



**BLACK HILLS POWER**

P.O. BOX 1400 409 DEADWOOD AVENUE  
RAPID CITY, SOUTH DAKOTA 57709  
<http://www.blackhillscorp.com>

DON MARTINEZ  
ENERGY SERVICES ENGINEER

TELEPHONE  
(605) 721-2689  
FAX: (605) 721-2577

**RECEIVED**

**JAN 28 2003**

**SOUTH DAKOTA PUBLIC UTILITIES COMMISSION**

January 24, 2003

Ms. Pam Bonrud  
Executive Director  
South Dakota Public Utilities Commission  
500 E. Capitol  
Pierre, SD 57501

Subject: Energy Storage Tariff Filing

Dear Ms. Bonrud:

Black Hills Power is requesting a change to its Energy Storage Service rate schedule. The change that being requested is to include snowmaking and water pumping loads that meet the guidelines that has been set by the Energy Storage tariff.

Terry Peak has expanded their snow making system to include pumping water into holding ponds recently acquired from Golden Reward. The new equipment will improve Terry Peak's capability to make additional snow. The quality of the snow will also be noticed.

In reviewing the alternatives, we believe the most applicable tariff would be the Energy Storage rate schedule. Terry Peak has agreed to operate their equipment in accordance to the tariff with no more than 50% of their load operating during on-peak time periods.

The following tariffs are submitted for the South Dakota Public Utilities Commission approval:

SECTION 1

- Fourteenth Revised Sheet No. 1. Table of Contents (Page 1 of 4)
- Fifteenth Revised Sheet No. 2 Table of Contents (Page 2 of 4)

SECTION 3A

- Fourth Revised Sheet No. 6 Energy Storage (Page 1 of 5)
- Fourth Revised Sheet No. 7 Energy Storage (Page 2 of 5)
- Fourth Revised Sheet No. 8 Energy Storage (Page 3 of 5)
- Third Revised Sheet No. 9 Energy Storage (Page 4 of 5)
- Third Revised Sheet No. 10 Energy Storage (Page 5 of 5)

Ms. Pam Bonrud  
Page 2  
January 24, 2003

BHP is also requesting that the State University Service tariff be eliminated from its listing of applicable rate tariffs. The only customer that qualified for the service (Black Hills State University) no longer receives retail service from BHP. References to State University Service - Rate Schedules 30, 31, and 32 have been removed from the appropriate Table of Contents pages.

If you have any questions, please contact me.

Sincerely,

A handwritten signature in black ink that reads "Don Martinez". The signature is written in a cursive style with a long horizontal stroke at the end.

Don Martinez  
Energy Services Engineer

cc: Kyle White, B H Corporation, Vice President of Corporate Affairs  
Linden R. Evans, B H Corporation, Corporate Attorney

PUBLIC UTILITIES COMMISSION OF SOUTH DAKOTA

BLACK HILLS POWER  
RAPID CITY, SOUTH DAKOTA

SECTION NO. 1  
FOURTEENTH REVISED SHEET NO. 1  
REPLACES THIRTEENTH REVISED SHEET NO. 1

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Ninth Revised Sheet	4	Total Electric Residential Service
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Seventh Revised Sheet	6	(Reserved)
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(D)

DATE FILED: January 24, 2003

EFFECTIVE DATE: For service on and after \_\_\_\_\_

ISSUED BY: \_\_\_\_\_

Don Martinez  
Energy Services Engineer

PUBLIC UTILITIES COMMISSION OF SOUTH DAKOTA

BLACK HILLS POWER  
RAPID CITY, SOUTH DAKOTA

SECTION NO. 1  
FIFTEENTH REVISED SHEET NO. 2  
REPLACES FOURTEENTH REVISED SHEET NO. 2

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(continued)

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SECTION 3 RATE SCHEDULES (continued)

(D)  
|

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Second Revised Sheet	3	Schedule 1--Cogeneration and Small Power Production Service--Simultaneous Net Billing

DATE FILED: January 24, 2003

EFFECTIVE DATE: For service on and after \_\_\_\_\_

ISSUED BY: \_\_\_\_\_  
Don Martinez  
Energy Services Engineer

BLACK HILLS POWER  
 RAPID CITY, SOUTH DAKOTA  
 BILLING CODE 25

SECTION NO. 3A  
 FOURTH REVISED SHEET NO. 6  
 REPLACES THIRD REVISED SHEET NO. 6

ENERGY STORAGE SERVICE

RATE NO. ES-4

Page 1 of 5

AVAILABLE

To customers installing certain energy efficient electrical equipment that will increase off-peak electrical use and reduce the Company's on-peak demand, at points on the Company's existing secondary distribution lines supplied by its interconnected transmission system. The rate has been developed as part of the Company's Demand-side Management strategy.

