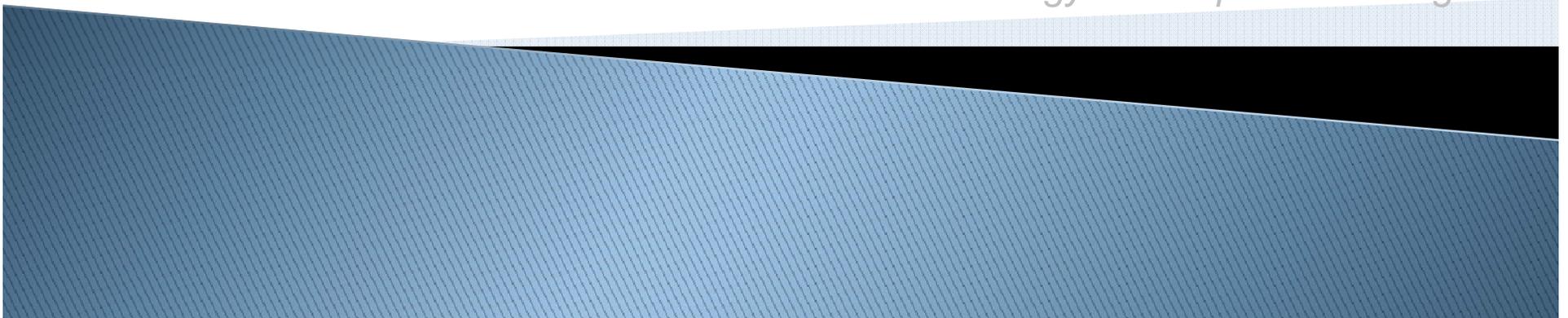


# **NPPD's Economic Development Experience with Wind Development**

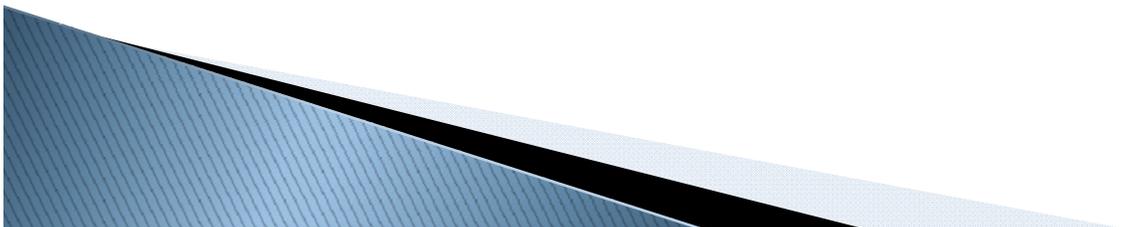
Public Renewables Partnership Webinar  
February 17, 2010

