Exhibit No.:	
Issues:	DSM Cost-Recovery and Program operation
Witness:	Adam Bickford
Sponsoring Party:	Missouri Department of
	Natural Resources –
	Division of Energy
Type of Exhibit:	Direct Testimony
Case No.:	ER-2011-0004

DIRECT TESTIMONY

OF

ADAM BICKFORD

MISSOURI DEPARTMENT OF NATURAL RESOURCES

DIVISION OF ENERGY

February 23, 2011

BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI

EMPIRE DISTRICT ELECTRIC COMPANY

RATE CASE

CASE NO. ER-2011-0004

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1 2		I. Introduction
3	Q.	Please state your name and business address.
4	Α.	My name is Adam Bickford. My business address is Missouri Department of
5		Natural Resources, Division of Energy, 1011 Riverside Drive, P.O. Box 176,
6		Jefferson City, Missouri 65102-0176.
7		
8	Q.	Please describe your educational background and employment
9		experience.
10	Α.	I began work with the Missouri Department of Natural Resources Energy
11		Center in August, 2009. In my current position I am a Research Analyst. Prior
12		to working with Missouri Department of Natural Resources I was employed as
13		a program evaluator by Optimal Solutions Group, LLC in Hyattsville, Maryland;
14		the University of Missouri Extension Office of Social and Economic Data
15		Analysis in Columbia, Missouri; and the Smithsonian Institution in Washington
16		D.C. In these positions my responsibilities included the design and execution
17		of evaluation projects in the K-12 education and arts domains.
18		I received my B.A. degree in Sociology from the University of California,
19		Berkeley. I hold a Masters of Arts degree and a Doctor of Philosophy degree
20		in Sociology from the University of Chicago.
21		
22	Q.	On whose behalf are you testifying?
23	Α.	I am testifying on behalf of the Missouri Department of Natural Resources
24		("MDNR"), an intervenor in these proceedings.
25	Q.	Have you previously testified before the Commission on behalf of the

26 Missouri Department of Natural Resources?

1	A. Yes, I have. I testified on behalf of MDNR in the following cases before the
2	Commission:
3	Union Electric Company, d/b/a AmerenUE rate case, ER-2010-0036;
4	Kansas City Power and Light rate case, ER-2010-0355; and
5	KCP&L-Greater Missouri Operations rate case, ER-2010-0356.
6	
7 8	II. Purpose of Testimony
9	Q. What is the purpose of your direct testimony in these proceedings?
10	A. The purpose of my testimony is to discuss Empire District Electric Company's
11	(Empire) Demand-Side Management portfolio and its operation in the 2009 and
12	2010 program years. Additionally, I will discuss the structure of Empire's
13	Customer Program Collaborative (CPC), and Empire's current regulatory asset
14	account.
15 16 17 18	III. Demand Side Management Portfolio
19	Q. When was Empire's DSM portfolio started?
20	A. Empire began planning and implementing its Demand-Side Management
21	(DSM) portfolio as part of the experimental Regulatory Plan authorized in Case
22	No. EO-2005-0263 (the "Regulatory Plan").
23	Q. How is the scope of Empire's DSM portfolio determined?
24	A. Empire's DSM portfolio is limited to the resources approved by its Customer
25	Program Collaborative ("CPC") pursuant to the Stipulation and Agreement
26	approved by the Missouri Public Service Commission ("Commission") in Case
27	No. EO-2005-0263 ¹ . In the Stipulation and Agreement, the parties agreed that

¹ Missouri Public Service Commission, Case No. EO-2005-0263, *In the Matter of The Empire District Electric Company's Application for Certificate of Public Convenience and Necessity and Approval of an Experimental Regulatory Plan Related to Generation Plant,* Order Approving Stipulation and Agreement, Issued August 12, 2005.

1	the "Staff, Public Counsel, MDNR, Empire and any other interested non-IOU
2	Signatory Party will serve as a collaborative ("Customer Program
3	Collaborative" or "CPC") that will make decisions pertaining to the
4	development, implementation, monitoring and evaluation of Empire's
5	Affordability, Energy Efficiency and Demand Response Programs (Customer
6	Programs)." Because of this agreement, Empire must seek approval of the
7	CPC before implementing a DSM program.
8	

9 Q. What programs are included in Empire's DSM portfolio?

A. When it started in 2005, the Empire DSM portfolio consisted of eight programs.
 One additional program was added in 2009. These programs are organized
 into two categories: (1) residential programs and (2) commercial and industrial
 programs. Empire's programs are listed in the table below and in Schedule
 AB2011-1.

