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April 25, 2013

Mr. Jeff Derouen  
Executive Director  
Public Service Commission of Kentucky  
P.O. Box 615  
211 Sower Boulevard  
Frankfort, KY 40602-0615

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RECEIVED

APR 25 2013

PUBLIC SERVICE  
COMMISSION

***In The Matter Of: Tariff Filing of Big Rivers Electric Corporation To  
Revise And Implement Demand-Side Programs  
Case No. 2013-00099***

Dear Mr. Derouen:

Enclosed for filing are an original and ten (10) copies of Big Rivers Electric Corporation's response to the Commission Staff's initial request for information.

Sincerely,



Tyson Kamuf

cc: Billie J. Richert

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**BIG RIVERS ELECTRIC CORPORATION**

**TARIFF FILING OF  
BIG RIVERS ELECTRIC CORPORATION  
TO REVISE AND IMPLEMENT  
DEMAND-SIDE PROGRAMS**

**CASE NO. 2013-00099**

**VERIFICATION**

I, Russell L. Pogue, verify, state, and affirm that I prepared or supervised the preparation of the data responses filed with this Verification, and that those data responses are true and accurate to the best of my knowledge, information, and belief formed after a reasonable inquiry.

  
\_\_\_\_\_  
Russell L. Pogue


COMMONWEALTH OF KENTUCKY )  
COUNTY OF HENDERSON )

SUBSCRIBED AND SWORN TO before me by Russell L. Pogue on this the  
24<sup>th</sup> day of April, 2013.

  
\_\_\_\_\_  
Notary Public, Ky. State at Large  
My Commission Expires 1-12-17

ORIGINAL



Your Touchstone Energy® Cooperative 

COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION OF KENTUCKY

In the Matter of:

TARIFF FILING OF )  
BIG RIVERS ELECTRIC CORPORATION ) Case No. 2013-00099  
TO REVISE AND IMPLEMENT )  
DEMAND-SIDE PROGRAMS )

Responses to Commission Staff's  
Initial Request for Information  
dated April 17, 2013

FILED: April 25, 2013

ORIGINAL

**BIG RIVERS ELECTRIC CORPORATION**  
**TARIFF FILING OF**  
**BIG RIVERS ELECTRIC CORPORATION**  
**TO REVISE AND IMPLEMENT**  
**DEMAND-SIDE MANAGEMENT PROGRAMS**  
**CASE NO. 2013-00099**

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1 **Item 1) Refer to Big Rivers' proposed Standard Rate - RDS - Rural**  
2 **Delivery Service - DSM-05 Residential Weatherization Program, PSC No.**  
3 **24, First Revised Sheet No. 2.07 ("Proposed DSM-05 Residential**  
4 **Weatherization Program, First Revised Sheet 2.07"); and to Big Rivers'**  
5 **Commission-approved Standard Rate - RDS - Rural Delivery Service -**  
6 **DSM-05 Residential Weatherization Program, PSC No. 24, Original Sheet**  
7 **No. 2.07 ("Commission-approved DSM-05 Residential Weatherization**  
8 **Program"), dated April 17, 2012. The Commission-approved DSM-05**  
9 **Residential Weatherization Program, under "Member Incentives," states:**

10

11 **Big Rivers will provide 50% of the cost of residential**  
12 **weatherization improvements performed in accordance**  
13 **with this program. Big Rivers will also reimburse a**  
14 **Member's reasonable costs of promoting this program,**  
15 **if the promotional program and its costs are pre-**  
16 **approved by Big Rivers.**

17

18 **Big Rivers' Proposed DSM-05 Residential Weatherization Program, First**  
19 **Revised Sheet 2.07, under Member Incentives, states:**

20

21 **Big Rivers will reimburse the cost of an initial site**  
22 **visit, a diagnostic audit, and completed residential**  
23 **weatherization improvements performed in accordance**  
24 **with this program including project management**  
25 **costs. Big Rivers' total reimbursement shall not exceed**  
26 **the amounts outlined below in Terms and Conditions.**