*Dave Rich  
Renewable Energy Development Manager*

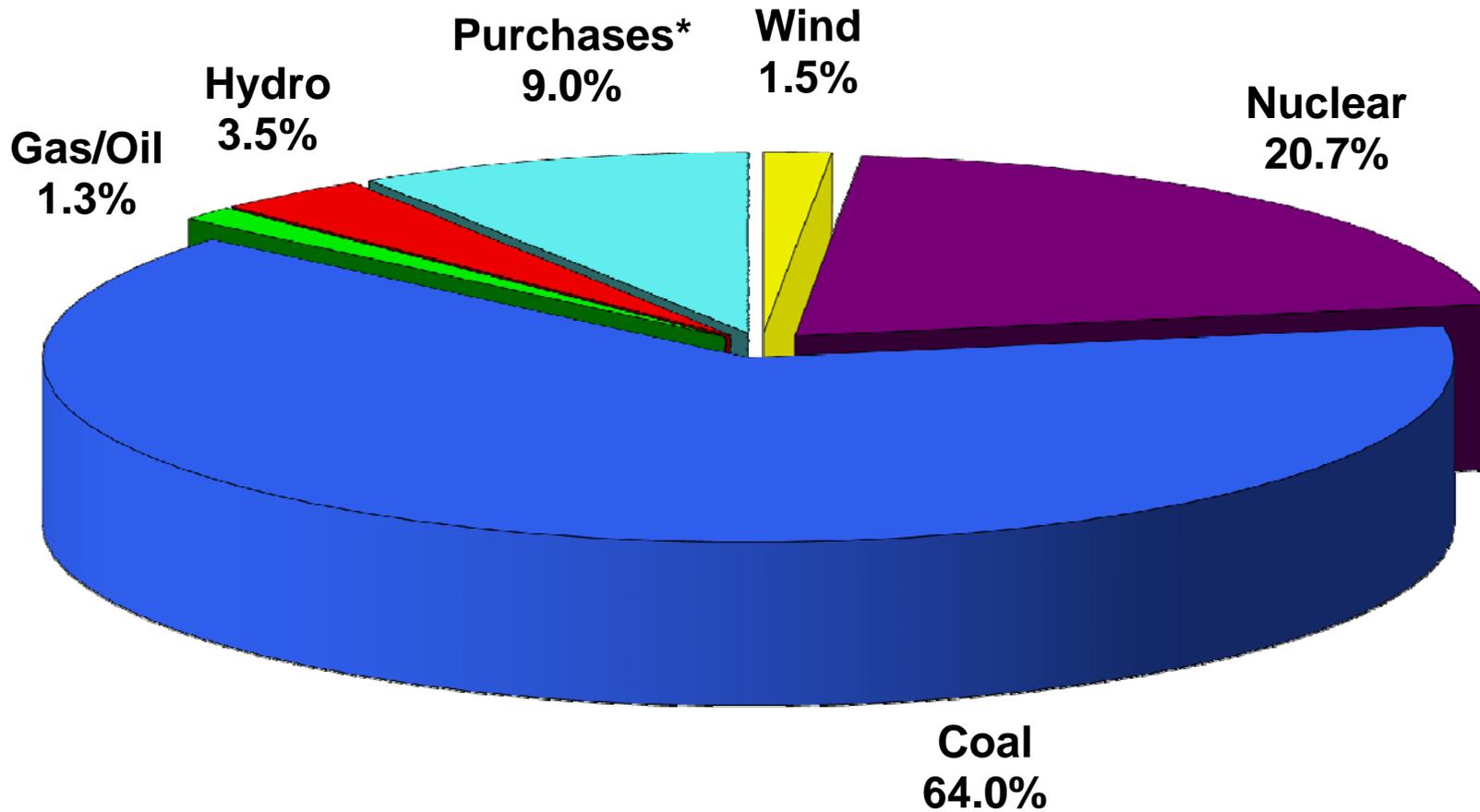


# Nebraska's Public Power Structure Today

- 122 Municipal Systems
- 31 Public Power Districts
- 14 Cooperatives (3 G&T's)
- 1 Public Power & Irrigation District
- 1 Federal Agency



