

APPENDIX 1

MAY STAKEHOLDER MEETING

**KCP&L GREATER MISSOURI
OPERATIONS COMPANY (GMO)**

INTEGRATED RESOURCE PLAN

CASE NO. EE-2009-0237

4 CSR 240-22

**** PUBLIC ****



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Changes in IRP vs 2010-2014 Budget Load Forecasts

The load forecast used in the IRP was completed in January 2009. The load forecast used in the 2010-2014 budget forecast was completed during the summer of 2009.

The budget forecast incorporates the following changes:

1. More recent historical kwh sales and customer count data

The IRP used monthly historical customer and kwh sales billing data through December 2008. The budget forecast used data through May 2009.

2. More recent economic forecast from Moody's economy.com

The IRP was based on Moody's November 2008 forecast for the US economy whereas the budget was based on the May 2009 economic forecast.

3. Updated end-use data and projections from the US DOE for the West North Central region

The IRP was based on end-use data and projections from the US DOE available in 2008 for the West North Central region whereas the budget used DOE results available in 2009.

4. IRP forecast used CCOS models, budget forecast used revenue class models

Aquila stipulated to using class cost of service classes for the IRP forecast whereas the budget forecast uses revenue classes. Class cost of service categories are residential, Small General Service, Large General Service, Large Power and Lighting. Revenue classes are residential (including private area lights), Commercial (including private area lights), Industrial and Lighting. MPS also includes a Public Authority revenue class.

Table 1: IRP Missouri Public Service Energy

	MPS IRP (gWh)							
	Res_IRP	SGS	LGS	LP	C&I_IRP	StLgt_Traffic_IRP	ReSale_IRP	Total_IRP
2000	2,137	742	762	1,113	2,617	41	218	4,795
2001	2,215	799	758	1,095	2,652	41	174	4,908
2002	2,354	789	786	1,165	2,740	42	179	5,136
2003	2,403	782	801	1,210	2,793	42	109	5,238
2004	2,374	783	814	1,234	2,831	43	43	5,248
2005	2,662	812	870	1,267	2,949	45	32	5,656
2006	2,663	807	864	1,345	3,016	46	31	5,725
2007	2,786	831	902	1,412	3,145	47	32	5,978
2008	2,728	814	904	1,410	3,128	47	31	5,903
2009	2,715	805	885	1,408	3,098	48	31	5,861
2010	2,770	814	890	1,449	3,153	49	31	5,972
2011	2,806	828	944	1,492	3,264	49	31	6,119
2012	2,851	847	995	1,514	3,356	50	31	6,257
2013	2,910	867	1,026	1,538	3,431	51	31	6,392
2014	2,960	884	1,045	1,570	3,499	52	31	6,511
2015	3,007	898	1,058	1,609	3,565	53	31	6,625
2016	3,057	911	1,071	1,655	3,637	53	31	6,747
2017	3,101	921	1,084	1,699	3,704	54	31	6,859
2018	3,144	929	1,097	1,739	3,765	54	31	6,963
2019	3,191	937	1,106	1,780	3,823	55	31	7,069
2020	3,242	946	1,120	1,823	3,889	55	31	7,186
2021	3,292	954	1,134	1,866	3,954	56	31	7,302
2022	3,341	962	1,147	1,908	4,017	56	31	7,414
2023	3,388	970	1,160	1,950	4,080	56	31	7,524
2024	3,441	979	1,178	1,998	4,155	57	31	7,653
2025	3,497	990	1,201	2,052	4,243	57	31	7,797
2026	3,555	1,003	1,226	2,108	4,337	57	31	7,949
2027	3,609	1,015	1,252	2,164	4,431	57	31	8,097
2028	3,660	1,028	1,278	2,219	4,525	57	31	8,242
2029	3,707	1,042	1,308	2,276	4,626	57	31	8,390
2030	3,756	1,057	1,341	2,335	4,733	58	31	8,547
2031	3,798	1,074	1,378	2,398	4,850	58	31	8,706
2032	3,839	1,093	1,422	2,465	4,980	58	31	8,877
2033	3,882	1,115	1,469	2,536	5,120	58	31	9,060
2034	3,930	1,138	1,519	2,610	5,267	58	31	9,255
2035	3,980	1,163	1,572	2,687	5,422	58	31	9,460