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		Program
Program Type	Program Name	Approval Date
Residential	Low Income Weatherization	September 2006
Residential	Low Income New Homes	April 2007
Residential	High Efficiency Residential Central	June 2007
	Air Conditioning Rebate Program	
Residential	Residential Lighting (CFL)	April 2010
Residential	Energy Star New Homes	April 2009
Residential	Home Performance with Energy Star	August 2009
Commercial and Industrial	Missouri Commercial and Industrial	May 2007
	Facility Rebate Program	
Commercial and Industrial	Building Operator Certification	February 2008
Commercial and Industrial	Interruptible Tariff	February 2009

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17 Empire's DSM portfolio currently includes the following programs:

Low-Income Weatherization Program is designed to provide energy
 education and weatherization assistance to lower income customers. This
 Program is intended to assist customers through conservation, education

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and weatherization in reducing their use of energy and to reduce the level
 of bad debts experienced by Empire.²

Low-Income New Home Program is designed to promote energy efficiency in affordable new homes for low income customers served under Empire's Residential Service Schedule RS. This Program is intended as a partnership between Empire and non-profit organizations, including Habitat for Humanity, and local government community development organizations.³

- High Efficiency Residential Central Air Conditioning Rebate Program
 is designed to encourage more effective utilization of electric energy
 through the use of more energy efficient residential central air conditioning
 equipment and heat pumps by providing a financial incentive to customers
 in the form of a rebate.⁴
- **Residential CFL Program** is designed to encourage the replacement of less efficient energy consuming lights by providing Energy Star® compact fluorescent light (CFL) bulbs to certain residential customers.⁵ Initially this program was administered by the Midwest Energy Efficiency Alliance (MEEA), but MEEA has since discontinued its program. In its place, in 2010 Empire sent packages of CFL bulbs to its residential customers in the Branson area.
- Energy Star New Homes is designed to encourage the construction of homes to meet the ENERGY STAR® Homes guidelines.⁶
- Home Performance with ENERGY STAR® is designed to increase the
 awareness of the opportunities for benefits to existing homes through audits
 which lead to improvements ranging from improved levels of insulation to
 decreased air leakage.⁷

Missouri Commercial and Industrial Facility Rebate Program designed to encourage more effective utilization of electric energy through energy efficiency improvements in the building shell or through the replacement of inefficient electrical equipment with efficient electrical equipment, by providing a rebate for a portion of the costs of the improvements and for energy audit and the related upgrades that improve efficient use of electricity.⁸

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² *Ibid*., page 8c.

³ *Ibid*., page 8d.

⁴ *Ibid.*, page 8e – 8f.

⁵ *Ibid.*, page 8b.

⁶ Empire District Electric Company P.S.C. MO No. 5, Section 4, page 8h.

⁷ *Ibid*., page 8i – 8j.

⁸ Empire District Electric Company P.S.C. MO No. 5, Section 4, page 8a – 8a.1.

Building Operator Certification ("BOC") is designed to encourage building operator certification through the Northwest Energy Efficiency Council's BOC curriculum. This curriculum consists of Level 1 and Level 2 programs which are geared toward the operators of institutional, commercial, and industrial facilities. Empire offers this program to Company's commercial and industrial customers. This group of customers excludes the Large Power ("LP") class.⁹

- Interruptible Tariff is a direct demand response program for all industrial
 customers, including customers in the Large Power ("LP") class.¹⁰
- 12 These programs tend to focus on building improvements. Two programs address new construction (e.g., Low-Income New Homes and 13 14 Energy Star Homes), two programs address residential retrofits (Low-Income Weatherization and Home Performance with Energy Star) and two of the 15 commercial-industrial programs address building operations. The other 16 programs are rebate programs for residential equipment purchases for central 17 air conditioning units and for compact florescent light bulbs (CFL), and a 18 19 demand response program for industrial customers. Schedule AB2011-2 20 contains the implementation schedule for each program between October, 21 2006 and April 2014. Programs were all designed to operate for five years; however, Empire implemented the various programs at different times, so 22 23 program impact was staggered over the five year period of the Regulatory 24 Plan. As each DSM program was designed and approved by the CPC, Empire 25 submitted proposed tariff sheets to the Commission for approval to add each DSM program to its tariff. Empire will fulfill the five year commitment to fund 26 the Residential Weatherization Program in September 2011. Two programs, 27 28 the Low Income New Home Program and the High Efficiency Central Air 29 Condition Program, will complete five years in 2012. By August 2014, all of the programs will have completed the five program years. 30

⁹*Ibid*., page 8g.