APPLICABLE

At the customer's election, to General Service customers who operate Company approved energy storage facilities for the purpose of utilizing off-peak electric energy for space conditioning, battery charging, water pumping, and/or snowmaking. Electric (N) energy will be supplied through a separately metered circuit utilizing the same transformer and service used to serve the balance of the customer's electrical load.

CHARACTER OF SERVICE

Alternating current, 60 hertz, at the voltage and phase of the Company's established distribution system most available to the location of the customer. Energy Storage Service will be provided on a TIME OF USE schedule for qualified PARTIAL STORAGE and GEOTHERMAL systems. The number of off-peak hours available will amount to eight hours each day during the winter season, twelve hours each day during the summer season and 24 hours a day on weekends and major holidays during both summer and winter seasons.

NET MONTHLY BILLRate

Customer Charge  
 \$10.00 per month

Energy Charge

OFF-PEAK: 2.50 ¢ per kWh  
 ON-PEAK: 4.00 ¢ per kWh

Capacity Charge

OFF-PEAK: no charge  
 ON-PEAK: \$6.00 per kW of Billing Capacity

Minimum

The Customer Charge.

DATE FILED: January 24, 2003

EFFECTIVE DATE: For service on and after \_\_\_\_\_

ISSUED BY: \_\_\_\_\_

Don Martinez  
 Energy Services Engineer

BLACK HILLS POWER  
 RAPID CITY, SOUTH DAKOTA  
 BILLING CODE 25

SECTION NO. 3A  
 FOURTH REVISED SHEET NO. 7  
 REPLACES THIRD REVISED SHEET NO. 7

ENERGY STORAGE SERVICE

RATE NO. ES-4

Page 2 of 5

Billing Capacity

Customer's average kilowatt load during the fifteen minute period of maximum ON-PEAK use during the month.

Power Factor Adjustment - If the power factor for the month (determined at the company's option by permanent measurement or by a test of not less than fifteen minute duration under conditions which the company determines to be normal) is less than eighty-five percent (85%) at the point of delivery, the Billing Capacity will be increased by multiplying by eighty five percent (85%) and dividing by the power factor expressed in percent. Power factor is defined to be the quotient obtained by dividing the kilowatt-hours used during the month by the square root of the sum of the squares of the kilowatt-hours used and the lagging reactive kilovolt-ampere-hours supplied during the same period. Any leading kilovolt-ampere-hours supplied during the period will not be considered.

Penalty for Non-Compliance

If a PARTIAL STORAGE customer exceeds their partial storage Limit (expressed in kW) during peak time periods, a penalty of five (5) times the Capacity Charge per kW will be assessed for the difference in kW that the maximum billing capacity exceeds the partial storage limit. The partial storage limit will be determined using design day load profiles from standard industry load calculation methods. A conversion factor of .75 kW per ton will be used for Cool Storage applications.

PAYMENT

Net monthly bills are due and payable twenty days from the date of the bill, and after that date the account becomes delinquent. A late payment charge of 1.5% on the current unpaid balance shall apply to delinquent accounts. A nonsufficient funds check charge of \$15.00.

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 Energy Services Engineer

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 RAPID CITY, SOUTH DAKOTA  
 BILLING CODE 25

SECTION NO. 3A  
 FOURTH REVISED SHEET NO. 8  
 REPLACES THIRD REVISED SHEET NO. 8

ENERGY STORAGE SERVICE

RATE NO. ES-4

Page 3 of 5

PAYMENT (continued)

shall apply for returned checks. If a bill is not paid, the Company shall have the right to suspend service, provided ten days written notice of such suspension has been given. When service is suspended for nonpayment of a bill, a Customer Service Charge will apply.

