

**REFERENCE:**

Tab 7 Page 2 of 30; Tab 3 Supplement Page 3 of 22; PUB MFR 65 Updated

**PREAMBLE TO IR (IF ANY):**

**QUESTION:**

- a) Please plot the gross firm energy and gross total peak net of forecasted DSM for the 2015 Load Forecast, the 2016 Load Forecast, and the 2017 Load Forecast as well as providing tables of the data.
- b) Please plot the Residential, Mass Market, and Top Consumers loads for the 2015 Load Forecast, the 2016 Load Forecast, and the 2017 Load Forecast as well as providing tables of the data (three separate plots). Please plot actuals back to 2012/13.
- c) Repeat the plots and tables in (b) using the load net of DSM for the forecast years.

**RATIONALE FOR QUESTION:**

To provide a visual comparison of the load forecasts

**RESPONSE:**

Please see the attached for the response to questions a, b, and c.

Pages 1 to 3 of the attachment contain the data for each of the plots provided in each subsequent tab associated with each question.

The Gross Total Peak Net of DSM graph has been revised from the original response filed on September 5, 2017 to correct the DSM impact to the 2015 Load Forecast.

**Base Forecast**

	Residential Basic				GS Mass Market				GS Top Consumers				Gross Firm Energy				Gross Total Peak			
	Actuals	2015 Fcst	2016 Fcst	2017 Fcst	Actuals	2015 Fcst	2016 Fcst	2017 Fcst	Actuals	2015 Fcst	2016 Fcst	2017 Fcst	Actuals	2015 Fcst	2016 Fcst	2017 Fcst	Actuals	2015 Fcst	2016 Fcst	2017 Fcst
2012/13	7,223				8,434				5,560				24,750				4,559			
2013/14	7,767				8,839				5,461				25,625				4,743			
2014/15	7,658	7,658			8,771	8,771			5,750	5,750			25,505	25,505			4,713	4,713		
2015/16	7,074	7,668	7,074		8,442	8,878	8,442		5,886	6,058	5,886		24,665	26,145	24,665		4,479	4,829	4,479	
2016/17	7,158	7,773	7,671	7,158	8,956	9,082	9,286	8,956	5,685	6,299	5,835	5,685	25,227	26,792	26,385	25,227	4,822	4,936	4,850	4,822
2017/18		7,870	7,750	7,594		9,272	9,471	9,278		6,308	5,748	5,615		27,126	26,596	26,029		5,000	4,885	4,759
2018/19		7,956	7,834	7,674		9,433	9,639	9,383		6,376	5,675	5,440		27,486	26,785	26,026		5,063	4,928	4,778
2019/20		8,047	7,931	7,739		9,590	9,779	9,466		6,257	5,746	5,475		27,600	27,060	26,220		5,086	4,971	4,816
2020/21		8,142	8,017	7,723		9,746	9,931	9,512		6,771	5,818	5,502		28,449	27,410	26,238		5,210	5,033	4,820
2021/22		8,240	8,108	7,689		9,903	10,084	9,588		6,845	5,890	5,943		28,786	27,729	26,766		5,267	5,089	4,895
2022/23		8,337	8,194	7,685		10,064	10,241	9,715		6,948	5,958	5,951		29,197	28,082	26,877		5,337	5,154	4,916
2023/24		8,434	8,277	7,679		10,228	10,400	9,823		7,031	6,028	6,007		29,590	28,435	27,055		5,406	5,218	4,949
2024/25		8,534	8,355	7,746		10,397	10,560	9,998		7,122	6,100	6,062		29,999	28,785	27,389		5,476	5,282	5,009
2025/26		8,632	8,429	7,879		10,571	10,701	10,153		7,209	6,172	6,119		30,408	29,110	27,780		5,547	5,341	5,081
2026/27		8,732	8,488	8,022		10,749	10,866	10,331		7,296	6,247	6,176		30,823	29,447	28,208		5,619	5,402	5,161
2027/28		8,830	8,525	8,166		10,931	11,034	10,512		7,383	6,322	6,233		31,243	29,762	28,641		5,692	5,458	5,242
2028/29		8,926	8,581	8,301		11,116	11,203	10,694		7,472	6,400	6,292		31,664	30,106	29,068		5,765	5,520	5,321
2029/30		9,024	8,648	8,448		11,306	11,446	10,879		7,562	6,532	6,351		32,094	30,602	29,510		5,840	5,608	5,403
2030/31		9,122	8,714	8,599		11,499	11,694	11,067		7,653	6,667	6,410		32,531	31,108	29,962		5,915	5,696	5,487
2031/32		9,218	8,820	8,759		11,748	11,945	11,256		7,810	6,805	6,471		33,101	31,666	30,428		6,012	5,796	5,574
2032/33		9,316	8,958	8,934		12,004	12,202	11,448		7,971	6,946	6,532		33,684	32,273	30,914		6,112	5,905	5,665
2033/34		9,445	9,103	9,105		12,267	12,465	11,643		8,135	7,090	6,593		34,317	32,896	31,399		6,220	6,017	5,756
2034/35		9,607	9,248	9,281		12,549	12,735	11,841		8,302	7,237	6,656		35,011	33,532	31,895		6,341	6,131	5,848
2035/36			9,404	9,458			13,013	12,042				7,387		34,193	32,398			6,250	6,250	5,943
2036/37				9,657				12,248				6,783				32,930				6,043

