

**Public Document** 

July 1, 2010

Ms. Patricia Van Gerpen, Executive Secretary South Dakota Public Utilities Commission Capitol Building, 1<sup>st</sup> floor 500 East Capitol Avenue Pierre, SD 57501-5070

RE: HCPD Renewable Energy Objective Progress Report

Dear Ms. Van Gerpen:

Heartland Consumers Power District (HCPD) submits this Renewable Energy Objective (REO) Progress Report on behalf of its South Dakota Customers, nineteen municipal utilities, one cooperative utility, and one State agency, pursuant to SDCL 49-34A-101 and SDCL 49-34A-105. This report is filed on behalf of the following HCPD Customers in South Dakota: Arlington, Aurora, Bryant, Colman, Estelline, Groton, Hecla, Howard, Langford, Madison, McLaughlin, Miller, Northern Electric, Parker, Plankinton, Sioux Falls, State of South Dakota, Tyndall, Volga, Wessington Springs, and White. This report outlines a twelve month period from January 1, 2009 through December 31, 2009.

If you have any questions regarding this report, please contact me at 605-256-6536 or njones@hcpd.com.

Respectfully submitted,

Nate Jønes

Market Operations Manager

Heartland Consumers Power District

Copy via e-mail:

Amiel Redfish, Arlington Municipal Utilities Andy Studer, Aurora Municipal Utilities Garry Ladwig, Bryant Municipal Utilities Brent Nelson, Colman Municipal Utilities



432 SE 12th Street PO Box 248 Madison, SD 57042 (800) 520-4746

Dan DeWitt, Estelline Municipal Utilities Terry Herron, Groton Municipal Utilities Dennis Shelton, Hecla Municipal Utilities Alan Adler, Howard Municipal Utilities Blair Healy, Langford Municipal Utilities Dennis Poppen, Madison Municipal Utilities Lornie Hach, McLaughlin Municipal Utilities Bill Lewellen, Miller Municipal Utilities Jim Moore, Northern Electric Cooperative Rob Buller, Parker Municipal Utilities Vern Hill, Plankinton Municipal Utilities Mike Burkard, Sioux Falls Municipal Utilities Michele Farris, State of South Dakota Larry Chester, Tyndall Municipal Utilities Steve Meyer, Volga Municipal Utilities Roger Larson, Wessington Springs Municipal Utilities Dan DeYoung, White Municipal Utilities Tom Marvin, SD Municipal Electric Association

## Heartland Consumers Power District South Dakota Renewable Energy Progress Report

July 1, 2010

Pursuant to South Dakota Codified Law, Chapter 49-34A-101 outlines a state renewable and recycled energy objective (REO) that ten percent of all electricity sold at retail within the stat by the year 2015 be obtained from renewable energy and recycled energy sources. The objective shall be measured by qualifying megawatt hours delivered at retail or by certificates representing credits purchased and retired to offset non-qualifying retail sales. This objective is voluntary, and there is no penalty or sanction for a retail provider of electricity that fails to meet this objective. The objective applies to each retail provider of electricity in the state, regardless of the ownership status of the electricity retailer. Any municipal or cooperative utility that receives wholesale electricity through a municipal power agency or generation and transmission cooperative may aggregate its renewable and recycled energy objective resources to meet this objective.

South Dakota Codified Law, the amended Chapter 49-34A-105 establishes a requirement that annual reports concerning the REO commence on July 1, 2009 and that each retail provider shall annually report to the Public Utilities Commission on the provider's energy sales during the twelve month period ending on the preceding December thirty-first. This report shall include information regarding qualifying electricity delivered and renewable energy and recycled energy certificates purchased and retired as a percentage of annual retail sales, the amount of conserved energy as a percentage of annual retail sales, and a brief narrative report that describes steps taken to meet the state renewable and recycled energy objective over time and identifies any challenges or barriers encountered in meeting the objective.

