meter to monitor and record energy data.
2. Plan: Create a reduction plan with NRGCS and North Boone
3. Alert: NRGCS will alert North Boone of a grid crisis or a planned 'test'
4. Implement: If possible North Boone would implement reduction plan
5. Measure: The reduction plan performance would be measured against previous baseline.
6. Reward: At the end of the Demand Response season District receives payment.

Reduction



- Create a plan with NRGCS on when and what to reduce
- We would typically be asked to reduce one time a year for about an hour (typically in the summer)
- Can reduce full, partial or nothing depending on situation
- Generators can be used as a back up but not all are compliant.



Highlights

- *No penalties associated with the program
- *No cost to enroll (NRGCS covers cost of all equipment)
- *Reduce power that the District is comfortable and capable
- *District will have access to dashboard to monitor kw demand
- *Have a Reduction Action Plan

Potential Revenue

Reduction Amount	2020 Capacity Performance	2021 Capacity Performance	Two Year Payment Totals
100 kilowatts (kW)	\$4,806.47	\$4,996.30	\$9,804.77
200 kilowatts (kW)	\$9,612.93	\$9,002.61	\$19,605.54
300 kilowatts (kW)	\$14,419.40	\$14,988.91	\$29,408.31

A watercolor illustration on the left side of the slide. It features several blue solar panels tilted upwards, set against a background of soft, painterly clouds in shades of blue, white, and grey. The bottom of the illustration shows a patch of green grass. The overall style is artistic and clean.

Terms

*5 year contract

*We get about 70% of the revenue and the company keeps about 30%

*Even if we cannot reduce power we are still enrolled in the program



Questions?

Next step: Present at December
Board Meeting