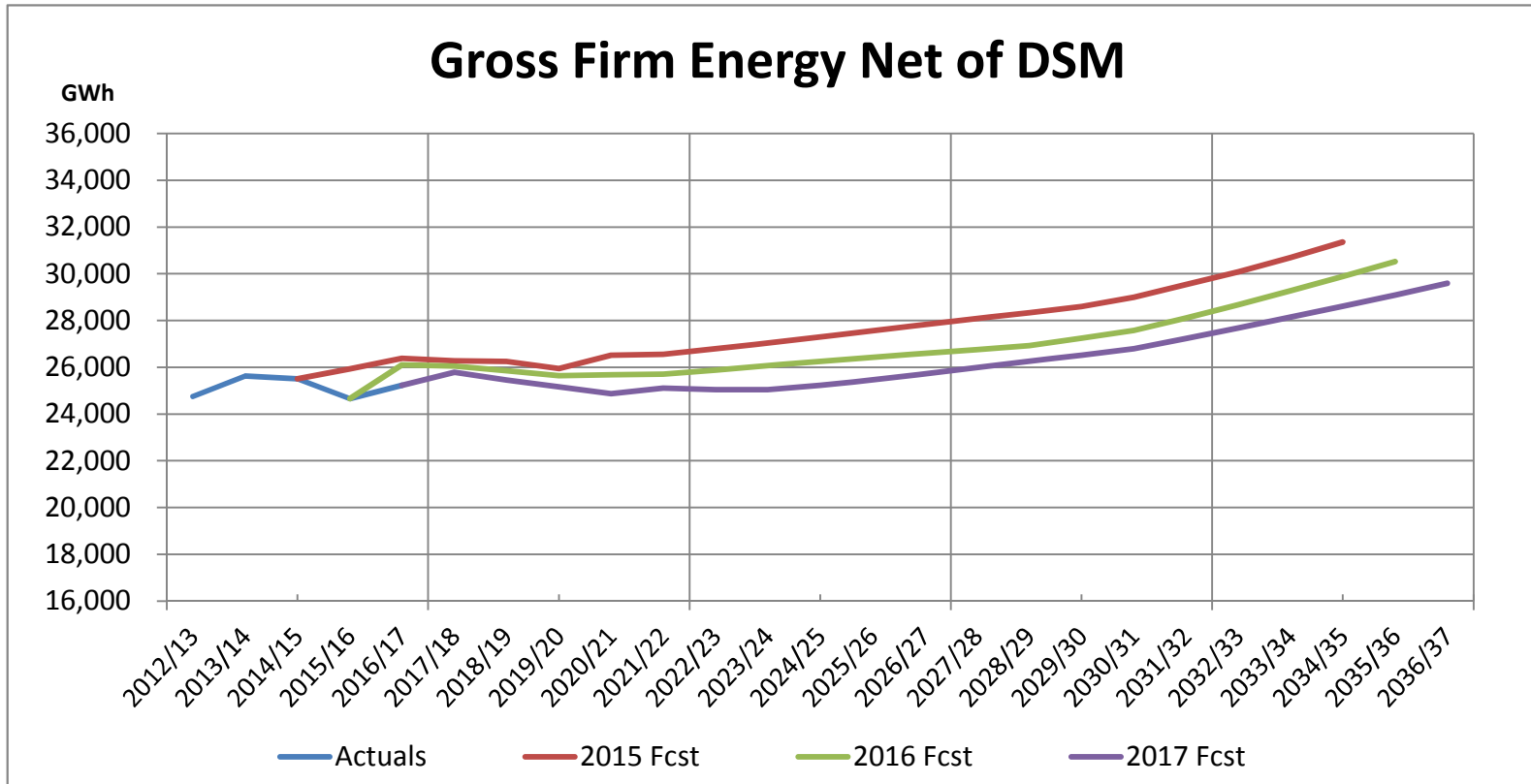
**DSM Forecast**

	Residential Basic				GS Mass Market				GS Top Consumers				Gross Firm Energy				Gross Total Peak			
	Actuals	2015 Fcst	2016 Fcst	2017 Fcst	Actuals	2015 Fcst	2016 Fcst	2017 Fcst	Actuals	2015 Fcst	2016 Fcst	2017 Fcst	Actuals	2015 Fcst	2016 Fcst	2017 Fcst	Actuals	2015 Fcst	2016 Fcst	2017 Fcst
2012/13																				
2013/14																				
2014/15																				
2015/16		44				84				55				217				46		
2016/17		80	45			169	143			97	55			412	285			89	62	
2017/18		161	128	40		358	308	104		212	27	54		852	544	238		195	135	52
2018/19		265	232	144		576	410	206		216	155	130		1,231	934	570		280	222	130
2019/20		402	362	276		753	607	403		264	245	220		1,652	1,416	1,052		369	321	229
2020/21		491	444	359		910	768	567		269	278	253		1,940	1,732	1,368		456	406	314
2021/22		577	526	443		1,078	936	741		275	283	258		2,231	2,020	1,657		542	487	396
2022/23		607	554	473		1,190	1,061	866		280	288	264		2,399	2,201	1,837		585	532	441
2023/24		639	583	504		1,292	1,175	980		285	293	269		2,557	2,369	2,006		621	569	478
