

# **South Dakota Renewable and Recycled Energy Objective**

## **2009 Annual Report MidAmerican Energy Company**

MidAmerican Energy Company (MidAmerican) files the following report in compliance with SDCL 49-34A-105 covering the twelve-month period ending on December 31, 2009. The attached spreadsheet provides the following information:

- Retail Sales (MWh) - Total & SD-based
- Generation Capacity Owned (MW) - Total & SD-based by technology
- Renewable Generation Capacity Owned (MW) - Total & SD-based by technology
- Renewable Generation with RECs retired for SD (MWh) - Total & SD-based by technology
- Renewable Generation with RECs retired for other states/purposes (MWh) - Total & SD-based by technology
- Conserved Energy (MWh) and Capacity (MW)

### **Brief Narrative Report Describing Steps Taken and Challenges or Barriers:**

MidAmerican currently is the nation's leader in owned wind generation by a rate-regulated utility and continues to take steps to increase the amount of renewable energy generation capacity in its generation portfolio. At the end of 2009, MidAmerican's generating capacity included approximately 20 percent renewable generation. Production Tax Credits and the sale of renewable energy credits both help to promote the further development of renewable projects.

Additionally, MidAmerican began offering many of its successful energy efficiency programs to South Dakota customers on May 1, 2009. MidAmerican is offering a variety of energy efficiency programs aimed at helping residential, commercial and industrial customers reduce energy use and save money in the process. In 2009, the South Dakota programs saved customers more than 362,000 kilowatt-hours of electricity.

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

**Company:**

MidAmerican Energy Company

Calendar Year 2009 RREO Report	Value	Comments
<b>Retail Sales</b>		
Total - All States (MWh)	20,186,481	
SD (MWh)	202,912	
<b>Generation Capacity Owned</b>		
Total - All States (MW)	6,946	12/31/09 nameplate rating per FERC Form 1
SD (MW)	60	Allocated 0.86%
<b>Renewable Generation Capacity Owned</b>		
Total - All States (MW)		
Wind	1,284	
Solar	-	
New Hydro	-	
Old Hydro	4	
Hydrogen	-	
Biomass	-	
Geothermal	-	
Recycled	-	
<b>Total - All States (MW)</b>	<b>1,288</b>	
SD (MW)		
Wind	11	
Solar	-	
New Hydro	-	
Old Hydro	-	
Hydrogen	-	
Biomass	-	
Geothermal	-	
Recycled	-	
<b>Total SD (MW)</b>	<b>11</b>	
<b>Renewable Energy Credits Retired for SD</b>		
Total - Generated In All States (MWh)		
Wind	1,422	

Solar	-
New Hydro	-
Old Hydro	80
Hydrogen	-
Biomass	257
Geothermal	-
Recycled	-
<b>Total - All States (MWh)</b>	<b>1,759</b>

Generated in SD (MWh)

Wind	-
Solar	-
New Hydro	-
Old Hydro	-
Hydrogen	-
Biomass	-
Geothermal	-
Recycled	-
<b>Total SD (MWh)</b>	<b>-</b>

**Renewable Energy Credits Retired for Other States**

Total - Generated In All States (MWh)

Wind	403,438	Total retired for all states including South Dakota
Solar	-	
New Hydro	-	
Old Hydro	9,274	Total retired for all states including South Dakota
Hydrogen	-	
Biomass	93,046	Total retired for all states including South Dakota
Geothermal	-	
Recycled	-	
<b>Total - All States (MWh)</b>	<b>505,758</b>	Total retired for all states including South Dakota

Generated In SD (MWh)

Wind	-
Solar	-
New Hydro	-
Old Hydro	-
Hydrogen	-
Biomass	-
Geothermal	-
Recycled	-
<b>Total SD (MWh)</b>	<b>-</b>

<b>Conserved Energy &amp; Capacity</b>		
<b>Conserved Energy (MWh)</b>		
Total - All States	1,259,962	Per EIA-861 (Annual Effects)
SD	363	Per EIA-861 (Annual Effects)
<b>Conserved Capacity (MW)</b>		
Total - All States	556	Per EIA-861 (Annual Effects)
SD	-	

## **Technology**

**Wind**

**Solar**

**Hydro**

New Hydro

Old Hydro

**Hydrogen**

**Biomass**

**Geothermal**

**Recycled**

### **Definition\***

Wind that uses wind as the source of energy to produce electricity

Solar that uses the sun as the source of energy to produce electricity

Hydroelectric that uses water as the source of energy to produce electricity

Facilities with an inservice date of July 1, 2008 or after

Facilities with an inservice date before July 1, 2008

Hydrogen that is generated from one of the sources listed in this section

Biomass that uses agricultural crops and agricultural wastes and residues, wood and wood wastes and residues, animal and other degradable organic wastes, municipal solid waste, or landfill gas as the fuel to produce electricity

Geothermal that uses energy contained in heat that continuously flows outward from the earth as the source of energy to produce electricity

Recycled energy systems that produce electricity from currently unused waste heat resulting from combustion or other processes and which do not use an additional combustion process. The term does not include any system whose primary purpose is the generation of electricity

\*Per SDCL 49-41B-94 and SDCL 49-41B-103