TERMS AND CONDITIONS

1. Service will be rendered under the Company's General Rules and Regulations where not inconsistent with any specific provisions of this rate schedule or the contract.
2. Service will be provided under this rate schedule only to customers who have contracted for service for an initial term of not less than three years. The contract may be terminated at any time on or after the expiration date of the initial term by twelve months written notice.
3. Company will supply and maintain metering to provide off-peak energy to FULL STORAGE systems and the Company will supply and maintain TIME OF USE metering to provide ON-PEAK and OFF-PEAK energy for PARTIAL STORAGE and GEOTHERMAL systems.
4. The Company shall have the right to inspect all wiring and equipment connected to the storage circuit. In the event the Company finds that the customer's wiring has been altered or arranged in any manner so that energy is used in any equipment other than Company approved energy storage facilities, the contract for service under this rate schedule may be canceled.
5. The Company may, at its option, install in the energy storage circuit, load limiting devices to limit the total load to be served through the energy storage circuit.
6. OFF-PEAK Hours: Monday - Friday
  - Summer Months (April 1 - October 31)  
10:00 p.m. - 10:00 a.m.
  - Winter Months (November 1 - March 31)  
11:00 p.m. - 7:00 a.m.

OFF-PEAK Hours: Saturdays, Sundays, and major holidays.  
 Available all hours during both seasons.

DATE FILED: January 24, 2003

EFFECTIVE DATE: For service on and after \_\_\_\_\_

ISSUED BY: \_\_\_\_\_

Don Martinez  
 Energy Services Engineer

PUBLIC UTILITIES COMMISSION OF SOUTH DAKOTA

BLACK HILLS POWER  
RAPID CITY, SOUTH DAKOTA  
BILLING CODE 25

SECTION NO. 3A  
THIRD REVISED SHEET NO. 9  
REPLACES SECOND REVISED SHEET NO. 9

ENERGY STORAGE SERVICE

RATE NO. ES-4  
Page 4 of 5

7. MEANS OF CONTROL:

ON FULL STORAGE systems, the customer must install a contacting device on the line side of the main disconnect which will interrupt power when signals are received from Company's time clock. The contacting device shall be placed outside the building adjacent to the Company's metering equipment.

8. QUALIFIED SYSTEMS:

- A. Full Storage - Available to heating and cooling systems that are able to store energy during off-peak periods for use during on-peak periods.
- B. Partial Storage - COOLING: - Partial storage equipment size must be at least 25% less than conventional equipment size during on-peak time periods. Chiller equipment, cooling tower pumps and fans, and cool water circulating pumps qualify for the rate. Air handling equipment and hot water circulating pumps do not qualify. A penalty for non-compliance will be assessed if the partial storage limit is exceeded.
- C. Partial Storage - Heating - An Electric Boiler with off- peak storage capability qualifies when used in combination with water-loop heat pumps. The Electric Boiler size must be 25% less than conventional equipment during on-peak time periods. Water-loop heat pumps, air handling equipment, and circulating pumps do not qualify. A penalty for non-compliance will be assessed if the partial storage limit is exceeded.
- D. Geothermal Applications - Geothermal heat pumps, associated air handling equipment and circulating pumps qualify for the rate. Supplementary resistance heat associated with each heat pump or supplementary electric boiler heat associated with the geothermal system also qualify for the rate.

DATE FILED: January 24, 2003

EFFECTIVE DATE: For service on and after \_\_\_\_\_

ISSUED BY: \_\_\_\_\_

Don Martinez  
Energy Services Engineer

PUBLIC UTILITIES COMMISSION OF SOUTH DAKOTA

BLACK HILLS POWER  
RAPID CITY, SOUTH DAKOTA  
BILLING CODE 25

SECTION NO. 3A  
THIRD REVISED SHEET NO. 10  
REPLACES SECOND REVISED SHEET NO. 10

ENERGY STORAGE SERVICE

RATE NO. ES-4  
Page 5 of 5

8. QUALIFIED SYSTEMS: (continued) (N)

E. Partial Storage - WATER PUMPING AND SNOWMAKING: - Partial storage equipment size must be at least 50% less than conventional equipment size during on-peak time periods.

9. DESIGN REVIEW:

Detailed design information must accompany each Energy Storage Application including:

A. A 24-hour design day cooling, heating, water pumping, and/or snowmaking load profile using standard industry load calculation methods. (N)

B. A system description with operating Strategy. The Demand-Side Management Department shall review and approve the Energy Storage Application and proposed contract.

TAX ADJUSTMENT

Bills computed under the rate shall be adjusted by the applicable proportionate part of any impost, assessment, or charge imposed or levied by any governmental authority as a result of laws or ordinances enacted, which is assessed or levied on the basis of revenue for electric energy or service sold, and/or the volume of energy generated and sold.