2024/25		660	602	524		1,396	1,289	1,094		290	299	274		2,704	2,526	2,163		654	603	512
2025/26		673	621	546		1,502	1,407	1,212		295	304	279		2,844	2,688	2,325		685	638	547
2026/27		691	635	569		1,613	1,527	1,332		300	309	284		2,995	2,845	2,482		719	673	582
2027/28		712	648	590		1,728	1,654	1,459		305	314	289		3,156	3,010	2,647		753	708	617
2028/29		736	662	612		1,849	1,786	1,591		311	319	294		3,325	3,182	2,818		788	744	652
2029/30		763	676	633		1,970	1,921	1,726		316	324	300		3,498	3,356	2,993		824	779	688
2030/31		758	690	655		2,004	2,052	1,856		318	329	305		3,534	3,527	3,163		831	814	722
2031/32		754	686	657		2,035	2,081	1,886		320	332	307		3,566	3,558	3,195		837	819	728
2032/33		754	686	659		2,062	2,108	1,913		321	333	309		3,598	3,590	3,227		843	825	733
2033/34		754	687	660		2,087	2,133	1,938		322	335	310		3,628	3,620	3,257		849	830	739
2034/35		754	687	662		2,111	2,156	1,961		322	335	311		3,655	3,648	3,285		854	835	744
2035/36			689	664			2,178	1,983			335	311			3,674	3,311			840	749
2036/37			666	666				2,004				311				3,337				754

