OPPD Sustainability Update

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Why Wind?

- NE utilities have enough capacity to meet State's energy needs until 2024
- Regulatory pressure on coal means more generation from wind and natural gas
- With Production Tax Credits, the price of wind has decreased

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OPPD's Commitment

GOAL: 10% renewable energy by 2020

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OPPD's Generating Capability

Coal	58.3 %
Nuclear	14.9 %
Oil / Natural Gas	26.6 %
Other (Elk City)	.2 %
Total Owned Generation	**100.0 %**

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OPPD's Renewable Capability (MW)

OPPD Owned Generation

- Elk City Station (landfill-gas) 6.2
- Valley Station (wind) 0.7

OPPD's Renewable Capability (MW)

OPPD Purchased Wind Generation

• Ainsworth	10.0
• Elkhorn Ridge	25.0
• Flat Water	60.0
• Petersburg	40.5
• Broken Bow 1	18.0
• Crofton Bluffs	13.6

OPPD's Renewable Capability (MW)

2014-2015 Purchased Wind Generation

- Broken Bow 2 45.0
- Prairie Breeze 200.6
- **Grand Prairie 400.0**

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OPPD's Total Renewable Generation

Renewable Generation by December 31, 2013	174.0 MW
2014-2015 Purchased Wind Generation	645.6 MW
By 2016, Total Expected Renewable Generation	**819.6 MW**

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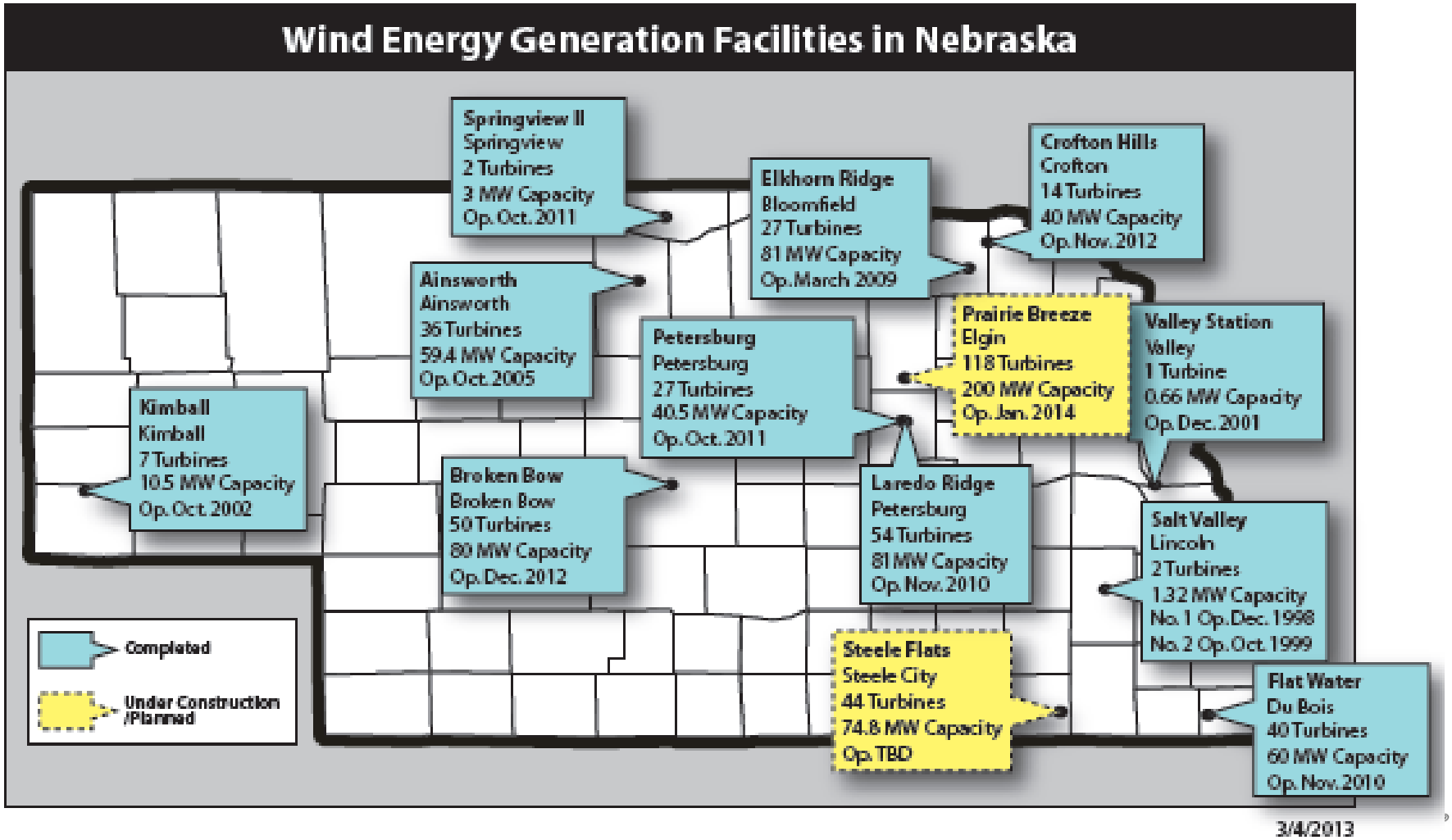
65% of State's Wind Committed by OPPD



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OPPD's Commitment … Surpassed

GOAL: 10% renewable energy by 2020

ACTUAL: 30% renewable energy by 2016

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Production Tax Credits (PTCs)

- Wind is a fixed-cost hedge against natural gas volatility
- PTCs instrumental in making wind competitive
- PTCs to expire 2013 OR after a possible extension by Congress
- Even without subsidy, wind can compete
- Pressure on coal will keep wind strong

Solar Outlook

- Utility-scale solar prices at 12-15 cents/kWh
- In Nebraska, price is on the high end
- Wind in the range of 2.5 cents/ kWh
- Solar has dropped more than 40% in 2 years
- Will monitor wind/solar costs, however solar not competitive in Nebraska in the near future
- OPPD looking at solar rate

Questions?

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