Given the power supply relationship between HCPD and its Customers, HCPD has assumed the responsibility for the REO and the associated reporting requirements on behalf of its South Dakota Customer communities. The following South Dakota entities, nineteen municipal utilities, one cooperative utility, and one State agency, are Customers of HCPD:

- Arlington
- Aurora
- Bryant
- Colman
- Estelline
- Groton
- Hecla
- Howard
- Langford
- Madison
- McLaughlin
- Miller
- Northern Electric

- Parker
- Plankinton
- Sioux Falls
- State of South Dakota
- Tyndall
- Volga
- Wessington Springs
- White

HCPD acquires its renewable energy through a power purchase agreement (PPA) with Wessington Springs Wind Energy Center, LLC, a subsidiary of NextEra Energy Resources. The PPA entitles HCPD to purchase the entire 51 MW of nameplate wind capacity and own all of the environmental attributes associated with such generation from the Wessington Springs Wind Energy Center. (10 MW's of the project are committed to another wholesale power supplier, and beginning in 2010, 5 MW's of the project are committed solely to one of HCPD's Minnesota Customers.) As was outlined in past reports, HCPD plans to meet both the Minnesota Renewable Energy Standard (RES) and the South Dakota Renewable Energy Objective (REO) through its participation in the Wessington Springs Wind Energy Center project. A copy of the most recent REO progress reports has been included for your reference.

The attached spreadsheet report outlines HCPD's 2009 retail sales, generation capacity owned, renewable generation capacity owned, renewable energy credits (RECs) retired, and conserved energy and capacity. For the period from January 1, 2009 – December 31, 2009, HCPD's South Dakota retail load served was 191,034 MWh. HCPD's SD Customers conserved 65.416 MWh of energy equaling 0.03% of HCPD's SD 2009 retail sales. To comply with the MN RES for 2009, HCPD retired 4,967 of its remaining 5,549 vintage 2008 RECs corresponding to 1% of HCPD's 2009 MN retail load served (496,686 MWh). Per an agreement between the State of South Dakota and HCPD to provide the South Dakota State Universities with 100% renewable energy, HCPD retired 1,804 vintage 2009 RECs corresponding to the energy supplied by HCPD to South Dakota State University (1,803,236 kWh); HCPD didn't supply any energy to Northern State University or the University of South Dakota in 2009. To date, HCPD has not retired any RECs corresponding to any other 2009 SD retail load served by HCPD.

HCPD doesn't anticipate encountering any obstacles to meet South Dakota's REO with the execution of the Wessington Springs Wind Energy Center PPA.

In conclusion, HCPD currently has an adequate amount of renewable resource available and a plan to utilize the resource to meet the South Dakota REO of 10% by 2015 as part of its overall renewable energy goals for Customers in Minnesota, Iowa, and South Dakota.

Respectfully submitted this 1<sup>st</sup> day of July, 2010.

HEARTLAND CONSUMERS POWER DISTRICT

Nate Jones

Market Operations Manager

Heartland Consumers Power District

432 SW 12<sup>th</sup> St Madison, SD 57042

(605) 256-6536

njones@hcpd.com

Please provide a value in each of the boxes below with an "X" in it.

**Company:**Heartland Consumers Power District on behalf of its South Dakota Customers.

Calendar Year 2009 REO Report	Value	Comments
Retail Sales		
Total - All States (MWh)	692,307	
		Arlington, Aurora, Bryant, Colman, Estelline, Groton,
	į	Hecla, Howard, Langford, Madison, McLaughlin,
		Miller, Northern Electric, Parker, Plankinton, Sioux
		Falls, State of South Dakota, Tyndall, Volga,
SD (MWh)	191,034	Wessington Springs, White.
,		
Generation Capacity Owned		
		Laramie River Station and Wessington Springs
Total - All States (MW)	55	Diesel Generating Units 1 and 2.
SD (MW)	4	Wessington Springs Diesel Generating Units 1 and 2
Renewable Generation Capacity Owned		
Total - All States (MW)		
		HCPD has contracted via a PPA with NextEra Energy
		Resources for the entire output from the Wessington
Mr. J		Springs Wind Energy Center project: 51 MW project with 34 turbines.
Wind	-	with 34 turbines.
Solar	_	
New Hydro	_	
Old Hydro	_	
Hydrogen	_	
Biomass Geothermal	_	
Recycled	1 [	
Total - All States (MW)	_	
• •		
SD (MW)		
	ŀ	HCPD has contracted via a PPA with NextEra Energ
		Resources for the entire output from the Wessington
140		Springs Wind Energy Center project: 51 MW project with 34 turbines.
Wind	-	with 34 turbines.
Solar	_	
New Hydro Old Hydro	_	
Hydrogen	_	
Biomass	_	
Geothermal	_	
Recycled	_	
Total SD (MW)	-	
<b>.</b>		
Renewable Energy Credits Retired for SD		
Total - Generated In All States (MWh)		
Wind	-	
Solar	-	
New Hydro	-	
Old Hydro	_	
Hydrogen	_	
Biomass Geothermal	_	
	_	
Recycled	-	I