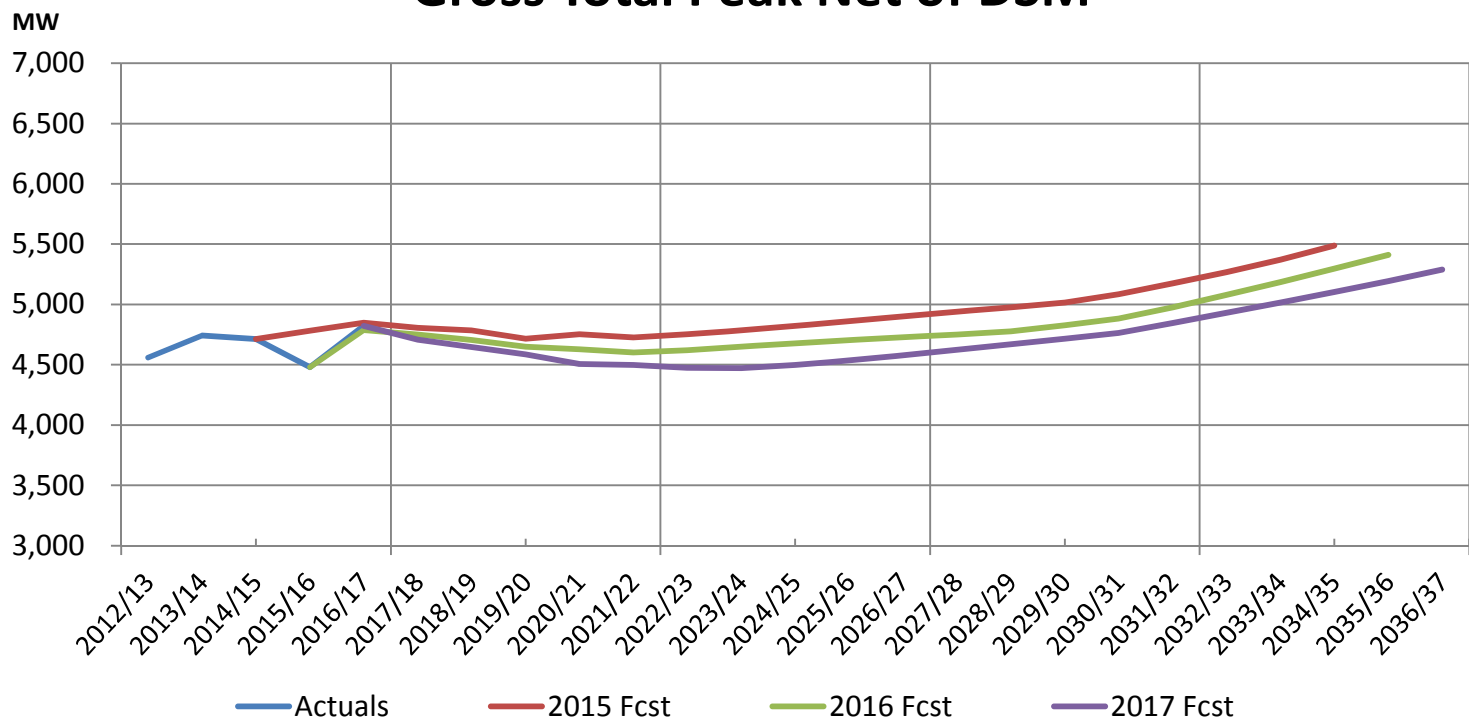
**Forecast Net of DSM**

	Residential Basic				GS Mass Market				GS Top Consumers				Gross Firm Energy				Gross Total Peak				
	Actuals	2015 Fcst	2016 Fcst	2017 Fcst	Actuals	2015 Fcst	2016 Fcst	2017 Fcst	Actuals	2015 Fcst	2016 Fcst	2017 Fcst	Actuals	2015 Fcst	2016 Fcst	2017 Fcst	Actuals	2015 Fcst	2016 Fcst	2017 Fcst	
2012/13	7,223				8,434				5,560				24,750				4,559				
2013/14	7,767				8,839				5,461				25,625				4,743				
2014/15	7,658	7,658			8,771	8,771			5,750	5,750			25,505	25,505			4,713	4,713			
2015/16	7,074	7,624	7,074		8,442	8,794	8,442		5,886	6,003	5,886		24,665	25,928	24,665		4,479	4,783	4,479		
2016/17	7,158	7,693	7,626	7,158	8,956	8,913	9,143	8,956	5,685	6,202	5,780	5,685	25,227	26,379	26,100	25,227	4,822	4,848	4,788	4,822	
2017/18		7,709	7,622	7,554		8,913	9,163	9,175		6,096	5,721	5,561		26,274	26,052	25,790		4,805	4,750	4,707	
2018/19		7,691	7,602	7,530		8,857	9,228	9,176		6,159	5,520	5,310		26,256	25,852	25,456		4,784	4,706	4,648	
2019/20		7,644	7,569	7,463		8,837	9,172	9,063		5,993	5,501	5,255		25,948	25,645	25,167		4,717	4,651	4,587	
2020/21		7,651	7,573	7,363		8,836	9,163	8,944		6,502	5,540	5,249		26,510	25,678	24,870		4,754	4,627	4,506	
2021/22		7,663	7,582	7,246		8,825	9,148	8,848		6,570	5,607	5,685		26,555	25,708	25,109		4,725	4,601	4,499	
2022/23		7,730	7,640	7,212		8,874	9,180	8,850		6,668	5,670	5,687		26,797	25,881	25,040		4,752	4,621	4,475	
