

Net Metering Status Update 2010



**NEBRASKA WIND WORKING GROUP
NOVEMBER 9, 2010**

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NEBRASKA RURAL ELECTRIC ASSOCIATION**

March 2010

Report from Nebraska Power Review Board



- **Total number of installations—45**
- **Total Capacity of installations 214.88 kilowatts**
- **Net kilowatt hours received from customer generator—24,117 kwh**
- **Estimated energy produced from all customer Generators—137,461 kwh**

March 2010

Report from Nebraska Power Review Board



- **Burt County PPD—3 installed-9.2 kw**
- **Cedar Knox PPD—1 installed-20 kw**
- **High West Energy Inc.—1 installed-2 kw**
- **Lincoln Electric System—8 installed-48 kw**
- **Loup River PPD—1 installed-1.5 kw**
- **Nebraska PPD—4 installed-7.2 kw**
- **Norris PPD—9 installed-46.48 kw**
- **Northeast NE PPD—1 installed-2 kw**
- **Northwest Rural PPD—2 installed-2.8 kw**

March 2010

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- **Omaha PPD—5 installed-26 kw**
- **PREMA—1 installed-12 kw (5—2.4 kw turbines aggregated)**
- **Roosevelt PPD—4 installed- 9.6kw**
- **South Sioux City—1 installed-2.9 kw**
- **Southern PPD—1 installed-10 kw (aggregated installation at HHD)**
- **Southwest PPD—1 installed 2.8 kw**
- **Stanton County PPD—1 installed-10 kw**
- **Wheatbelt PPD—1 installed 2.4 kw**

What the report doesn't tell us



- Total number of kilowatt hours self-generated
- The size of the individual systems installed...unless there was only one for a particular utility
- Number of systems installed prior to the passage of LB 436

Rural Electric Supplier Examples



- 27 of 45 systems installed on rural electric lines
- 1—20 kw system installed—not yet functional
- 2—10 kw systems installed (Both Bergey)
- 1-8 kw (solar)
- 2-5 kw systems installed
- 1—4kw installed (American Zepher)
- 1—2.8-3.7 kw systems installed
- 15—2.4/2.5 kw systems installed (Skystream)
- 3—1.8-2kw systems installed
- 3—1.4 kw or smaller systems installed

TRENDS



- No system has reached a 1% capacity or even come close. There is room for a significant number of installations before reaching the proposed cap
- Mostly wind installed—solar comes in a distant 2nd
- Customers usually install a smaller system than they originally proposed
- 2.4 kw systems seem to be the most popular
- Customers generally using all the energy they generate. Some payback, but not excessive
- Customers generators become more energy conscious

Roadblocks to installation



- **Cost of renewable energy systems**
- **Payback timeframe**
- **Low cost of energy in Nebraska**
- **Inappropriate site**

Panhandle Rural Electric Membership Association



Southern Public Power District



Southern Public Power District

Husker Harvest Days



Southern Public Power District

Husker Harvest Days



Southwest PPD



Southwest installing tower and turbine at Hayes Center School



Southern Public Power District



Lincoln Electric System



Lincoln Electric System



Lincoln Electric System



Wheatbelt Public Power District



**2.4 kw Skystream Wind
Turbines**



Hilltop Installation—Wheatbelt PPD



Northeast Nebraska PPD



Norris Public Power District



North Central PPD



Norris Public Power District



**10 kw Bergey wind system
\$60,000 installation
Prairie Hill Learning Center**



Norris Public Power District



**2.4 kw and 8 kw
solar installation
Prairie Hill Learning
Center—aggregated
with 10 kw wind**



Learning Process



- **Learning process for both consumers and utilities**
 - Siting-determines level of success
 - Cost/payback
 - Maintenance needs

Problems/Issues



- **Interconnect without notice/inspection**
- **Visual disconnect—IEEE Standard**
- **Insurance requirements**
- **Meeting specific standards**
- **UL, CFA or nationally recognized standards equal to or greater than UL listing—Check with the state inspector**

Problems/Issues



- **County/City zoning**
- **Company going out of business**
- **Promised performance of system does not meet expectations**
- **Revenue Department ruling on sales tax collection**

Questions?



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