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PUBLIC SERVICE
COMMISSION

COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION OF KENTUCKY

In the Matter of:

2014 INTEGRATED RESOURCE PLAN)
OF BIG RIVERS ELECTRIC CORPORATION) Case No. 2014-00166

Attachment No. 3 for the Response to Item 20 of the
Office of the Attorney General's Initial Request for Information
dated August 20, 2014
(*Provided on electronic media*)

FILED: September 10, 2014

BIG RIVERS ELECTRIC CORPORATION
2014 INTEGRATED RESOURCE PLAN
OF BIG RIVERS ELECTRIC CORPORATION
CASE NO. 2014-00166

Response to the Office of the Attorney General's
Initial Request for Information
Dated August 20, 2014

September 10, 2014

1 **Item 20)** **Page 57, section 4.7 of the IRP describes a decrease in native system sales**
2 **by 2028 related to a \$30 per metric ton CO2 policy. Is this entire decrease related to**
3 **price increases? Please explain**

4

5 **Response)** The load forecast scenario representing the impact of the \$30 per metric ton
6 CO2 policy reflects changes in consumption due entirely to changes in price resulting from
7 implementation of the policy.

8

9 The carbon tax scenarios are based on information published by EIA in their report entitled
10 *Further Sensitivity Analysis of Hypothetical Policies to Limit Energy-Related Carbon*
11 *Dioxide Emissions, Supplement to the Annual Energy Outlook 2013*, July 2013, and by
12 Synapse in their report entitled *2013 Carbon Dioxide Price Forecast*, Synapse Energy
13 Economics, Inc., November 1, 2013. These reports are provided as attachments. The
14 spreadsheet created to develop the scenario is located in the folder AG1-20 on the electronic
15 media included with these responses.

16

17 **Witness)** John W. Hutts

Native Load w/o DSM

Base Case Forecast

	Rural MWH	Industrial MWH	G&T losses	MWH (@genr)	Rural MW Winter	Industrial MW Winter	Winter MW (@genr)	Rural MW Summer	Industrial MW Summer	Summer MW (@genr)
2013	2,342,123	958,781	1.46%	3,349,811	495	101	596	509	134	643
2014	2,317,871	981,796	3.18%	3,408,043	495	134	629	509	149	658
2015	2,286,963	985,814	3.28%	3,383,764	495	139	634	509	150	660
2016	2,276,671	985,325	3.28%	3,372,618	498	139	637	512	151	663
2017	2,299,846	982,555	3.28%	3,393,715	503	141	644	517	152	669
2018	2,320,926	982,555	3.28%	3,415,510	506	142	648	520	153	673
2019	2,341,852	982,555	3.28%	3,437,146	510	143	652	524	154	678
2020	2,364,109	982,555	3.28%	3,460,157	514	144	657	528	155	683
2021	2,388,083	982,555	3.28%	3,484,944	518	145	663	533	156	689
2022	2,413,050	982,555	3.28%	3,510,758	523	146	668	538	157	695
2023	2,437,959	982,555	3.28%	3,536,512	527	147	674	542	158	701
2024	2,462,848	982,555	3.28%	3,562,245	532	148	680	547	159	707
2025	2,488,591	982,555	3.28%	3,588,861	537	149	685	552	160	713
2026	2,515,002	982,555	3.28%	3,616,168	542	150	691	558	161	719
2027	2,541,881	982,555	3.28%	3,643,958	547	151	697	563	162	725
2028	2,570,163	982,555	3.28%	3,673,199	552	152	704	569	163	732

\$10 fee@5% Growth per Year

	Rural MWH	Industrial MWH	G&T losses	MWH (@genr)	Rural MW Winter	Industrial MW Winter	Winter MW (@genr)	Rural MW Summer	Industrial MW Summer	Summer MW (@genr)
2013	2,342,123	958,781	1.46%	3,349,811	495	101	596	509	134	643
2014	2,317,871	981,796	3.18%	3,408,043	495	134	629	509	149	658
2015	2,286,963	985,814	3.28%	3,383,764	495	139	634	509	150	660
2016	2,276,671	985,325	3.28%	3,372,618	498	139	637	512	151	663
2017	2,299,846	982,555	3.28%	3,393,715	503	141	644	517	152	669
2018	2,320,926	982,555	3.28%	3,415,510	506	142	648	520	153	673

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Native Load w/o DSM

Base Case Forecast

	Rural MWH	Industrial MWH	G&T losses	MWH (@genr)	Rural MW Winter	Industrial MW Winter	Winter MW (@genr)	Rural MW Summer	Industrial MW Summer	Summer MW (@genr)
2019	2,341,852	982,555	3.28%	3,437,146	510	143	652	524	154	678
2020	2,363,855	982,406	3.28%	3,459,740	513	144	657	528	155	683
2021	2,367,925	965,275	3.28%	3,446,236	514	142	656	528	154	682
2022	2,371,871	951,201	3.28%	3,435,765	514	141	655	528	152	681
2023	2,386,707	946,897	3.28%	3,446,654	516	141	658	531	153	684
2024	2,410,388	945,372	3.28%	3,469,562	521	142	663	536	153	689
2025	2,436,748	943,578	3.28%	3,494,961	526	143	668	541	154	695
2026	2,462,594	940,819	3.28%	3,518,831	530	143	674	546	155	701
2027	2,487,247	938,459	3.28%	3,541,879	535	144	679	551	155	706
2028	2,512,566	936,903	3.28%	3,566,448	540	145	684	556	156	712

Native Load w/o DSM

Base Case Forecast

	Industrial MWH	G&T losses	MWH (@genr)	Rural MW Winter	Industrial MW Winter	Winter MW (@genr)	Rural MW Summer	Industrial MW Summer	Summer MW (@genr)
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\$20 fee@5% Growth per Year

	Industrial MWH	G&T losses	MWH (@genr)	Rural MW Winter	Industrial MW Winter	Winter MW (@genr)	Rural MW Summer	Industrial MW Summer	Summer MW (@genr)	
2013	2,342,123	958,781	3.28%	3,349,811	495	101	596	509	134	643
2014	2,317,871	981,796	3.18%	3,408,043	495	134	629	509	149	658
2015	2,286,963	985,814	3.28%	3,383,764	495	139	634	509	150	660
2016	2,276,671	985,325	3.28%	3,372,618	498	139	637	512	151	663
2017	2,299,846	982,555	3.28%	3,393,715	503	141	644	517	152	669
2018	2,320,926	982,555	3.28%	3,415,510	506	142	648	520	153	673
2019	2,341,852	982,555	3.28%	3,437,146	510	143	652	524	154	678
2020	2,225,469	869,007	3.28%	3,199,417	483	127	611	497	137	635
2021	2,241,611	867,421	3.28%	3,214,467	486	128	614	500	138	638
2022	2,256,295	864,901	3.28%	3,227,043	489	128	617	503	139	641
2023	2,268,860	862,369	3.28%	3,237,416	491	129	619	505	139	644
2024	2,282,291	860,426	3.28%	3,249,293	493	129	622	507	140	647
2025	2,291,782	857,371	3.28%	3,255,948	494	130	624	509	140	649
2026	2,302,174	854,363	3.28%	3,263,583	496	130	626	510	140	651
2027	2,317,009	851,340	3.28%	3,275,795	498	131	629	513	141	654
2028	2,337,363	849,429	3.28%	3,294,863	502	131	633	517	141	658

\$30 fee@5% Growth per Year

	Industrial MWH	G&T losses	MWH (@genr)	Rural MW Winter	Industrial MW Winter	Winter MW (@genr)	Rural MW Summer	Industrial MW Summer	Summer MW (@genr)	
2013	2,342,123	958,781	3.28%	3,349,811	495	101	596	509	134	643

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Native Load w/o DSM

Base Case Forecast

	Rural MWH	Industrial MWH	G&T losses	MWH (@genr)	Rural MW Winter	Industrial MW Winter	Winter MW (@genr)	Rural MW Summer	Industrial MW Summer	Summer MW (@genr)
2014	2,317,871	981,796	3.18%	3,408,043	495	134	629	509	149	658
2015	2,286,963	985,814	3.28%	3,383,764	495	139	634	509	150	660
2016	2,276,671	985,325	3.28%	3,372,618	498	139	637	512	151	663
2017	2,299,846	982,555	3.28%	3,393,715	503	141	644	517	152	669
2018	2,320,926	982,555	3.28%	3,415,510	506	142	648	520	153	673
2019	2,341,852	982,555	3.28%	3,437,146	510	143	652	524	154	678
2020	2,363,889	982,520	3.28%	3,459,893	513	144	657	528	155	683
2021	2,335,121	936,195	3.28%	3,382,254	506	138	644	521	149	670
2022	2,305,067	896,412	3.28%	3,310,048	499	133	632	513	144	657
2023	2,289,352	866,528	3.28%	3,262,903	495	129	625	509	140	649
2024	2,298,431	855,096	3.28%	3,260,471	496	129	625	511	139	649
2025	2,317,541	850,352	3.28%	3,275,324	500	129	629	514	139	653
2026	2,339,028	844,121	3.28%	3,291,097	504	129	632	519	139	657
2027	2,356,777	841,550	3.28%	3,306,789	507	129	636	522	139	661
2028	2,378,616	841,289	3.28%	3,329,100	511	130	641	526	140	666

Native Load w/o DSM

Base Case Forecast

	Rural MWH	Industrial MWH	G&T losses	MWH (@genr)	Rural MW Winter	Industrial MW Winter	Winter MW (@genr)	Rural MW Summer	Industrial MW Summer	Summer MW (@genr)
\$20 fee economy-wide										
	Rural MWH	Industrial MWH	G&T losses	MWH (@genr)	Rural MW Winter	Industrial MW Winter	Winter MW (@genr)	Rural MW Summer	Industrial MW Summer	Summer MW (@genr)
2013	2,342,123	958,781	1.46%	3,349,811	495	101	596	509	134	643
2014	2,317,871	981,796	3.18%	3,408,043	495	134	629	509	149	658
2015	2,286,963	985,814	3.28%	3,383,764	495	139	634	509	150	660
2016	2,276,671	985,325	3.28%	3,372,618	498	139	637	512	151	663
2017	2,299,846	982,555	3.28%	3,393,715	503	141	644	517	152	669
2018	2,320,926	982,555	3.28%	3,415,510	506	142	648	520	153	673
2019	2,341,852	982,555	3.28%	3,437,146	510	143	652	524	154	678
2020	2,231,579	863,485	3.28%	3,200,024	485	126	611	498	137	635
2021	2,247,609	860,736	3.28%	3,213,756	487	127	614	501	137	638
2022	2,262,982	857,531	3.28%	3,226,338	490	127	617	504	137	641
2023	2,276,625	854,011	3.28%	3,236,803	492	128	620	507	138	644
2024	2,286,479	850,680	3.28%	3,243,547	494	128	622	508	138	646
2025	2,294,288	847,983	3.28%	3,248,832	495	128	623	509	138	648
2026	2,303,175	844,106	3.28%	3,254,012	496	129	625	511	139	649
2027	2,318,548	841,742	3.28%	3,267,463	499	129	628	513	139	653
2028	2,339,889	839,411	3.28%	3,287,118	503	130	632	518	140	657

Cap and trade, offsets

	Rural MWH	Industrial MWH	G&T losses	MWH (@genr)	Rural MW Winter	Industrial MW Winter	Winter MW (@genr)	Rural MW Summer	Industrial MW Summer	Summer MW (@genr)
2013	2,342,123	958,781	1.46%	3,349,811	495	101	596	509	134	643
2014	2,317,871	981,796	3.18%	3,408,043	495	134	629	509	149	658

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Native Load w/o DSM

Base Case Forecast

	Rural MWH	Industrial MWH	G&T losses	MWH (@genr)	Rural MW Winter	Industrial MW Winter	Winter MW (@genr)	Rural MW Summer	Industrial MW Summer	Summer MW (@genr)
2015	2,286,963	985,814	3.28%	3,383,764	495	139	634	509	150	660
2016	2,276,671	985,325	3.28%	3,372,618	498	139	637	512	151	663
2017	2,299,846	982,555	3.28%	3,393,715	503	141	644	517	152	669
2018	2,320,926	982,555	3.28%	3,415,510	506	142	648	520	153	673
2019	2,341,852	982,555	3.28%	3,437,146	510	143	652	524	154	678
2020	2,320,774	943,585	3.28%	3,375,061	504	138	642	518	149	668
2021	2,341,047	943,086	3.28%	3,395,506	508	139	647	522	150	672
2022	2,360,384	940,970	3.28%	3,413,311	511	140	651	526	151	677
2023	2,378,527	937,704	3.28%	3,428,692	514	140	654	529	151	680
2024	2,396,955	935,726	3.28%	3,445,699	518	141	658	533	152	684
2025	2,417,892	934,423	3.28%	3,465,999	521	141	663	537	153	689
2026	2,436,461	932,033	3.28%	3,482,727	525	142	667	540	153	693
2027	2,445,711	925,991	3.28%	3,486,044	526	142	668	542	153	695
2028	2,450,616	918,255	3.28%	3,483,117	526	142	668	542	153	695

Native Load w/o DSM

Base Case Forecast

	Rural MWH	Industrial MWH	G&T losses	MWH (@genr)	Rural MW Winter	Industrial MW Winter	Winter MW (@genr)	Rural MW Summer	Industrial MW Summer	Summer MW (@genr)
\$20 fee economy, deficit reduction										
	Rural MWH	Industrial MWH	G&T losses	MWH (@genr)	Rural MW Winter	Industrial MW Winter	Winter MW (@genr)	Rural MW Summer	Industrial MW Summer	Summer MW (@genr)
2013	2,342,123	958,781	1.46%	3,349,811	495	101	596	509	134	643
2014	2,317,871	981,796	3.18%	3,408,043	495	134	629	509	149	658
2015	2,286,963	985,814	3.28%	3,383,764	495	139	634	509	150	660
2016	2,276,671	985,325	3.28%	3,372,618	498	139	637	512	151	663
2017	2,299,846	982,555	3.28%	3,393,715	503	141	644	517	152	669
2018	2,320,926	982,555	3.28%	3,415,510	506	142	648	520	153	673
2019	2,341,852	982,555	3.28%	3,437,146	510	143	652	524	154	678
2020	2,217,168	887,431	3.28%	3,209,884	482	130	611	495	140	636
2021	2,231,219	887,031	3.28%	3,223,997	484	131	615	498	141	639
2022	2,247,183	886,270	3.28%	3,239,716	487	131	618	501	142	643
2023	2,261,400	884,513	3.28%	3,252,598	489	132	621	503	143	646
2024	2,276,363	884,194	3.28%	3,267,738	492	133	625	506	143	649
2025	2,288,377	884,225	3.28%	3,280,192	494	134	627	508	144	652
2026	2,299,176	883,246	3.28%	3,290,346	495	135	630	510	145	655
2027	2,314,101	883,260	3.28%	3,305,791	498	135	633	512	146	658
2028	2,332,701	883,929	3.28%	3,325,713	501	136	638	516	147	663

\$20 fee w/deficit reduction

	Rural MWH	Industrial MWH	G&T losses	MWH (@genr)	Rural MW Winter	Industrial MW Winter	Winter MW (@genr)	Rural MW Summer	Industrial MW Summer	Summer MW (@genr)
2013	2,342,123	958,781	1.46%	3,349,811	495	101	596	509	134	643
2014	2,317,871	981,796	3.18%	3,408,043	495	134	629	509	149	658

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Native Load w/o DSM

Base Case Forecast

	Rural MWH	Industrial MWH	G&T losses	MWH (@genr)	Rural MW Winter	Industrial MW Winter	Winter MW (@genr)	Rural MW Summer	Industrial MW Summer	Summer MW (@genr)
2015	2,286,963	985,814	3.28%	3,383,764	495	139	634	509	150	660
2016	2,276,671	985,325	3.28%	3,372,618	498	139	637	512	151	663
2017	2,299,846	982,555	3.28%	3,393,715	503	141	644	517	152	669
2018	2,320,926	982,555	3.28%	3,415,510	506	142	648	520	153	673
2019	2,341,852	982,555	3.28%	3,437,146	510	143	652	524	154	678
2020	2,220,597	878,115	3.28%	3,203,796	482	128	611	496	139	635
2021	2,234,011	876,333	3.28%	3,215,823	485	129	614	498	140	638
2022	2,249,474	874,834	3.28%	3,230,261	487	130	617	501	140	641
2023	2,264,041	872,531	3.28%	3,242,941	490	130	620	504	141	644
2024	2,274,229	870,635	3.28%	3,251,513	491	131	622	505	141	647
2025	2,283,215	869,162	3.28%	3,259,281	492	132	624	507	142	649
2026	2,294,413	866,689	3.28%	3,268,303	494	132	626	509	142	651
2027	2,310,931	864,777	3.28%	3,283,404	497	133	630	512	143	655
2028	2,330,805	863,329	3.28%	3,302,454	501	133	634	516	144	659

Native Load w/o DSM

Base Case Forecast

	Rural MWH	Industrial MWH	G&T losses	MWH (@genr)	Rural MW Winter	Industrial MW Winter	Winter MW (@genr)	Rural MW Summer	Industrial MW Summer	Summer MW (@genr)
	Rural MWH	Industrial MWH	G&T losses	MWH (@genr)	Rural MW Winter	Industrial MW Winter	Winter MW (@genr)	Rural MW Summer	Industrial MW Summer	Summer MW (@genr)
\$20 fee w/business rebate										
2013	2,342,123	958,781	1.46%	3,349,811	495	101	596	509	134	643
2014	2,317,871	981,796	3.18%	3,408,043	495	134	629	509	149	658
2015	2,286,963	985,814	3.28%	3,383,764	495	139	634	509	150	660
2016	2,276,671	985,325	3.28%	3,372,618	498	139	637	512	151	663
2017	2,299,846	982,555	3.28%	3,393,715	503	141	644	517	152	669
2018	2,320,926	982,555	3.28%	3,415,510	506	142	648	520	153	673
2019	2,341,852	982,555	3.28%	3,437,146	510	143	652	524	154	678
2020	2,222,931	870,815	3.28%	3,198,663	483	127	610	496	138	634
2021	2,238,398	869,548	3.28%	3,213,344	485	128	614	499	138	638
2022	2,252,750	867,727	3.28%	3,226,300	488	129	617	502	139	641
2023	2,265,820	865,483	3.28%	3,237,492	490	129	619	504	140	644
2024	2,276,995	862,818	3.28%	3,246,292	492	130	621	506	140	646
2025	2,286,831	860,400	3.28%	3,253,961	493	130	623	508	140	648
2026	2,299,091	857,910	3.28%	3,264,063	495	131	626	510	141	651
2027	2,314,508	855,265	3.28%	3,277,268	498	131	629	513	141	654
2028	2,334,240	852,791	3.28%	3,295,111	501	132	633	516	142	658



Smelter

	Winter LF	Summer LF	MWH
2013	0.641	0.595	-
2014	0.618	0.591	-
2015	0.609	0.585	-
2016	0.604	0.581	-
2017	0.602	0.579	-
2018	0.602	0.579	-
2019	0.602	0.579	-
2020	0.601	0.578	-
2021	0.600	0.577	-
2022	0.600	0.577	-
2023	0.599	0.576	-
2024	0.598	0.575	-
2025	0.598	0.575	-
2026	0.597	0.574	-
2027	0.596	0.573	-
2028	0.596	0.573	-

	Winter LF	Summer LF	MWH
2013	0.641	0.595	-
2014	0.618	0.591	-
2015	0.609	0.585	-
2016	0.604	0.581	-
2017	0.602	0.579	-
2018	0.602	0.579	-