# Nebraska Public Power District Sources of Energy to meet Service Obligation *2009 Preliminary*

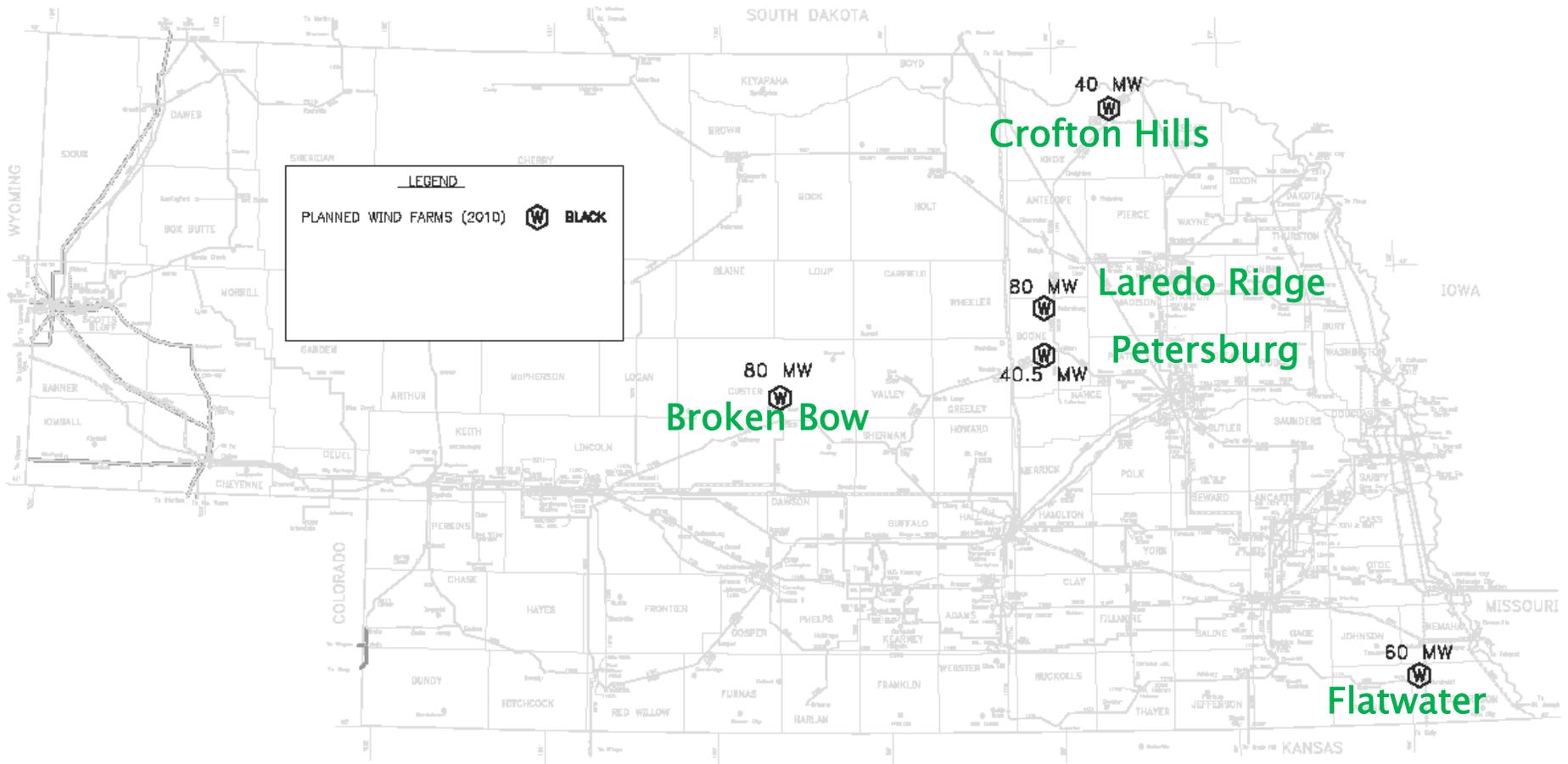


\* Purchases = 6.1% WAPA @ 770 Gwh  
2.9% Others @ 365 Gwh



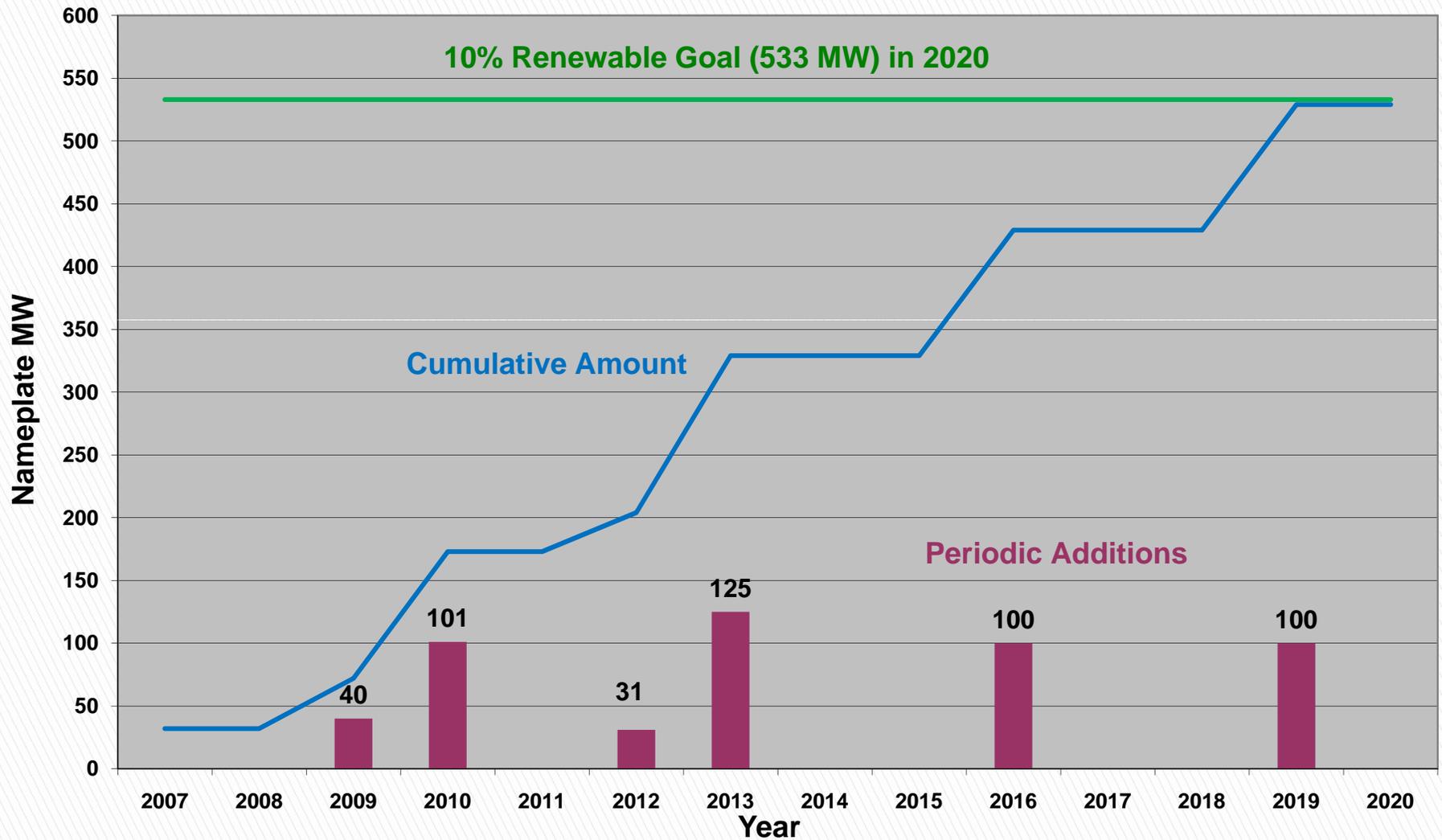
# Planned Wind Generation Additions 2010 to 2012 – 300.5 MW

NPPD PLANNED WIND GENERATION ADDITIONS 2010/EARLY 2011 – 262 MW



NPPD  
NPPD

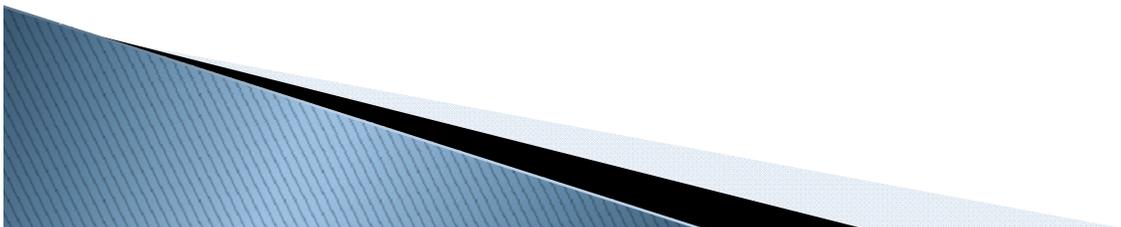
## NEBRASKA PUBLIC POWER DISTRICT Wind Generation Addition Plan to Meet 10% Renewable Goal by 2020



