Renewable Projects Update

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Sustainable Energy & Environmental Stewardship

November 9, 2010

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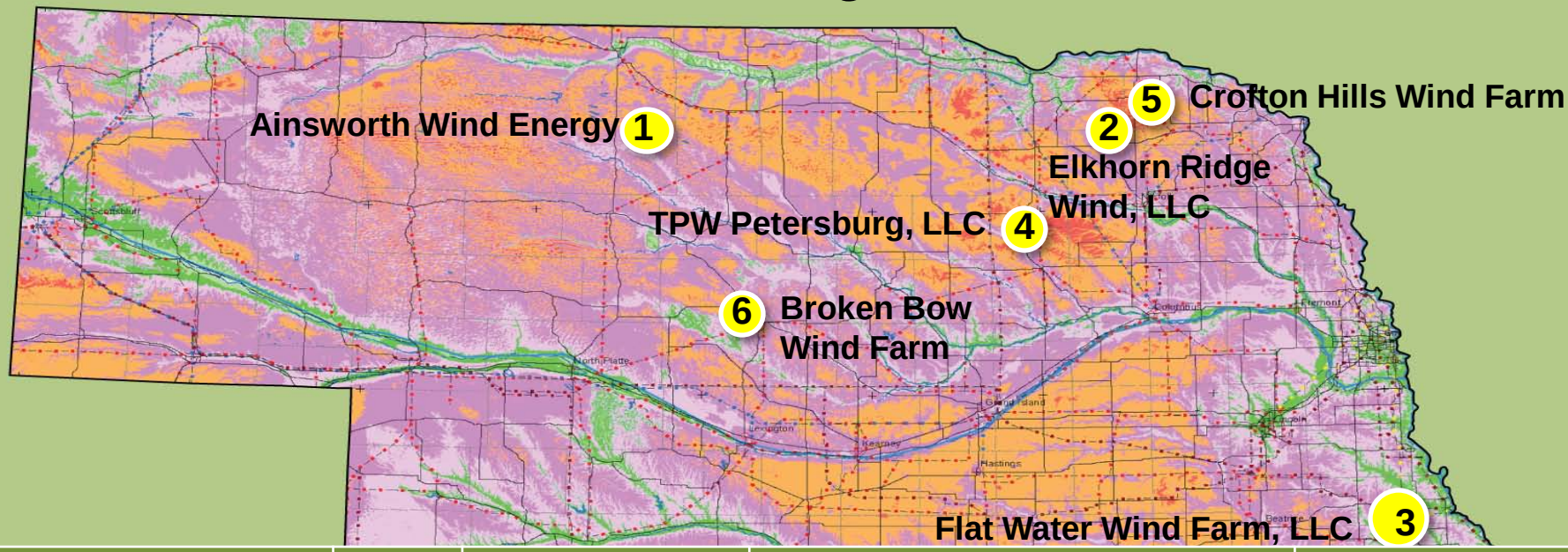
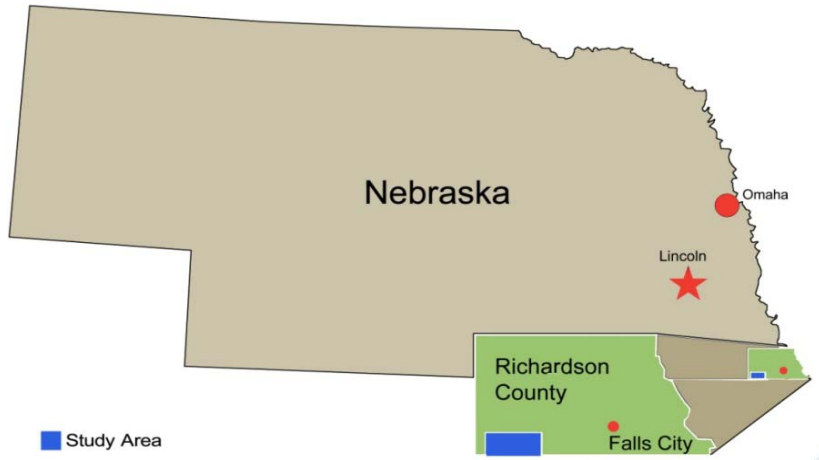
OPPD 2011-2020 Budget Wind Plan