Total - All States (MWh)	-	
Generated in SD (MWh)		
Wind	_	
Solar	_	
New Hydro	_	
Old Hydro	l <u>-</u>	
Hydrogen	_	
Biomass	_	
Geothermal	_	
Recycled	_	
Total SD (MWh)		
Total 02 (millin)		i .
Renewable Energy Credits Retired for Other States		
Total - Generated In All States (MWh)		
		REC's generated in South Dakota from the
		Wessington Springs Wind Energy Center project and retired for HCPD's Minnesota Customers as required
Wind	4,967	for the Minnesota RES (1% of 2009 load).
Solar	-	
New Hydro	-	
Old Hydro	_	
Hydrogen	-	
Biomass	-	
Geothermal	-	
Recycled	-	
Total - All States (MWh)	4,967	
Generated In SD (MWh)		
Constated in CB (MVVII)		REC's generated in South Dakota from the
		Wessington Springs Wind Energy Center project and
		retired for HCPD's Minnesota Customers as required
Wind	4,967	for the Minnesota RES (1% of 2009 load).
Solar	-,,,,,,,	101 till 1111111000ta 1120 (170 01 2000 10aa).
New Hydro	_	
Old Hydro	_	
Hydrogen	_	
Biomass	_	
Geothermal	_	
Recycled	_	
Total SD (MWh)	4,967	
Conserved Energy & Capacity		
Conserved Energy & Capacity  Conserved Energy (MWh)		
Conserved Energy (MANAIL)		Conservation for Madelia, Truman, Lake Crystal,
Total - All States	82	Marshall, Grove City not included.  Doesn't include those listed above as well as Akron.
SD	65	IA and Tyler, MN.
Conserved Capacity (MW)		
· '` '`		Conservation for Madelia, Truman, Lake Crystal,
Total - All States	78	Marshall, Grove City not included.  Doesn't include those listed above as well as Akron,
SD	62	IA and Tyler, MN.



P.O. BOX 248

203 WEST CENTER STREET

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PHONE: 605-256-6536 FAX: 605-256-2990 www.hcpd.com

June 22, 2009

Ms. Patricia Van Gerpen, Executive Secretary South Dakota Public Utilities Commission Capitol Building, 1<sup>st</sup> floor 500 East Capitol Avenue Pierre, SD 57501-5070

**RE: HCPD Renewable Energy Objective Progress Report** 

Dear Ms. Van Gerpen:

Heartland Consumers Power District (HCPD) submits this Renewable Energy Objective (REO) Progress Report on behalf of its South Dakota Customers, nineteen municipal utilities, one cooperative utility, and one State agency, pursuant to SDCL 49-34A-101 and SDCL 49-34A-105. This report is filed on behalf of the following HCPD Customers in South Dakota: Arlington, Aurora, Bryant, Colman, Estelline, Groton, Hecla, Howard, Langford, Madison, McLaughlin, Miller, Northern Electric, Parker, Plankinton, Sioux Falls, State of South Dakota, Tyndall, Volga, Wessington Springs, and White. This report outlines a twelve month period from January 1, 2008 through December 31, 2008.

If you have any questions regarding this report, please contact me at 605-256-6536 or njones@hcpd.com.

