

Young 2 Outage Summary

- z Longest outage in Young 2 history
- z \$90+ million
- Improvements to provide up to 20 MW of additional production without any increase in emissions

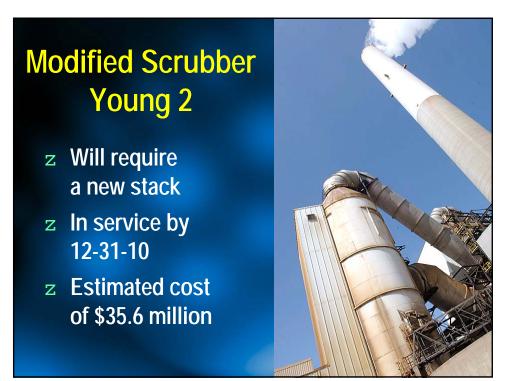


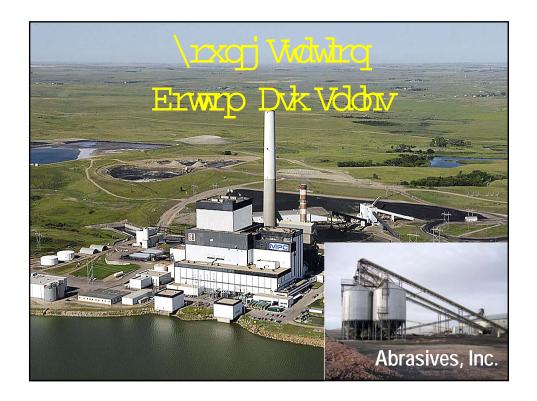


New Scrubber Young 1

- z Wet scrubber with 95% removal of SO₂
- z In service by 12-31-11
 - Anticipated start-up early summer 2011

z Estimated cost of \$88 million







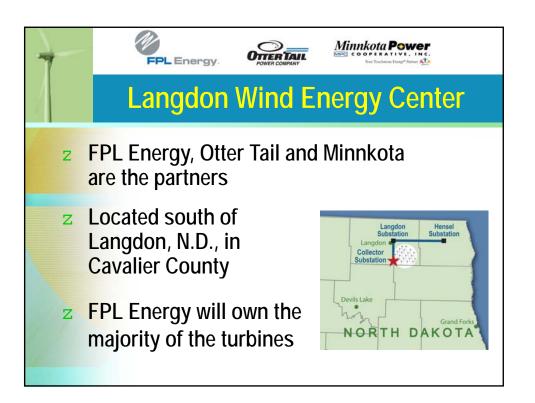


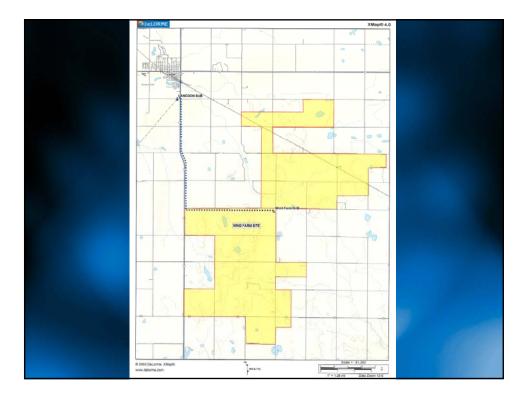




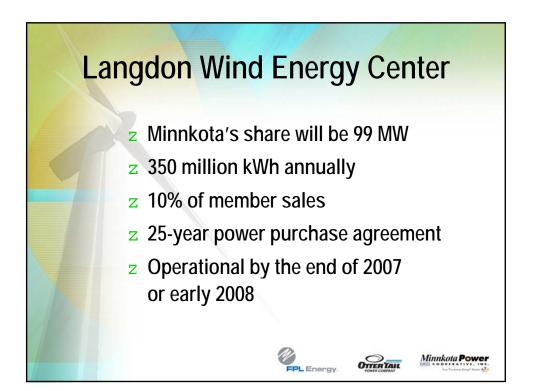


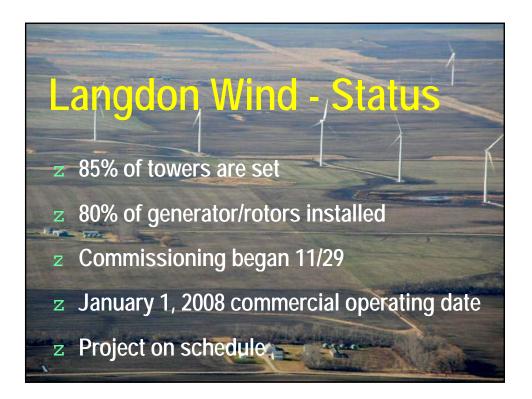




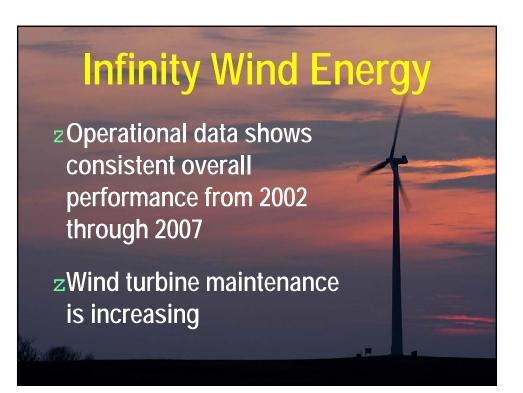












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 Z Beginning Dec. 1, 2006, the Minnkota Board of Directors authorized payment of 4¢/kWh for qualifying renewable energy

z Focus on customer-owned generation

z Proposals are continually received

Polk County Solid Waste Recovery Plant

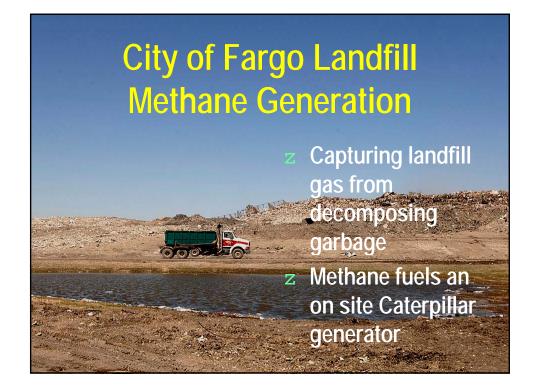
- ∠Became operational in April of 2007
- Solid waste is burned from homes and businesses in surrounding counties
- Z Recyclable materials sorted out
- z Steam drives a turbine generator



Grand Forks Truss Plant



- Partnered with Energy & Environmental Research Center at UND
- z Pilot biomass gasification project
- z Plant sawdust and wood waste burned to produce a combustible gas



Future Needs

- Minnkota needs additional baseload generation to serve the associated systems
- Z Studying several options including coal, hydro and more wind
- New transmission
 capacity will be required
 to serve firm loads

