

# South Dakota Renewable and Recycled Energy Objective

## 2012 Annual Report

### Rosebud Electric Cooperative Inc.

Rosebud Electric Cooperative files the following report in compliance with SDCL 49-34A-105 covering the twelve month period ending December 31, 2012.

#### Brief Narrative

Rosebud Electric does not have any generation. Rosebud Electric purchases power from the Western Area Power Administration (WAPA) and Basin Electric Cooperative (Basin). Rosebud Electric's total purchased power for 2012 was 86,026,282 KWh. We purchased 69% of this power from WAPA and consider it "old hydro" power. The remaining 31% was purchased from Basin. I received the following information from Basin;

" Basin Electric had renewable generation (wind, recovered energy generation (waste heat) and flare gas generation) equal to 15.3% of Basin Electric member and retail sales (which includes sales to DGC, Ellsworth AFB, Warren AFB and Willwood L&P). If you exclude Basin Electric's retail sales and only include member sales, the percentage is 16.2%. This renewable generation equaled 3,031,756 MWh of Basin Electric's generation. However, this renewable generation does not include any of the renewable attributes, as the available renewable attributes have been allocated to the membership".

Basin allocated 3,702 renewable energy credits to Rosebud Electric and they have been retired.

Rosebud Electric has just about completed a complete "advanced" metering program with the TWACS meters. These will replace the "Turtle" meters, which we have had for fifteen years. Rosebud Electric does not, at the present time, have a load control program. With the completion of the TWACS system, we can see a load control program in the near future.

Rosebud Electric is very active with the education of our members on conserving energy. We have approximately 450 geothermal heat pumps, out of the 1080 electrically heated homes, on our system. We offer "free" advice on the installation of these systems, as well as, comparisons of heating with fuel oil or propane. There is no natural gas available. We offer "free" home energy audits. At this time, we do not offer any rebate programs.

Please see the attached generation mix of Rosebud Electric.

## Generation Mix Attributable to SD in 2012

<b>Utility Name</b>	
ROSEBUD ELECTRIC COOP	
<b>Coal</b>	23.81%
<b>Hydro</b>	69.00%
<b>Natural Gas</b>	0.31
<b>Nuclear</b>	0.651
<b>Oil</b>	0.00%
<b>Biomass</b>	0.00%
<b>Recovered Energy Generation</b>	0.403
<b>Wind</b>	3.10%
<b>Short Term Purchases</b>	2.48%

Rosebud Electric buys 69% of it's power requirements from Western Area Power Administration and 31% from Basin Electric Power Cooperative. I listed the WAPA power as hydro and used Basin information for the remainder. I have included the Basin information below.

### Basin Information

#### Percent by Fuel Type (Energy)

##### Actual

##### 2011 (EOY)

Coal Based Generation

76.8%

Hydro Generation

0.8%

Natural Gas Generation

1%

Nuclear Generation

2.1%

Oil, diesel and jet fuel Generation

0.0%

Biogas

0.0%

Recovered Energy Generation

1.3%

Wind Generation

10%

Short Term Purchases

8%