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Smelter

	Winter LF	Summer LF	MWH
2019	0.602	0.579	-
2020	0.601	0.578	-
2021	0.600	0.577	-
2022	0.599	0.576	-
2023	0.598	0.576	-
2024	0.598	0.575	-
2025	0.597	0.574	-
2026	0.596	0.573	-
2027	0.596	0.573	-
2028	0.595	0.572	-



Smelter

Winter LF Summer LF MWH

Winter LF Summer LF MWH

	Winter LF	Summer LF	MWH
2013	0.641	0.595	-
2014	0.618	0.591	-
2015	0.609	0.585	-
2016	0.604	0.581	-
2017	0.602	0.579	-
2018	0.602	0.579	-
2019	0.602	0.579	-
2020	0.598	0.576	-
2021	0.598	0.575	-
2022	0.597	0.575	-
2023	0.597	0.574	-
2024	0.596	0.574	-
2025	0.596	0.573	-
2026	0.595	0.573	-
2027	0.595	0.572	-
2028	0.594	0.571	-

Winter LF Summer LF MWH

	Winter LF	Summer LF	MWH
2013	0.641	0.595	-



Smelter

	Winter LF	Summer LF	MWH
2014	0.618	0.591	-
2015	0.609	0.585	-
2016	0.604	0.581	-
2017	0.602	0.579	-
2018	0.602	0.579	-
2019	0.602	0.579	-
2020	0.601	0.578	-
2021	0.599	0.576	-
2022	0.598	0.575	-
2023	0.596	0.574	-
2024	0.596	0.573	-
2025	0.595	0.572	-
2026	0.594	0.572	-
2027	0.594	0.571	-
2028	0.593	0.570	-



Smelter

Winter LF Summer LF MWH

Winter LF Summer LF MWH

2013	0.641	0.595	-
2014	0.618	0.591	-
2015	0.609	0.585	-
2016	0.604	0.581	-
2017	0.602	0.579	-
2018	0.602	0.579	-
2019	0.602	0.579	-
2020	0.598	0.575	-
2021	0.597	0.575	-
2022	0.597	0.574	-
2023	0.596	0.574	-
2024	0.596	0.573	-
2025	0.595	0.573	-
2026	0.595	0.572	-
2027	0.594	0.572	-
2028	0.594	0.571	-

Winter LF Summer LF MWH

2013	0.641	0.595	-
2014	0.618	0.591	-



Smelter

	Winter LF	Summer LF	MWH
2015	0.609	0.585	-
2016	0.604	0.581	-
2017	0.602	0.579	-
2018	0.602	0.579	-
2019	0.602	0.579	-
2020	0.600	0.577	-
2021	0.599	0.577	-
2022	0.599	0.576	-
2023	0.598	0.575	-
2024	0.597	0.575	-
2025	0.597	0.574	-
2026	0.596	0.573	-
2027	0.596	0.573	-
2028	0.595	0.572	-



Smelter

Winter LF Summer LF MWH

Winter LF Summer LF MWH

2013	0.641	0.595	-
2014	0.618	0.591	-
2015	0.609	0.585	-
2016	0.604	0.581	-
2017	0.602	0.579	-
2018	0.602	0.579	-
2019	0.602	0.579	-
2020	0.599	0.577	-
2021	0.599	0.576	-
2022	0.598	0.576	-
2023	0.598	0.575	-
2024	0.597	0.575	-
2025	0.597	0.574	-
2026	0.596	0.574	-
2027	0.596	0.573	-
2028	0.595	0.573	-

Winter LF Summer LF MWH

2013	0.641	0.595	-
2014	0.618	0.591	-



Smelter

	Winter LF	Summer LF	MWH
2015	0.609	0.585	-
2016	0.604	0.581	-
2017	0.602	0.579	-
2018	0.602	0.579	-
2019	0.602	0.579	-
2020	0.599	0.576	-
2021	0.598	0.576	-
2022	0.598	0.575	-
2023	0.597	0.575	-
2024	0.597	0.574	-
2025	0.596	0.574	-
2026	0.596	0.573	-
2027	0.595	0.572	-
2028	0.595	0.572	-



Smelter

Winter LF Summer LF MWH

Winter LF Summer LF MWH

2013	0.641	0.595	-
2014	0.618	0.591	-
2015	0.609	0.585	-
2016	0.604	0.581	-
2017	0.602	0.579	-
2018	0.602	0.579	-
2019	0.602	0.579	-
2020	0.598	0.576	-
2021	0.598	0.575	-
2022	0.597	0.575	-
2023	0.597	0.574	-
2024	0.596	0.574	-
2025	0.596	0.573	-
2026	0.595	0.573	-
2027	0.595	0.572	-
2028	0.594	0.571	-

New Load (@genr)

BREC (Native, Smelter, New Load)

HMPL

Base Case Forecast

	Winter MW	Summer MW	MWH (@genr)	Winter MW (@genr)	Summer MW (@genr)	MWH (@genr)	Winter MW (@genr)	Summer MW (@genr)	MWH (@genr)	Winter MW (@genr)
2013	-	-	-	-	-	3,349,811	596	643	626,559	97
2014	-	-	-	-	-	3,408,043	629	658	628,649	97
2015	-	-	-	-	-	3,383,764	634	660	630,721	98
2016	-	-	681,141	103	103	4,053,760	741	766	632,755	98
2017	-	-	1,358,561	207	207	4,752,276	850	876	634,785	99
2018	-	-	2,037,841	310	310	5,453,351	958	984	636,785	99
2019	-	-	2,717,122	414	414	6,154,267	1,066	1,092	638,767	100
2020	-	-	4,086,849	620	620	7,547,006	1,278	1,304	640,733	100
2021	-	-	5,434,243	827	827	8,919,187	1,490	1,516	642,685	101
2022	-	-	5,434,243	827	827	8,945,002	1,495	1,522	644,607	101
2023	-	-	5,434,243	827	827	8,970,755	1,501	1,528	646,527	101
2024	-	-	5,449,132	827	827	9,011,376	1,507	1,534	648,414	102
2025	-	-	5,434,243	827	827	9,023,104	1,513	1,540	650,294	102
2026	-	-	5,434,243	827	827	9,050,411	1,519	1,546	652,174	103
2027	-	-	5,434,243	827	827	9,078,201	1,525	1,552	654,054	103
2028	-	-	5,449,132	827	827	9,122,331	1,531	1,559	655,935	104

\$10 fee@5% Growth per Year

	Winter MW	Summer MW	MWH (@genr)	Winter MW (@genr)	Summer MW (@genr)	MWH (@genr)	Winter MW (@genr)	Summer MW (@genr)	MWH (@genr)	Winter MW (@genr)
2013	-	-	-	-	-	3,349,811	596	643	626,484	97
2014	-	-	-	-	-	3,408,043	629	658	621,470	96
2015	-	-	-	-	-	3,383,764	634	660	616,959	96
2016	-	-	681,141	103	103	4,053,760	741	766	616,408	96
2017	-	-	1,358,561	207	207	4,752,276	850	876	617,928	96
2018	-	-	2,037,841	310	310	5,453,351	958	984	619,664	97

	New Load (@genr)			BREC (Native, Smelter, New Load)			HMPL			
	Base Case Forecast			Winter	Summer		Winter	Summer		Winter
	Winter MW	Summer MW	MWH (@genr)	MW (@genr)	MW (@genr)	MWH (@genr)	MW (@genr)	MW (@genr)	MWH (@genr)	MW (@genr)
2019	-	-	2,717,122	414	414	6,154,267	1,066	1,092	620,992	97
2020	-	-	4,086,356	620	620	7,546,096	1,277	1,304	622,096	97
2021	-	-	5,373,884	818	818	8,820,120	1,474	1,500	623,247	97
2022	-	-	5,318,163	809	809	8,753,928	1,464	1,490	624,165	98
2023	-	-	5,296,167	806	806	8,742,822	1,464	1,490	624,713	98
2024	-	-	5,307,356	806	806	8,776,918	1,468	1,495	625,624	98
2025	-	-	5,292,060	805	805	8,787,020	1,474	1,500	626,699	99
2026	-	-	5,287,969	805	805	8,806,800	1,479	1,505	627,179	99
2027	-	-	5,282,013	804	804	8,823,893	1,483	1,510	627,722	99
2028	-	-	5,290,768	803	803	8,857,217	1,487	1,515	628,491	99

New Load (@genr)

BREC (Native, Smelter, New Load)

HMPL

Base Case Forecast

Winter MW	Summer MW	MWH (@genr)	Winter MW (@genr)	Summer MW (@genr)	MWH (@genr)	Winter MW (@genr)	Summer MW (@genr)	MWH (@genr)	Winter MW (@genr)
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\$20 fee@5% Growth per Year

	Winter MW	Summer MW	MWH (@genr)	Winter MW (@genr)	Summer MW (@genr)	MWH (@genr)	Winter MW (@genr)	Summer MW (@genr)	MWH (@genr)	Winter MW (@genr)
2013	-	-	-	-	-	3,349,811	596	643	626,496	97
2014	-	-	-	-	-	3,408,043	629	658	615,152	95
2015	-	-	-	-	-	3,383,764	634	660	604,933	94
2016	-	-	681,141	103	103	4,053,760	741	766	599,423	93
2017	-	-	1,358,561	207	207	4,752,276	850	876	598,384	93
2018	-	-	2,037,841	310	310	5,453,351	958	984	599,161	93
2019	-	-	2,717,122	414	414	6,154,267	1,066	1,092	599,934	94
2020	-	-	3,778,884	574	574	6,978,301	1,184	1,208	600,930	94
2021	-	-	5,012,475	763	763	8,226,943	1,377	1,401	602,232	94
2022	-	-	4,995,084	760	760	8,222,127	1,377	1,401	602,931	94
2023	-	-	4,974,649	757	757	8,212,065	1,377	1,401	603,179	95
2024	-	-	4,970,413	754	754	8,219,706	1,377	1,401	603,614	95
2025	-	-	4,930,148	750	750	8,186,096	1,374	1,399	604,161	95
2026	-	-	4,904,392	746	746	8,167,975	1,372	1,397	603,707	95
2027	-	-	4,885,202	744	744	8,160,997	1,372	1,397	603,449	95
2028	-	-	4,887,876	742	742	8,182,739	1,375	1,400	603,622	95

\$30 fee@5% Growth per Year

	Winter MW	Summer MW	MWH (@genr)	Winter MW (@genr)	Summer MW (@genr)	MWH (@genr)	Winter MW (@genr)	Summer MW (@genr)	MWH (@genr)	Winter MW (@genr)
2013	-	-	-	-	-	3,349,811	596	643	626,513	97

	New Load (@genr)					BREC (Native, Smelter, New Load)			HMPL	
	Base Case Forecast		MWH (@genr)	Winter	Summer	MWH (@genr)	Winter	Summer	MWH (@genr)	Winter
	Winter	Summer		MW (@genr)	MW (@genr)		MW (@genr)	MW (@genr)		MW (@genr)
	MW	MW								
2014	-	-	-	-	-	3,408,043	629	658	609,644	94
2015	-	-	-	-	-	3,383,764	634	660	593,917	92
2016	-	-	681,141	103	103	4,053,760	741	766	582,832	91
2017	-	-	1,358,561	207	207	4,752,276	850	876	579,836	90
2018	-	-	2,037,841	310	310	5,453,351	958	984	579,774	90
2019	-	-	2,717,122	414	414	6,154,267	1,066	1,092	579,697	90
2020	-	-	4,086,537	620	620	7,546,430	1,278	1,304	579,604	91
2021	-	-	5,274,114	803	803	8,656,368	1,447	1,473	580,469	91
2022	-	-	5,123,567	780	780	8,433,616	1,412	1,437	580,574	91
2023	-	-	5,013,814	763	763	8,276,717	1,388	1,412	579,205	91
2024	-	-	4,987,511	757	757	8,247,982	1,382	1,407	579,084	91
2025	-	-	4,959,486	755	755	8,234,810	1,383	1,408	579,459	91
2026	-	-	4,945,739	753	753	8,236,836	1,385	1,410	579,641	91
2027	-	-	4,931,423	751	751	8,238,213	1,387	1,412	579,801	91
2028	-	-	4,938,665	750	750	8,267,764	1,390	1,416	580,441	92

	New Load (@genr)			BREC (Native, Smelter, New Load)			HMPL			
	Winter	Summer	MWH	Winter	Summer	MWH	Winter	Summer	MWH	Winter
	MW	MW	(@genr)	MW	MW	(@genr)	MW	MW	(@genr)	MW
Base Case Forecast										
	Winter	Summer	MWH	Winter	Summer	MWH	Winter	Summer	MWH	Winter
	MW	MW	(@genr)	MW	MW	(@genr)	MW	MW	(@genr)	MW
	\$20 fee economy-wide									
	Winter	Summer	MWH	Winter	Summer	MWH	Winter	Summer	MWH	Winter
	MW	MW	(@genr)	MW	MW	(@genr)	MW	MW	(@genr)	MW
2013	-	-	-	-	-	3,349,811	596	643	626,662	97
2014	-	-	-	-	-	3,408,043	629	658	614,836	95
2015	-	-	-	-	-	3,383,764	634	660	603,778	94
2016	-	-	681,141	103	103	4,053,760	741	766	598,523	93
2017	-	-	1,358,561	207	207	4,752,276	850	876	597,896	93
2018	-	-	2,037,841	310	310	5,453,351	958	984	599,182	93
2019	-	-	2,717,122	414	414	6,154,267	1,066	1,092	600,013	94
2020	-	-	3,779,601	574	574	6,979,625	1,185	1,209	600,776	94
2021	-	-	5,011,366	763	763	8,225,123	1,377	1,401	601,982	94
2022	-	-	4,993,993	760	760	8,220,331	1,377	1,402	602,628	94
2023	-	-	4,973,707	757	757	8,210,510	1,377	1,401	602,939	95
2024	-	-	4,961,622	753	753	8,205,169	1,375	1,399	603,267	95
2025	-	-	4,919,372	749	749	8,168,204	1,372	1,396	603,850	95
2026	-	-	4,890,009	744	744	8,144,021	1,369	1,394	603,676	95
2027	-	-	4,872,776	742	742	8,140,239	1,369	1,394	603,311	95
2028	-	-	4,876,386	740	740	8,163,504	1,372	1,397	603,207	95

Cap and trade, offsets										
	Winter	Summer	MWH	Winter	Summer	MWH	Winter	Summer	MWH	Winter
	MW	MW	(@genr)	MW	MW	(@genr)	MW	MW	(@genr)	MW
2013	-	-	-	-	-	3,349,811	596	643	626,542	97
2014	-	-	-	-	-	3,408,043	629	658	628,378	97

	New Load (@genr)					BREC (Native, Smelter, New Load)			HMPL	
	Base Case Forecast		MWH (@genr)	Winter	Summer	MWH (@genr)	Winter	Summer	MWH (@genr)	Winter
	Winter	Summer		MW (@genr)	MW (@genr)		MW (@genr)	MW (@genr)		MW (@genr)
	MW	MW								
2015	-	-	-	-	-	3,383,764	634	660	630,274	98
2016	-	-	681,141	103	103	4,053,760	741	766	629,606	98
2017	-	-	1,358,561	207	207	4,752,276	850	876	630,433	98
2018	-	-	2,037,841	310	310	5,453,351	958	984	631,977	98
2019	-	-	2,717,122	414	414	6,154,267	1,066	1,092	633,709	99
2020	-	-	3,986,340	605	605	7,361,402	1,247	1,273	635,238	99
2021	-	-	5,294,778	806	806	8,690,284	1,453	1,478	636,868	100
2022	-	-	5,283,406	804	804	8,696,717	1,455	1,481	637,176	100
2023	-	-	5,268,567	802	802	8,697,259	1,456	1,482	636,766	100
2024	-	-	5,270,853	800	800	8,716,553	1,458	1,485	636,709	100
2025	-	-	5,248,206	799	799	8,714,206	1,462	1,488	636,845	100
2026	-	-	5,233,713	797	797	8,716,440	1,463	1,490	636,839	100
2027	-	-	5,198,746	791	791	8,684,790	1,459	1,486	637,511	101
2028	-	-	5,167,147	784	784	8,650,264	1,453	1,479	638,597	101



New Load (@genr)

BREC (Native, Smelter, New Load)

HMPL

Base Case Forecast

	Winter MW	Summer MW	MWH (@genr)	Winter MW (@genr)	Summer MW (@genr)	MWH (@genr)	Winter MW (@genr)	Summer MW (@genr)	MWH (@genr)	Winter MW (@genr)
\$20 fee economy, deficit reduction										
	Winter MW	Summer MW	MWH (@genr)	Winter MW (@genr)	Summer MW (@genr)	MWH (@genr)	Winter MW (@genr)	Summer MW (@genr)	MWH (@genr)	Winter MW (@genr)
2013	-	-	-	-	-	3,349,811	596	643	626,755	97
2014	-	-	-	-	-	3,408,043	629	658	611,419	95
2015	-	-	-	-	-	3,383,764	634	660	599,228	93
2016	-	-	681,141	103	103	4,053,760	741	766	594,670	92
2017	-	-	1,358,561	207	207	4,752,276	850	876	593,974	92
2018	-	-	2,037,841	310	310	5,453,351	958	984	595,433	93
2019	-	-	2,717,122	414	414	6,154,267	1,066	1,092	596,576	93
2020	-	-	3,791,247	575	575	7,001,131	1,187	1,211	597,833	93
2021	-	-	5,027,336	765	765	8,251,333	1,380	1,404	599,799	94
2022	-	-	5,014,701	763	763	8,254,417	1,381	1,406	601,196	94
2023	-	-	4,997,979	761	761	8,250,577	1,382	1,406	602,133	94
2024	-	-	4,998,628	759	759	8,266,367	1,383	1,408	602,962	95
2025	-	-	4,966,858	756	756	8,247,051	1,383	1,408	603,850	95
2026	-	-	4,944,610	753	753	8,234,956	1,382	1,407	603,498	95
2027	-	-	4,929,934	750	750	8,235,725	1,384	1,409	603,579	95
2028	-	-	4,933,641	749	749	8,259,354	1,386	1,412	604,038	95

\$20 fee w/deficit reduction

	Winter MW	Summer MW	MWH (@genr)	Winter MW (@genr)	Summer MW (@genr)	MWH (@genr)	Winter MW (@genr)	Summer MW (@genr)	MWH (@genr)	Winter MW (@genr)
2013	-	-	-	-	-	3,349,811	596	643	626,528	97
2014	-	-	-	-	-	3,408,043	629	658	614,725	95

	New Load (@genr)			BREC (Native, Smelter, New Load)			HMPL			
	Base Case Forecast			Winter	Summer	Winter	Summer		Winter	
	Winter MW	Summer MW	MWH (@genr)	MW (@genr)	MW (@genr)	MWH (@genr)	MW (@genr)	MW (@genr)	MWH (@genr)	MW (@genr)
2015	-	-	-	-	-	3,383,764	634	660	604,314	94
2016	-	-	681,141	103	103	4,053,760	741	766	599,018	93
2017	-	-	1,358,561	207	207	4,752,276	850	876	598,195	93
2018	-	-	2,037,841	310	310	5,453,351	958	984	599,287	93
2019	-	-	2,717,122	414	414	6,154,267	1,066	1,092	600,270	94
2020	-	-	3,784,056	574	574	6,987,851	1,185	1,209	601,094	94
2021	-	-	5,014,590	763	763	8,230,413	1,377	1,401	602,409	94
2022	-	-	5,000,065	761	761	8,230,326	1,378	1,402	603,296	94
2023	-	-	4,983,139	758	758	8,226,079	1,378	1,403	603,962	95
2024	-	-	4,973,809	755	755	8,225,322	1,377	1,402	604,693	95
2025	-	-	4,935,194	751	751	8,194,475	1,375	1,400	605,449	95
2026	-	-	4,911,484	748	748	8,179,787	1,374	1,399	605,436	95
2027	-	-	4,896,548	745	745	8,179,952	1,375	1,400	604,660	95
2028	-	-	4,899,137	744	744	8,201,591	1,378	1,403	604,328	95