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1           *Big Rivers will also reimburse a Member's reasonable*  
2           *costs of promoting this program, if the promotional*  
3           *program and its costs are pre-approved by Big Rivers.*  
4

5           *a. Explain why the language has been changed.*

6           *b. State how this language change will impact the members*  
7           *and participants.*  
8

9           **Response)**

10           a. The language was changed to reflect program changes designed to  
11           increase residential member participation. Under the previous  
12           program language less than five percent of members who  
13           participated in an initial site visit went forward with  
14           weatherization. The contractor reported that members who did  
15           weatherize proceeded primarily because of comfort issues rather  
16           than energy cost, and that the shared cost aspect of the program  
17           posed a significant financial barrier for those who did not  
18           weatherize.

19                       The new language removes the cost sharing barrier  
20           completely for all-electric homes. A very similar program for all-  
21           electric homes in Indiana requires no home-owner investment and  
22           shows a weatherization rate for homes that receive an initial site  
23           visit to be nearly sixty percent. The new program language also

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- 1                   removes financial barriers for low-income members in all-electric  
2                   homes.  
3                   b. The program no longer requires a residential member's payment  
4                   for the diagnostic audit, and it covers up to \$2,500 of  
5                   weatherization measures and management fees provided the  
6                   weatherization is completed.

7  
8  
9   **Witness)**   Russell L. Pogue  
10

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1 *Item 2) Refer to Big Rivers' proposed Standard Rate - RDS - Rural*  
2 *Delivery Service - DSM-05 Residential Weatherization Program, PSC No.*  
3 *24, First Revised Sheet No. 2.08 ("Proposed DSM-05 Residential*  
4 *Weatherization Program, First Revised Sheet 2.08"), under "Terms and*  
5 *Conditions." Paragraph 4 states that Big Rivers will pay the Contractor*  
6 *\$150 for the initial site visit. Paragraph 6 states:*

7

8 *The Contractor will collect \$100 from the Rural*  
9 *Customer for the diagnostic audit, which will be*  
10 *reimbursed when the project is complete. If the Rural*  
11 *Customer does not follow through with the*  
12 *weatherization process, the \$100 will be forfeited and*  
13 *Big Rivers will pay \$350 to the Contractor. Big Rivers*  
14 *will pay the Contractor \$450 for the diagnostic audit*  
15 *upon completion of the weatherization process.*

16

17 *a. Refer to the phrase, "The Contractor will collect \$100 from*  
18 *the Rural Customer for the diagnostic audit, which will be*  
19 *reimbursed when the project is complete."*

20 *(1) State whether Big Rivers will reimburse the customer the*  
21 *\$100. If yes, state whether this will occur when the*  
22 *project is complete.*

23 *(2) Explain what is involved in an initial site visit.*

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1                   (3) *Explain whether the contractor is required to provide*  
2                    *any documentation or report following an initial site*  
3                    *visit.*

4           b. *Refer to the phrase, "If the Rural Customer does not follow-*  
5            *through with the weatherization process, the \$100 will be*  
6            *forfeited and Big Rivers will pay \$350 to the Contractor."*

7                   (1) *Explain who forfeits the \$100.*

8                   (2) *If the customer does not follow through with the*  
9                    *weatherization process, explain whether Big Rivers*  
10                  *intends to collect the \$100 from the customer [which was*  
11                  *forfeited] and then pay the contractor \$350.*

12

13   **Response)**

14                   a.

15                   (1) The contractor will collect the \$100 from the residential  
16                    member, which the contractor will return to the member upon  
17                    completion of the weatherization.