DATE FILED: January 24, 2003

EFFECTIVE DATE: For service on and after \_\_\_\_\_

ISSUED BY: \_\_\_\_\_

Don Martinez  
Energy Services Engineer

**South Dakota Public Utilities Commission**  
**WEEKLY FILINGS**  
For the Period of January 23, 2003 through January 29, 2003

If you need a complete copy of a filing faxed, overnight expressed, or mailed to you, please contact  
Delaine Kolbo within five business days of this report. Phone: 605-773-3705

**ELECTRIC**

**EL03-003     In the Matter of the Filing by Black Hills Power for Approval of Tariff Revisions.**

Application of Black Hills Power for approval of electric tariff revisions which will allow snow making equipment to be served by the Energy Storage Service rate. The application also would revise tariffs to eliminate State University Service which is no longer being utilized.

Staff Analyst: Dave Jacobson  
Staff Attorney: Kelly Frazier  
Date Docketed: 01/28/03  
Intervention Deadline: 02/14/03

**TELECOMMUNICATIONS**

**TC03-037     In the Matter of the Filing for Approval of a Reciprocal Transport and Termination Agreement between CommNet Cellular License Holding, Inc. d/b/a Verizon Wireless, Missouri Valley Cellular, Inc. d/b/a Verizon Wireless, Sandborn Cellular of South Dakota Limited Partnership d/b/a Verizon Wireless and Eastern South Dakota Cellular, Inc. d/b/a Verizon Wireless and PrairieWave Community Telephone, Inc.**

On January 23, 2003, the Commission received for approval a Filing of a Reciprocal Transport and Termination Agreement between CommNet Cellular License Holding, Inc. d/b/a Verizon Wireless, Missouri Valley Cellular, Inc. d/b/a Verizon Wireless, Sandborn Cellular of South Dakota Limited Partnership d/b/a Verizon Wireless and Eastern South Dakota Cellular, Inc. d/b/a Verizon Wireless (all as "Verizon") and PrairieWave Community Telephone, Inc. (PrairieWave). According to the parties, the Agreement is made to put in place an arrangement for the mutual exchange and reciprocal compensation of local telecommunications traffic which is intended to supersede any previous arrangements between the parties. The parties also wish to establish an arrangement that compensates PrairieWave for transiting traffic that originates on Verizon's network and terminates on a third carrier's network. Any party wishing to comment on the agreement may do so by filing written comments with the Commission and the parties to the agreement no later than February 12, 2003. Parties to the agreement may file written responses to the comments no later than twenty days after the service of the initial comments.

Staff Attorney: Kelly Frazier  
Date Docketed: 01/23/03  
Initial Comments Due: 02/12/03

**TC03-038 In the Matter of the Filing for Approval of an Interconnection and Reciprocal Compensation Agreement between CommNet Cellular License Holding, Inc. d/b/a Verizon Wireless, Missouri Valley Cellular, Inc. d/b/a Verizon Wireless, Sandborn Cellular of South Dakota Limited Partnership d/b/a Verizon Wireless and Eastern South Dakota Cellular, Inc. d/b/a Verizon Wireless and PrairieWave Telecommunications, Inc.**

On January 23, 2003, the Commission received for approval a Filing for Approval of an Interconnection and Reciprocal Compensation Agreement between CommNet Cellular License Holding, Inc. d/b/a Verizon Wireless, Missouri Valley Cellular, Inc. d/b/a Verizon Wireless, Sandborn Cellular of South Dakota Limited Partnership d/b/a Verizon Wireless and Eastern South Dakota Cellular, Inc. d/b/a Verizon Wireless (all as Verizon) and PrairieWave Telecommunications, Inc.(PrairieWave). According to the parties, the Agreement is made to put in place an arrangement for the mutual exchange and reciprocal compensation of telecommunications traffic which is intended to supersede any previous arrangements between the parties. Any party wishing to comment on the agreement may do so by filing written comments with the Commission and the parties to the agreement no later than February 12, 2003. Parties to the agreement may file written responses to the comments no later than twenty days after the service of the initial comments.