	New Load (@genr)			BREC (Native, Smelter, New Load)			HMPL			
Base Case Forecast	Winter MW	Summer MW	MWH (@genr)	Winter MW (@genr)	Summer MW (@genr)	MWH (@genr)	Winter MW (@genr)	Summer MW (@genr)	MWH (@genr)	Winter MW (@genr)
\$20 fee w/business rebate	Winter MW	Summer MW	MWH (@genr)	Winter MW (@genr)	Summer MW (@genr)	MWH (@genr)	Winter MW (@genr)	Summer MW (@genr)	MWH (@genr)	Winter MW (@genr)
2013	-	-	-	-	-	3,349,811	596	643	626,517	97
2014	-	-	-	-	-	3,408,043	629	658	614,736	95
2015	-	-	-	-	-	3,383,764	634	660	604,665	94
2016	-	-	681,141	103	103	4,053,760	741	766	599,603	93
2017	-	-	1,358,561	207	207	4,752,276	850	876	598,811	93
2018	-	-	2,037,841	310	310	5,453,351	958	984	599,461	93
2019	-	-	2,717,122	414	414	6,154,267	1,066	1,092	599,772	94
2020	-	-	3,777,993	573	573	6,976,656	1,184	1,208	600,296	94
2021	-	-	5,010,723	763	763	8,224,067	1,376	1,400	601,782	94
2022	-	-	4,993,934	760	760	8,220,234	1,377	1,401	602,423	94
2023	-	-	4,974,767	757	757	8,212,259	1,376	1,401	602,486	94
2024	-	-	4,965,821	754	754	8,212,113	1,375	1,400	602,817	95
2025	-	-	4,927,139	750	750	8,181,100	1,373	1,398	603,667	95
2026	-	-	4,905,113	747	747	8,169,175	1,372	1,397	603,783	95
2027	-	-	4,887,397	744	744	8,164,665	1,373	1,398	603,405	95
2028	-	-	4,888,243	742	742	8,183,353	1,375	1,400	603,536	95

Control Area

	Summer MW (@genr)	MWH (@genr)	Winter MW (@genr)	Summer MW (@genr)
2013	117	3,976,370	693	760
2014	117	4,036,693	727	775
2015	118	4,014,486	732	777
2016	118	4,686,514	839	884
2017	118	5,387,061	949	994
2018	119	6,090,136	1,057	1,102
2019	119	6,793,034	1,165	1,211
2020	120	8,187,739	1,378	1,423
2021	120	9,561,873	1,590	1,636
2022	120	9,589,609	1,596	1,642
2023	121	9,617,281	1,603	1,649
2024	121	9,659,790	1,609	1,655
2025	121	9,673,398	1,615	1,661
2026	122	9,702,585	1,621	1,668
2027	122	9,732,255	1,628	1,674
2028	122	9,778,266	1,634	1,682

	Summer MW (@genr)	MWH (@genr)	Winter MW (@genr)	Summer MW (@genr)
2013	117	3,976,295	693	760
2014	116	4,029,513	726	774
2015	115	4,000,724	730	775
2016	115	4,670,168	837	881
2017	115	5,370,204	947	991
2018	116	6,073,015	1,054	1,099

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Control Area

	Summer MW (@genr)	MWH (@genr)	Winter MW (@genr)	Summer MW (@genr)
2019	116	6,775,259	1,163	1,208
2020	116	8,168,192	1,375	1,420
2021	116	9,443,367	1,571	1,616
2022	116	9,378,093	1,562	1,607
2023	117	9,367,534	1,562	1,606
2024	117	9,402,542	1,567	1,611
2025	117	9,413,720	1,572	1,617
2026	117	9,433,980	1,577	1,622
2027	117	9,451,615	1,582	1,627
2028	117	9,485,708	1,587	1,632

Control Area

**Summer
MW
(@genr)** **MWH
(@genr)** **Winter
MW
(@genr)** **Summer
MW
(@genr)**

**Summer
MW
(@genr)** **MWH
(@genr)** **Winter
MW
(@genr)** **Summer
MW
(@genr)**

2013	117	3,976,308	693	760
2014	115	4,023,196	725	773
2015	113	3,988,697	728	773
2016	112	4,653,183	834	878
2017	112	5,350,660	944	988
2018	112	6,052,512	1,051	1,095
2019	112	6,754,202	1,159	1,204
2020	112	7,579,232	1,278	1,320
2021	112	8,829,175	1,471	1,513
2022	112	8,825,058	1,472	1,514
2023	113	8,815,244	1,471	1,514
2024	113	8,823,320	1,472	1,514
2025	113	8,790,257	1,469	1,512
2026	113	8,771,681	1,468	1,510
2027	113	8,764,447	1,468	1,510
2028	113	8,786,362	1,470	1,513

**Summer
MW
(@genr)** **MWH
(@genr)** **Winter
MW
(@genr)** **Summer
MW
(@genr)**

2013	117	3,976,324	693	760
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Control Area

	Summer MW (@genr)	MWH (@genr)	Winter MW (@genr)	Summer MW (@genr)
2014	114	4,017,688	724	772
2015	111	3,977,681	726	771
2016	109	4,636,592	831	875
2017	108	5,332,112	941	984
2018	108	6,033,125	1,048	1,092
2019	108	6,733,965	1,156	1,200
2020	108	8,126,034	1,368	1,412
2021	108	9,236,837	1,538	1,581
2022	108	9,014,190	1,503	1,545
2023	108	8,855,922	1,478	1,520
2024	108	8,827,066	1,473	1,515
2025	108	8,814,269	1,475	1,516
2026	108	8,816,477	1,476	1,518
2027	108	8,818,014	1,478	1,520
2028	108	8,848,206	1,482	1,524

Control Area

	Summer MW (@genr)	MWH (@genr)	Winter MW (@genr)	Summer MW (@genr)
2013	117	3,976,474	693	760
2014	115	4,022,879	724	773
2015	113	3,987,542	728	772
2016	112	4,652,282	834	878
2017	112	5,350,172	943	988
2018	112	6,052,533	1,051	1,095
2019	112	6,754,280	1,159	1,204
2020	112	7,580,401	1,279	1,321
2021	112	8,827,104	1,471	1,513
2022	112	8,822,959	1,472	1,514
2023	112	8,813,449	1,471	1,514
2024	113	8,808,436	1,470	1,512
2025	113	8,772,054	1,467	1,509
2026	113	8,747,697	1,464	1,506
2027	113	8,743,550	1,465	1,507
2028	113	8,766,711	1,468	1,510

	Summer MW (@genr)	MWH (@genr)	Winter MW (@genr)	Summer MW (@genr)
2013	117	3,976,354	693	760
2014	117	4,036,421	727	775

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Control Area

	Summer MW (@genr)	MWH (@genr)	Winter MW (@genr)	Summer MW (@genr)
2015	118	4,014,039	732	777
2016	117	4,683,366	839	884
2017	118	5,382,709	949	994
2018	118	6,085,328	1,056	1,101
2019	118	6,787,976	1,165	1,210
2020	118	7,996,640	1,346	1,391
2021	119	9,327,152	1,552	1,597
2022	119	9,333,893	1,555	1,600
2023	119	9,334,025	1,556	1,601
2024	119	9,353,261	1,558	1,603
2025	119	9,351,050	1,562	1,607
2026	119	9,353,279	1,564	1,609
2027	119	9,322,301	1,560	1,605
2028	119	9,288,861	1,553	1,598

Control Area

	Summer MW (@genr)	MWH (@genr)	Winter MW (@genr)	Summer MW (@genr)
	Summer MW (@genr)	MWH (@genr)	Winter MW (@genr)	Summer MW (@genr)
2013	117	3,976,567	693	760
2014	114	4,019,462	724	772
2015	112	3,982,993	727	772
2016	111	4,648,430	833	877
2017	111	5,346,250	943	987
2018	111	6,048,785	1,050	1,095
2019	111	6,750,843	1,159	1,203
2020	112	7,598,963	1,280	1,323
2021	112	8,851,132	1,474	1,516
2022	112	8,855,613	1,476	1,518
2023	112	8,852,710	1,476	1,519
2024	112	8,869,329	1,478	1,520
2025	113	8,850,901	1,478	1,521
2026	113	8,838,453	1,477	1,520
2027	113	8,839,304	1,479	1,521
2028	113	8,863,392	1,482	1,525

	Summer MW (@genr)	MWH (@genr)	Winter MW (@genr)	Summer MW (@genr)
2013	117	3,976,339	693	760
2014	115	4,022,768	724	773

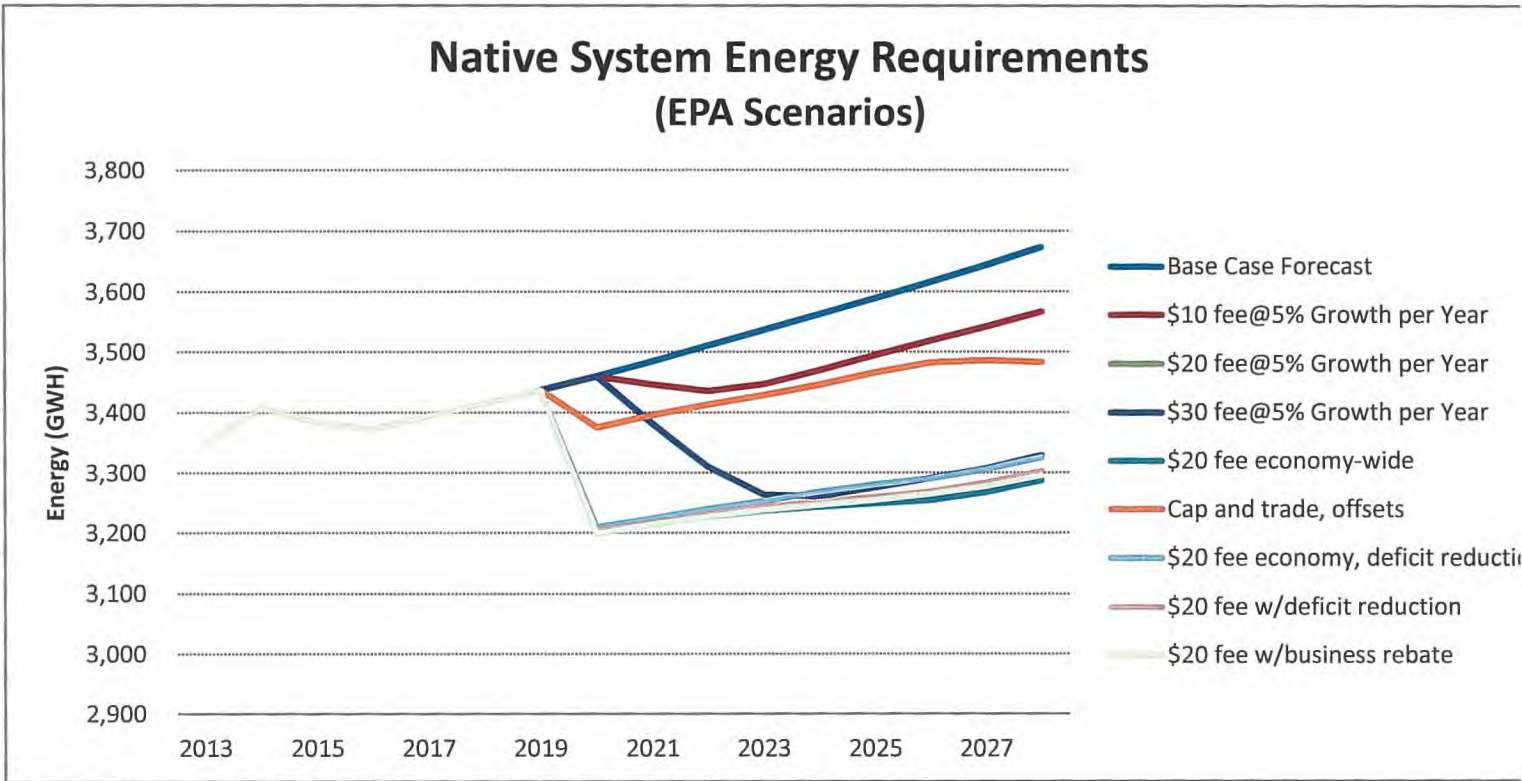
Control Area

	Summer MW (@genr)	MWH (@genr)	Winter MW (@genr)	Summer MW (@genr)
2015	113	3,988,079	728	773
2016	112	4,652,778	834	878
2017	112	5,350,471	944	988
2018	112	6,052,638	1,051	1,095
2019	112	6,754,537	1,159	1,204
2020	112	7,588,945	1,279	1,321
2021	112	8,832,822	1,471	1,513
2022	113	8,833,622	1,472	1,515
2023	113	8,830,041	1,473	1,516
2024	113	8,830,015	1,472	1,514
2025	113	8,799,925	1,470	1,513
2026	113	8,785,223	1,469	1,512
2027	113	8,784,611	1,470	1,513
2028	113	8,805,919	1,473	1,516

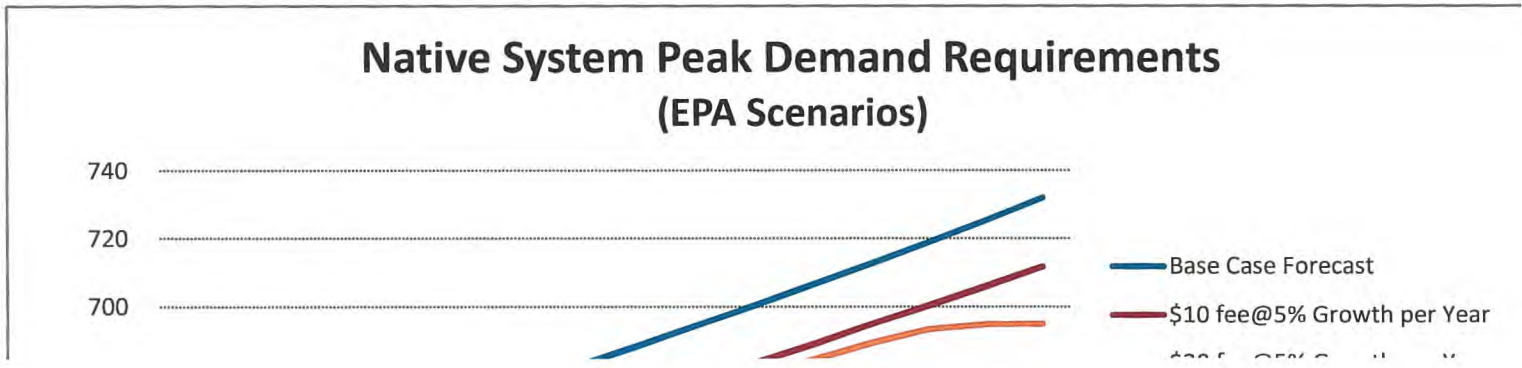
Control Area

	Summer MW (@genr)	MWH (@genr)	Winter MW (@genr)	Summer MW (@genr)
	Summer MW (@genr)	MWH (@genr)	Winter MW (@genr)	Summer MW (@genr)
2013	117	3,976,329	693	760
2014	115	4,022,780	724	773
2015	113	3,988,430	728	773
2016	112	4,653,362	834	878
2017	112	5,351,087	944	988
2018	112	6,052,812	1,051	1,095
2019	112	6,754,040	1,159	1,204
2020	112	7,576,952	1,277	1,320
2021	112	8,825,849	1,470	1,513
2022	112	8,822,657	1,471	1,513
2023	112	8,814,746	1,471	1,513
2024	112	8,814,930	1,470	1,512
2025	113	8,784,766	1,468	1,511
2026	113	8,772,959	1,468	1,510
2027	113	8,768,069	1,468	1,510
2028	113	8,786,890	1,470	1,513

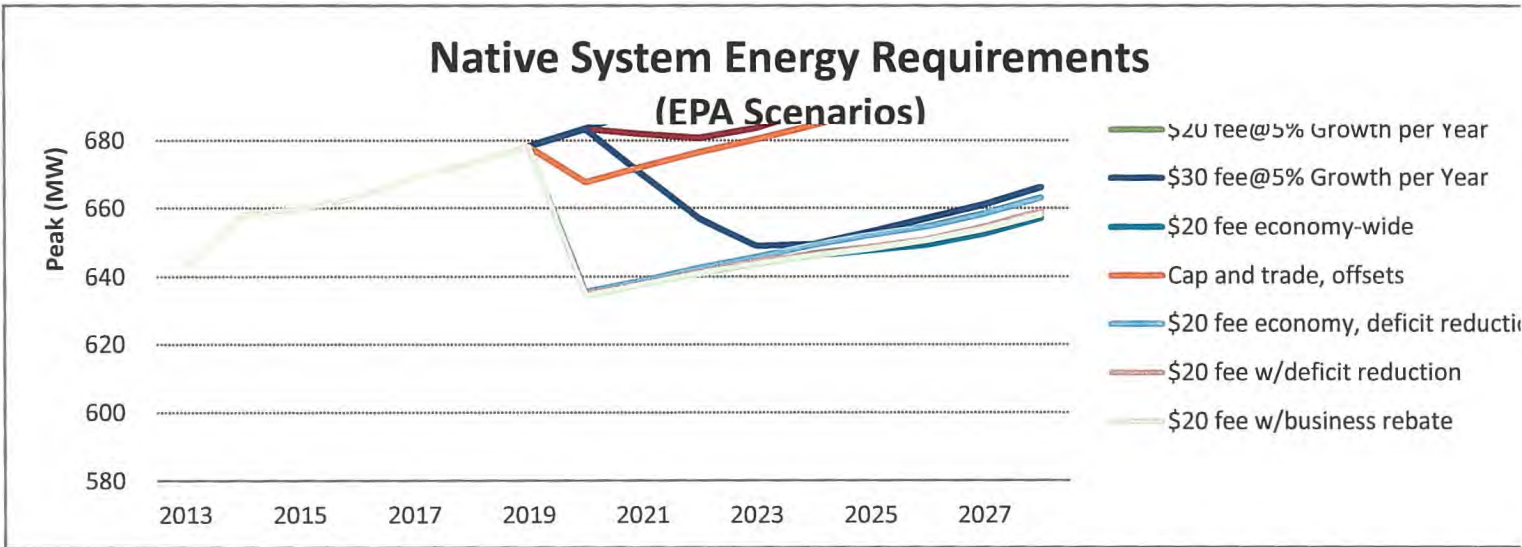
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Native System Energy Requirements (EPA Scenarios)

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Native System Energy Requirements (EPA Scenarios)

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Energy Consumption by Sector and Source, East South Central
 (quadrillion Btu, unless otherwise noted)
 Annual Energy Outlook 2013 Supplement (Source=Electricity)