18                   (2) The initial site visit helps determine what potential energy  
19                    improvements should be considered. Included in this visit are:

20                    i. Building evaluation concerning general health and safety  
21                    issues, and general heat waste opportunities for  
22                    improvement;

23                    ii. Audit report detailing opportunities for improvement;



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- 1                   iii. Client Education regarding energy improvements and  
2                         why they should be considered;
- 3                   iv. Client Education regarding rebates currently offered by  
4                         the co-op; and
- 5                   v. Installation of up to twenty Compact Fluorescent Lamps  
6                         (CFLs), two aerators, and one shower head.
- 7                   (3) The contractor provides a detailed initial site visit report to the  
8                         residential member and online documentation accessible by  
9                         the Member Cooperative and Big Rivers, which generalizes  
10                         energy savings opportunities and details health and safety  
11                         issues.
- 12                   b.
- 13                   (1) If the residential member participates in the diagnostic audit  
14                         process but does not follow through with the weatherization  
15                         process, the residential member will forfeit the \$100 that the  
16                         residential member paid to the contractor.
- 17                   (2) If the customer does not follow through with the  
18                         weatherization process, the \$100 that the residential member  
19                         paid to the contractor is retained by the contractor, and Big  
20                         Rivers pays the contractor the balance of \$350 for the  
21                         diagnostic audit.
- 22
- 23

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1

2 **Witness)** Russell L. Pogue

3

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1 *Item 3) Refer to Big Rivers' Proposed DSM-05 Residential*  
2 *Weatherization Program, First Revised Sheet 2.08, under "Terms and*  
3 *Conditions." Paragraph 7 states, "Big Rivers will pay the Contractor up to*  
4 *\$2,500 for implemented residential weatherization measures including*  
5 *project management." Explain whether \$2,500 is the maximum amount*  
6 *Big Rivers anticipates it will pay under this provision, or if the maximum*  
7 *amount is \$2,500 plus additional fees for project management.*

8

9 **Response)** The project management fee is included in the \$2,500. Therefore the  
10 maximum amount Big Rivers will pay under this provision is \$2,500.

11

12

13 **Witness)** Russell L. Pogue

14

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1 **Item 4)**     *Refer to Big Rivers' proposed Standard Rate - RDS - Rural*  
2 *Delivery Service - DSM-05 Residential Weatherization Program, PSC No.*  
3 *24, First Revised Sheet Nos. 2.07 and 2.08.*

4

5             *a. Explain whether the changes in the tariff language will*  
6             *impact the cost-effectiveness of the program.*

7             *b. State whether this will change the budgeted amount for*  
8             *this program and, if so, provide the revised amount.*

9

10 **Response)**

11             a. The Total Resource Cost (TRC) of the weatherization program  
12             overall is expected to increase from 1.74 to 2.00 as a result of  
13             these changes. The program costs per weatherization are  
14             expected to decrease with the expected increase in participation.

15             b. The budget was increased from \$200,000 in 2012 to \$400,000 in  
16             2013 as a result of low spending in the initial year. Budgeting for  
17             2014 will depend primarily on the program performance in 2013.

18

19

20 **Witness)**     Russell L. Pogue

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1   Item 5)    *Refer to Big Rivers' proposed Standard Rate - RDS - Rural*  
2   *Delivery Service - DSM-07 Residential and Commercial HVAC &*  
3   *Refrigeration Tune-up Program ("Proposed DSM-07 Residential and*  
4   *Commercial HVAC & Refrigeration Tune-Up Program"), PSC No. 24, First*  
5   *Revised Sheet No. 2.11.*

6

7           a. *In Big Rivers' Commission-approved Standard Rate - RDS -*  
8           *Rural Delivery Service - DSM-07 Residential and*  
9           *Commercial HVAC & Refrigeration Tune-up Program, PSC*  
10          *No. 24, Original Sheet No. 2.11, dated April 17, 2012, under*  
11          *"Member Incentives," the tariff states, "The incentive is*  
12          *available for up to three residential units per location, and*  
13          *up to five commercial units per location." Explain why this*  
14          *sentence was deleted from the "Member Incentives" of Big*  
15          *Rivers' Proposed DSM-07 Residential and Commercial*  
16          *HVAC & Refrigeration Tune-up Program.*

17          b. *Explain whether Big Rivers believes that removing the*  
18          *limits, three residential units per location and five*  
19          *commercial units per location, that are eligible for*  
20          *reimbursement under this program will improve the*  
21          *program.*

22          c. *Explain how the changes in the tariff language will impact*  
23          *the cost-effectiveness of the program.*