¹⁰ *Ibid*, Revised sheet 4

Q. Does MDNR recommend that Empire continue its DSM Programs after the intended five years of the Regulatory Plan?

A. The programs should be evaluated and, if cost-effective, should be continued.
DSM program success takes time. It is generally recognized that at least a
year, and sometimes more, is spent ramping up a program before it begins to
be truly beneficial to consumers and energy savings begin in earnest. Empire
should make the long-term commitment to support its DSM portfolio.

8 Q. How would you describe Empire's DSM portfolio in light of the DSM

9 portfolios of the other investor-owned electric utilities in the state?

10 A. MDNR monitors the DSM portfolios of each of the four investor-owned electric

11 utilities in Missouri, KCP&L, KCP&L-Greater Missouri Operations (GMO),

12 Ameren Missouri and Empire by participating in each utility's DSM collaborative

or advisory group. Of these Empire's DSM portfolio has the fewest programs,

14 sponsoring nine programs compared to 14 for KCP&L and KCP&L-GMO and

15 16 for Ameren Missouri. Additionally, Empire's portfolio has been rolled out

16 more slowly than the KCP&L and the Ameren portfolios.

17 **Q. Please elaborate.**

A. KCP&L's DSM portfolio started in the same year as Empire's. Both Empire's and KCP&L's portfolios were begun as part of Regulatory Plans approved in 2005 as part of the construction of the latan 2 coal plant.¹¹ During the construction period of the plan KCP&L designed and implemented a comprehensive DSM portfolio consisting of multiple programs addressing all segments of its customer base, and met its energy savings goals. Ameren Missouri's DSM portfolio was established in its 2007 Integrated Resource Plan

25 (IRP). In the three years of its plan Ameren has implemented a similarly

¹¹ Empire has an agreement with KCP&L to purchase a preferred capacity of 150 MW and a minimum allocation of 100 MW ownership in latan 2.

comprehensive DSM portfolio. Both KCP&L and Ameren designed and
 implemented their programs in a relatively short period of time, and each utility
 has had to substantially redesign individual programs to account for

4 unexpected problems with contractors and trade allies.

In contrast, Empire has implemented its portfolio more slowly. Despite
 being at the end of a five-year Regulatory Plan, the majority of the programs
 have been fully operational for fewer than three years.

Q. How would you characterize the level of participation and spending in
 Empire's DSM portfolio budget?

A. The information about program participation, budget, and spending levels has 10 11 been taken from Empire's Customer Program Collaborative (CPC) December 12 3, 2010 report. As seen in Schedule AB2011-1, in 2009, the last full year that participation levels and budget amounts were available, Empire's level of 13 program spending was 67.5% of its 2009 program budget. During 2009, 14 15 Empire budgeted \$1,316,466 for its DSM portfolio, but spent \$888,525. The YTD expenditures for 2010 were about the same magnitude, 63.6%. The 16 company budgeted \$574,217 and spent \$365,301. 17

18 Calculating the number of participants in 2009 and 2010 is complicated by the participation information from the Residential CFL program. In the 2009 19 20 accounting of participants, Empire has presented the number of CFL light bulbs distributed, rather than the number of people receiving light bulbs. Because of 21 22 this, the participation data described here does not include the Residential CFL 23 data. In 2009, Empire expected 1,060 participants, while 641 customers actually participated in the various programs, for a participation rate of 60.5%. 24 25 For the YTD information from 2010, the participation rate was 58.3%.

26 Empire shares many of the program designs with other utilities, but does 27 not show comparable levels of spending or customer participation. MDNR's

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1 review of other utilities' experiences implementing their DSM portfolios, in cases ER-2010-0355 (KCP&L), ER-2010-0356 (KCP&L--GMO) and ER-2011-2 3 0028 (Ameren Missouri), suggests that these utilities have been able to encourage customers to participate in their energy efficiency programs. 4 Q. How would you characterize the level of energy savings attributed to 5 6 Empire's DSM portfolio? 7 A. It is very difficult to assess the level of savings due to Empire's DSM portfolio. 8 Empire does not regularly present energy or demand savings estimates in its collaborative meetings. As of December, 2010 only the Low Income 9 Weatherization, the Central Air Conditioner and the Building Operator 10 Certification programs have produced process or impact evaluations. 11 12 Q. Has Empire met the projected savings goals for its DSM portfolio? 13 A. It appears that Empire is not approaching the level of program participation or 14 spending that Empire has proposed in its document provided by the CPC.