2023/24		7,795	7,694	7,175		8,936	9,226	8,843		6,747	5,735	5,738		27,033	26,066	25,049		4,785	4,649	4,471	
2024/25		7,873	7,753	7,222		9,001	9,271	8,904		6,832	5,801	5,788		27,294	26,259	25,226		4,823	4,679	4,497	
2025/26		7,959	7,807	7,334		9,068	9,294	8,941		6,914	5,868	5,840		27,564	26,421	25,455		4,862	4,703	4,535	
2026/27		8,041	7,853	7,453		9,136	9,339	8,999		6,996	5,938	5,892		27,828	26,602	25,727		4,901	4,729	4,579	
2027/28		8,118	7,877	7,575		9,202	9,379	9,053		7,078	6,008	5,944		28,086	26,752	25,994		4,939	4,750	4,625	
2028/29		8,190	7,920	7,690		9,267	9,417	9,103		7,161	6,081	5,998		28,339	26,924	26,250		4,977	4,777	4,668	
2029/30		8,261	7,972	7,814		9,336	9,525	9,153		7,246	6,208	6,051		28,596	27,246	26,518		5,016	4,828	4,715	
2030/31		8,364	8,024	7,945		9,495	9,642	9,210		7,335	6,338	6,105		28,997	27,581	26,799		5,084	4,883	4,765	
2031/32		8,464	8,134	8,102		9,714	9,864	9,370		7,490	6,473	6,164		29,536	28,108	27,234		5,176	4,977	4,846	
2032/33		8,562	8,272	8,275		9,942	10,094	9,535		7,650	6,613	6,223		30,086	28,682	27,687		5,269	5,080	4,932	
2033/34		8,692	8,416	8,444		10,180	10,332	9,705		7,813	6,755	6,283		30,690	29,276	28,142		5,372	5,187	5,017	
2034/35		8,853	8,560	8,618		10,438	10,579	9,879		7,981	6,902	6,345		31,356	29,884	28,610		5,487	5,296	5,105	
2035/36			8,715	8,794			10,835	10,059			7,052	6,408			30,518	29,087			5,410	5,194	
2036/37				8,991				10,243				6,472				29,593					5,289