Year	Scenario	YrScenario	Residential	Commercial	Industrial
2010	Actual	2010Actual	0.443670	0.292060	0.416290
2011	Actual	2011Actual	0.416201	0.284970	0.437240
2012	Reference	2012Reference	0.400143	0.286660	0.442780
2012	\$10 fee@5%	2012\$10 fee@5%	0.400143	0.286660	0.442977
2012	\$20 fee@5%	2012\$20 fee@5%	0.400143	0.286660	0.443269
2012	\$30 fee@5%	2012\$30 fee@5%	0.400143	0.286660	0.443360
2013	Reference	2013Reference	0.398745	0.283266	0.441262
2013	\$10 fee@5%	2013\$10 fee@5%	0.398699	0.283240	0.441195
2013	\$20 fee@5%	2013\$20 fee@5%	0.398692	0.283236	0.441236
2013	\$30 fee@5%	2013\$30 fee@5%	0.398707	0.283241	0.441246
2014	Reference	2014Reference	0.400530	0.286056	0.451008
2014	\$10 fee@5%	2014\$10 fee@5%	0.397068	0.283759	0.443076
2014	\$20 fee@5%	2014\$20 fee@5%	0.394063	0.281966	0.435690
2014	\$30 fee@5%	2014\$30 fee@5%	0.391319	0.280188	0.429728
2015	Reference	2015Reference	0.402963	0.287074	0.472312
2015	\$10 fee@5%	2015\$10 fee@5%	0.395859	0.282504	0.457240
2015	\$20 fee@5%	2015\$20 fee@5%	0.389708	0.278931	0.443310
2015	\$30 fee@5%	2015\$30 fee@5%	0.384104	0.275423	0.430903
2016	Reference	2016Reference	0.405810	0.288437	0.484330
2016	\$10 fee@5%	2016\$10 fee@5%	0.396950	0.282848	0.466753
2016	\$20 fee@5%	2016\$20 fee@5%	0.388512	0.278040	0.445895
2016	\$30 fee@5%	2016\$30 fee@5%	0.379771	0.272735	0.427137
2017	Reference	2017Reference	0.409277	0.290288	0.497556
2017	\$10 fee@5%	2017\$10 fee@5%	0.400250	0.284550	0.478727
2017	\$20 fee@5%	2017\$20 fee@5%	0.390882	0.279135	0.453440
2017	\$30 fee@5%	2017\$30 fee@5%	0.380545	0.272938	0.433012
2018	Reference	2018Reference	0.414094	0.292876	0.506770
2018	\$10 fee@5%	2018\$10 fee@5%	0.405197	0.287163	0.486667
2018	\$20 fee@5%	2018\$20 fee@5%	0.395413	0.281426	0.459618

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2018	\$30 fee@5%	2018\$30 fee@5%	0.384254	0.274724	0.438584
2019	Reference	2019Reference	0.420284	0.296139	0.516047
2019	\$10 fee@5%	2019\$10 fee@5%	0.411252	0.290360	0.494127
2019	\$20 fee@5%	2019\$20 fee@5%	0.401156	0.284404	0.465867
2019	\$30 fee@5%	2019\$30 fee@5%	0.389486	0.277408	0.443340
2020	Reference	2020Reference	0.423542	0.299117	0.521911
2020	\$10 fee@5%	2020\$10 fee@5%	0.414191	0.293043	0.498488
2020	\$20 fee@5%	2020\$20 fee@5%	0.404040	0.286901	0.469993
2020	\$30 fee@5%	2020\$30 fee@5%	0.391491	0.279067	0.447012
2021	Reference	2021Reference	0.427700	0.302184	0.526896
2021	\$10 fee@5%	2021\$10 fee@5%	0.417888	0.295738	0.502415
2021	\$20 fee@5%	2021\$20 fee@5%	0.407713	0.289424	0.474273
2021	\$30 fee@5%	2021\$30 fee@5%	0.394825	0.281097	0.451142
2022	Reference	2022Reference	0.432783	0.305217	0.533381
2022	\$10 fee@5%	2022\$10 fee@5%	0.422370	0.298331	0.507503
2022	\$20 fee@5%	2022\$20 fee@5%	0.411995	0.291791	0.479008
2022	\$30 fee@5%	2022\$30 fee@5%	0.398848	0.283089	0.454922
2023	Reference	2023Reference	0.438544	0.308454	0.536266
2023	\$10 fee@5%	2023\$10 fee@5%	0.427361	0.301042	0.508546
2023	\$20 fee@5%	2023\$20 fee@5%	0.416653	0.294251	0.479862
2023	\$30 fee@5%	2023\$30 fee@5%	0.402172	0.284447	0.454960
2024	Reference	2024Reference	0.444534	0.311859	0.538414
2024	\$10 fee@5%	2024\$10 fee@5%	0.432716	0.303936	0.509636
2024	\$20 fee@5%	2024\$20 fee@5%	0.421568	0.296815	0.480604
2024	\$30 fee@5%	2024\$30 fee@5%	0.406117	0.286135	0.456651
2025	Reference	2025Reference	0.450815	0.315382	0.538632
2025	\$10 fee@5%	2025\$10 fee@5%	0.438427	0.306987	0.509141
2025	\$20 fee@5%	2025\$20 fee@5%	0.426749	0.299476	0.479916
2025	\$30 fee@5%	2025\$30 fee@5%	0.410919	0.288317	0.456508
2026	Reference	2026Reference	0.456994	0.319021	0.537470
2026	\$10 fee@5%	2026\$10 fee@5%	0.443846	0.309964	0.506396
2026	\$20 fee@5%	2026\$20 fee@5%	0.431309	0.301911	0.476675
2026	\$30 fee@5%	2026\$30 fee@5%	0.415954	0.290708	0.454108
2027	Reference	2027Reference	0.463414	0.322747	0.534795

2027	\$10 fee@5%	2027\$10 fee@5%	0.449370	0.312918	0.502697
2027	\$20 fee@5%	2027\$20 fee@5%	0.435906	0.304289	0.472992
2027	\$30 fee@5%	2027\$30 fee@5%	0.420881	0.293020	0.450996
2028	Reference	2028Reference	0.469656	0.326450	0.532762
2028	\$10 fee@5%	2028\$10 fee@5%	0.454830	0.315943	0.499858
2028	\$20 fee@5%	2028\$20 fee@5%	0.440581	0.306807	0.470334
2028	\$30 fee@5%	2028\$30 fee@5%	0.425640	0.295348	0.449499
2029	Reference	2029Reference	0.475812	0.330245	0.530793
2029	\$10 fee@5%	2029\$10 fee@5%	0.460208	0.319068	0.497145
2029	\$20 fee@5%	2029\$20 fee@5%	0.444659	0.309135	0.467234
2029	\$30 fee@5%	2029\$30 fee@5%	0.429998	0.297513	0.447768
2030	Reference	2030Reference	0.482332	0.333594	0.529731
2030	\$10 fee@5%	2030\$10 fee@5%	0.465892	0.321832	0.494894
2030	\$20 fee@5%	2030\$20 fee@5%	0.448686	0.310724	0.464934
2030	\$30 fee@5%	2030\$30 fee@5%	0.434912	0.299405	0.447264
2031	Reference	2031Reference	0.488805	0.337086	0.528569
2031	\$10 fee@5%	2031\$10 fee@5%	0.471390	0.324642	0.492848
2031	\$20 fee@5%	2031\$20 fee@5%	0.452907	0.312461	0.462869
2031	\$30 fee@5%	2031\$30 fee@5%	0.439895	0.301470	0.446304
2032	Reference	2032Reference	0.495207	0.340700	0.527059
2032	\$10 fee@5%	2032\$10 fee@5%	0.476914	0.327623	0.490423
2032	\$20 fee@5%	2032\$20 fee@5%	0.456124	0.313644	0.459908
2032	\$30 fee@5%	2032\$30 fee@5%	0.445380	0.303902	0.444780
2033	Reference	2033Reference	0.501428	0.344422	0.525791
2033	\$10 fee@5%	2033\$10 fee@5%	0.481984	0.330532	0.487962
2033	\$20 fee@5%	2033\$20 fee@5%	0.459260	0.314907	0.457192
2033	\$30 fee@5%	2033\$30 fee@5%	0.450633	0.306337	0.442760
2034	Reference	2034Reference	0.507543	0.348114	0.524955
2034	\$10 fee@5%	2034\$10 fee@5%	0.486965	0.333341	0.486358
2034	\$20 fee@5%	2034\$20 fee@5%	0.463157	0.316601	0.454850
2034	\$30 fee@5%	2034\$30 fee@5%	0.455396	0.308456	0.440379
2035	Reference	2035Reference	0.513604	0.351806	0.523655
2035	\$10 fee@5%	2035\$10 fee@5%	0.491948	0.336192	0.484194
2035	\$20 fee@5%	2035\$20 fee@5%	0.467904	0.318798	0.452705

2035	\$30 fee@5%	2035\$30 fee@5%	0.460594	0.310826	0.439133
2036	Reference	2036Reference	0.520633	0.355838	0.522678
2036	\$10 fee@5%	2036\$10 fee@5%	0.497687	0.339273	0.482588
2036	\$20 fee@5%	2036\$20 fee@5%	0.472755	0.320783	0.451606
2036	\$30 fee@5%	2036\$30 fee@5%	0.467408	0.313888	0.439663
2037	Reference	2037Reference	0.528109	0.359788	0.522750
2037	\$10 fee@5%	2037\$10 fee@5%	0.503537	0.342096	0.482211
2037	\$20 fee@5%	2037\$20 fee@5%	0.478424	0.322903	0.452324
2037	\$30 fee@5%	2037\$30 fee@5%	0.475032	0.317087	0.441091
2038	Reference	2038Reference	0.535188	0.363653	0.522862
2038	\$10 fee@5%	2038\$10 fee@5%	0.509361	0.344930	0.482938
2038	\$20 fee@5%	2038\$20 fee@5%	0.484674	0.325447	0.453487
2038	\$30 fee@5%	2038\$30 fee@5%	0.482634	0.320378	0.442032
2039	Reference	2039Reference	0.542252	0.367377	0.523061
2039	\$10 fee@5%	2039\$10 fee@5%	0.515218	0.347653	0.483215
2039	\$20 fee@5%	2039\$20 fee@5%	0.491202	0.328082	0.453814
2039	\$30 fee@5%	2039\$30 fee@5%	0.490282	0.323604	0.443751
2040	Reference	2040Reference	0.549644	0.370929	0.523706
2040	\$10 fee@5%	2040\$10 fee@5%	0.521217	0.350046	0.483235
2040	\$20 fee@5%	2040\$20 fee@5%	0.498639	0.330853	0.454557
2040	\$30 fee@5%	2040\$30 fee@5%	0.498575	0.326677	0.447175
2010	2010	20102010			
2011	2011	20112011			
2012	\$20 fee economy-wide	2012\$20 fee economy-wide			
2012	Cap and trade, offsets	2012Cap and trade, offsets			
2012	\$20 fee economy, deficit reduction	2012\$20 fee economy, deficit reduction			
2012	\$20 fee w/deficit reduction	2012\$20 fee w/deficit reduction			
2012	\$20 fee w/business rebate	2012\$20 fee w/business rebate			
2013	\$20 fee economy-wide	2013\$20 fee economy-wide	0.398709	0.283239	0.441563
2013	Cap and trade, offsets	2013Cap and trade, offsets	0.398727	0.283254	0.441266
2013	\$20 fee economy, deficit reduction	2013\$20 fee economy, deficit reduction	0.398707	0.283241	0.441578
2013	\$20 fee w/deficit reduction	2013\$20 fee w/deficit reduction	0.398699	0.283236	0.441294
2013	\$20 fee w/business rebate	2013\$20 fee w/business rebate	0.398706	0.283243	0.441254
2014	\$20 fee economy-wide	2014\$20 fee economy-wide	0.394079	0.281907	0.435083

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2014	Cap and trade, offsets	2014Cap and trade, offsets	0.400388	0.285966	0.450726
2014	\$20 fee economy, deficit reduction	2014\$20 fee economy, deficit reduction	0.393237	0.281989	0.432697
2014	\$20 fee w/deficit reduction	2014\$20 fee w/deficit reduction	0.393753	0.281973	0.435108
2014	\$20 fee w/business rebate	2014\$20 fee w/business rebate	0.393788	0.281983	0.435077
2015	\$20 fee economy-wide	2015\$20 fee economy-wide	0.389583	0.278832	0.441025
2015	Cap and trade, offsets	2015Cap and trade, offsets	0.402726	0.286928	0.471825
2015	\$20 fee economy, deficit reduction	2015\$20 fee economy, deficit reduction	0.388768	0.279073	0.438309
2015	\$20 fee w/deficit reduction	2015\$20 fee w/deficit reduction	0.389370	0.278967	0.442258
2015	\$20 fee w/business rebate	2015\$20 fee w/business rebate	0.389463	0.278962	0.442946
2016	\$20 fee economy-wide	2016\$20 fee economy-wide	0.388337	0.277855	0.444346
2016	Cap and trade, offsets	2016Cap and trade, offsets	0.405215	0.288119	0.478345
2016	\$20 fee economy, deficit reduction	2016\$20 fee economy, deficit reduction	0.387549	0.278132	0.443332
2016	\$20 fee w/deficit reduction	2016\$20 fee w/deficit reduction	0.388036	0.277921	0.445733
2016	\$20 fee w/business rebate	2016\$20 fee w/business rebate	0.388363	0.278025	0.446510
2017	\$20 fee economy-wide	2017\$20 fee economy-wide	0.390853	0.278970	0.452611
2017	Cap and trade, offsets	2017Cap and trade, offsets	0.408658	0.289974	0.488612
2017	\$20 fee economy, deficit reduction	2017\$20 fee economy, deficit reduction	0.389927	0.279211	0.452565
2017	\$20 fee w/deficit reduction	2017\$20 fee w/deficit reduction	0.390326	0.278954	0.453982
2017	\$20 fee w/business rebate	2017\$20 fee w/business rebate	0.390796	0.279141	0.454538
2018	\$20 fee economy-wide	2018\$20 fee economy-wide	0.395598	0.281339	0.459592
2018	Cap and trade, offsets	2018Cap and trade, offsets	0.413579	0.292639	0.496332
2018	\$20 fee economy, deficit reduction	2018\$20 fee economy, deficit reduction	0.394490	0.281537	0.460573
2018	\$20 fee w/deficit reduction	2018\$20 fee w/deficit reduction	0.394889	0.281271	0.460827
2018	\$20 fee w/business rebate	2018\$20 fee w/business rebate	0.395302	0.281414	0.460490
2019	\$20 fee economy-wide	2019\$20 fee economy-wide	0.401467	0.284400	0.465682
2019	Cap and trade, offsets	2019Cap and trade, offsets	0.419954	0.296037	0.504371
2019	\$20 fee economy, deficit reduction	2019\$20 fee economy, deficit reduction	0.400169	0.284536	0.468096
2019	\$20 fee w/deficit reduction	2019\$20 fee w/deficit reduction	0.400650	0.284261	0.467551
2019	\$20 fee w/business rebate	2019\$20 fee w/business rebate	0.400756	0.284183	0.466350
2020	\$20 fee economy-wide	2020\$20 fee economy-wide	0.404431	0.286943	0.469060
2020	Cap and trade, offsets	2020Cap and trade, offsets	0.423024	0.298897	0.509506
2020	\$20 fee economy, deficit reduction	2020\$20 fee economy, deficit reduction	0.402959	0.286981	0.473197
2020	\$20 fee w/deficit reduction	2020\$20 fee w/deficit reduction	0.403340	0.286628	0.471732
2020	\$20 fee w/business rebate	2020\$20 fee w/business rebate	0.403201	0.286357	0.470427

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2021	\$20 fee economy-wide	2021\$20 fee economy-wide	0.408085	0.289448	0.473157
2021	Cap and trade, offsets	2021Cap and trade, offsets	0.426962	0.301862	0.514059
2021	\$20 fee economy, deficit reduction	2021\$20 fee economy, deficit reduction	0.406543	0.289445	0.478788
2021	\$20 fee w/deficit reduction	2021\$20 fee w/deficit reduction	0.406784	0.288999	0.476593
2021	\$20 fee w/business rebate	2021\$20 fee w/business rebate	0.406763	0.288821	0.475387
2022	\$20 fee economy-wide	2022\$20 fee economy-wide	0.412418	0.291854	0.477625
2022	Cap and trade, offsets	2022Cap and trade, offsets	0.430926	0.304239	0.518933
2022	\$20 fee economy, deficit reduction	2022\$20 fee economy, deficit reduction	0.410883	0.291872	0.484861
2022	\$20 fee w/deficit reduction	2022\$20 fee w/deficit reduction	0.410975	0.291326	0.481985
2022	\$20 fee w/business rebate	2022\$20 fee w/business rebate	0.411056	0.291228	0.479889
2023	\$20 fee economy-wide	2023\$20 fee economy-wide	0.417236	0.294414	0.478270
2023	Cap and trade, offsets	2023Cap and trade, offsets	0.435083	0.306549	0.519521
2023	\$20 fee economy, deficit reduction	2023\$20 fee economy, deficit reduction	0.415588	0.294431	0.487001
2023	\$20 fee w/deficit reduction	2023\$20 fee w/deficit reduction	0.415777	0.293888	0.483513
2023	\$20 fee w/business rebate	2023\$20 fee w/business rebate	0.415682	0.293651	0.480370
2024	\$20 fee economy-wide	2024\$20 fee economy-wide	0.422248	0.297063	0.478488
2024	Cap and trade, offsets	2024Cap and trade, offsets	0.439560	0.308938	0.520323
2024	\$20 fee economy, deficit reduction	2024\$20 fee economy, deficit reduction	0.420402	0.297058	0.488486
2024	\$20 fee w/deficit reduction	2024\$20 fee w/deficit reduction	0.420775	0.296531	0.484743
2024	\$20 fee w/business rebate	2024\$20 fee w/business rebate	0.420531	0.296171	0.480987
2025	\$20 fee economy-wide	2025\$20 fee economy-wide	0.427557	0.299851	0.477538
2025	Cap and trade, offsets	2025Cap and trade, offsets	0.444438	0.311489	0.519480
2025	\$20 fee economy, deficit reduction	2025\$20 fee economy, deficit reduction	0.425232	0.299627	0.488602
2025	\$20 fee w/deficit reduction	2025\$20 fee w/deficit reduction	0.425974	0.299221	0.484479
2025	\$20 fee w/business rebate	2025\$20 fee w/business rebate	0.425858	0.298942	0.480665
2026	\$20 fee economy-wide	2026\$20 fee economy-wide	0.432509	0.302536	0.474134
2026	Cap and trade, offsets	2026Cap and trade, offsets	0.449267	0.314155	0.516841
2026	\$20 fee economy, deficit reduction	2026\$20 fee economy, deficit reduction	0.429495	0.301982	0.485946
2026	\$20 fee w/deficit reduction	2026\$20 fee w/deficit reduction	0.430719	0.301779	0.481866
2026	\$20 fee w/business rebate	2026\$20 fee w/business rebate	0.430779	0.301622	0.477975
2027	\$20 fee economy-wide	2027\$20 fee economy-wide	0.437185	0.305008	0.469986
2027	Cap and trade, offsets	2027Cap and trade, offsets	0.454720	0.317113	0.513584
2027	\$20 fee economy, deficit reduction	2027\$20 fee economy, deficit reduction	0.433556	0.304178	0.483020
2027	\$20 fee w/deficit reduction	2027\$20 fee w/deficit reduction	0.434769	0.303881	0.477949