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1           *d. State whether this will change the budgeted amount for*  
2           *this program and, if so, provide the revised amount.*

3  
4   **Response)**

- 5           a. Big Rivers' Member Cooperatives participating in the program  
6           noted that most large commercial accounts such as schools, multi-  
7           family housing, and retail commercial customers had significantly  
8           more than five HVAC units, and a number of residential  
9           customers had more than three HVAC units and should be able to  
10          participate fully. These retail customers have requested the  
11          removal of the current tariff restrictions so that they might be  
12          eligible for the program.
- 13          b. Big Rivers believes these program changes will improve  
14          participation in the program by large commercial and residential  
15          members. This belief is based on Big Rivers' Member  
16          Cooperatives' observations outlined in the response to sub-part a.  
17          above.
- 18          c. The program cost-effectiveness will not be affected by the removal  
19          of this restriction, while program participation will increase.
- 20          d. The budgeted amount for this program did not increase for 2013  
21          because participation was significantly lower than expected in  
22          2012.

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1

2 **Witness)** Russell L. Pogue

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1 **Item 6)** *Refer to Big Rivers' proposed Standard Rate - RDS - Rural*  
2 *Delivery Service - DSM-10 Residential Weatherization Program - Primary*  
3 *Heating Source Non- Electric ("Proposed DSM-10 Residential*  
4 *Weatherization Program - Primary Heating Source Non-Electric"), PSC*  
5 *No. 24, First Revised Sheet Nos. 2.16 and 2.17.*

6  
7 *a. In Big Rivers' Commission-approved Standard Rate - RDS -*  
8 *Rural Delivery Service - DSM-10 Residential*  
9 *Weatherization Program - Primary Heating Source Non-*  
10 *Electric, PSC No. 24, Original Sheet No. 2.16, dated May 21,*  
11 *2012, under "Member Incentives," states:*

12  
13 *Big Rivers will provide 25% of the cost of*  
14 *residential weatherization improvements*  
15 *performed in accordance with this*  
16 *program. Big Rivers will also reimburse a*  
17 *Member's reasonable costs of promoting*  
18 *this program, if the promotional program*  
19 *and its costs are pre-approved by Big*  
20 *Rivers.*

21  
22 *Big Rivers' Proposed DSM-10 Residential Weatherization*  
23 *Program - Primary Heating Source Non-Electric, PSC No.*  
24 *24, First Revised Sheet No. 2.16, under "Member Incentives,"*  
25 *states:*



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*Big Rivers will reimburse the cost of an initial site visit, a portion of the diagnostic audit, and completed residential weatherization improvements performed in accordance with this program including management costs. Big Rivers' total reimbursement shall not exceed the amounts outlined below in Terms and Conditions. Big Rivers will also reimburse a Member's reasonable costs of promoting this program, if the promotional program and its costs are pre-approved by Big Rivers.*

*Explain why language under the "Member Incentives" was changed and how the change in language will impact participants.*

*b. In Big Rivers' Proposed DSM-10 Residential Weatherization Program - Primary Heating Source Non-Electric, PSC No. 24, First Revised Sheet No. 2.17, under "Terms & Conditions," paragraph 6, it states, "Big Rivers will pay the Contractor \$225 upon completion of the diagnostic audit. The Rural Customer will pay \$225 to the Contractor for the diagnostic audit." Explain why this paragraph was added*

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1                    *to the "Term & Conditions" and state whether the total*  
2                    *amount to be paid to a contractor is \$500.*

3

4        **Response)**

5

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- a. The language was changed to improve program participation while maintaining the program's cost effectiveness. Participants will be required to pay 50% of the diagnostic audit versus 25% in the previous language. Weatherization costs for measures and project management will be reimbursed 100% up to \$1,000 *versus* 25% of weatherization and project management without a cap in the previous language. Big Rivers anticipates that the lower participant cost will reduce financial barriers to residential weatherization for non-electrically heated homes.
- b. The paragraph was added to describe the cost to the residential member and Big Rivers for the diagnostic audit. The \$225 payment from the residential member and the \$225 payment from Big Rivers would result in a total cost of the diagnostic audit of \$450 paid to the contractor.