**MPS Residential budget forecast includes private area lighting where the IRP forecast does not.*

*** MPS Lighting class does not include private area lighting in the budget forecast where the IRP forecast does.*

Table 2: 2010 - 2014 Budget Missouri Public Service Energy ** Highly Confidential **

MPS '10-'14 Budget (gWh)

	Res_Bud	Com	Ind	Other_Bud	StLgt_Tsign_Bud	SFR_Bug	Total_Bud
2000							
2001							
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Figure 1: Residential Missouri Public Service Energy - IRP vs. 2010 – 2014 Budget ** Highly Confidential **

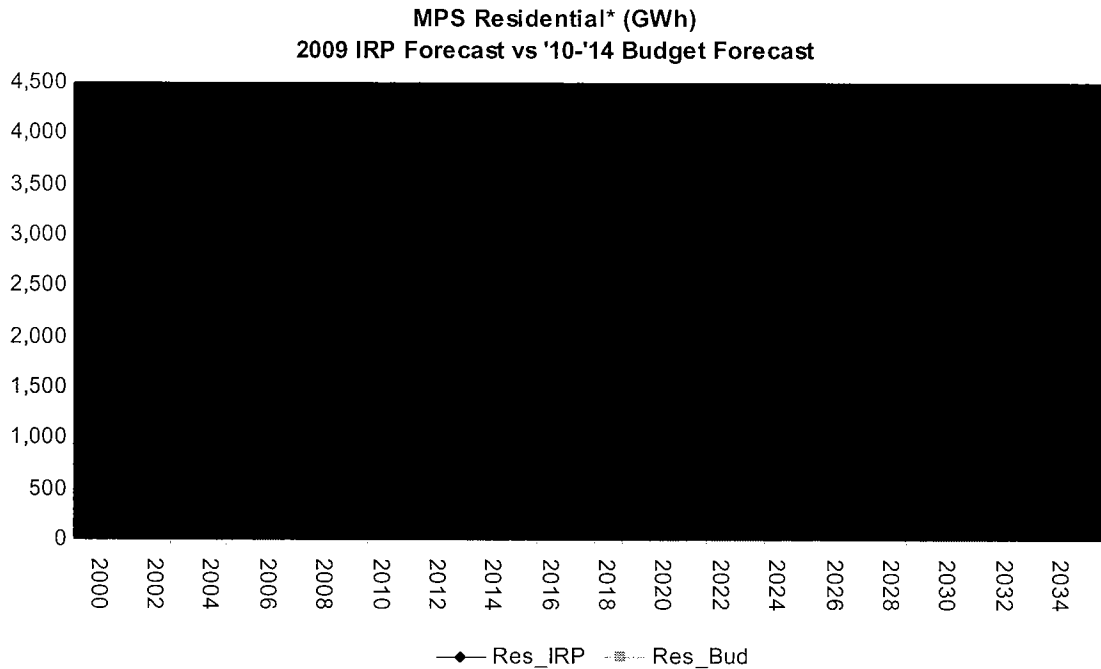


Figure 2: C&I Missouri Public Service Energy - IRP vs. 2010 – 2014 Budget ** Highly Confidential **