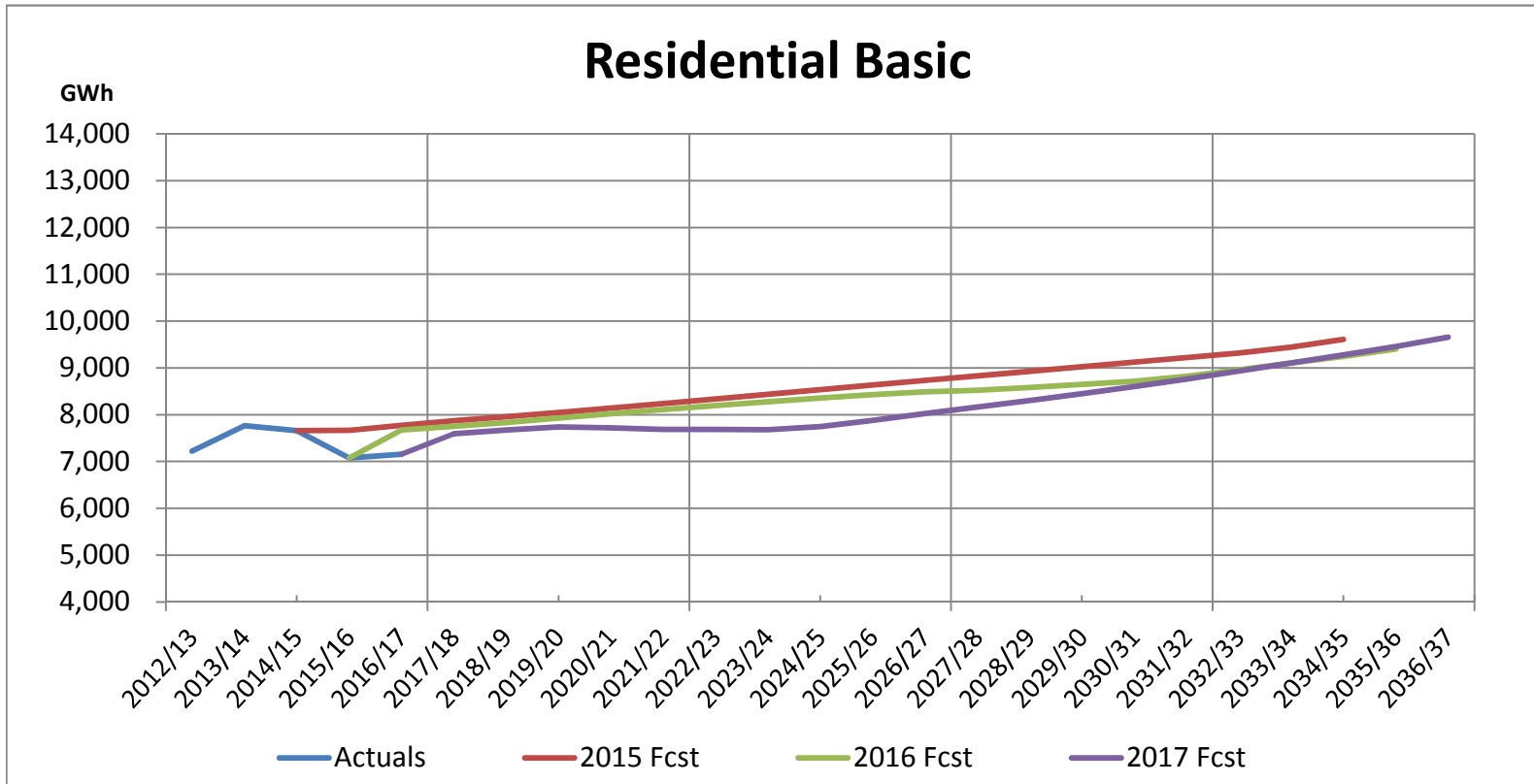
PUB-MH I-56a - Gross Firm Energy & Gross Total Peak Net of DSM