Includes actual and planned additions through 2012 and larger additions every third year

# Local Long Term Benefits

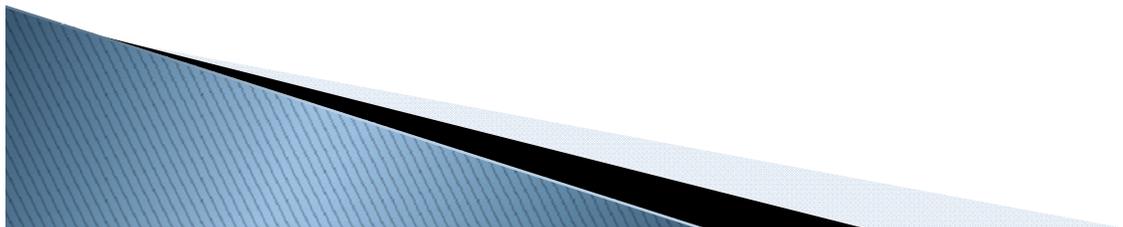
- ▶ One employee per 6 turbines
- ▶ Payments to landowners of \$3,000-\$10,000 per turbine/per year
- ▶ Increased taxes received by local county/schools
- ▶ Supplies and materials purchased locally during operation of turbine



# Wind Technician Wages

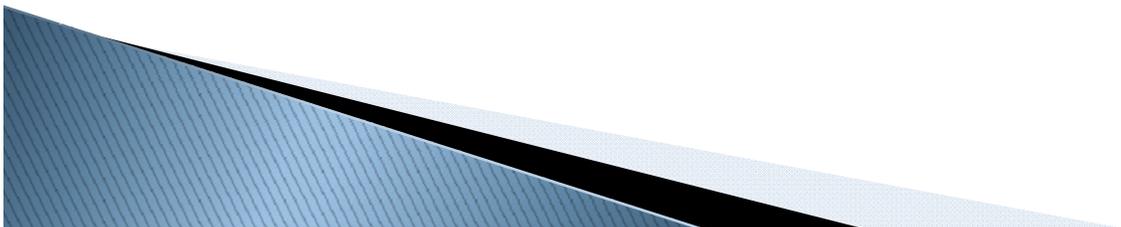
Occupation	Salary Range
Turbine & Electrical Technician (Intermediate Level)	\$52,200 - \$62,800
Turbine & Electrical Technician (Sr. Level)	\$67,800 - \$74,600
Technician (Intermediate Level)	\$34,400 - \$43,500
Technician (Senior Level)	\$48,600 - \$56,500
Technician (Lead)	\$49,100 - \$59,700

Source: Hewitt Wind Energy Compensation Survey



# Wind Component Plants and Employment

Component	Typical Plant Employment
Nacelle	400 – 700
Blade	300 – 650
Tower	120 – 200



# Estimated Annual Nebraska Impacts 7,800 MW of Wind Power

Impacts	Jobs	Earnings (Million 2008\$)
<b>Onsite Labor Impacts</b>	364	\$20.4
<b>Local Revenue and Supply Chain Impacts</b>	645	\$23.5
<b>Induced Impacts</b>	464	\$14.7
<b>Total Impacts</b>	1,473	\$58.6

Source: Values calculated using National Renewable Energy Laboratory's Jobs and Economic Development Impact Model-Wind release number: W1.09.03e and default values for Nebraska.

# Questions?

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**Nebraska Public Power District**  
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