Staff Attorney: Kelly Frazier  
Date Docketed: 01/23/03  
Initial Comments Due: 02/12/03

**TC03-039 In the Matter of the Application of Miko Telephone Communications, Inc. for a Certificate of Authority to Provide Interexchange Telecommunications Services in South Dakota.**

Miko Telephone Communications, Inc. is seeking a Certificate of Authority to provide interexchange telecommunications services in South Dakota. The Applicant intends to offer "1+" long distance and Calling Card service to residential customers on a resale basis.

Staff Analyst: Keith Senger  
Staff Attorney: Karen Cremer  
Date Docketed: 01/24/03  
Intervention Deadline: 02/14/03

**TC03-040 In the Matter of the Unauthorized Long Distance Billing of Customers in the City of Dell Rapids, South Dakota, caused by MSN Corporation d/b/a MSN TV f/k/a WEBTV.**

On January 24, 2003, the Commission received a filing from Commission Staff requesting that the Commission issue an Order To Show Cause as to why MSN Corporation d/b/a MSN TV f/k/a WEBTV (MSN TV) should not be found in violation of South Dakota Law. According to the Motion, MSN TV, or its access partners, routed customers to a long distance number for accessing the internet in violation of an agreement that customers would always be permitted to access the internet without incurring long distance charges. The Motion alleges that the routing resulted in the initiation of unauthorized billing in violation of South Dakota law, including, but not necessarily limited to SDCL 49-13-93. Any party wishing to comment on the agreement may do so by filing written comments with the Commission and the parties to the agreement no later than February 13, 2003. Parties to the agreement may file written responses to the comments no later than twenty days after the service of the initial comments.

Staff Attorney: Kelly Frazier

Date Docketed: 01/24/03

Initial Comments Due: 02/13/03

**TC03-041 In the Matter of the Application of Qwest LD Corp. d/b/a Qwest Long Distance for a Certificate of Authority to Provide Interexchange Telecommunications Services in South Dakota.**

Qwest LD Corp (QLDC) d/b/a Qwest Long Distance has filed an application with the South Dakota Public Utilities Commission for a Certificate of Authority to provide interexchange telecommunications services in South Dakota. The applicant proposes to be a resale interexchange carrier that will provide intrastate voice and data long-distance telecommunications services, operator services, directory assistance and 800 services throughout South Dakota. QLDC proposes offering these services in the State of South Dakota after it receives approval from the Federal Communications Commission for its Section 271 Application.

Staff Analyst: Michele M. Farris

Staff Attorney: Kelly Frazier

Date Docketed: 01/27/03

Intervention Deadline: 02/14/03

**You may receive this listing and other PUC publications via our website or via internet e-mail.  
You may subscribe or unsubscribe to the PUC mailing lists at <http://www.state.sd.us/puc>**

**BLACK HILLS POWER**

**409 Deadwood Avenue**

**P. O. Box 1400, Rapid City, SD 57709-1400**



Date: March 5, 2003  
 Number of pages including cover sheet: 4

**FAX**

**To: Dave Jacobson**  
 Staff Analyst  
 South Dakota Public  
 Utilities Commission

Phone: 605-773-3201  
 Fax phone: 605-773-3809  
 CC:

**From: Don Martinez**  
 Energy Services Engineer

Email: djmartin@blackhillspower.com  
 Phone: 605 721-2689  
 Fax phone: 605 721-2577

**REMARKS:**     Urgent     For your review     Reply ASAP     Please comment

Pursuant to our conversation, the following tariff sheets are submitted as part of our Energy Storage

Tariff filing (EL03-003):

Section 3

Second Revised Sheet No. 30

Fourth Revised Sheet No. 31

Third Revised Sheet No. 32

**If this fax is not received in its entirety, please contact Coral at: (605) 721-2229.**

PUBLIC UTILITIES COMMISSION OF SOUTH DAKOTA

BLACK HILLS POWER  
RAPID CITY, SOUTH DAKOTA

SECTION NO. 3  
SECOND REVISED SHEET NO. 30  
REPLACES FIRST SHEET NO. 30

(Reserved)

DATE FILED: January 24, 2003

EFFECTIVE DATE: For service on and  
after \_\_\_\_\_

ISSUED BY: \_\_\_\_\_

Don Martinez  
Energy Services Engineer

PUBLIC UTILITIES COMMISSION OF SOUTH DAKOTA

BLACK HILLS POWER  
RAPID CITY, SOUTH DAKOTA

SECTION NO. 3  
FOURTH REVISED SHEET NO. 31  
REPLACES THIRD REVISED SHEET NO. 31

(Reserved)