Project	Year	MW OPPD/Total	Participants	Status
1 – Ainsworth Wind Energy	2005	10 / 60	NPPD, OPPD, JEA, MEAN, GI	In-Service
2 – Elkhorn Ridge Wind, LLC	2009	25 / 80	NPPD, OPPD, MEAN, LES, GI	In-Service
3 – Flat Water Wind	2010	60 / 60	OPPD	In Construction
4 - Petersburg	2011	40 / 40	OPPD	In Construction
5 – Crofton Hills	2012	13 / 42	NPPD, OPPD	In Planning
6 – Broken Bow	2012	18 / 80	NPPD, OPPD	In Planning
Proposed	2016 – 2020	240	Future	Under Review

Flat Water Wind Farm

- 60 MW Flat Water Wind Farm
  - Richardson County, NE
  - 40 GE 1.5 MW Turbines
  - 42% Capacity Factor



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Flat Water Wind Farm

Picture above by Gestamp Wind North America

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Flat Water Wind Farm

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Flat Water Wind Farm

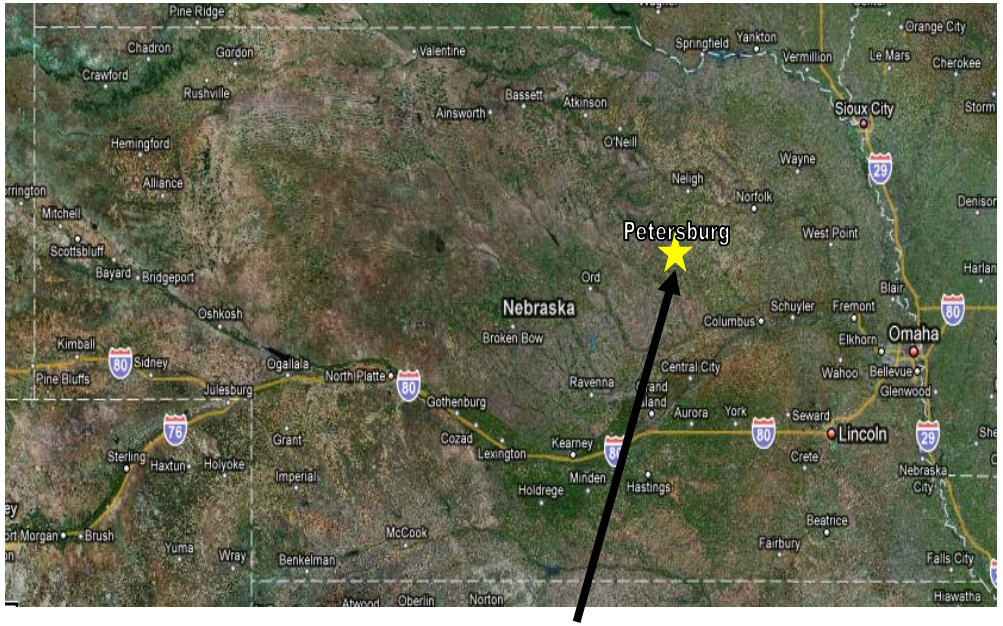
- Aerial Views of Flat Water Wind Farm Construction
- All 40 turbines are now constructed
-

Picture by Gestamp Wind North America

Picture by Gestamp Wind North America

Petersburg Wind Farm

- 40.5 MW
- Third Planet Windpower
- Boone County, NE
- 27 GE 1.5 MW Turbines
- 42% Capacity Factor



- Construction of Sub to begin before end of 2010
- Commercial Operation is anticipated 3rd Quarter 2011

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OPPD's Elk City Station

- 6.1 MW Methane Plant
- Douglas County Landfill
- 20 year life

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OPPD's Solar Projects

- Elkhorn Service Center
  - 4.8 kW Photo Voltaic System
  - Began operation June 13, 2002
  - Average Capacity factor is 14.2%

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OPPD's Solar Projects

- Omaha Service Center
  - Approx. 60 kW
  - Photo Voltaic
  - Solar Thermal
  - Tracker
  - Wind Turbine

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OPPD's Solar Projects

- Creighton University
  - Approx. 100 kW
  - Thin film Laminate
  - Tracker
  - 4 Wind Turbines
  - PV Covered Parking

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OPPD's Solar Projects

- Creighton University

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Questions?