Empire is in a unique service territory, and it is the smallest of the four investorowned utilities in the state. Nevertheless, it does not appear that Empire has made much progress with the DSM portfolio over the five years of its Regulatory Plan.

In the five years since the establishment of Empire's Regulatory Plan, 19 20 the policy context surrounding energy efficiency in Missouri has developed quite a bit. There are state policy goals embodied in legislation such as the 21 22 MEEIA, and a developing consensus that pursuing savings goals through 23 demand side management and energy efficiency programs are worthwhile endeavors. This developing consensus includes considerations for cost 24 25 recovery, performance incentives, and an understanding of the need for a sustained program effort to guarantee that the public realizes the benefits of 26 27 energy savings.

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2 Q. Does MDNR believe Empire's DSM portfolio is adequate? A. No. Empire should meet the savings goal established in the Missouri Energy 3 Efficiency Investment Act (MEEIA)¹², i.e., "to implement commission-approved 4 demand-side programs proposed pursuant to this section with a goal of 5 achieving all cost-effective demand-side savings." The proposed MEEIA rules 6 7 present a series of interim savings goals that utilities should use, as well as 8 potential studies, to demonstrate progress towards achieving the intent of MEEIA (see 4 CSR 240-20.094(2)(A), and 4 CSR 240-20.094(2)(B)). Empire 9 is still required to satisfy the law, regardless of whether final rules have been 10 11 approved, and should be directed by the Commission to design and implement 12 a portfolio of programs that meet its primary policy goal. 13 Q. How has the policy context surrounding energy efficiency changed since the beginning of Empire's Regulatory Plan? 14 A. The Missouri Legislature passed MEEIA in 2009. The language of the law 15 establishes a policy goal for electric utilities "to implement commission-16 approved demand-side programs proposed pursuant to this section with a goal 17 18 of achieving all cost-effective demand-side savings". This law also allows utilities to propose a methodology to achieve timely cost recovery for program 19 expenses and to receive a performance incentive for sustained program 20 21 performance. 22 The Commission is promulgating rules that will provide a process for 23 seeking approval of a DSM portfolio and an accompanying demand-side programs investment mechanism ("DSIM"). The DSIM will be a utility's plan to 24 recover program costs, receive incentives for high performance, and possibly 25 26 recover lost revenues. These rules, however, may not be in effect for several

¹² Section 393.1124, RSMo, Paragraph 4.

1		months. Empire should not wait for final rules to be adopted before
2		implementing a more comprehensive and aggressive DSM portfolio and
3		savings goals.
4 5 6	Ī	V. Recommended Changes to Empire's Collaborative Structure and DSM Portfolio
7		
8	Q.	Empire's Customer Program Collaborative (CPC) is a "voting
9		collaborative." Does MDNR have any recommendations for revising the
10		structure of this collaborative?
11	Α.	Empire's Customer Program Collaborative (CPC) was established by Case No.
12		EO-2005-0263. The CPC is scheduled to end with the conclusion of its
13		Regulatory Plan. MDNR recommends that the CPC continue beyond the
14		completion of Empire's Regulatory Plan, but that its structure change from a
15		voting collaborative to an advisory collaborative. MDNR's experience with
16		DSM collaborative groups over the past five years supports the value of
17		advisory groups over voting groups. MDNR's experience shows that Advisory
18		collaborative groups facilitate better communication between a utility and the
19		members of the non-utility stakeholder groups.
20	Q.	Addressing issues of cost recovery, how does Empire currently recover
21		the costs of its DSM portfolio?
22	Α.	Under the terms of its Regulatory Plan, Empire books its program costs into a
23		regulatory asset account. The regulatory asset account is amortized over ten
24		(10) years.
25	Q.	Does MDNR have a preferred method of cost recovery?
26	Α.	MDNR has been an advocate for expensing of DSM program costs as a
27		method for encouraging DSM program investments and achieving savings from