DATE FILED: January 24, 2003

EFFECTIVE DATE: For service on and  
after \_\_\_\_\_

ISSUED BY: \_\_\_\_\_

Don Martinez  
Energy Services Engineer

PUBLIC UTILITIES COMMISSION OF SOUTH DAKOTA

BLACK HILLS POWER  
RAPID CITY, SOUTH DAKOTA

SECTION NO. 3  
THIRD REVISED SHEET NO. 32  
REPLACES SECOND REVISED SHEET NO. 32

(Reserved)

DATE FILED: January 24, 2003

EFFECTIVE DATE: For service on and  
after \_\_\_\_\_

ISSUED BY: \_\_\_\_\_

Don Martinez  
Energy Services Engineer

**BEFORE THE PUBLIC UTILITIES COMMISSION  
OF THE STATE OF SOUTH DAKOTA**

**IN THE MATTER OF THE FILING BY BLACK ) ORDER APPROVING TARIFF  
HILLS POWER FOR APPROVAL OF TARIFF ) REVISIONS  
REVISIONS ) EL03-003**

On January 28, 2003, Black Hills Power (BHP), filed with the Public Utilities Commission (Commission) for approval of electric tariff revisions which will allow snow making equipment to be served by the energy storage service rate. The application also would revise tariffs to eliminate State University Service which is no longer being utilized. The proposed revised tariffs are:

Section 1:

Fourteenth Revised Sheet No. 1, replacing Thirteenth Revised Sheet No. 1  
Fifteenth Revised Sheet No. 2, replacing Fourteenth Revised Sheet No. 2

Section 3:

Second Revised Sheet No. 30, replacing First Revised Sheet No. 30  
Fourth Revised Sheet No. 31, replacing Third Revised Sheet No. 31  
Third Revised Sheet No. 32, replacing Second Revised Sheet No. 32

Section 3A:

Fourth Revised Sheet No. 6, replacing Third Revised Sheet No. 6  
Fourth Revised Sheet No. 7, replacing Third Revised Sheet No. 7  
Fourth Revised Sheet No. 8, replacing Third Revised Sheet No. 8  
Third Revised Sheet No. 9, replacing Second Revised Sheet No. 9  
Third Revised Sheet No. 10, replacing Second Revised Sheet No. 10

At its regularly scheduled meeting of February 20, 2003, the Commission considered approval of the application. Commission Staff recommended approval.

The Commission finds that it has jurisdiction over this matter pursuant to SDCL Chapter 49-34A. Further, the revisions are just and reasonable and shall be approved. As the Commission's final decision in this matter, it is therefore

ORDERED, that BHP's revised tariffs as described above are approved and shall be effective for service rendered on and after the date of this Order.

Dated at Pierre, South Dakota, this 7<sup>th</sup> day of March, 2003.

<b>CERTIFICATE OF SERVICE</b>
The undersigned hereby certifies that this document has been served today upon all parties of record in this docket, as listed on the docket service list, by facsimile or by first class mail, in properly addressed envelopes, with charges prepaid thereon.
By: <u>Delaine Kolbo</u>
Date: <u>3/10/03</u>
(OFFICIAL SEAL)

BY ORDER OF THE COMMISSION:

Robert K. Sahr

ROBERT K. SAHR, Chairman

Gary Hanson

GARY HANSON, Commissioner

James A. Burg

JAMES A. BURG, Commissioner

# BLACK HILLS POWER

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DON MARTINEZ  
ENERGY SERVICES ENGINEER

TELEPHONE  
(605) 721-2689  
FAX: (605) 721-2577

March 21, 2003

**RECEIVED**  
MAR 24 2003  
SOUTH DAKOTA PUBLIC  
UTILITIES COMMISSION

Mr. Dave Jacobson  
South Dakota Public Utilities Commission  
500 E. Capitol  
Pierre, SD 57501

Subject: Energy Storage Tariff Filing – Order No. EL03-003

Dear Dave:

The Commission approved Black Hills Power's filing and an Order was dated March 7, 2003. The associated tariffs, with the proper signature and the effective date included, are enclosed. Please find the following tariffs:

## SECTION 1

Fourteenth Revised Sheet No. 1. Table of Contents (Page 1 of 4)  
Fifteenth Revised Sheet No. 2 Table of Contents (Page 2 of 4)

## SECTION 3

Second Revised Sheet No. 30 (Reserved)  
Fourth Revised Sheet No. 31 (Reserved)  
Third Revised Sheet No. 32 (Reserved)

## SECTION 3A

Fourth Revised Sheet No. 6 Energy Storage (Page 1 of 5)  
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Thank you for your work on this filing.