**Witness)**     Russell L. Pogue

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1 **Item 7)** *In Big Rivers' Proposed DSM-10 Residential Weatherization*  
2 *Program - Primary Heating Source Non-Electric, PSC No. 24, First*  
3 *Revised Sheet No. 2.17, under "Terms & Conditions," paragraph 7, it*  
4 *states, "Big Rivers will pay the Contractor up to \$1,000 for implemented*  
5 *residential weatherization measures including project management."*

6

7 *a. Explain why this paragraph was added to the "Term &*  
8 *Conditions."*

9 *b. Explain whether \$1,000 is the maximum amount Big Rivers*  
10 *anticipates paying the Contractor under this provision, or*  
11 *whether the maximum amount is \$1,000 plus additional*  
12 *fees for project management.*

13

14 **Response)**

15 a. The paragraph was added to specify Big Rivers' participation level  
16 in the cost of weatherization measures.

17 b. The \$1,000 maximum payment for weatherization measures  
18 includes project management fees.

19

20

21 **Witness)** Russell L. Pogue

22

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1 **Item 8) Refer to Big Rivers' newly-proposed Standard Rate - RDS -**  
2 **Rural Delivery Service - DSM-11 Commercial High Efficiency Heating,**  
3 **Ventilation and Air Conditioning ("HVAC") Program, PSC No. 24,**  
4 **Original Sheet Nos. 2.18 and 2.19.**

5

6 **a. State why this program is now being offered and how the**  
7 **level of member incentive(s) was determined.**

8 **b. Provide the proposed budget amount for this program.**

9 **c. Provide the cost-effectiveness test results for this program.**

10 **d. Explain why the title of the program on Original Sheet No.**  
11 **2.18 is DSM-11 Commercial High Efficiency Heating,**  
12 **Ventilation and Air Conditioning ("HVAC") Program, but**  
13 **on Original Sheet No. 2.19 it is DSM-11 Residential High**  
14 **Efficiency Heating, Ventilation and Air Conditioning**  
15 **("HVAC") Program.**

16

17 **Response)**

18 **a. Big Rivers' Demand-Side Management/Energy Efficiency**  
19 **("DSM/EE") Working Group, composed of personnel from Big**  
20 **Rivers and its Member Cooperatives, felt commercial HVAC**  
21 **presented a significant opportunity for energy and demand**  
22 **savings that the current programs were not addressing. The**  
23 **working group discussed a number of incentive levels ranging**

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1 from \$25 per ton to \$100 per ton for high efficiency commercial  
2 units. Based on direct contact with commercial customers.  
3 DSM/EE Working Group members determined that \$75 per ton  
4 would motivate members to investigate and select the higher  
5 efficiency models versus contractor grade.

6 b. The proposed 2013 budget is \$50,000.

7 c. The California Benefit/Cost Ratios are as follows:  
8

**Big Rivers Electric Corporation**  
**DSM-11 Commercial High Efficiency Heating, Ventilation**  
**and Air Conditioning ("HVAC") Program**  
**California Benefit/Cost Ratios<sup>1</sup>**

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TRC	1.28
UCT	1.90
PT	1.76
SocT	1.28
RIM	0.80

9

10 d. The title of the program on the Original Sheet No. 2.19 should  
11 read DSM-11 Commercial High Efficiency Heating Ventilation  
12 and Air Conditioning ("HVAC").  
13

13

14 **Witness)** Russell L. Pogue

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<sup>1</sup> More information about the California Test may be found in the DSM Potential Study provided as Appendix B to Big Rivers' Integrated Resource Plan filed on November 15, 2010, in Case No. 2010-00443.