Respectfully submitted,

Nate Jones

**Market Operations Manager** 

**Heartland Consumers Power District** 

Copy via e-mail:

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Larry Chester, Tyndall Municipal Utilities
Steve Meyer, Volga Municipal Utilities
Roger Larson, Wessington Springs Municipal Utilities
Dan DeYoung, White Municipal Utilities
Tom Marvin, SD Municipal Electric Association



# Heartland Consumers Power District South Dakota Renewable Energy Progress Report

### June 22, 2009

Pursuant to South Dakota Codified Law, Chapter 49-34A-101 outlines a state renewable and recycled energy objective (REO) that ten percent of all electricity sold at retail within the stat by the year 2015 be obtained from renewable energy and recycled energy sources. The objective shall be measured by qualifying megawatt hours delivered at retail or by certificates representing credits purchased and retired to offset non-qualifying retail sales. This objective is voluntary, and there is no penalty or sanction for a retail provider of electricity that fails to meet this objective. The objective applies to each retail provider of electricity in the state, regardless of the ownership status of the electricity retailer. Any municipal or cooperative utility that receives wholesale electricity through a municipal power agency or generation and transmission cooperative may aggregate its renewable and recycled energy objective resources to meet this objective.

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- Madison
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- Plankinton
- Sioux Falls
- State of South Dakota
- Tvndall
- Volga
- Wessington Springs
- White

HCPD acquires its renewable energy through a power purchase agreement (PPA) with Babcock & Brown, LLC. The PPA entitles HCPD to purchase the entire 51 MW of nameplate wind capacity and own all of the environmental attributes associated with such generation from the Wessington Wind I Project. (10 MW of the project are committed to another wholesale power supplier.) As was outlined in a preceding report for the period of October 1, 2007 through September 30, 2008 dated January 21, 2009 and titled HCPD Renewable Energy Objective Progress Report, HCPD plans to meet both the Minnesota Renewable Energy Standard (RES) and the South Dakota Renewable Energy Objective (REO) through its participation in the Wessington Wind I project. The January 21, 2009 report has been attached for reference.

The attached spreadsheet report outlines HCPD's 2008 retail sales, generation capacity owned, renewable generation capacity owned, renewable energy credits (RECs) retired, and conserved energy and capacity. For the period from January 1, 2008 – December 31, 2008, HCPD's South Dakota retail load served was 203,560 MWh. HCPD's SD Customers conserved 93 MWh of energy equaling 0.05% of HCPD's SD 2008 retail sales. The Wessington Wind I commercial operation date was February 25, 2009, however, it produced a total of 10,505 vintage 2008 RECs. To comply with the MN RES, HCPD retired 4,956 vintage 2008 RECs corresponding to 1% of HCPD's 2008 MN retail load served (495,517 MWh). To date, HCPD has not retired any RECs corresponding to its 2008 SD retail load.

HCPD doesn't anticipate encountering any obstacles to meet South Dakota's REO with the execution of the Wessington Wind PPA.

In conclusion, HCPD currently has an adequate amount of renewable resource available and a plan to utilize the resource to meet the South Dakota REO of 10% by 2015 as part of its overall renewable energy goals for Customers in Minnesota, Iowa, and South Dakota.

Respectfully submitted this 22<sup>nd</sup> day of June, 2009.

**HEARTLAND CONSUMERS POWER DISTRICT** 

Nate Jones

Markét Operations Manager Heartland Consumers Power District 203 W Center St Madison, SD 57042

(605) 256-6536 njones@hcpd.com Please provide a value in each of the boxes below with an "X" in it.

Company: Heartland Consumers Power District on behalf of its South Dakota Customers.