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2027	\$20 fee w/business rebate	2027\$20 fee w/business rebate	0.435363	0.304007	0.473976
2028	\$20 fee economy-wide	2028\$20 fee economy-wide	0.441815	0.307550	0.466709
2028	Cap and trade, offsets	2028Cap and trade, offsets	0.460284	0.320192	0.511361
2028	\$20 fee economy, deficit reduction	2028\$20 fee economy, deficit reduction	0.437726	0.306531	0.480967
2028	\$20 fee w/deficit reduction	2028\$20 fee w/deficit reduction	0.438849	0.306103	0.475166
2028	\$20 fee w/business rebate	2028\$20 fee w/business rebate	0.439888	0.306454	0.471487
2029	\$20 fee economy-wide	2029\$20 fee economy-wide	0.446014	0.309999	0.463253
2029	Cap and trade, offsets	2029Cap and trade, offsets	0.465372	0.323115	0.508328
2029	\$20 fee economy, deficit reduction	2029\$20 fee economy, deficit reduction	0.442025	0.309068	0.478778
2029	\$20 fee w/deficit reduction	2029\$20 fee w/deficit reduction	0.443103	0.308499	0.472600
2029	\$20 fee w/business rebate	2029\$20 fee w/business rebate	0.443925	0.308699	0.468761
2030	\$20 fee economy-wide	2030\$20 fee economy-wide	0.450177	0.311850	0.460428
2030	Cap and trade, offsets	2030Cap and trade, offsets	0.470514	0.325546	0.505550
2030	\$20 fee economy, deficit reduction	2030\$20 fee economy, deficit reduction	0.446325	0.310946	0.476873
2030	\$20 fee w/deficit reduction	2030\$20 fee w/deficit reduction	0.447540	0.310335	0.470413
2030	\$20 fee w/business rebate	2030\$20 fee w/business rebate	0.448056	0.310348	0.466613
2031	\$20 fee economy-wide	2031\$20 fee economy-wide	0.453627	0.313190	0.457626
2031	Cap and trade, offsets	2031Cap and trade, offsets	0.475658	0.328164	0.503377
2031	\$20 fee economy, deficit reduction	2031\$20 fee economy, deficit reduction	0.450799	0.312954	0.475655
2031	\$20 fee w/deficit reduction	2031\$20 fee w/deficit reduction	0.451116	0.311625	0.468361
2031	\$20 fee w/business rebate	2031\$20 fee w/business rebate	0.451829	0.311774	0.464156
2032	\$20 fee economy-wide	2032\$20 fee economy-wide	0.456450	0.314228	0.454872
2032	Cap and trade, offsets	2032Cap and trade, offsets	0.481084	0.331097	0.501240
2032	\$20 fee economy, deficit reduction	2032\$20 fee economy, deficit reduction	0.454429	0.314599	0.474313
2032	\$20 fee w/deficit reduction	2032\$20 fee w/deficit reduction	0.454223	0.312745	0.466233
2032	\$20 fee w/business rebate	2032\$20 fee w/business rebate	0.455103	0.313016	0.461533
2033	\$20 fee economy-wide	2033\$20 fee economy-wide	0.459215	0.315385	0.451703
2033	Cap and trade, offsets	2033Cap and trade, offsets	0.485733	0.333716	0.498755
2033	\$20 fee economy, deficit reduction	2033\$20 fee economy, deficit reduction	0.457506	0.316109	0.472648
2033	\$20 fee w/deficit reduction	2033\$20 fee w/deficit reduction	0.457522	0.314110	0.463788
2033	\$20 fee w/business rebate	2033\$20 fee w/business rebate	0.458628	0.314509	0.459090
2034	\$20 fee economy-wide	2034\$20 fee economy-wide	0.463179	0.317209	0.449722
2034	Cap and trade, offsets	2034Cap and trade, offsets	0.488254	0.335064	0.494734
2034	\$20 fee economy, deficit reduction	2034\$20 fee economy, deficit reduction	0.461267	0.318026	0.471904

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2034	\$20 fee w/deficit reduction	2034\$20 fee w/deficit reduction	0.461775	0.316003	0.462029
2034	\$20 fee w/business rebate	2034\$20 fee w/business rebate	0.462645	0.316276	0.456947
2035	\$20 fee economy-wide	2035\$20 fee economy-wide	0.468083	0.319597	0.447366
2035	Cap and trade, offsets	2035Cap and trade, offsets	0.489460	0.335796	0.489386
2035	\$20 fee economy, deficit reduction	2035\$20 fee economy, deficit reduction	0.465506	0.320199	0.471092
2035	\$20 fee w/deficit reduction	2035\$20 fee w/deficit reduction	0.466437	0.318118	0.460113
2035	\$20 fee w/business rebate	2035\$20 fee w/business rebate	0.467273	0.318380	0.454497
2036	\$20 fee economy-wide	2036\$20 fee economy-wide	0.473995	0.322327	0.446682
2036	Cap and trade, offsets	2036Cap and trade, offsets	0.491795	0.336930	0.485001
2036	\$20 fee economy, deficit reduction	2036\$20 fee economy, deficit reduction	0.470592	0.322646	0.471611
2036	\$20 fee w/deficit reduction	2036\$20 fee w/deficit reduction	0.471740	0.320367	0.459691
2036	\$20 fee w/business rebate	2036\$20 fee w/business rebate	0.472591	0.320617	0.453911
2037	\$20 fee economy-wide	2037\$20 fee economy-wide	0.480828	0.325286	0.448133
2037	Cap and trade, offsets	2037Cap and trade, offsets	0.495487	0.338493	0.481950
2037	\$20 fee economy, deficit reduction	2037\$20 fee economy, deficit reduction	0.476242	0.325110	0.474680
2037	\$20 fee w/deficit reduction	2037\$20 fee w/deficit reduction	0.477728	0.322716	0.460820
2037	\$20 fee w/business rebate	2037\$20 fee w/business rebate	0.478656	0.322987	0.455160
2038	\$20 fee economy-wide	2038\$20 fee economy-wide	0.487755	0.328428	0.449119
2038	Cap and trade, offsets	2038Cap and trade, offsets	0.499871	0.340360	0.480881
2038	\$20 fee economy, deficit reduction	2038\$20 fee economy, deficit reduction	0.482496	0.328041	0.477821
2038	\$20 fee w/deficit reduction	2038\$20 fee w/deficit reduction	0.484104	0.325384	0.462148
2038	\$20 fee w/business rebate	2038\$20 fee w/business rebate	0.485187	0.325730	0.456610
2039	\$20 fee economy-wide	2039\$20 fee economy-wide	0.494507	0.331401	0.450290
2039	Cap and trade, offsets	2039Cap and trade, offsets	0.505292	0.342498	0.481467
2039	\$20 fee economy, deficit reduction	2039\$20 fee economy, deficit reduction	0.488981	0.331057	0.480049
2039	\$20 fee w/deficit reduction	2039\$20 fee w/deficit reduction	0.490640	0.328051	0.463233
2039	\$20 fee w/business rebate	2039\$20 fee w/business rebate	0.491772	0.328452	0.456873
2040	\$20 fee economy-wide	2040\$20 fee economy-wide	0.501849	0.334338	0.451670
2040	Cap and trade, offsets	2040Cap and trade, offsets	0.511019	0.344233	0.481886
2040	\$20 fee economy, deficit reduction	2040\$20 fee economy, deficit reduction	0.496029	0.334017	0.483019
2040	\$20 fee w/deficit reduction	2040\$20 fee w/deficit reduction	0.497969	0.330743	0.465131
2040	\$20 fee w/business rebate	2040\$20 fee w/business rebate	0.499005	0.331111	0.458194



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Publication	Annual Energy Outlook 2013 Supplement ▾	Cases/Scenarios (3/11 selected) <input type="checkbox"/> Reference case <input checked="" type="checkbox"/> \$10 fee at 5% <input checked="" type="checkbox"/> \$20 fee economy-wide <input checked="" type="checkbox"/> \$20 fee at 5%
Subject Filter	Energy Consumption ▾	
Table	Energy Consumption by Sector and Source ▾	
Region	East South Central ▾	
Display Table		

Energy Consumption by Sector and Source, East South Central

(quadrillion Btu, unless otherwise noted)



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Energy Consumption, East South Central

Energy Consumptic

	Reference	Residential	Commercial	Industrial	\$10 fee@5%
2013	2013Reference	0.398745	0.283266	0.441262	2013\$10 fee@5%
2014	2014Reference	0.400530	0.286056	0.451008	2014\$10 fee@5%
2015	2015Reference	0.402963	0.287074	0.472312	2015\$10 fee@5%
2016	2016Reference	0.405810	0.288437	0.484330	2016\$10 fee@5%
2017	2017Reference	0.409277	0.290288	0.497556	2017\$10 fee@5%
2018	2018Reference	0.414094	0.292876	0.506770	2018\$10 fee@5%
2019	2019Reference	0.420284	0.296139	0.516047	2019\$10 fee@5%
2020	2020Reference	0.423542	0.299117	0.521911	2020\$10 fee@5%
2021	2021Reference	0.427700	0.302184	0.526896	2021\$10 fee@5%
2022	2022Reference	0.432783	0.305217	0.533381	2022\$10 fee@5%
2023	2023Reference	0.438544	0.308454	0.536266	2023\$10 fee@5%
2024	2024Reference	0.444534	0.311859	0.538414	2024\$10 fee@5%
2025	2025Reference	0.450815	0.315382	0.538632	2025\$10 fee@5%
2026	2026Reference	0.456994	0.319021	0.537470	2026\$10 fee@5%
2027	2027Reference	0.463414	0.322747	0.534795	2027\$10 fee@5%
2028	2028Reference	0.469656	0.326450	0.532762	2028\$10 fee@5%
2029	2029Reference	0.475812	0.330245	0.530793	2029\$10 fee@5%
2030	2030Reference	0.482332	0.333594	0.529731	2030\$10 fee@5%
2031	2031Reference	0.488805	0.337086	0.528569	2031\$10 fee@5%
2032	2032Reference	0.495207	0.340700	0.527059	2032\$10 fee@5%
2033	2033Reference	0.501428	0.344422	0.525791	2033\$10 fee@5%
2034	2034Reference	0.507543	0.348114	0.524955	2034\$10 fee@5%
2035	2035Reference	0.513604	0.351806	0.523655	2035\$10 fee@5%
2036	2036Reference	0.520633	0.355838	0.522678	2036\$10 fee@5%
2037	2037Reference	0.528109	0.359788	0.522750	2037\$10 fee@5%
2038	2038Reference	0.535188	0.363653	0.522862	2038\$10 fee@5%
2039	2039Reference	0.542252	0.367377	0.523061	2039\$10 fee@5%
2040	2040Reference	0.549644	0.370929	0.523706	2040\$10 fee@5%

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in, East South Central

Energy Consumption, East South Central

	Residential	Commercial	Industrial	\$20 fee@5%	Residential	Commercial
2013	0.398699	0.283240	0.441195	2013\$20 fee@5%	0.398692	0.283236
2014	0.397068	0.283759	0.443076	2014\$20 fee@5%	0.394063	0.281966
2015	0.395859	0.282504	0.457240	2015\$20 fee@5%	0.389708	0.278931
2016	0.396950	0.282848	0.466753	2016\$20 fee@5%	0.388512	0.278040
2017	0.400250	0.284550	0.478727	2017\$20 fee@5%	0.390882	0.279135
2018	0.405197	0.287163	0.486667	2018\$20 fee@5%	0.395413	0.281426
2019	0.411252	0.290360	0.494127	2019\$20 fee@5%	0.401156	0.284404
2020	0.414191	0.293043	0.498488	2020\$20 fee@5%	0.404040	0.286901
2021	0.417888	0.295738	0.502415	2021\$20 fee@5%	0.407713	0.289424
2022	0.422370	0.298331	0.507503	2022\$20 fee@5%	0.411995	0.291791
2023	0.427361	0.301042	0.508546	2023\$20 fee@5%	0.416653	0.294251
2024	0.432716	0.303936	0.509636	2024\$20 fee@5%	0.421568	0.296815
2025	0.438427	0.306987	0.509141	2025\$20 fee@5%	0.426749	0.299476
2026	0.443846	0.309964	0.506396	2026\$20 fee@5%	0.431309	0.301911
2027	0.449370	0.312918	0.502697	2027\$20 fee@5%	0.435906	0.304289
2028	0.454830	0.315943	0.499858	2028\$20 fee@5%	0.440581	0.306807
2029	0.460208	0.319068	0.497145	2029\$20 fee@5%	0.444659	0.309135
2030	0.465892	0.321832	0.494894	2030\$20 fee@5%	0.448686	0.310724
2031	0.471390	0.324642	0.492848	2031\$20 fee@5%	0.452907	0.312461
2032	0.476914	0.327623	0.490423	2032\$20 fee@5%	0.456124	0.313644
2033	0.481984	0.330532	0.487962	2033\$20 fee@5%	0.459260	0.314907
2034	0.486965	0.333341	0.486358	2034\$20 fee@5%	0.463157	0.316601
2035	0.491948	0.336192	0.484194	2035\$20 fee@5%	0.467904	0.318798
2036	0.497687	0.339273	0.482588	2036\$20 fee@5%	0.472755	0.320783
2037	0.503537	0.342096	0.482211	2037\$20 fee@5%	0.478424	0.322903
2038	0.509361	0.344930	0.482938	2038\$20 fee@5%	0.484674	0.325447
2039	0.515218	0.347653	0.483215	2039\$20 fee@5%	0.491202	0.328082
2040	0.521217	0.350046	0.483235	2040\$20 fee@5%	0.498639	0.330853

\$30 fee@5%

	Industrial		Residential	Commercial	Industrial
2013	0.441236	2013\$30 fee@5%	0.398707	0.283241	0.441246
2014	0.435690	2014\$30 fee@5%	0.391319	0.280188	0.429728
2015	0.443310	2015\$30 fee@5%	0.384104	0.275423	0.430903
2016	0.445895	2016\$30 fee@5%	0.379771	0.272735	0.427137
2017	0.453440	2017\$30 fee@5%	0.380545	0.272938	0.433012
2018	0.459618	2018\$30 fee@5%	0.384254	0.274724	0.438584
2019	0.465867	2019\$30 fee@5%	0.389486	0.277408	0.443340
2020	0.469993	2020\$30 fee@5%	0.391491	0.279067	0.447012
2021	0.474273	2021\$30 fee@5%	0.394825	0.281097	0.451142
2022	0.479008	2022\$30 fee@5%	0.398848	0.283089	0.454922
2023	0.479862	2023\$30 fee@5%	0.402172	0.284447	0.454960
2024	0.480604	2024\$30 fee@5%	0.406117	0.286135	0.456651
2025	0.479916	2025\$30 fee@5%	0.410919	0.288317	0.456508
2026	0.476675	2026\$30 fee@5%	0.415954	0.290708	0.454108
2027	0.472992	2027\$30 fee@5%	0.420881	0.293020	0.450996
2028	0.470334	2028\$30 fee@5%	0.425640	0.295348	0.449499
2029	0.467234	2029\$30 fee@5%	0.429998	0.297513	0.447768
2030	0.464934	2030\$30 fee@5%	0.434912	0.299405	0.447264
2031	0.462869	2031\$30 fee@5%	0.439895	0.301470	0.446304
2032	0.459908	2032\$30 fee@5%	0.445380	0.303902	0.444780
2033	0.457192	2033\$30 fee@5%	0.450633	0.306337	0.442760
2034	0.454850	2034\$30 fee@5%	0.455396	0.308456	0.440379
2035	0.452705	2035\$30 fee@5%	0.460594	0.310826	0.439133
2036	0.451606	2036\$30 fee@5%	0.467408	0.313888	0.439663
2037	0.452324	2037\$30 fee@5%	0.475032	0.317087	0.441091
2038	0.453487	2038\$30 fee@5%	0.482634	0.320378	0.442032
2039	0.453814	2039\$30 fee@5%	0.490282	0.323604	0.443751
2040	0.454557	2040\$30 fee@5%	0.498575	0.326677	0.447175

\$20 fee economy-wide

		Residential	Commercial	Industrial
2013	2013\$20 fee economy-wide	0.398709	0.283239	0.441563
2014	2014\$20 fee economy-wide	0.394079	0.281907	0.435083
2015	2015\$20 fee economy-wide	0.389583	0.278832	0.441025
2016	2016\$20 fee economy-wide	0.388337	0.277855	0.444346
2017	2017\$20 fee economy-wide	0.390853	0.278970	0.452611
2018	2018\$20 fee economy-wide	0.395598	0.281339	0.459592
2019	2019\$20 fee economy-wide	0.401467	0.284400	0.465682
2020	2020\$20 fee economy-wide	0.404431	0.286943	0.469060
2021	2021\$20 fee economy-wide	0.408085	0.289448	0.473157
2022	2022\$20 fee economy-wide	0.412418	0.291854	0.477625
2023	2023\$20 fee economy-wide	0.417236	0.294414	0.478270
2024	2024\$20 fee economy-wide	0.422248	0.297063	0.478488
2025	2025\$20 fee economy-wide	0.427557	0.299851	0.477538
2026	2026\$20 fee economy-wide	0.432509	0.302536	0.474134
2027	2027\$20 fee economy-wide	0.437185	0.305008	0.469986
2028	2028\$20 fee economy-wide	0.441815	0.307550	0.466709
2029	2029\$20 fee economy-wide	0.446014	0.309999	0.463253
2030	2030\$20 fee economy-wide	0.450177	0.311850	0.460428
2031	2031\$20 fee economy-wide	0.453627	0.313190	0.457626
2032	2032\$20 fee economy-wide	0.456450	0.314228	0.454872
2033	2033\$20 fee economy-wide	0.459215	0.315385	0.451703
2034	2034\$20 fee economy-wide	0.463179	0.317209	0.449722
2035	2035\$20 fee economy-wide	0.468083	0.319597	0.447366
2036	2036\$20 fee economy-wide	0.473995	0.322327	0.446682
2037	2037\$20 fee economy-wide	0.480828	0.325286	0.448133
2038	2038\$20 fee economy-wide	0.487755	0.328428	0.449119
2039	2039\$20 fee economy-wide	0.494507	0.331401	0.450290
2040	2040\$20 fee economy-wide	0.501849	0.334338	0.451670

Cap and trade, offsets

		Residential	Commercial	Industrial
2013	2013Cap and trade, offsets	0.398727	0.283254	0.441266
2014	2014Cap and trade, offsets	0.400388	0.285966	0.450726
2015	2015Cap and trade, offsets	0.402726	0.286928	0.471825
2016	2016Cap and trade, offsets	0.405215	0.288119	0.478345
2017	2017Cap and trade, offsets	0.408658	0.289974	0.488612
2018	2018Cap and trade, offsets	0.413579	0.292639	0.496332
2019	2019Cap and trade, offsets	0.419954	0.296037	0.504371
2020	2020Cap and trade, offsets	0.423024	0.298897	0.509506
2021	2021Cap and trade, offsets	0.426962	0.301862	0.514059
2022	2022Cap and trade, offsets	0.430926	0.304239	0.518933
2023	2023Cap and trade, offsets	0.435083	0.306549	0.519521
2024	2024Cap and trade, offsets	0.439560	0.308938	0.520323
2025	2025Cap and trade, offsets	0.444438	0.311489	0.519480
2026	2026Cap and trade, offsets	0.449267	0.314155	0.516841
2027	2027Cap and trade, offsets	0.454720	0.317113	0.513584
2028	2028Cap and trade, offsets	0.460284	0.320192	0.511361
2029	2029Cap and trade, offsets	0.465372	0.323115	0.508328
2030	2030Cap and trade, offsets	0.470514	0.325546	0.505550
2031	2031Cap and trade, offsets	0.475658	0.328164	0.503377
2032	2032Cap and trade, offsets	0.481084	0.331097	0.501240
2033	2033Cap and trade, offsets	0.485733	0.333716	0.498755
2034	2034Cap and trade, offsets	0.488254	0.335064	0.494734
2035	2035Cap and trade, offsets	0.489460	0.335796	0.489386
2036	2036Cap and trade, offsets	0.491795	0.336930	0.485001
2037	2037Cap and trade, offsets	0.495487	0.338493	0.481950
2038	2038Cap and trade, offsets	0.499871	0.340360	0.480881
2039	2039Cap and trade, offsets	0.505292	0.342498	0.481467
2040	2040Cap and trade, offsets	0.511019	0.344233	0.481886