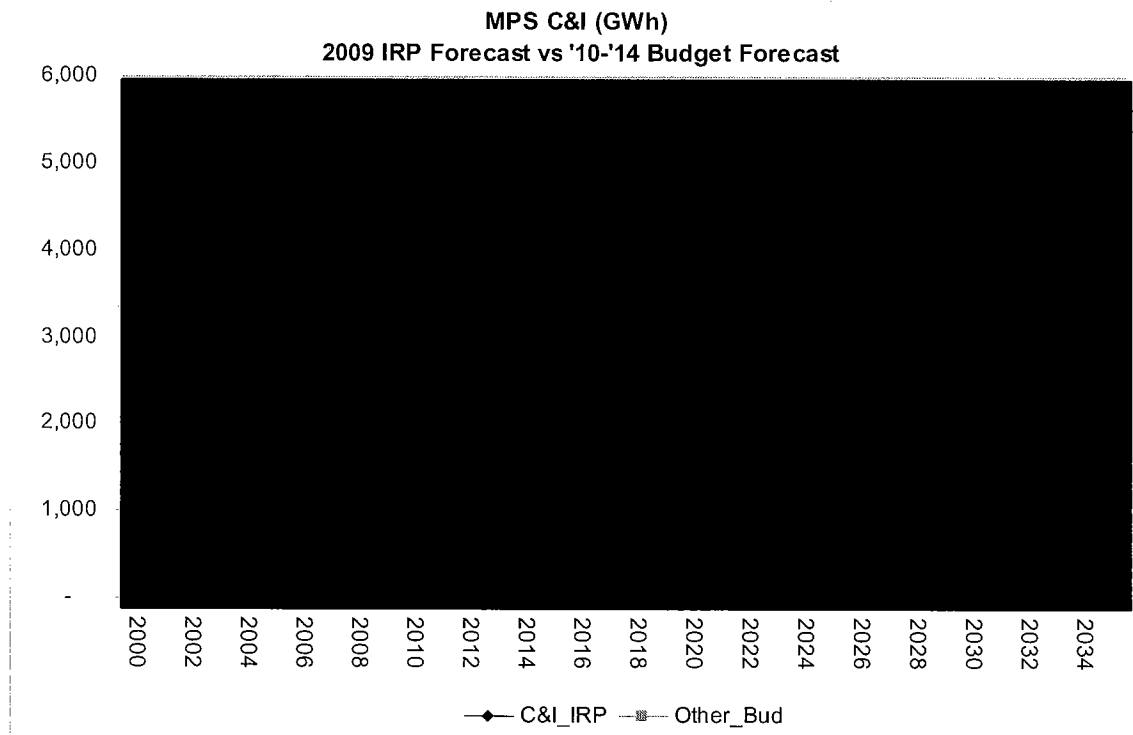


Figure 3: Lighting Missouri Public Service Energy - IRP vs. 2010 – 2014 Budget
**** Highly Confidential ****

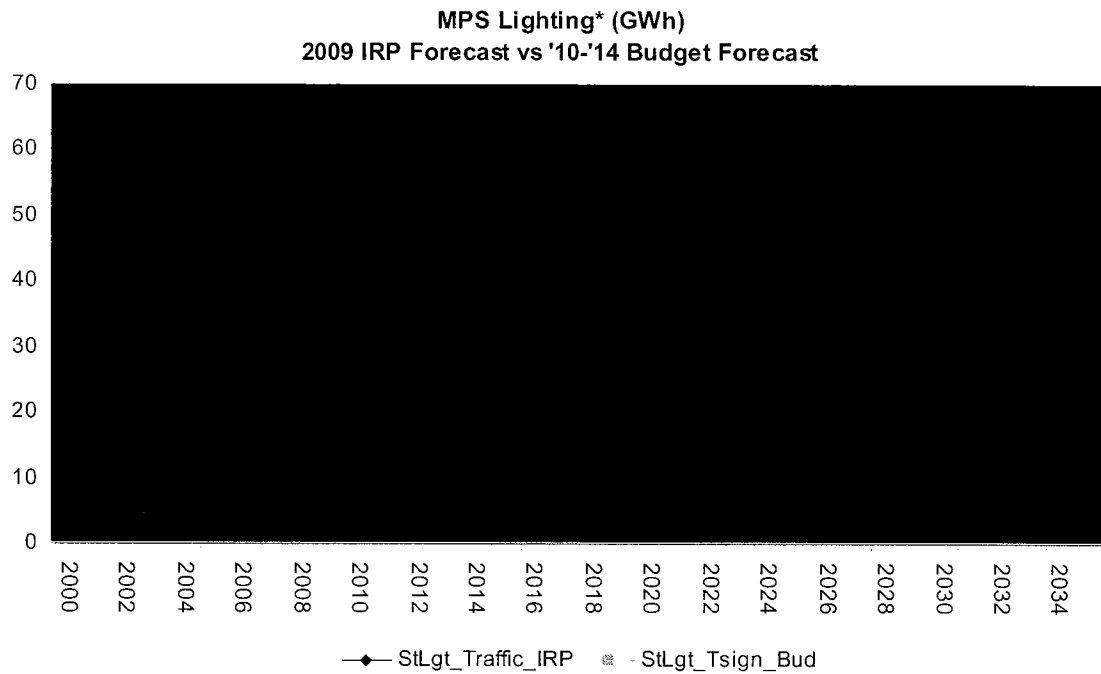


Figure 4: Total (excludes SFR) Missouri Public Service Energy - IRP vs. 2010 – 2014 Budget ** Highly Confidential **