Calendar Year 2008 RREO Report	Value	Comments
Retail Sales	1	
Total - All States (MWh)	703,882	
		Arlington, Aurora, Bryant, Colman, Estelline, Groton,
		Hecla, Howard, Langford, Madison, McLaughlin,
		Miller, Northern Electric, Parker, Plankinton, Sioux
		Falls, State of South Dakota, Tyndali, Volga,
SD (MWh)	203,560	Wessington Springs, White.
Generation Capacity Owned		
		Laramie River Station and Wessington Springs
Total - All States (MW)	55	Diesel Generating Units 1 and 2.
SD (MW)	4	Wessington Springs Diesel Generating Units 1 and 2.
Renewable Generation Capacity Owned		
Total - All States (MW)		
		HCPD has contracted via a PPA with Babcock &
		Brown for the entire output from the Wessington
Wind	-	Wind I project: 51 MW project with 34 turbines.
Solar	-	
New Hydro	-	
Old Hydro	-	
Hydrogen	-	
Biomass	-	
Geothermal	•	
Recycled Total - All States (MW)	:	
SD (MW)		
OD (MIVY)		HCPD has contracted via a PPA with Babcock &
		Brown for the entire output from the Wessington
Wind	l -	Wind I project: 51 MW project with 34 turbines.
Solar	_	
New Hydro		
Old Hydro	-	
Hydrogen	-	
Biomass	-	
Geothermal	-	İ
Recycled	-	
Total SD (MW)	•	
Renewable Energy Credits Retired for SD		
Total - Generated In All States (MWh)	ł	
Wind	-	
Solar	-	
New Hydro	-	
Old Hydro	-	
Hydrogen	-	
Biomass	1	
Geothermal	1 -	1
Recycled	] -	{
Total - All States (MWh)	-	
1		1

Generated in SD (MWh)	ı	1
Wind Wind	_	
Solar	I -	
<del>*</del>	•	
New Hydro	-	
Old Hydro	-	
Hydrogen Biomass	-	
Geothermal	-	
	_	
Recycled Total SD (MWh)		
Describbs Francis On the Ballond for		
Renewable Energy Credits Retired for Other States		
Total - Generated In All States (MWh)		
		REC's generated in South Dakota from the
	i	Wessington Wind I project and retired for HCPD's
		Minnesota Customers as required for the Minnesota
Wind	4,956	RES (1% of 2008 load).
Solar		
New Hydro	-	
Old Hydro	-	
Hydrogen	-	
Biomass	-	
Geothermal	-	
Recycled	4 050	
Total - All States (MWh)	4,956	
Generated in SD (MWh)		
Generated in SD (MAAII)		DECIs consisted in South Delicate from the
		REC's generated in South Dakota from the
		Wessington Wind I project and retired for HCPD's
Mend	4.056	Minnesota Customers as required for the Minnesota
Wind	4,956	RES (1% of 2008 load).
Solar	1	
New Hydro	_	
Old Hydro	_	
Hydrogen Biomass		
	1 :	0.05%
Geothermal		0.03%
Recycled Total SD (MWh)	4,956	
ioui or (mini)	7,550	
Conserved Energy & Capacity		
Conserved Energy (MWh)	1	
	t	Conservation for Madelia, Truman, Lake Crystal,
Total - Ali States	107	Marshall, Grove City not included.
	1	Doesn't include those listed above as well as Akron,
SD	93	IA and Tyler, MN.
Conserved Capacity (MW)		
,,	İ	Conservation for Madelia, Truman, Lake Crystal,
Total - Ali States	101	Marshall, Grove City not included.
	Ì	Doesn't include those listed above as well as Akron,
SD	88	IA and Tyler, MN.



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203 WEST CENTER STREET
MADISON, SOUTH DAKOTA 57042-0248
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January 21, 2009

Ms. Patricia Van Gerpen, Executive Secretary South Dakota Public Utilities Commission Capitol Building, 1<sup>st</sup> floor 500 East Capitol Avenue Pierre, SD 57501-5070

**RE: HCPD Renewable Energy Objective Progress Report** 

Dear Ms. Van Gerpen:

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If you have any questions regarding this report, please contact me at 605-256-6536 or njones@hcpd.com.

Respectfully submitted,

Nate Jones

**Market Operations Manager** 

**Heartiand Consumers Power District** 

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Copy via e-mail:

Tom Marvin; SD Municipal Electric Association



# Heartland Consumers Power District South Dakota Renewable Energy Progress Report

### January 21, 2008

Pursuant to South Dakota Codified Law, Chapter 49-34A-101 outlines a state renewable and recycled energy objective (REO) that ten percent of all electricity sold at retail within the stat by the year 2015 be obtained from renewable energy and recycled energy sources. The objective shall be measured by qualifying megawatt hours delivered at retail or by certificates representing credits purchased and retired to offset non-qualifying retail sales. This objective is voluntary, and there is no penalty or sanction for a retail provider of electricity that fails to meet this objective. The objective applies to each retail provider of electricity in the state, regardless of the ownership status of the electricity retailer. Any municipal or cooperative utility that receives wholesale electricity through a municipal power agency or generation and transmission cooperative may aggregate its renewable and recycled energy objective resources to meet this objective.