**BIG RIVERS ELECTRIC CORPORATION**  
**TARIFF FILING OF**  
**BIG RIVERS ELECTRIC CORPORATION**  
**TO REVISE AND IMPLEMENT**  
**DEMAND-SIDE MANAGEMENT PROGRAMS**  
**CASE NO. 2013-00099**

**Response to Commission Staff's**  
**Initial Request for Information**  
**dated April 17, 2013**

**April 25, 2013**

1 **Item 9)**     *Refer to Big Rivers' newly-proposed Standard Rate - RDS –*  
2 *Rural Delivery Service - DSM-12 High Efficiency Outdoor Lighting*  
3 *Program, PSC No. 24, Original Sheet No. 2.20.*

- 4
- 5             *a. State why this program is now being offered and how the*  
6             *level of member incentive(s) was determined.*
- 7             *b. Provide the proposed budget amount for this program.*
- 8             *c. Provide the cost-effectiveness tests results for this program.*
- 9

10 **Response)**

- 11             a. The program is being proposed to incent Member Cooperatives to  
12             invest in high-efficiency and long-life outdoor lighting  
13             technologies being developed for this market. With the  
14             elimination of long-life Mercury Vapor lamps as an option, current  
15             proven lamp technologies can require trade-offs in either lamp life  
16             or member satisfaction. The incentive amount was chosen by the  
17             DSM/EE Working Group as an appropriate incentive for Member  
18             Cooperatives to investigate and deploy new outdoor lighting  
19             technologies.
- 20             b. The 2013 proposed budget is \$50,000.
- 21             c. The California Benefit/Cost ratios are shown in the table on the  
22             following page.
- 23
- 24

**BIG RIVERS ELECTRIC CORPORATION**  
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**April 25, 2013**

1

**Big Rivers Electric Corporation**  
**DSM-12 High Efficiency Outdoor Lighting Program**  
**California Benefit/Cost Ratios<sup>2</sup>**

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TRC	1.35 – 2.85
UCT	1.35 – 6.11
PT	1.64 – 3.80
SocT	1.35 – 2.85
RIM	0.47 – 0.65

2

3

4 **Witness)** Russell L. Pogue

5

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<sup>2</sup> Depending on lamp selected. Also, more information about the California Test may be found in the DSM Potential Study provided as Appendix B to Big Rivers' Integrated Resource Plan filed on November 15, 2010, in Case No. 2010-00443.

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**April 25, 2013**

1 **Item 10)** *In Case No. 2011-00036,<sup>3</sup> the Demand-Side Management*  
2 *("DSM") budget of \$1 million was approved, and in the current rate case<sup>4</sup>*  
3 *the same level of DSM budget is requested. Provide, by tariff and*  
4 *program, the amount of incentive and program promotion.*

5  
6 **Response)** Please see the attached table entitled 'Big Rivers 2012 DSM/Energy  
7 Efficiency Program Targets' for the incentive amounts. Big Rivers filed this table  
8 as part of its semi-annual DSM/EE Report provided to the Commission pursuant  
9 to Ordering Paragraph No. 9 of the Commission's Order  
10 dated November 17, 2011, in Case No. 2011-00036.

11 The 2012 budget of \$1,000,000 was split into two segments. The first  
12 segment addresses incentives or direct payments to Members when a measure is  
13 implemented. The total incentive budget was \$800,000. The second segment  
14 involves the additional \$200,000 set aside for promotional and regulatory  
15 administrative costs associated with the program.

16 Please see the table provided in Big Rivers' response to Item 11 below  
17 for the mapping of the DSM tariffs to programs.

18  
19 **Witness)** Russell L. Pogue

20

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<sup>3</sup> Case No. 2011-00036, Application of Big Rivers Electric Corporation for a General Adjustment in Rates (Ky. PSC Nov. 17, 2011).

<sup>4</sup> Case No. 2012-00535, Application of Big Rivers Electric Corporation for an Adjustment of Rates (filed Jan 15, 2013).