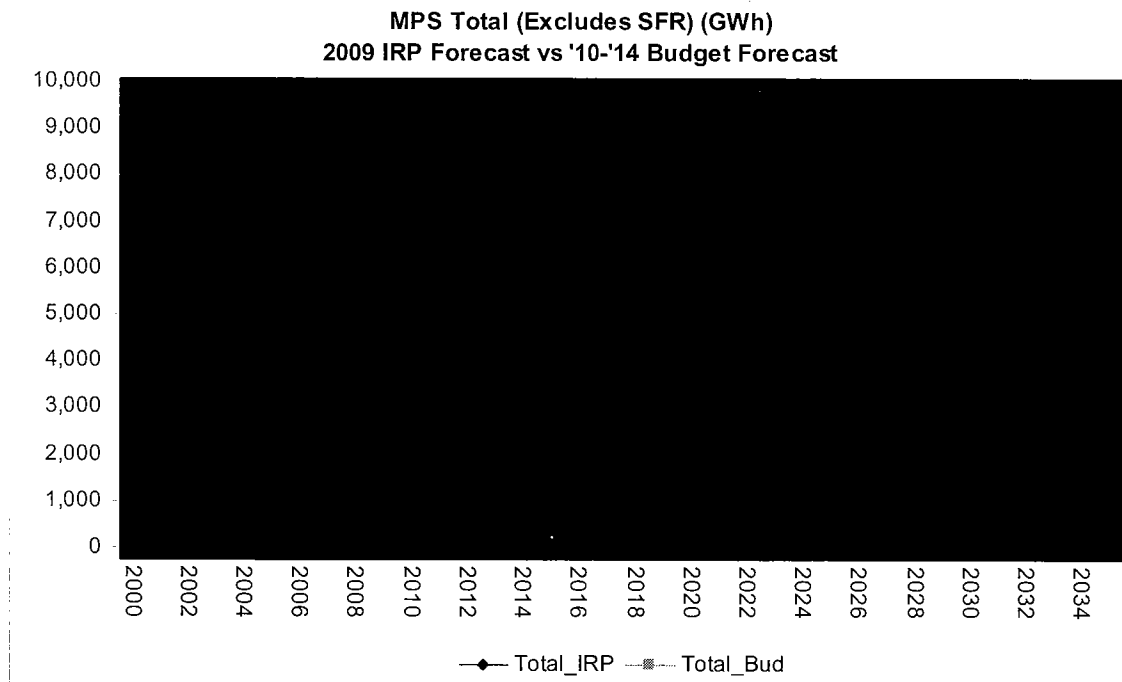


Table 3: IRP St Joseph Light and Power Energy

SJ IRP							
	Res_IRP	SGS	LGS	LP	C&I_IRP	Lght_Traff_IRP	SJ Total IRP
2000	658	95	364	615	1074	20	1,752
2001	671	96	368	602	1066	21	1,758
2002	701	100	366	607	1073	21	1,795
2003	703	102	373	614	1089	21	1,813
2004	691	102	380	597	1079	21	1,791
2005	750	106	384	663	1153	22	1,925
2006	741	99	387	745	1231	22	1,994
2007	779	104	400	800	1304	22	2,105
2008	786	104	392	851	1347	22	2,155
2009	771	102	393	860	1355	22	2,148
2010	776	103	392	878	1373	22	2,171
2011	777	104	394	895	1393	23	2,193
2012	779	104	396	905	1405	23	2,207
2013	785	105	399	917	1421	23	2,229
2014	791	106	401	930	1437	23	2,251
2015	796	107	403	947	1457	23	2,276
2016	805	109	407	968	1484	24	2,313
2017	813	110	411	989	1510	24	2,347
2018	822	112	415	1,009	1536	24	2,382
2019	832	114	421	1,030	1565	24	2,421
2020	843	115	426	1,050	1591	24	2,458
2021	854	117	432	1,070	1619	25	2,498
2022	866	119	439	1,089	1647	25	2,538
2023	877	120	445	1,108	1673	25	2,575
2024	891	122	451	1,129	1702	25	2,618
2025	906	124	458	1,151	1733	25	2,664
2026	920	126	466	1,174	1766	26	2,712
2027	935	127	473	1,196	1796	26	2,757
2028	948	129	480	1,214	1823	26	2,797
2029	960	130	488	1,230	1848	26	2,834
2030	972	132	495	1,247	1874	26	2,872
2031	983	133	503	1,266	1902	27	2,912
2032	993	134	511	1,285	1930	27	2,950
2033	1,004	136	520	1,303	1959	27	2,990
2034	1,015	137	529	1,319	1985	27	3,027
2035	1,026	138	538	1,335	2011	27	3,064