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Given the power supply relationship between HCPD and its Customers, HCPD has assumed the responsibility for the REO and the associated reporting requirements on behalf of its South Dakota Customer communities. The following South Dakota entities, nineteen municipal utilities, one cooperative utility, and one State agency, are Customers of HCPD:

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- Madison
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- Northern Electric
- Parker
- Plankinton
- Sloux Falls
- State of South Dakota
- Tyndall
- Volga
- Wessington Springs
- White

In order to meet the South Dakota REO, HCPD will integrate the South Dakota objective into its current Renewable Energy Standard (RES) report and plan as filed with the Minnesota Public Utilities Commission. According to Minn. Stat. §2168.1691, each electric utility shall generate or procure sufficient electricity generated by an eligible energy technology to provide its retail customers in Minnesota, or the retail customers of a distribution utility to which the electric utility provides wholesale electric service, so that at least the following standard percentages of the electric utility's total retail electric sales to retail customers in Minnesota are generated by eligible energy technologies by the end of the year indicated: 2012-12%, 2016-17%, 2020-20%, 2025-25%.

At the present time, HCPD acquires renewable energy resources through a single power purchase agreement (PPA) with Babcock & Brown, LLC. The PPA entitles HCPD to purchase the entire 51 MW of nameplate wind capacity and own all of the environmental attributes associated with such generation from the Wessington Springs Wind Project. (10 MW of the project are committed to another wholesale power supplier.) HCPD Intends to meet its REO/RES goals by utilizing the contracted wind generation and associated renewable attributes.

For the period from October 1, 2007 – September 30, 2008, HCPD's South Dakota retail load served was 197,866 MWh. Given HCPD's current customer base and projected retail load served in South Dakota, Minnesota, and lowa, Tables 1 identifies the projections of HCPD relating to compliance with the South Dakota REO goal.

HCPD doesn't anticipate encountering any obstacles to meet South Dakota's REO with the execution of the Wessington Springs Wind PPA.

In conclusion, HCPD currently has an adequate amount of renewable resource available and a plan to utilize the resource to meet the South Dakota Renewable Energy Objective of 10% by 2015 as part of its overall renewable energy goals for Customers in Minnesota, Iowa, and South Dakota.

Respectfully submitted this 21st day of January, 2009.

**HEARTLAND CONSUMERS POWER DISTRICT** 

Nate Jones

**Market Operations Manager** 

**Heartland Consumers Power District** 

203 W Center St

Madison, SD 57042

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Table 1: Heartland Consumers Power District Renewable Resource Utilization [1]

				Minir	Jurisd Jurisd	Ainimum Obligation by Jurisdiction	by				Rene Supt Jurisdia	Renewable Supply by arisdiction [3]
	Renewable Resource (GWh)	Retail Load Berved (GVM)	Load (OWh)	Renewable Energy Supply (GW/h)	capty (t	Percen Retail	Percentage of Retail Load	Unobigated Renewable Energy (GWN)	Unobligated Renewable Energy Alfo to Load	itled ble Allocated	Percer	Percentage of Rated Load
į	Weseington Springs Wind	3	PLIE COS	3	S <b>S</b> ≤	3	SD Alba		3	S S	74	SD and
2012	ã	ğ	\$	8	•	120%	20.0	7	Ę 15	8	10.7%	\$ 15°
200	ā	8	\$	8	¥	17.0%	10.0%	ક	ā	15	20.3%	13.3%
2020	育	7.17	8	18	8	20.0%	10.0%	8	<u>۳</u>	34	27.5%	17.5%
88	育	8	8	29	8	25.0%	10.0%	ą	7	8	30.3%	15.3%

[1] Heartland plans for current and proposed renewable resources.
[2] 51 MW project with expected inservice date 12/15/2008. 10 MW of project committed to other wholesale supplier. 41 MW to be used as Heartland network resource.
[3] includes both Minimum Obligation and Unobligated Renewable Energy Altocated to Load