\$20 fee economy, deficit reduction

		Residential	Commercial	Industrial
2013	2013\$20 fee economy, deficit reduction	0.398707	0.283241	0.441578
2014	2014\$20 fee economy, deficit reduction	0.393237	0.281989	0.432697
2015	2015\$20 fee economy, deficit reduction	0.388768	0.279073	0.438309
2016	2016\$20 fee economy, deficit reduction	0.387549	0.278132	0.443332
2017	2017\$20 fee economy, deficit reduction	0.389927	0.279211	0.452565
2018	2018\$20 fee economy, deficit reduction	0.394490	0.281537	0.460573
2019	2019\$20 fee economy, deficit reduction	0.400169	0.284536	0.468096
2020	2020\$20 fee economy, deficit reduction	0.402959	0.286981	0.473197
2021	2021\$20 fee economy, deficit reduction	0.406543	0.289445	0.478788
2022	2022\$20 fee economy, deficit reduction	0.410883	0.291872	0.484861
2023	2023\$20 fee economy, deficit reduction	0.415588	0.294431	0.487001
2024	2024\$20 fee economy, deficit reduction	0.420402	0.297058	0.488486
2025	2025\$20 fee economy, deficit reduction	0.425232	0.299627	0.488602
2026	2026\$20 fee economy, deficit reduction	0.429495	0.301982	0.485946
2027	2027\$20 fee economy, deficit reduction	0.433556	0.304178	0.483020
2028	2028\$20 fee economy, deficit reduction	0.437726	0.306531	0.480967
2029	2029\$20 fee economy, deficit reduction	0.442025	0.309068	0.478778
2030	2030\$20 fee economy, deficit reduction	0.446325	0.310946	0.476873
2031	2031\$20 fee economy, deficit reduction	0.450799	0.312954	0.475655
2032	2032\$20 fee economy, deficit reduction	0.454429	0.314599	0.474313
2033	2033\$20 fee economy, deficit reduction	0.457506	0.316109	0.472648
2034	2034\$20 fee economy, deficit reduction	0.461267	0.318026	0.471904
2035	2035\$20 fee economy, deficit reduction	0.465506	0.320199	0.471092
2036	2036\$20 fee economy, deficit reduction	0.470592	0.322646	0.471611
2037	2037\$20 fee economy, deficit reduction	0.476242	0.325110	0.474680
2038	2038\$20 fee economy, deficit reduction	0.482496	0.328041	0.477821
2039	2039\$20 fee economy, deficit reduction	0.488981	0.331057	0.480049
2040	2040\$20 fee economy, deficit reduction	0.496029	0.334017	0.483019

\$20 fee w/deficit reduction

		Residential	Commercial	Industrial
2013	2013\$20 fee w/deficit reduction	0.398699	0.283236	0.441294
2014	2014\$20 fee w/deficit reduction	0.393753	0.281973	0.435108
2015	2015\$20 fee w/deficit reduction	0.389370	0.278967	0.442258
2016	2016\$20 fee w/deficit reduction	0.388036	0.277921	0.445733
2017	2017\$20 fee w/deficit reduction	0.390326	0.278954	0.453982
2018	2018\$20 fee w/deficit reduction	0.394889	0.281271	0.460827
2019	2019\$20 fee w/deficit reduction	0.400650	0.284261	0.467551
2020	2020\$20 fee w/deficit reduction	0.403340	0.286628	0.471732
2021	2021\$20 fee w/deficit reduction	0.406784	0.288999	0.476593
2022	2022\$20 fee w/deficit reduction	0.410975	0.291326	0.481985
2023	2023\$20 fee w/deficit reduction	0.415777	0.293888	0.483513
2024	2024\$20 fee w/deficit reduction	0.420775	0.296531	0.484743
2025	2025\$20 fee w/deficit reduction	0.425974	0.299221	0.484479
2026	2026\$20 fee w/deficit reduction	0.430719	0.301779	0.481866
2027	2027\$20 fee w/deficit reduction	0.434769	0.303881	0.477949
2028	2028\$20 fee w/deficit reduction	0.438849	0.306103	0.475166
2029	2029\$20 fee w/deficit reduction	0.443103	0.308499	0.472600
2030	2030\$20 fee w/deficit reduction	0.447540	0.310335	0.470413
2031	2031\$20 fee w/deficit reduction	0.451116	0.311625	0.468361
2032	2032\$20 fee w/deficit reduction	0.454223	0.312745	0.466233
2033	2033\$20 fee w/deficit reduction	0.457522	0.314110	0.463788
2034	2034\$20 fee w/deficit reduction	0.461775	0.316003	0.462029
2035	2035\$20 fee w/deficit reduction	0.466437	0.318118	0.460113
2036	2036\$20 fee w/deficit reduction	0.471740	0.320367	0.459691
2037	2037\$20 fee w/deficit reduction	0.477728	0.322716	0.460820
2038	2038\$20 fee w/deficit reduction	0.484104	0.325384	0.462148
2039	2039\$20 fee w/deficit reduction	0.490640	0.328051	0.463233
2040	2040\$20 fee w/deficit reduction	0.497969	0.330743	0.465131

\$20 fee w/business rebate

		Residential	Commercial	Industrial
2013	2013\$20 fee w/business rebate	0.398706	0.283243	0.441254
2014	2014\$20 fee w/business rebate	0.393788	0.281983	0.435077
2015	2015\$20 fee w/business rebate	0.389463	0.278962	0.442946
2016	2016\$20 fee w/business rebate	0.388363	0.278025	0.446510
2017	2017\$20 fee w/business rebate	0.390796	0.279141	0.454538
2018	2018\$20 fee w/business rebate	0.395302	0.281414	0.460490
2019	2019\$20 fee w/business rebate	0.400756	0.284183	0.466350
2020	2020\$20 fee w/business rebate	0.403201	0.286357	0.470427
2021	2021\$20 fee w/business rebate	0.406763	0.288821	0.475387
2022	2022\$20 fee w/business rebate	0.411056	0.291228	0.479889
2023	2023\$20 fee w/business rebate	0.415682	0.293651	0.480370
2024	2024\$20 fee w/business rebate	0.420531	0.296171	0.480987
2025	2025\$20 fee w/business rebate	0.425858	0.298942	0.480665
2026	2026\$20 fee w/business rebate	0.430779	0.301622	0.477975
2027	2027\$20 fee w/business rebate	0.435363	0.304007	0.473976
2028	2028\$20 fee w/business rebate	0.439888	0.306454	0.471487
2029	2029\$20 fee w/business rebate	0.443925	0.308699	0.468761
2030	2030\$20 fee w/business rebate	0.448056	0.310348	0.466613
2031	2031\$20 fee w/business rebate	0.451829	0.311774	0.464156
2032	2032\$20 fee w/business rebate	0.455103	0.313016	0.461533
2033	2033\$20 fee w/business rebate	0.458628	0.314509	0.459090
2034	2034\$20 fee w/business rebate	0.462645	0.316276	0.456947
2035	2035\$20 fee w/business rebate	0.467273	0.318380	0.454497
2036	2036\$20 fee w/business rebate	0.472591	0.320617	0.453911
2037	2037\$20 fee w/business rebate	0.478656	0.322987	0.455160
2038	2038\$20 fee w/business rebate	0.485187	0.325730	0.456610
2039	2039\$20 fee w/business rebate	0.491772	0.328452	0.456873
2040	2040\$20 fee w/business rebate	0.499005	0.331111	0.458194

Change in Consumption from the Reference Case

Change in Consumption fr

	\$10 fee@5%			\$20 fee@5%	
	Residential	Commercial	Industrial	Residential	
2013	0.999885	0.999908	0.999848	2013	0.999867
2014	0.991356	0.991970	0.982413	2014	0.983854
2015	0.982371	0.984081	0.968089	2015	0.967106
2016	0.978167	0.980623	0.963709	2016	0.957374
2017	0.977944	0.980233	0.962157	2017	0.955055
2018	0.978515	0.980493	0.960331	2018	0.954887
2019	0.978510	0.980486	0.957523	2019	0.954488
2020	0.977922	0.979694	0.955121	2020	0.953955
2021	0.977059	0.978669	0.953537	2021	0.953269
2022	0.975939	0.977439	0.951483	2022	0.951967
2023	0.974500	0.975970	0.948309	2023	0.950083
2024	0.973415	0.974594	0.946550	2024	0.948337
2025	0.972521	0.973381	0.945248	2025	0.946617
2026	0.971229	0.971610	0.942185	2026	0.943796
2027	0.969694	0.969546	0.939981	2027	0.940641
2028	0.968432	0.967814	0.938239	2028	0.938093
2029	0.967206	0.966155	0.936608	2029	0.934527
2030	0.965916	0.964742	0.934236	2030	0.930243
2031	0.964372	0.963084	0.932419	2031	0.926560
2032	0.963060	0.961617	0.930490	2032	0.921077
2033	0.961223	0.959672	0.928053	2033	0.915904
2034	0.959456	0.957563	0.926476	2034	0.912547
2035	0.957835	0.955618	0.924643	2035	0.911021
2036	0.955927	0.953448	0.923299	2036	0.908039
2037	0.953472	0.950827	0.922451	2037	0.905919
2038	0.951742	0.948514	0.923643	2038	0.905614
2039	0.950145	0.946311	0.923822	2039	0.905856
2040	0.948281	0.943701	0.922722	2040	0.907204

Change in 6m the Reference Case

Change in Consumption from the Referenc

			\$30 fee@5%	
	Commercial	Industrial	Residential	Commercial
2013	0.999894	0.999941	0.999905	0.999912
2014	0.985702	0.966036	0.977003	0.979487
2015	0.971634	0.938596	0.953199	0.959415
2016	0.963954	0.920643	0.935835	0.945562
2017	0.961580	0.911335	0.929798	0.940232
2018	0.960905	0.906956	0.927939	0.938022
2019	0.960373	0.902761	0.926721	0.936749
2020	0.959160	0.900523	0.924326	0.932969
2021	0.957774	0.900126	0.923135	0.930218
2022	0.956012	0.898060	0.921589	0.927501
2023	0.953954	0.894821	0.917062	0.922170
2024	0.951760	0.892629	0.913579	0.917514
2025	0.949566	0.890991	0.911503	0.914183
2026	0.946367	0.886887	0.910196	0.911250
2027	0.942810	0.884436	0.908218	0.907894
2028	0.939828	0.882822	0.906280	0.904727
2029	0.936078	0.880257	0.903714	0.900886
2030	0.931444	0.877679	0.901686	0.897513
2031	0.926947	0.875702	0.899940	0.894342
2032	0.920587	0.872593	0.899381	0.891993
2033	0.914306	0.869532	0.898699	0.889423
2034	0.909475	0.866455	0.897256	0.886078
2035	0.906176	0.864510	0.896788	0.883515
2036	0.901486	0.864023	0.897769	0.882109
2037	0.897481	0.865278	0.899496	0.881316
2038	0.894938	0.867317	0.901803	0.880999
2039	0.893039	0.867612	0.904159	0.880850
2040	0.891958	0.867962	0.907087	0.880700

Change in te Case

			\$20 fee economy-wide		
	Industrial		Residential	Commercial	Industrial
2013	0.999964	2013	0.999910	0.999905	1.000682
2014	0.952817	2014	0.983894	0.985496	0.964690
2015	0.912327	2015	0.966796	0.971290	0.933758
2016	0.881913	2016	0.956943	0.963313	0.917445
2017	0.870278	2017	0.954984	0.961011	0.909668
2018	0.865450	2018	0.955334	0.960608	0.906905
2019	0.859108	2019	0.955228	0.960360	0.902402
2020	0.856491	2020	0.954878	0.959300	0.898736
2021	0.856226	2021	0.954138	0.957853	0.898008
2022	0.852903	2022	0.952944	0.956218	0.895467
2023	0.848385	2023	0.951412	0.954483	0.891852
2024	0.848141	2024	0.949867	0.952555	0.888699
2025	0.847532	2025	0.948409	0.950755	0.886576
2026	0.844899	2026	0.946422	0.948326	0.882159
2027	0.843306	2027	0.943401	0.945037	0.878815
2028	0.843714	2028	0.940720	0.942104	0.876018
2029	0.843583	2029	0.937374	0.938694	0.872756
2030	0.844323	2030	0.933334	0.934819	0.869173
2031	0.844363	2031	0.928033	0.929110	0.865783
2032	0.843890	2032	0.921736	0.922301	0.863038
2033	0.842084	2033	0.915814	0.915694	0.859092
2034	0.838889	2034	0.912591	0.911222	0.856687
2035	0.838592	2035	0.911369	0.908447	0.854314
2036	0.841174	2036	0.910421	0.905825	0.854603
2037	0.843790	2037	0.910471	0.904105	0.857261
2038	0.845409	2038	0.911371	0.903136	0.858963
2039	0.848373	2039	0.911951	0.902073	0.860875
2040	0.853866	2040	0.913044	0.901353	0.862450

Change in (

		Cap and trade, offsets			\$20 fee econon	
		Residential	Commercial	Industrial	Residential	
2013	2013	0.999955	0.999958	1.000009	2013	0.999905
2014	2014	0.999645	0.999685	0.999375	2014	0.981792
2015	2015	0.999412	0.999491	0.998969	2015	0.964773
2016	2016	0.998534	0.998898	0.987643	2016	0.955001
2017	2017	0.998488	0.998918	0.982024	2017	0.952722
2018	2018	0.998756	0.999191	0.979403	2018	0.952658
2019	2019	0.999215	0.999656	0.977374	2019	0.952140
2020	2020	0.998777	0.999265	0.976232	2020	0.951403
2021	2021	0.998274	0.998934	0.975637	2021	0.950533
2022	2022	0.995709	0.996796	0.972912	2022	0.949397
2023	2023	0.992108	0.993824	0.968775	2023	0.947654
2024	2024	0.988811	0.990634	0.966399	2024	0.945714
2025	2025	0.985855	0.987656	0.964443	2025	0.943252
2026	2026	0.983092	0.984747	0.961618	2026	0.939826
2027	2027	0.981239	0.982544	0.960338	2027	0.935569
2028	2028	0.980045	0.980830	0.959830	2028	0.932014
2029	2029	0.978059	0.978410	0.957677	2029	0.928991
2030	2030	0.975498	0.975875	0.954352	2030	0.925348
2031	2031	0.973104	0.973532	0.952339	2031	0.922247
2032	2032	0.971481	0.971814	0.951013	2032	0.917655
2033	2033	0.968699	0.968916	0.948580	2033	0.912406
2034	2034	0.961995	0.962512	0.942431	2034	0.908823
2035	2035	0.952991	0.954492	0.934558	2035	0.906352
2036	2036	0.944610	0.946863	0.927915	2036	0.903884
2037	2037	0.938229	0.940812	0.921951	2037	0.901787
2038	2038	0.934010	0.935947	0.919709	2038	0.901545
2039	2039	0.931840	0.932279	0.920480	2039	0.901760
2040	2040	0.929727	0.928029	0.920146	2040	0.902455

Change in (

	1y, deficit reduction			\$20 fee w/deficit reduction	
	Commercial	Industrial		Residential	Commercial
2013	0.999912	1.000716	2013	0.999885	0.999894
2014	0.985783	0.959400	2014	0.983080	0.985727
2015	0.972129	0.928007	2015	0.966267	0.971760
2016	0.964273	0.915351	2016	0.956201	0.963541
2017	0.961841	0.909576	2017	0.953696	0.960956
2018	0.961284	0.908840	2018	0.953622	0.960376
2019	0.960819	0.907080	2019	0.953284	0.959890
2020	0.959427	0.906662	2020	0.952302	0.958247
2021	0.957844	0.908695	2021	0.951097	0.956368
2022	0.956277	0.909033	2022	0.949610	0.954488
2023	0.954538	0.908133	2023	0.948085	0.952777
2024	0.952539	0.907268	2024	0.946553	0.950850
2025	0.950045	0.907117	2025	0.944898	0.948757
2026	0.946590	0.904136	2026	0.942505	0.945953
2027	0.942466	0.903187	2027	0.938187	0.941546
2028	0.938983	0.902780	2028	0.934405	0.937672
2029	0.935875	0.902005	2029	0.931256	0.934152
2030	0.932109	0.900217	2030	0.927867	0.930278
2031	0.928410	0.899892	2031	0.922896	0.924467
2032	0.923390	0.899924	2032	0.917239	0.917948
2033	0.917796	0.898928	2033	0.912438	0.911992
2034	0.913569	0.898942	2034	0.909824	0.907757
2035	0.910158	0.899623	2035	0.908165	0.904243
2036	0.906722	0.902297	2036	0.906089	0.900317
2037	0.903615	0.908044	2037	0.904601	0.896962
2038	0.902071	0.913857	2038	0.904549	0.894765
2039	0.901137	0.917769	2039	0.904819	0.892955
2040	0.900488	0.922309	2040	0.905985	0.891661

Change in (

			\$20 fee w/business rebate		
	Industrial		Residential	Commercial	Industrial
2013	1.000073	2013	0.999902	0.999919	0.999982
2014	0.964746	2014	0.983167	0.985762	0.964677
2015	0.936368	2015	0.966498	0.971742	0.937825
2016	0.920308	2016	0.957007	0.963902	0.921913
2017	0.912424	2017	0.954845	0.961600	0.913541
2018	0.909342	2018	0.954619	0.960864	0.908677
2019	0.906024	2019	0.953536	0.959627	0.903697
2020	0.903855	2020	0.951974	0.957341	0.901355
2021	0.904530	2021	0.951047	0.955779	0.902241
2022	0.903641	2022	0.949797	0.954167	0.899711
2023	0.901629	2023	0.947868	0.952009	0.895768
2024	0.900316	2024	0.946004	0.949695	0.893340
2025	0.899462	2025	0.944640	0.947873	0.892381
2026	0.896545	2026	0.942636	0.945461	0.889305
2027	0.893705	2027	0.939469	0.941936	0.886276
2028	0.891892	2028	0.936617	0.938747	0.884986
2029	0.890366	2029	0.932984	0.934758	0.883133
2030	0.888022	2030	0.928937	0.930316	0.880849
2031	0.886092	2031	0.924354	0.924909	0.878137
2032	0.884594	2032	0.919016	0.918744	0.875676
2033	0.882077	2033	0.914644	0.913150	0.873142
2034	0.880131	2034	0.911539	0.908541	0.870450
2035	0.878657	2035	0.909792	0.904987	0.867932
2036	0.879492	2036	0.907724	0.901020	0.868433
2037	0.881530	2037	0.906358	0.897715	0.870703
2038	0.883881	2038	0.906573	0.895717	0.873290
2039	0.885619	2039	0.906907	0.894046	0.873460
2040	0.888153	2040	0.907869	0.892653	0.874907

Change in (

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Change in (

	Change from \$10 to \$20 Case			Change from \$20 to \$:	
	Residential	Commercial	Industrial	Residential	Commercial
2013	-0.000018	-0.000014	0.000093	0.000038	0.000018
2014	-0.007503	-0.006268	-0.016377	-0.006851	-0.006216
2015	-0.015264	-0.012446	-0.029493	-0.013907	-0.012220
2016	-0.020793	-0.016669	-0.043066	-0.021540	-0.018392
2017	-0.022889	-0.018654	-0.050822	-0.025257	-0.021348
2018	-0.023627	-0.019588	-0.053375	-0.026948	-0.022883
2019	-0.024022	-0.020112	-0.054762	-0.027767	-0.023624
2020	-0.023967	-0.020534	-0.054597	-0.029629	-0.026190
2021	-0.023790	-0.020895	-0.053411	-0.030133	-0.027556
2022	-0.023973	-0.021427	-0.053423	-0.030378	-0.028511
2023	-0.024417	-0.022016	-0.053488	-0.033021	-0.031784
2024	-0.025078	-0.022834	-0.053921	-0.034758	-0.034246
2025	-0.025904	-0.023816	-0.054258	-0.035114	-0.035382
2026	-0.027434	-0.025243	-0.055298	-0.033600	-0.035117
2027	-0.029054	-0.026736	-0.055545	-0.032422	-0.034916
2028	-0.030339	-0.027986	-0.055417	-0.031813	-0.035102
2029	-0.032679	-0.030078	-0.056352	-0.030813	-0.035192
2030	-0.035673	-0.033298	-0.056557	-0.028557	-0.033930
2031	-0.037813	-0.036136	-0.056717	-0.026620	-0.032606
2032	-0.041982	-0.041030	-0.057897	-0.021696	-0.028594
2033	-0.045319	-0.045366	-0.058521	-0.017205	-0.024882
2034	-0.046908	-0.048088	-0.060020	-0.015291	-0.023398
2035	-0.046814	-0.049442	-0.060133	-0.014233	-0.022660
2036	-0.047888	-0.051962	-0.059276	-0.010270	-0.019377
2037	-0.047553	-0.053345	-0.057173	-0.006423	-0.016165
2038	-0.046128	-0.053576	-0.056327	-0.003812	-0.013939
2039	-0.044289	-0.053272	-0.056210	-0.001697	-0.012189
2040	-0.041077	-0.051743	-0.054760	-0.000116	-0.011258