1		such investments. In recent rate cases, MDNR has recommended expensing
2		program costs and supported utilities' requests to shorten the term of their
3		regulatory asset accounts for program expenses incurred after the conclusion
4		of their current rate cases.
5	Q.	Does MDNR have any recommendations about individual programs in
6		Empire's DSM portfolio?
7	Α.	Yes. According to Schedule AB2011-2, the tariffs authorizing Empire's Low-
8		income Weatherization program are scheduled to expire in 2011. Empire
9		should re-file the tariff authorizing this program to continue without a disruption
10		in services at least at the current levels of funding and in collaboration with the
11		CPC, determine whether additional funding is needed.
12		The State of Missouri received additional funding in 2009 for the Federal
13		Low-Income Weatherization Assistance Program via the American Recovery
14		and Reinvestment Act ("ARRA"). Missouri was awarded \$128 million dollars
15		for low income weatherization to be used by the end of March 2012. This
16		additional funding is allowing the weatherization efforts for low income citizens
17		to provide much needed improvements to many more residences.
18		Despite this funding large increase in funding for low-income
19		weatherization, Schedule AB2011-1 shows that, for 2010, Empire spent 70.4%
20		of its budgeted funds, indicating that the Community Action Agencies
21		implementing Empire's Weatherization program are relying on both utility and
22		federal funds. Low income weatherization funds provided through utility
23		programs like Empire's continue to be essential and will be even more
24		important once the ARRA funding ends in March, 2012.
25		Additionally, Empire does not currently have a Residential CFL Lighting
26		program. Empire and the CPC should investigate program designs to facilitate
27		the distribution of CFLs or other efficient lighting improvements.

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1 Q. Please summarize MDNR's recommendations in this case.

2 A. MDNR makes five recommendations in this case:

3	1.	The Commission should direct Empire to continue and expand the
4		programs in its DSM portfolio. At the very least, Empire should fully
5		implement programs and budgeted funds in its current portfolio. Then
6		Empire should be directed to work towards implementation of programs to
7		achieve all cost-effective savings.
8	2.	Empire's Customer Programs Collaborative should be reauthorized to
9		continue after the completion of the Regulatory Plan. The structure of the
10		collaborative should change from a voting collaborative to an advisory
11		collaborative.
12	3.	MDNR supports expensing of DSM program costs.
	4	Enclosive language We attack an an an an about the constitution becaused

- 4. Empire's Low-Income Weatherization program should be continued beyond
 the expiration date of its current tariff at least at current levels of funding and
 in collaboration with the CPC, determine whether additional funding is
 needed.
- 5. Empire's CPC should redesign its Residential CFL Lighting program,
- develop tariffs that will implement a redesigned efficient lighting program as
- 19 soon as possible and expand the program to achieve cost-effective savings.

20 Q. Does this complete your testimony?

21 A. Yes. Thank you.

Schedule AB2011-1: Participants and Expenditures: Empire DSM Portfolio 2009 Program Year Participants

							Difference	Percent of
	Program				Expected	Actual	(Actual -	Participation
Program Name	Approval Date	Start Date	End Date	Units	Participants	Participants	Expected)	Realized
Residential Programs								
Low income Weatherization	September 2006	October 2009	September 2010	Homes	125	193	68	
Low income New Homes	April 2007	April 2009	March 2010	Homes	10	2	-8	
High Efficiency Residential Central Air Conditioning Rebate Program	June 2007	June 2009	May 2010	CAC Units	780	344	-436	
Residential Lighting (CFL)	April 2010	October 2009	December 2010	Light bulbs	30,981	46,374	15,393	
Energy Star Homes	April 2009	April 2009	March 2010	Homes	0	15	15	
Home Performance with Energy Star	August 2009	September 2009	August 2010	Homes	0	19	19	
Commercial and Industrial								
C&I Rebate	May 2007	May 2009	April 2010	Rebates	125	57	-68	
Building Operator Certification	February 2008	February 2009	January 2010	Operators	20	9	-11	
Interruptible Tariff	February 2009	2009	2010	Contracts	0	2	2	
Total					32,041	47,015	14,974	146.7%
Total without lighting					1,060	641	-419	60.5%

Source: "Progress Report for Empire District Electric DSM Programs", Customer Program Collaborative, December