**SJ Residential budget forecast includes private area lighting where the IRP forecast does not.*

*** SJ Lighting class does not include private area lighting in the budget forecast where the IRP forecast does.*

Table 4: 2010 - 2014 Budget St Joseph Light and Power Energy ** Highly Confidential **

SJ '10-'14 Budget

Res_Bud Com Ind Other_Bud Lght_Traff_Bud SJ Total Bud

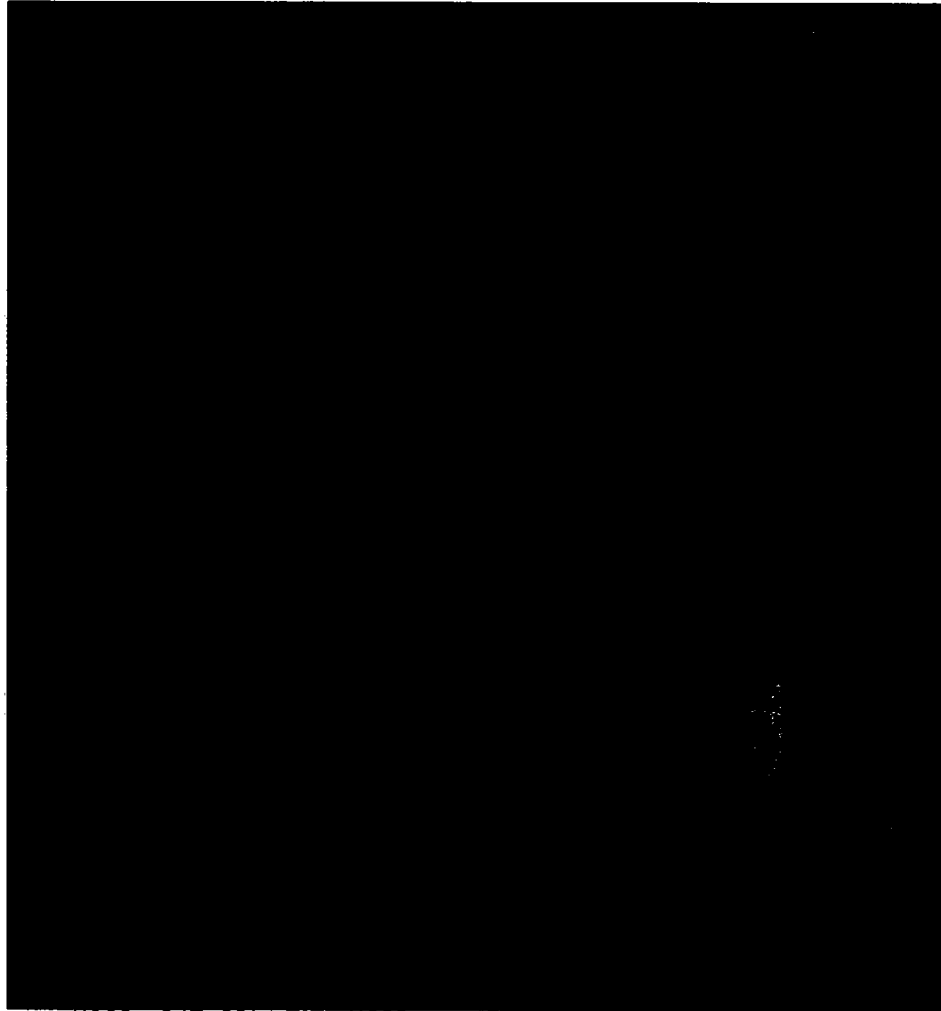


Figure 5: Residential St Joseph Light and Power - IRP vs. 2010 – 2014 Budget
**** Highly Confidential ****