Change in (

	10 Case
	Industrial
2013	0.000023
2014	-0.013219
2015	-0.026269
2016	-0.038730
2017	-0.041057
2018	-0.041506
2019	-0.043653
2020	-0.044032
2021	-0.043901
2022	-0.045157
2023	-0.046436
2024	-0.044488
2025	-0.043458
2026	-0.041987
2027	-0.041130
2028	-0.039108
2029	-0.036673
2030	-0.033357
2031	-0.031339
2032	-0.028703
2033	-0.027448
2034	-0.027566
2035	-0.025918
2036	-0.022850
2037	-0.021488
2038	-0.021908
2039	-0.019239
2040	-0.014096

\$10 fee@5%

		Rural	Industrial	
2013	2013\$10 fee@5%	1.000000	1.000000	2013\$20 fee@5%
2014	2014\$10 fee@5%	1.000000	1.000000	2014\$20 fee@5%
2015	2015\$10 fee@5%	1.000000	1.000000	2015\$20 fee@5%
2016	2016\$10 fee@5%	1.000000	1.000000	2016\$20 fee@5%
2017	2017\$10 fee@5%	1.000000	1.000000	2017\$20 fee@5%
2018	2018\$10 fee@5%	1.000000	1.000000	2018\$20 fee@5%
2019	2019\$10 fee@5%	1.000000	1.000000	2019\$20 fee@5%
2020	2020\$10 fee@5%	0.999892	0.999848	2020\$20 fee@5%
2021	2021\$10 fee@5%	0.991559	0.982413	2021\$20 fee@5%
2022	2022\$10 fee@5%	0.982935	0.968089	2022\$20 fee@5%
2023	2023\$10 fee@5%	0.978978	0.963709	2023\$20 fee@5%
2024	2024\$10 fee@5%	0.978700	0.962157	2024\$20 fee@5%
2025	2025\$10 fee@5%	0.979168	0.960331	2025\$20 fee@5%
2026	2026\$10 fee@5%	0.979162	0.957523	2026\$20 fee@5%
2027	2027\$10 fee@5%	0.978507	0.955121	2027\$20 fee@5%
2028	2028\$10 fee@5%	0.977590	0.953537	2028\$20 fee@5%
2029	2029\$10 fee@5%	0.976434	0.951483	2029\$20 fee@5%
2030	2030\$10 fee@5%	0.974985	0.948309	2030\$20 fee@5%
2031	2031\$10 fee@5%	0.973804	0.946550	2031\$20 fee@5%
2032	2032\$10 fee@5%	0.972805	0.945248	2032\$20 fee@5%
2033	2033\$10 fee@5%	0.971355	0.942185	2033\$20 fee@5%
2034	2034\$10 fee@5%			2034\$20 fee@5%
2035	2035\$10 fee@5%			2035\$20 fee@5%
2036	2036\$10 fee@5%			2036\$20 fee@5%
2037	2037\$10 fee@5%			2037\$20 fee@5%
2038	2038\$10 fee@5%			2038\$20 fee@5%
2039	2039\$10 fee@5%			2039\$20 fee@5%
2040	2040\$10 fee@5%			2040\$20 fee@5%

Rural Residential
Rural Commercial

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0.33 BREC LTFC2013-Base Case_Feb2014.xlsx, s

	\$20 fee@5%			\$30 fee@5%	
	Rural	Industrial		Rural	Industrial
2013	1.000000	1.000000	2013\$30 fee@5%	1.000000	1.000000
2014	1.000000	1.000000	2014\$30 fee@5%	1.000000	1.000000
2015	1.000000	1.000000	2015\$30 fee@5%	1.000000	1.000000
2016	1.000000	1.000000	2016\$30 fee@5%	1.000000	1.000000
2017	1.000000	1.000000	2017\$30 fee@5%	1.000000	1.000000
2018	1.000000	1.000000	2018\$30 fee@5%	1.000000	1.000000
2019	1.000000	1.000000	2019\$30 fee@5%	1.000000	1.000000
2020	0.941356	0.884436	2020\$30 fee@5%	0.999907	0.999964
2021	0.938666	0.882822	2021\$30 fee@5%	0.977823	0.952817
2022	0.935039	0.880257	2022\$30 fee@5%	0.955250	0.912327
2023	0.930639	0.877679	2023\$30 fee@5%	0.939045	0.881913
2024	0.926688	0.875702	2024\$30 fee@5%	0.933241	0.870278
2025	0.920916	0.872593	2025\$30 fee@5%	0.931266	0.865450
2026	0.915377	0.869532	2026\$30 fee@5%	0.930030	0.859108
2027	0.911533	0.866455	2027\$30 fee@5%	0.927178	0.856491
2028	0.909422	0.864510	2028\$30 fee@5%	0.925473	0.856226
2029	0.905876	0.864023	2029\$30 fee@5%	0.923540	0.852903
2030	0.903135	0.865278	2030\$30 fee@5%	0.918748	0.848385
2031	0.902091	0.867317	2031\$30 fee@5%	0.914878	0.848141
2032	0.901626	0.867612	2032\$30 fee@5%	0.912387	0.847532
2033	0.902172	0.867962	2033\$30 fee@5%	0.910544	0.844899
2034			2034\$30 fee@5%		
2035			2035\$30 fee@5%		
2036			2036\$30 fee@5%		
2037			2037\$30 fee@5%		
2038			2038\$30 fee@5%		
2039			2039\$30 fee@5%		
2040			2040\$30 fee@5%		

Rural Residential sheet Residential
Rural Commercial sheet Residential

\$20 fee economy-wide

		Rural	Industrial
2013	2013\$20 fee economy-wide	1.000000	1.000000
2014	2014\$20 fee economy-wide	1.000000	1.000000
2015	2015\$20 fee economy-wide	1.000000	1.000000
2016	2016\$20 fee economy-wide	1.000000	1.000000
2017	2017\$20 fee economy-wide	1.000000	1.000000
2018	2018\$20 fee economy-wide	1.000000	1.000000
2019	2019\$20 fee economy-wide	1.000000	1.000000
2020	2020\$20 fee economy-wide	0.943941	0.878815
2021	2021\$20 fee economy-wide	0.941177	0.876018
2022	2022\$20 fee economy-wide	0.937810	0.872756
2023	2023\$20 fee economy-wide	0.933824	0.869173
2024	2024\$20 fee economy-wide	0.928388	0.865783
2025	2025\$20 fee economy-wide	0.921922	0.863038
2026	2026\$20 fee economy-wide	0.915775	0.859092
2027	2027\$20 fee economy-wide	0.912139	0.856687
2028	2028\$20 fee economy-wide	0.910405	0.854314
2029	2029\$20 fee economy-wide	0.908904	0.854603
2030	2030\$20 fee economy-wide	0.908370	0.857261
2031	2031\$20 fee economy-wide	0.908654	0.858963
2032	2032\$20 fee economy-wide	0.908691	0.860875
2033	2033\$20 fee economy-wide	0.909186	0.862450
2034	2034\$20 fee economy-wide		
2035	2035\$20 fee economy-wide		
2036	2036\$20 fee economy-wide		
2037	2037\$20 fee economy-wide		
2038	2038\$20 fee economy-wide		
2039	2039\$20 fee economy-wide		
2040	2040\$20 fee economy-wide		

Rural Residential
Rural Commercial

Cap and trade, offsets

		Rural	Industrial
2013	2013Cap and trade, offsets	1.000000	1.000000
2014	2014Cap and trade, offsets	1.000000	1.000000
2015	2015Cap and trade, offsets	1.000000	1.000000
2016	2016Cap and trade, offsets	1.000000	1.000000
2017	2017Cap and trade, offsets	1.000000	1.000000
2018	2018Cap and trade, offsets	1.000000	1.000000
2019	2019Cap and trade, offsets	1.000000	1.000000
2020	2020Cap and trade, offsets	0.981670	0.960338
2021	2021Cap and trade, offsets	0.980304	0.959830
2022	2022Cap and trade, offsets	0.978175	0.957677
2023	2023Cap and trade, offsets	0.975623	0.954352
2024	2024Cap and trade, offsets	0.973245	0.952339
2025	2025Cap and trade, offsets	0.971591	0.951013
2026	2026Cap and trade, offsets	0.968771	0.948580
2027	2027Cap and trade, offsets	0.962166	0.942431
2028	2028Cap and trade, offsets	0.953486	0.934558
2029	2029Cap and trade, offsets	0.945353	0.927915
2030	2030Cap and trade, offsets	0.939081	0.921951
2031	2031Cap and trade, offsets	0.934649	0.919709
2032	2032Cap and trade, offsets	0.931985	0.920480
2033	2033Cap and trade, offsets	0.929167	0.920146
2034	2034Cap and trade, offsets		
2035	2035Cap and trade, offsets		
2036	2036Cap and trade, offsets		
2037	2037Cap and trade, offsets		
2038	2038Cap and trade, offsets		
2039	2039Cap and trade, offsets		
2040	2040Cap and trade, offsets		

Rural Residential
Rural Commercial

\$20 fee economy, deficit reduction

		Rural	Industrial
2013	2013\$20 fee economy, deficit reduction	1.000000	1.000000
2014	2014\$20 fee economy, deficit reduction	1.000000	1.000000
2015	2015\$20 fee economy, deficit reduction	1.000000	1.000000
2016	2016\$20 fee economy, deficit reduction	1.000000	1.000000
2017	2017\$20 fee economy, deficit reduction	1.000000	1.000000
2018	2018\$20 fee economy, deficit reduction	1.000000	1.000000
2019	2019\$20 fee economy, deficit reduction	1.000000	1.000000
2020	2020\$20 fee economy, deficit reduction	0.937845	0.903187
2021	2021\$20 fee economy, deficit reduction	0.934314	0.902780
2022	2022\$20 fee economy, deficit reduction	0.931263	0.902005
2023	2023\$20 fee economy, deficit reduction	0.927579	0.900217
2024	2024\$20 fee economy, deficit reduction	0.924281	0.899892
2025	2025\$20 fee economy, deficit reduction	0.919547	0.899924
2026	2026\$20 fee economy, deficit reduction	0.914185	0.898928
2027	2027\$20 fee economy, deficit reduction	0.910389	0.898942
2028	2028\$20 fee economy, deficit reduction	0.907608	0.899623
2029	2029\$20 fee economy, deficit reduction	0.904821	0.902297
2030	2030\$20 fee economy, deficit reduction	0.902391	0.908044
2031	2031\$20 fee economy, deficit reduction	0.901719	0.913857
2032	2032\$20 fee economy, deficit reduction	0.901554	0.917769
2033	2033\$20 fee economy, deficit reduction	0.901806	0.922309
2034	2034\$20 fee economy, deficit reduction		
2035	2035\$20 fee economy, deficit reduction		
2036	2036\$20 fee economy, deficit reduction		
2037	2037\$20 fee economy, deficit reduction		
2038	2038\$20 fee economy, deficit reduction		
2039	2039\$20 fee economy, deficit reduction		
2040	2040\$20 fee economy, deficit reduction		

Rural Residential
Rural Commercial

\$20 fee w/deficit reduction

		Rural	Industrial
2013	2013\$20 fee w/deficit reduction	1.000000	1.000000
2014	2014\$20 fee w/deficit reduction	1.000000	1.000000
2015	2015\$20 fee w/deficit reduction	1.000000	1.000000
2016	2016\$20 fee w/deficit reduction	1.000000	1.000000
2017	2017\$20 fee w/deficit reduction	1.000000	1.000000
2018	2018\$20 fee w/deficit reduction	1.000000	1.000000
2019	2019\$20 fee w/deficit reduction	1.000000	1.000000
2020	2020\$20 fee w/deficit reduction	0.939295	0.893705
2021	2021\$20 fee w/deficit reduction	0.935483	0.891892
2022	2022\$20 fee w/deficit reduction	0.932212	0.890366
2023	2023\$20 fee w/deficit reduction	0.928663	0.888022
2024	2024\$20 fee w/deficit reduction	0.923414	0.886092
2025	2025\$20 fee w/deficit reduction	0.917473	0.884594
2026	2026\$20 fee w/deficit reduction	0.912291	0.882077
2027	2027\$20 fee w/deficit reduction	0.909142	0.880131
2028	2028\$20 fee w/deficit reduction	0.906870	0.878657
2029	2029\$20 fee w/deficit reduction	0.904184	0.879492
2030	2030\$20 fee w/deficit reduction	0.902080	0.881530
2031	2031\$20 fee w/deficit reduction	0.901321	0.883881
2032	2032\$20 fee w/deficit reduction	0.900904	0.885619
2033	2033\$20 fee w/deficit reduction	0.901258	0.888153
2034	2034\$20 fee w/deficit reduction		
2035	2035\$20 fee w/deficit reduction		
2036	2036\$20 fee w/deficit reduction		
2037	2037\$20 fee w/deficit reduction		
2038	2038\$20 fee w/deficit reduction		
2039	2039\$20 fee w/deficit reduction		
2040	2040\$20 fee w/deficit reduction		

Rural Residential
Rural Commercial

\$20 fee w/business rebate

		Rural	Industrial
2013	2013\$20 fee w/business rebate	1.000000	1.000000
2014	2014\$20 fee w/business rebate	1.000000	1.000000
2015	2015\$20 fee w/business rebate	1.000000	1.000000
2016	2016\$20 fee w/business rebate	1.000000	1.000000
2017	2017\$20 fee w/business rebate	1.000000	1.000000
2018	2018\$20 fee w/business rebate	1.000000	1.000000
2019	2019\$20 fee w/business rebate	1.000000	1.000000
2020	2020\$20 fee w/business rebate	0.940283	0.886276
2021	2021\$20 fee w/business rebate	0.937320	0.884986
2022	2022\$20 fee w/business rebate	0.933569	0.883133
2023	2023\$20 fee w/business rebate	0.929392	0.880849
2024	2024\$20 fee w/business rebate	0.924537	0.878137
2025	2025\$20 fee w/business rebate	0.918926	0.875676
2026	2026\$20 fee w/business rebate	0.914151	0.873142
2027	2027\$20 fee w/business rebate	0.910549	0.870450
2028	2028\$20 fee w/business rebate	0.908207	0.867932
2029	2029\$20 fee w/business rebate	0.905511	0.868433
2030	2030\$20 fee w/business rebate	0.903506	0.870703
2031	2031\$20 fee w/business rebate	0.902990	0.873290
2032	2032\$20 fee w/business rebate	0.902663	0.873460
2033	2033\$20 fee w/business rebate	0.902848	0.874907
2034	2034\$20 fee w/business rebate		
2035	2035\$20 fee w/business rebate		
2036	2036\$20 fee w/business rebate		
2037	2037\$20 fee w/business rebate		
2038	2038\$20 fee w/business rebate		
2039	2039\$20 fee w/business rebate		
2040	2040\$20 fee w/business rebate		

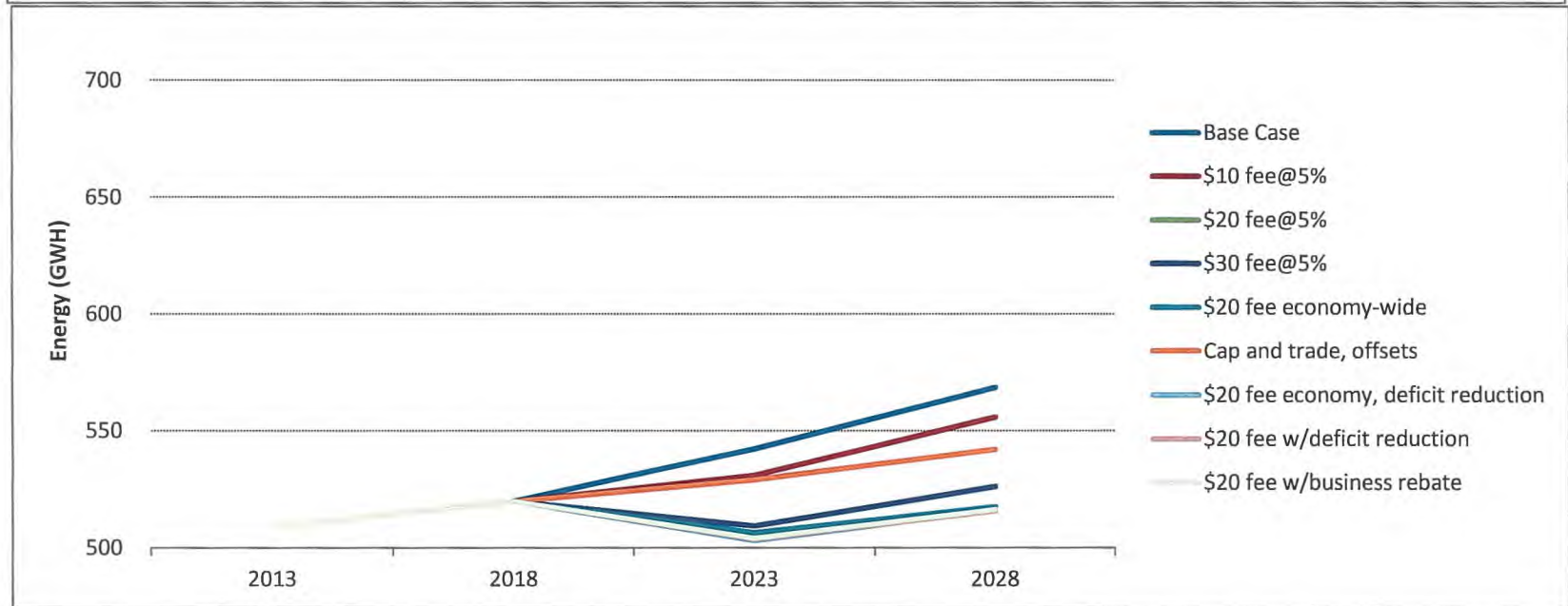
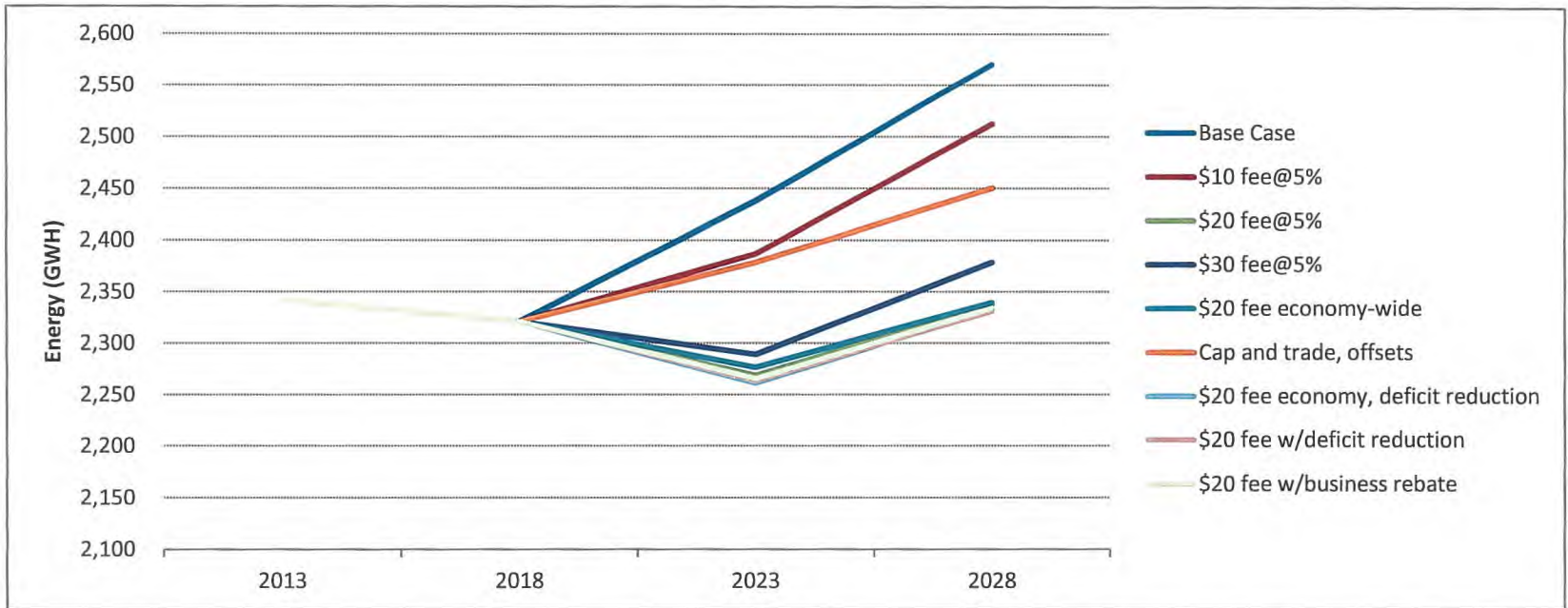
Rural Residential
Rural Commercial