Sincerely,



Don Martinez  
Energy Services Engineer

PUBLIC UTILITIES COMMISSION OF SOUTH DAKOTA

BLACK HILLS POWER  
RAPID CITY, SOUTH DAKOTA

SECTION NO. 1  
FOURTEENTH REVISED SHEET NO. 1  
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MAR 24 2003

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First Revised Sheet	1	Statement and Codes
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**SOUTH DAKOTA PUBLIC  
UTILITIES COMMISSION**

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Eleventh Revised Sheet	18	Private or Public Area Lighting
Ninth Revised Sheet	19	Irrigation Pumping
Ninth Revised Sheet	20	Irrigation Pumping
Tenth Revised Sheet	21	Street Lighting
Tenth Revised Sheet	22	Street Lighting
Tenth Revised Sheet	23	Street Lighting
Ninth Revised Sheet	24	Municipal Pumping
Ninth Revised Sheet	25	Municipal Pumping
Ninth Revised Sheet	26	Traffic Signals
Ninth Revised Sheet	27	Traffic Signals
Eighth Revised Sheet	28	Customer Service Charge
First Revised Sheet	29	Meter Test Deposits
Second Revised Sheet	30	(Reserved)
Fourth Revised Sheet	31	(Reserved)

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Energy Services Engineer

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SECTION NO. 1  
FIFTEENTH REVISED SHEET NO. 2  
REPLACES FOURTEENTH REVISED SHEET NO. 2

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SECTION NO. 3A  
 FOURTH REVISED SHEET NO. 6  
 REPLACES THIRD REVISED SHEET NO. 6

ENERGY STORAGE SERVICE

RATE NO. ES-4  
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AVAILABLE

To customers installing certain energy efficient electrical equipment that will increase off-peak electrical use and reduce the Company's on-peak demand, at points on the Company's existing secondary distribution lines supplied by its interconnected transmission system. The rate has been developed as part of the Company's Demand-side Management strategy.

APPLICABLE

At the customer's election, to General Service customers who operate Company approved energy storage facilities for the purpose of utilizing off-peak electric energy for space conditioning, battery charging, water pumping, and/or snowmaking. Electric (N) energy will be supplied through a separately metered circuit utilizing the same transformer and service used to serve the balance of the customer's electrical load.

CHARACTER OF SERVICE

Alternating current, 60 hertz, at the voltage and phase of the Company's established distribution system most available to the location of the customer. Energy Storage Service will be provided on a TIME OF USE schedule for qualified PARTIAL STORAGE and GEOTHERMAL systems. The number of off-peak hours available will amount to eight hours each day during the winter season, twelve hours each day during the summer season and 24 hours a day on weekends and major holidays during both summer and winter seasons.

NET MONTHLY BILLRate

Customer Charge  
 \$10.00 per month

Energy Charge

OFF-PEAK: 2.50 ¢ per kWh  
 ON-PEAK: 4.00 ¢ per kWh

Capacity Charge

OFF-PEAK: no charge  
 ON-PEAK: \$6.00 per kW of Billing Capacity

Minimum

The Customer Charge.

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 BILLING CODE 25

SECTION NO. 3A  
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Billing Capacity

Customer's average kilowatt load during the fifteen minute period of maximum ON-PEAK use during the month.

Power Factor Adjustment - If the power factor for the month (determined at the company's option by permanent measurement or by a test of not less than fifteen minute duration under conditions which the company determines to be normal) is less than eighty-five percent (85%) at the point of delivery, the Billing Capacity will be increased by multiplying by eighty five percent (85%) and dividing by the power factor expressed in percent. Power factor is defined to be the quotient obtained by dividing the kilowatt-hours used during the month by the square root of the sum of the squares of the kilowatt-hours used and the lagging reactive kilovolt-ampere-hours supplied during the same period. Any leading kilovolt-ampere-hours supplied during the period will not be considered.

Penalty for Non-Compliance

If a PARTIAL STORAGE customer exceeds their partial storage Limit (expressed in kW) during peak time periods, a penalty of five (5) times the Capacity Charge per kW will be assessed for the difference in kW that the maximum billing capacity exceeds the partial storage limit. The partial storage limit will be determined using design day load profiles from standard industry load calculation methods. A conversion factor of .75 kW per ton will be used for Cool Storage applications.