# Big Rivers 2012 DSM/Energy Efficiency Program Targets

<b>Residential Programs</b>								
	Annual kWh Savings Per Unit	Winter kW Savings Per Unit	Summer kW Savings Per Unit	Unit Quantity	Total Annual kWh Savings	Total Winter kW Savings	Total Summer kW Savings	Target Spend 2012
<b>Residential Lighting Program</b>								
CFL bulbs	31	0.007	0.003	57,143	1,752,004	408.0	179.2	\$100,000
<b>Residential Efficient Appliances</b>								
Clothes Washer Rebate	224	0.007	0.026	400	89,600	2.8	10.4	\$40,000
Energy Star Refrigerator + Recycling	1,084	0.076	0.089	400	433,600	30.4	35.6	\$40,000
<b>HVAC Program</b>								
Dual Fuel	3,448	7.066	0.146	50	172,400	353.3	7.3	\$25,000
Air Source Heat Pump	692	0.000	0.146	35	24,220	0.0	5.1	\$7,000
Geothermal	3,658	4.453	0.365	24	87,792	106.9	8.8	\$18,000
<b>Weatherization Program</b>								
Stick-Built Home	6,980	4.950	0.890	75	523,500	371.3	66.8	\$150,000
Manufactured Home	4,680	2.200	0.300	25	117,000	55.0	7.5	\$50,000
<b>New Construction</b>								
Gas Heat	2,435	0.260	0.580	48	116,880	12.5	27.8	\$36,000
Air Source Heat Pump	4,922	2.700	0.580	20	98,430	54.0	11.6	\$20,000
Dual Fuel Heat Pump (w/ Gas)	8,370	9.766	0.580	20	167,390	195.3	11.6	\$24,000
Geothermal Heat Pump	8,580	7.150	0.799	10	85,795	71.5	8.0	\$20,000
<b>Tune-Up</b>								
HVAC Tune-Up	636	0.000	0.304	1,320	839,520	0.0	400.9	\$33,000
<b>Commercial/Industrial (C/I) Programs</b>								
	Annual kWh Savings Per \$	Winter kW Savings Per \$	Summer kW Savings Per \$	Total kW Reduced	Total Annual kWh Savings	Total Winter kW Savings	Total Summer kW Savings	Target Spend 2012
<b>C&amp;I Lighting</b>								
Lighting Projects	12	0.0029	0.0027	543	2,219,784	543.0	507.3	\$190,000
<b>C&amp;I Products</b>								
Misc. Efficient Projects	7	0.0005	0.0029	86	213,452	16.1	86.0	\$30,000
<b>Tune-Up</b>								
HVAC Tune-Up*	5,268	0.000	1.200	340	1,791,120	0.0	408.0	\$17,000.00
* Assumed 6 tons/unit								
<b>Total DSM Program Savings:</b>					<b>8,732,487</b>	<b>2,220.1</b>	<b>1,781.8</b>	<b>\$800,000</b>

Big Rivers Electric Corporation  
Demand Side Management ("DSM") Report  
January 31, 2013

**BIG RIVERS ELECTRIC CORPORATION**  
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**TO REVISE AND IMPLEMENT**  
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**dated April 17, 2013**

**April 25, 2013**

1 **Item 11)** *Provide, by DSM tariff, program, and member, the actual level*  
2 *of DSM incentive paid by Big Rivers in 2012.*

3

4 **Response)** Please see the attached table.

5

6

7 **Witness)** Russell L. Pogue

8

## 2012 Big Rivers Energy Efficiency Spend by Member Cooperative

	Program Description	Kenergy Corp	2012 Spend	
			Meade County RECC	Jackson Purchase Energy
DSM-01	Residential Lighting Program (CFL Bulbs)	\$52,006	\$25,105	\$24,803
	Residential Efficient Appliances (Energy Star)			
DSM-02	Washing Machine	33,900	19,500	2,900
DSM-03	Refrigerator	26,300	10,900	1,100
DSM-04	Energy Star Heating, Ventilation and AC	30,850	6,950	3,650
DSM-05&10	Residential Weatherization Program	12,419	39,492	0
DSM-06	Residential Touchstone Energy New Construction	52,250	4,000	0
DSM-07	HVAC Tune-Up Program	9,675	325	350
DSM-08	Commercial/Industrial Efficient Lighting Program	122,150	23,678	1,285
DSM-09	General Commercial/Industrial Efficiency Program	9,495	0	0
	Promotion	51,698	23,314	0
	<b>Total</b>	<b>\$400,743</b>	<b>\$153,263</b>	<b>\$34,088</b>