

Applicants' Witness Stan Selander

Resource Development Administrator
Great River Energy

Summary

Applicants' Exhibit 43

Rebuttal Testimony

- Submitted to respond to joint intervenors contention that GRE does not need baseload

Baseload and DSM

- Resource planning analysis shows that GRE has a need for baseload capacity in 2011
- Historical DSM
 - ▣ GRE's members have reduced peak demand by 369 MW and 169 GWh/year of energy consumption as of 2005
- New DSM
 - ▣ Current plans call for an additional reduction of 35 MW in peak demand and 59 GWh of energy consumption by 2007

Renewables

- GRE renewable generation totaled 248 GWh in 2005
 - Or more than 200% of our Minnesota Renewable Energy Objective (REO)
- GRE plans to achieve a total of 1,600 GWh/year of renewables in its portfolio by 2015
 - Including 500 MW of wind installed capacity

Resource Planning

- GRE's resource planning techniques include system-level capacity expansion modeling
- The resource planning analysis chose a least-cost combination in 2011 of:
 - 101 MW of baseload
 - 217 MW of wind
 - 289 MW of natural gas combined and simple cycle

Summary

- Resource modeling also showed that GRE needs a total of 191 MW of baseload generation by 2012
 - Including GRE's 116 MW proposed share of Big Stone Unit II in 2011.
- GRE is pursuing DSM and renewables and Big Stone Unit II