Rural System Energy Requirements (MWH)

Forecast Scenario	2013	2018	2023	2028	% Lower than Base Case Forecast
Base Case	2,342,123	2,320,926	2,437,959	2,570,163	0.0%
\$10 fee@5%	2,342,123	2,320,926	2,386,707	2,512,566	-2.2%
\$20 fee@5%	2,342,123	2,320,926	2,268,860	2,337,363	-9.1%
\$30 fee@5%	2,342,123	2,320,926	2,289,352	2,378,616	-7.5%
\$20 fee economy-wide	2,342,123	2,320,926	2,276,625	2,339,889	-9.0%
Cap and trade, offsets	2,342,123	2,320,926	2,378,527	2,450,616	-4.7%
\$20 fee economy, deficit reduction	2,342,123	2,320,926	2,261,400	2,332,701	-9.2%
\$20 fee w/deficit reduction	2,342,123	2,320,926	2,264,041	2,330,805	-9.3%
\$20 fee w/business rebate	2,342,123	2,320,926	2,265,820	2,334,240	-9.2%

Rural System Peak Demand Requirements (MW)

Forecast Scenario	2013	2018	2023	2028	% Lower than Base Case Forecast
Base Case	509	520	542	569	0.0%
\$10 fee@5%	509	520	531	556	-2.2%
\$20 fee@5%	509	520	505	517	-9.1%
\$30 fee@5%	509	520	509	526	-7.5%
\$20 fee economy-wide	509	520	507	518	-9.0%
Cap and trade, offsets	509	520	529	542	-4.7%
\$20 fee economy, deficit reduction	509	520	503	516	-9.2%
\$20 fee w/deficit reduction	509	520	504	516	-9.3%
\$20 fee w/business rebate	509	520	504	516	-9.2%

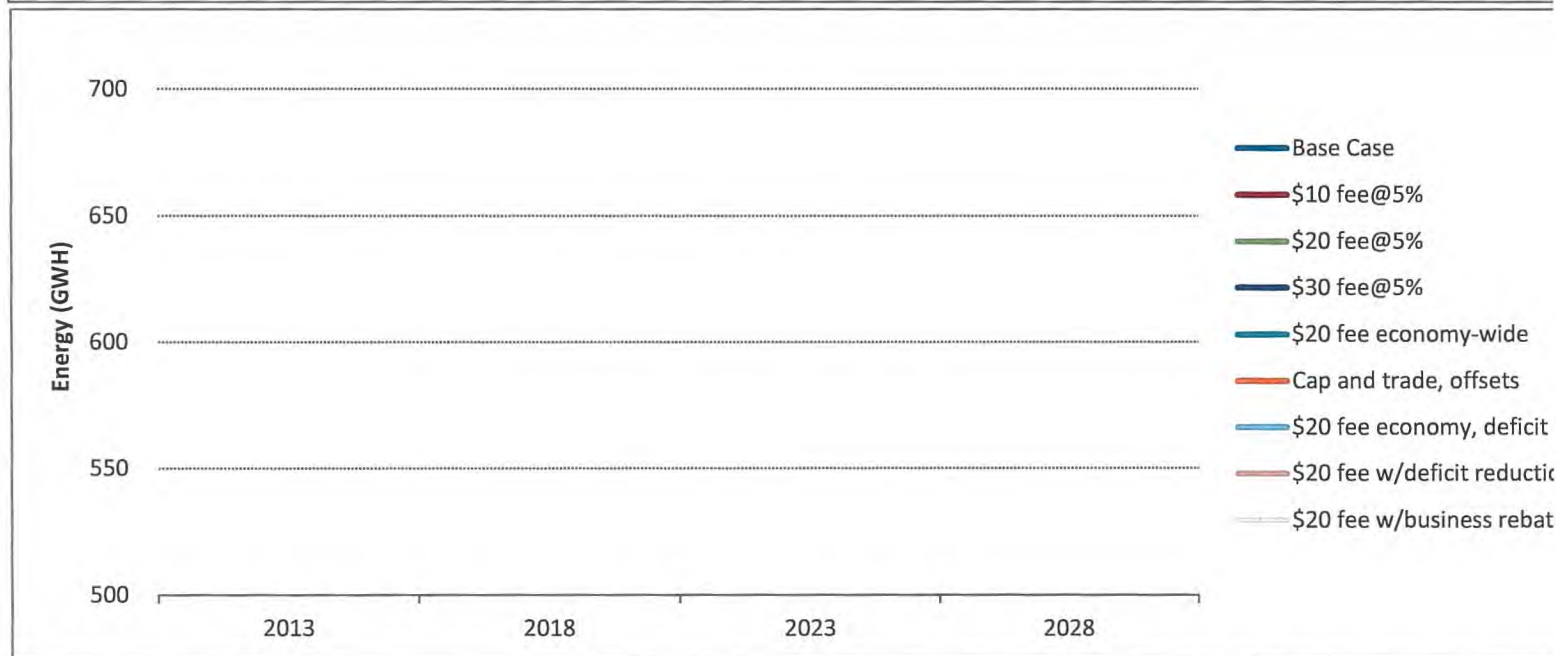
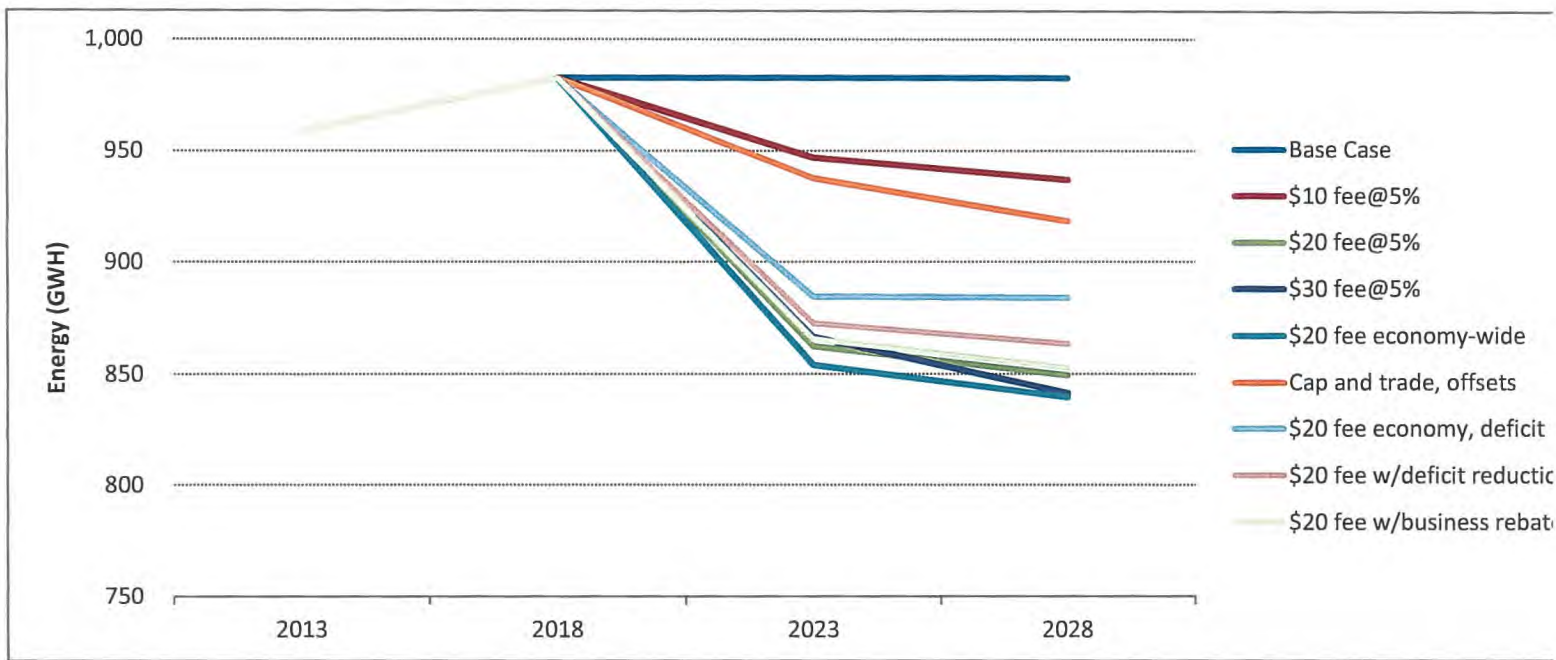


Industrial Energy Requirements (MWH)

Forecast Scenario	2013	2018	2023	2028	% Lower than
					Base Case Forecast
Base Case	958,781	982,555	982,555	982,555	0.0%
\$10 fee@5%	958,781	982,555	946,897	936,903	-4.6%
\$20 fee@5%	958,781	982,555	862,369	849,429	-13.5%
\$30 fee@5%	958,781	982,555	866,528	841,289	-14.4%
\$20 fee economy-wide	958,781	982,555	854,011	839,411	-14.6%
Cap and trade, offsets	958,781	982,555	937,704	918,255	-6.5%
\$20 fee economy, deficit reduction	958,781	982,555	884,513	883,929	-10.0%
\$20 fee w/deficit reduction	958,781	982,555	872,531	863,329	-12.1%
\$20 fee w/business rebate	958,781	982,555	865,483	852,791	-13.2%

Industrial Peak Demand Requirements (MW)

Forecast Scenario	2013	2018	2023	2028	% Lower than
					Base Case Forecast
Base Case	134	153	158	163	0.0%
\$10 fee@5%	134	153	153	156	-4.6%
\$20 fee@5%	134	153	139	141	-13.5%
\$30 fee@5%	134	153	140	140	-14.4%
\$20 fee economy-wide	134	153	138	140	-14.6%
Cap and trade, offsets	134	153	151	153	-6.5%
\$20 fee economy, deficit reduction	134	153	143	147	-10.0%
\$20 fee w/deficit reduction	134	153	141	144	-12.1%
\$20 fee w/business rebate	134	153	140	142	-13.2%



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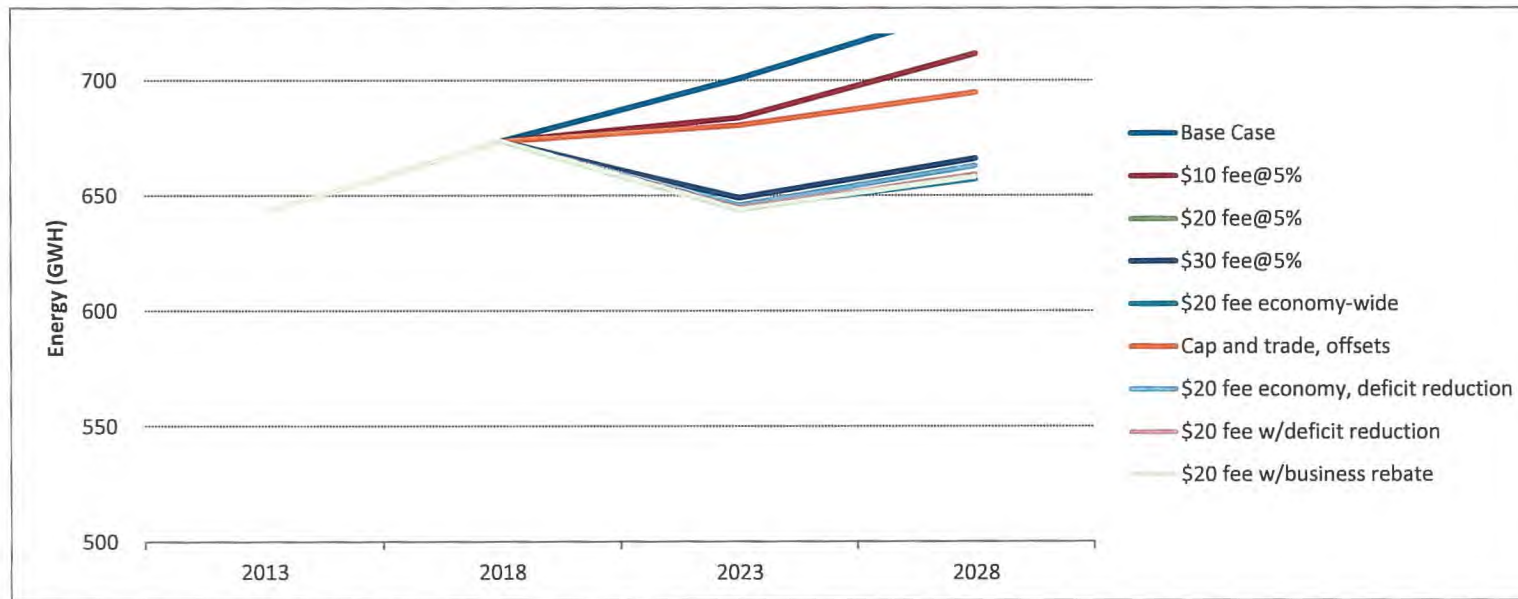
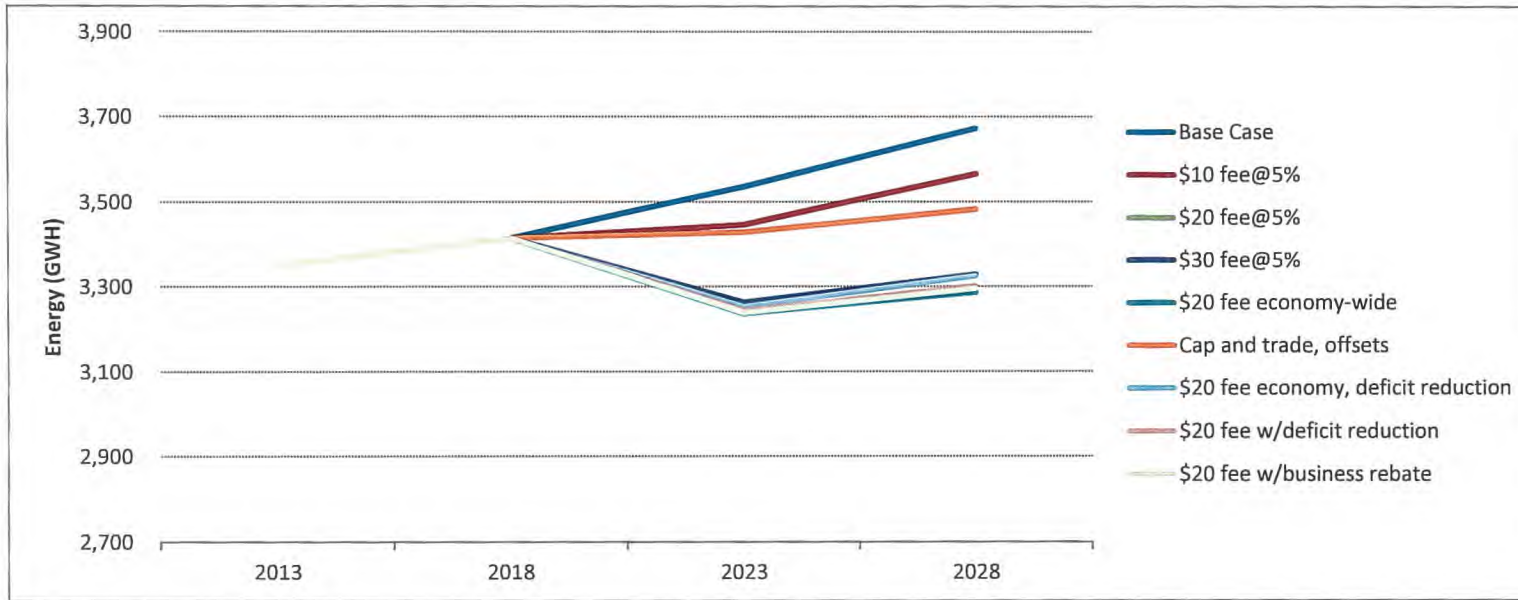
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Native System Energy Requirements (MWH)

Forecast Scenario	2013	2018	2023	2028	% Lower than
					Base Case Forecast
Base Case	3,349,811	3,415,510	3,536,512	3,673,199	0.0%
\$10 fee@5%	3,349,811	3,415,510	3,446,654	3,566,448	-2.9%
\$20 fee@5%	3,349,811	3,415,510	3,237,416	3,294,863	-10.3%
\$30 fee@5%	3,349,811	3,415,510	3,262,903	3,329,100	-9.4%
\$20 fee economy-wide	3,349,811	3,415,510	3,236,803	3,287,118	-10.5%
Cap and trade, offsets	3,349,811	3,415,510	3,428,692	3,483,117	-5.2%
\$20 fee economy, deficit reduction	3,349,811	3,415,510	3,252,598	3,325,713	-9.5%
\$20 fee w/deficit reduction	3,349,811	3,415,510	3,242,941	3,302,454	-10.1%
\$20 fee w/business rebate	3,349,811	3,415,510	3,237,492	3,295,111	-10.3%

Native System Peak Demand Requirements (MW)

Forecast Scenario	2013	2018	2023	2028	% Lower than
					Base Case Forecast
Base Case	643	673	701	732	0.0%
\$10 fee@5%	643	673	684	712	-2.8%
\$20 fee@5%	643	673	644	658	-10.1%
\$30 fee@5%	643	673	649	666	-9.0%
\$20 fee economy-wide	643	673	644	657	-10.2%
Cap and trade, offsets	643	673	680	695	-5.1%
\$20 fee economy, deficit reduction	643	673	646	663	-9.4%
\$20 fee w/deficit reduction	643	673	644	659	-9.9%
\$20 fee w/business rebate	643	673	644	658	-10.1%





	Number of Customers	Elasticity Coefficient
JPEC	25,944	-0.161
MCRECC	26,503	-0.155
KENERGY	45,229	-0.206
	<hr/> 97,676	<hr/> -0.180