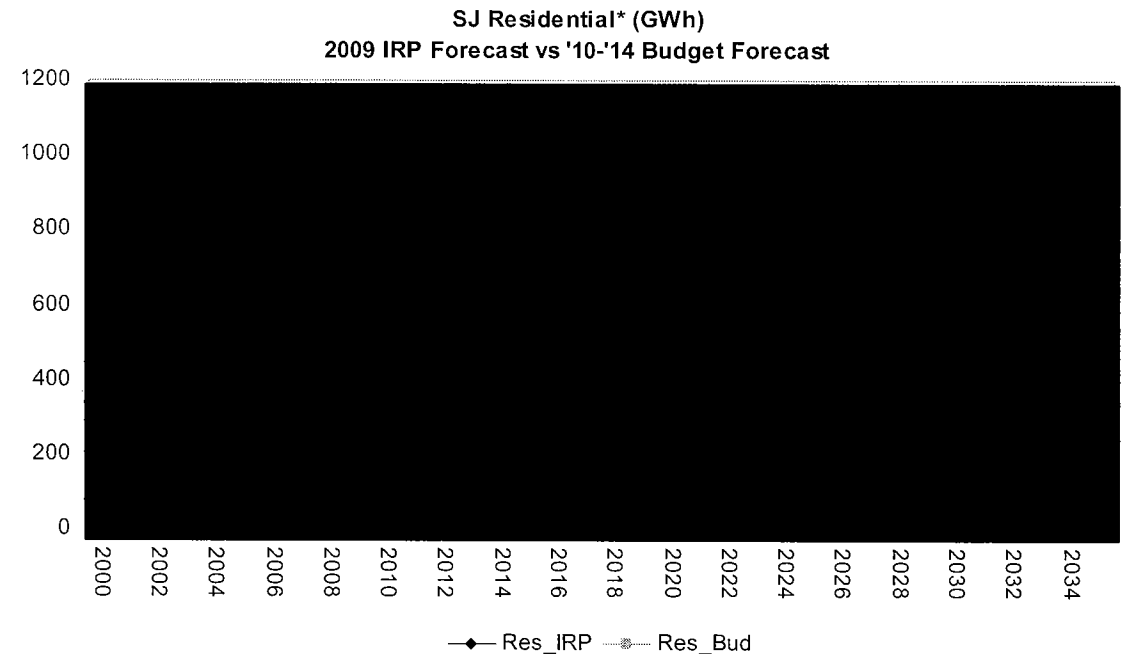


Figure 6: C&I St Joseph Light and Power - IRP vs. 2010 – 2014 Budget ** Highly Confidential **