2009 Program Year Expenditures								
					Total		Difference	
	Program				Budgeted	Actual	(Actual -	% of Budget
Program Name	Approval Date	Start Date	End Date	Units	Amount	Amount	Expected)	Spent
Residential								
Low income Weatherization	September 2006	October 2009	September 2010	Homes	\$218,510	\$167,770	(\$50,740)	76.8%
Low income New Homes	April 2007	April 2009	March 2010	Homes	\$10,500	\$864	(\$9 <i>,</i> 636)	8.2%
High Efficiency Residential Central Air Conditioning Rebate Program	June 2007	June 2009	May 2010	CAC Units	\$377,000	\$157,513	(\$219,487)	41.8%
Residential Lighting (CFL)	April 2010	October 2009	December 2010	Light bulbs	\$131,956	\$145,022	\$13,066	109.9%
Energy Star Homes	April 2009	April 2009	March 2010	Homes	\$80,000	\$18,000	(\$62,000)	22.5%
Home Performance with Energy Star	August 2009	September 2009	August 2010	Homes	\$54,500	\$16,922	(\$37,578)	31.0%
Commercial and Industrial								
C&I Rebate	May 2007	May 2009	April 2010	Rebates	\$411,000	\$355,387	(\$55,613)	86.5%
Building Operator Certification	February 2008	February 2009	January 2010	Operators	\$33,000	\$14,903	(\$18,097)	45.2%
Interruptible Tariff	February 2009	2009	2010	Contracts	\$0	\$12,144	\$12,144	
Total					\$1,316,466	\$888,525	(\$427,941)	67.5%

Source: "Progress Report for Empire District Electric DSM Programs", Customer Program Collaborative, December

2010 YTD Participants

							Difference	Percent of
					Expected	Actual	(Actual -	Participation
Program Name	Start Date	End Date	Months	Units	Participants	Participants	Expected)	Realized
Residential								
Low income Weatherization	October 2010	December 2011	1	Homes	8	21	13	
Low income New Homes	April 2010	March 2011	7	Homes	6	0	-6	
High Efficiency Residential Central Air Conditioning Rebate Program	June 2010	May 2011	5	CAC Units	325	257	-68	
Energy Star Homes	April 2010	March 2011	7	Homes	127	20	-107	
Home Performance with Energy Star	September 2010	August 2011	2	Homes	29	2	-27	
Commercial and Industrial	·				·			·
C&I Rebate	May 2010	April 2011	6	Rebates	63	31	-32	
Building Operator Certification	February 2010	January 2011	9	Operators	15	0	-15	
Interruptible Tariff	2010	2011	5	Contracts	0	3	3	
Total					573	334	-239	58.3%

Source: "Progress Report for Empire District Electric DSM Programs", Customer Program Collaborative, December

2010 YTD Expenditures

					Total		Difference	
					Budgeted	Actual	(Actual -	% of Budget
Program Name	Start Date	End Date	Months	Units	Amount	Amount	Expected)	Spent
Residential								
	October 2010	December	1		\$14,567	\$10,255	(\$4,312)	70.4%
Low income Weatherization		2011		Homes				
	April 2010	March	7		\$10,500	\$0	(\$10,500)	0.0%
Low income New Homes		2011		Homes				
High Efficiency Residential	June 2010	May 2011	5	CAC Units	\$158,125	\$135,737	(\$22,388)	85.8%
Central Air Conditioning								
Rebate Program								
	April 2010	March	7		\$143,733	\$30,819	(\$112,914)	21.4%
Energy Star Homes		2011		Homes				
Home Performance with	September	August	2		\$15,917	\$800	(\$15,117)	5.0%
Energy Star	2010	2011		Homes				
Commercial and Industrial								
C&I Rebate	May 2010	April 2011	6	Rebates	\$206,250	\$158,210	(\$48,040)	76.7%
Building Operator	February	January	9	Operators	\$25,125	\$1,190	(\$23,935)	4.7%
Certification	2010	2011						
Interruptible Tariff	2010	2011	5	Contracts	\$0	\$28,290	\$28,290	
Total					\$574,217	\$365,301	(\$208,916)	63.6%

Source: "Progress Report for Empire District Electric DSM Programs", Customer Program Collaborative, December

				Year								
	Tariff Effective Date	Start Date	End Date	2006	2007	2008	2009	2010	2011	2012	2013	2014
Low Income Weatherization	9/5/2006	October, 2006	September, 2011									
Low Income New Homes	4/4/2007	April, 2007	March, 2012									
High Efficiency Residential Central Air Conditioning Rebate Program	6/4/2007	May, 2007	April, 2012									
Residential Lighting (CFL)	9/5/2006	October, 2009	September, 2010									
Energy Star New Homes	4/20/2009	May, 2009	April, 2014									
Home Performance with Energy Star	8/8/2009	September, 2009	August, 2014									
Missouri Commercial and Industrial Facility Rebate Program	5/7/2007	June, 2007	May, 2012									
Building Operator Certification	2/21/2008	February, 2008	January, 2013									
Interruptible Tariff	2/19/2009	March, 2009	February, 2014									