PAYMENT

Net monthly bills are due and payable twenty days from the date of the bill, and after that date the account becomes delinquent. A late payment charge of 1.5% on the current unpaid balance shall apply to delinquent accounts. A nonsufficient funds check charge of \$15.00.

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SECTION NO. 3A  
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PAYMENT (continued)

shall apply for returned checks. If a bill is not paid, the Company shall have the right to suspend service, provided ten days written notice of such suspension has been given. When service is suspended for nonpayment of a bill, a Customer Service Charge will apply.

TERMS AND CONDITIONS

1. Service will be rendered under the Company's General Rules and Regulations where not inconsistent with any specific provisions of this rate schedule or the contract.
2. Service will be provided under this rate schedule only to customers who have contracted for service for an initial term of not less than three years. The contract may be terminated at any time on or after the expiration date of the initial term by twelve months written notice.
3. Company will supply and maintain metering to provide off-peak energy to FULL STORAGE systems and the Company will supply and maintain TIME OF USE metering to provide ON-PEAK and OFF-PEAK energy for PARTIAL STORAGE and GEOTHERMAL systems.
4. The Company shall have the right to inspect all wiring and equipment connected to the storage circuit. In the event the Company finds that the customer's wiring has been altered or arranged in any manner so that energy is used in any equipment other than Company approved energy storage facilities, the contract for service under this rate schedule may be canceled.
5. The Company may, at its option, install in the energy storage circuit, load limiting devices to limit the total load to be served through the energy storage circuit.
6. OFF-PEAK Hours: Monday - Friday

Summer Months (April 1 - October 31)  
 10:00 p.m. - 10:00 a.m.

Winter Months (November 1 - March 31)  
 11:00 p.m. - 7:00 a.m.

OFF-PEAK Hours: Saturdays, Sundays, and major holidays.  
 Available all hours during both seasons.

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BILLING CODE 25

SECTION NO. 3A  
THIRD REVISED SHEET NO. 9  
REPLACES SECOND REVISED SHEET NO. 9

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7. MEANS OF CONTROL:

ON FULL STORAGE systems, the customer must install a contacting device on the line side of the main disconnect which will interrupt power when signals are received from Company's time clock. The contacting device shall be placed outside the building adjacent to the Company's metering equipment.

8. QUALIFIED SYSTEMS:

- A. Full Storage - Available to heating and cooling systems that are able to store energy during off-peak periods for use during on-peak periods.
- B. Partial Storage - COOLING: - Partial storage equipment size must be at least 25% less than conventional equipment size during on-peak time periods. Chiller equipment, cooling tower pumps and fans, and cool water circulating pumps qualify for the rate. Air handling equipment and hot water circulating pumps do not qualify. A penalty for non-compliance will be assessed if the partial storage limit is exceeded.
- C. Partial Storage - Heating - An Electric Boiler with off- peak storage capability qualifies when used in combination with water-loop heat pumps. The Electric Boiler size must be 25% less than conventional equipment during on-peak time periods. Water-loop heat pumps, air handling equipment, and circulating pumps do not qualify. A penalty for non-compliance will be assessed if the partial storage limit is exceeded.
- D. Geothermal Applications - Geothermal heat pumps, associated air handling equipment and circulating pumps qualify for the rate. Supplementary resistance heat associated with each heat pump or supplementary electric boiler heat associated with the geothermal system also qualify for the rate.

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8. QUALIFIED SYSTEMS: (continued) (N)

E. Partial Storage - WATER PUMPING AND SNOWMAKING: - Partial storage equipment size must be at least 50% less than conventional equipment size during on-peak time periods.

9. DESIGN REVIEW:

Detailed design information must accompany each Energy Storage Application including:

A. A 24-hour design day cooling, heating, water pumping, and/or snowmaking load profile using standard industry load calculation methods. (N)

B. A system description with operating Strategy. The Demand-Side Management Department shall review and approve the Energy Storage Application and proposed contract.

TAX ADJUSTMENT

Bills computed under the rate shall be adjusted by the applicable proportionate part of any impost, assessment, or charge imposed or levied by any governmental authority as a result of laws or ordinances enacted, which is assessed or levied on the basis of revenue for electric energy or service sold, and/or the volume of energy generated and sold.

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