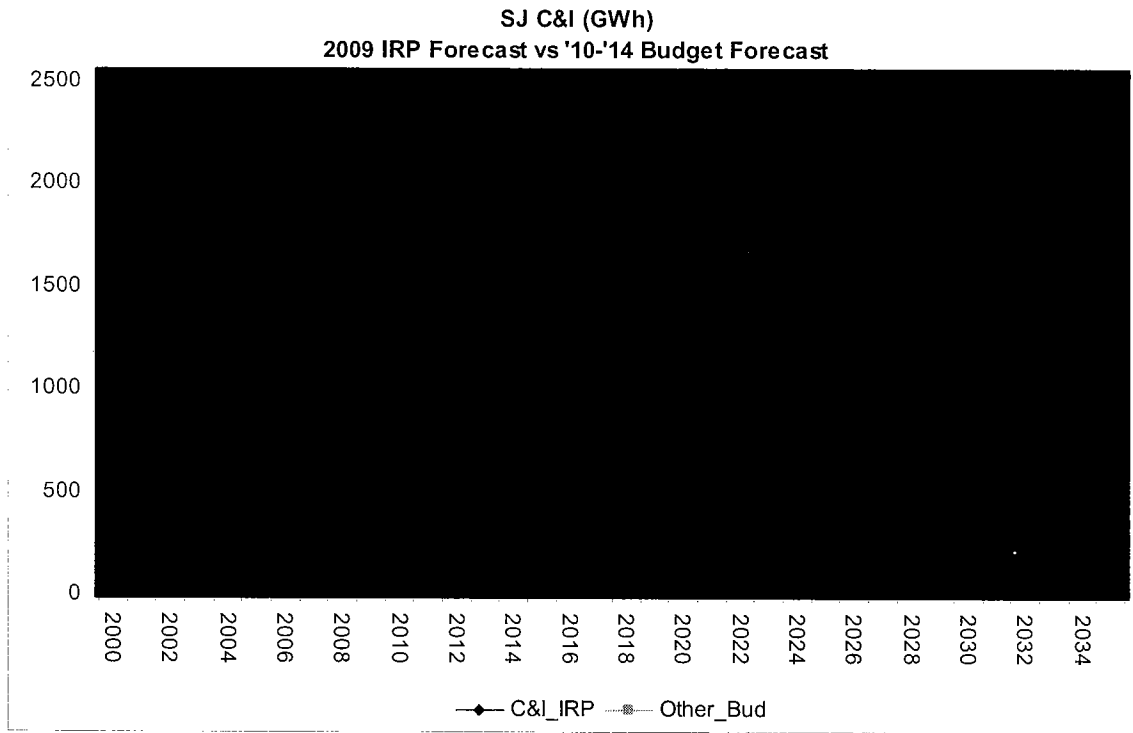


Figure 7: Lighting St Joseph Light and Power - IRP vs. 2010 – 2014 Budget **
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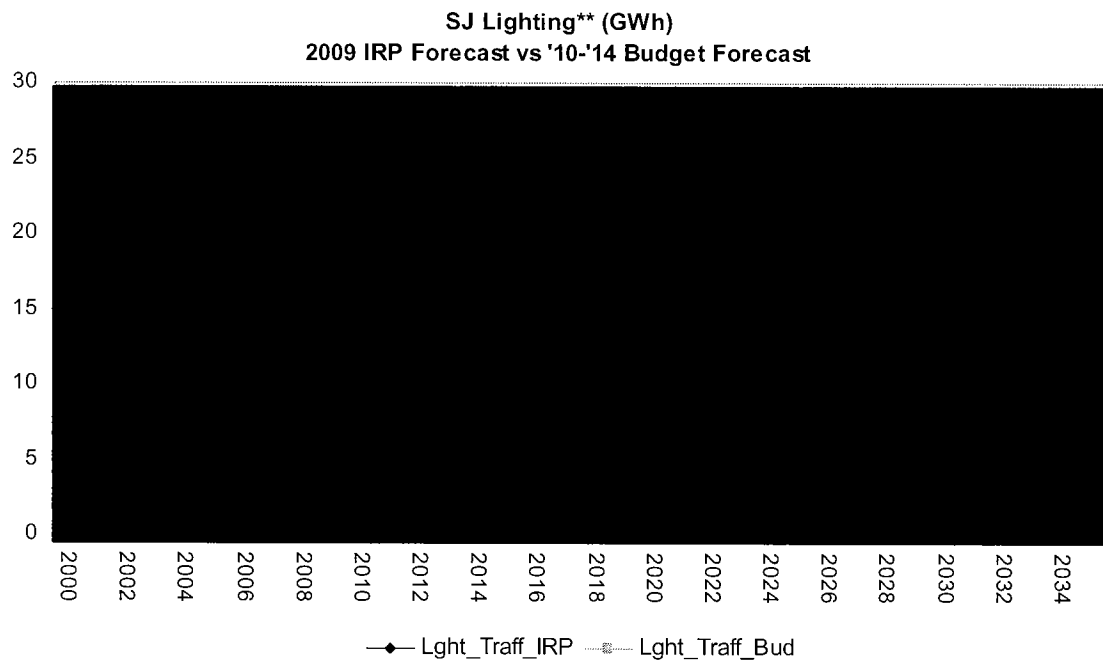


Figure 8: Total St Joseph Light and Power - IRP vs. 2010 – 2014 Budget **
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