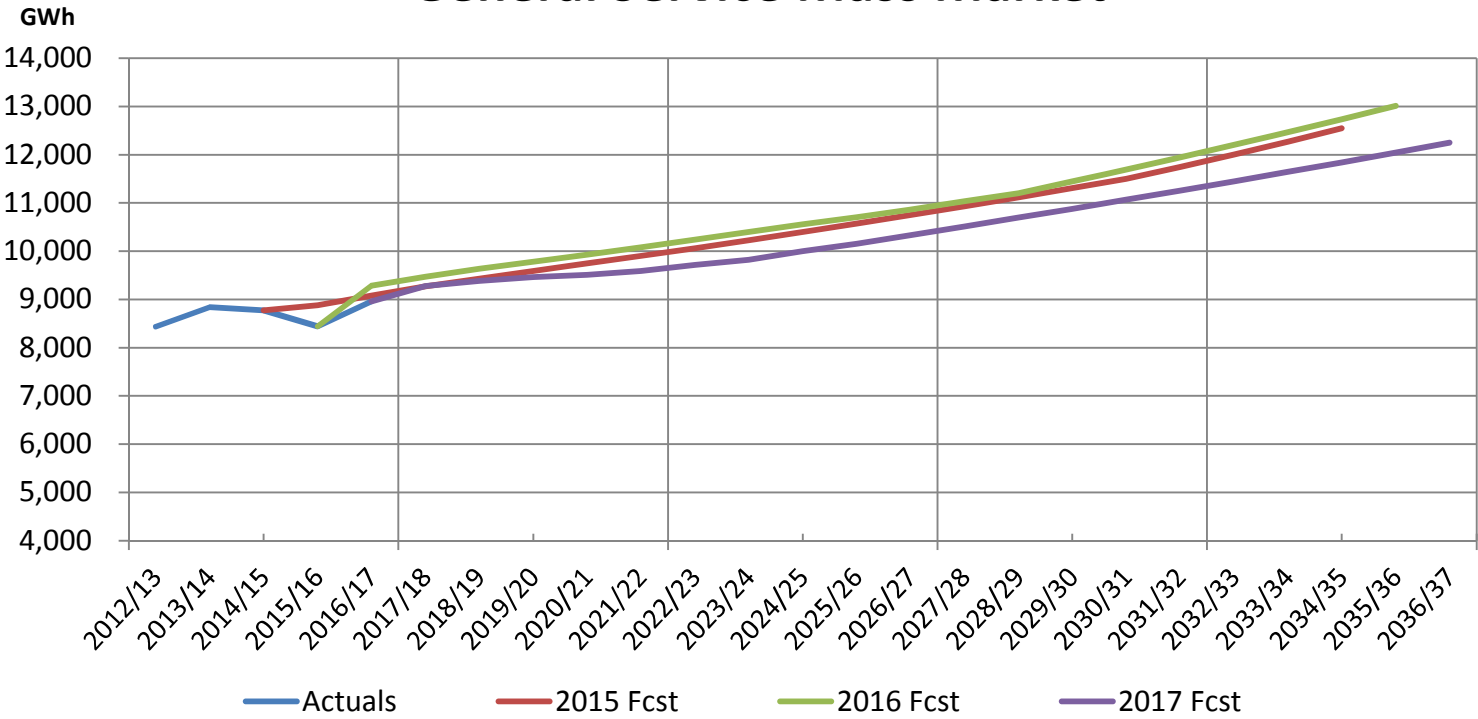
### Gross Total Peak Net of DSM



PUB-MH I-56b - Residential Basic, General Service Mass Market, General Service Top Consumers net of DSM (at Meter)

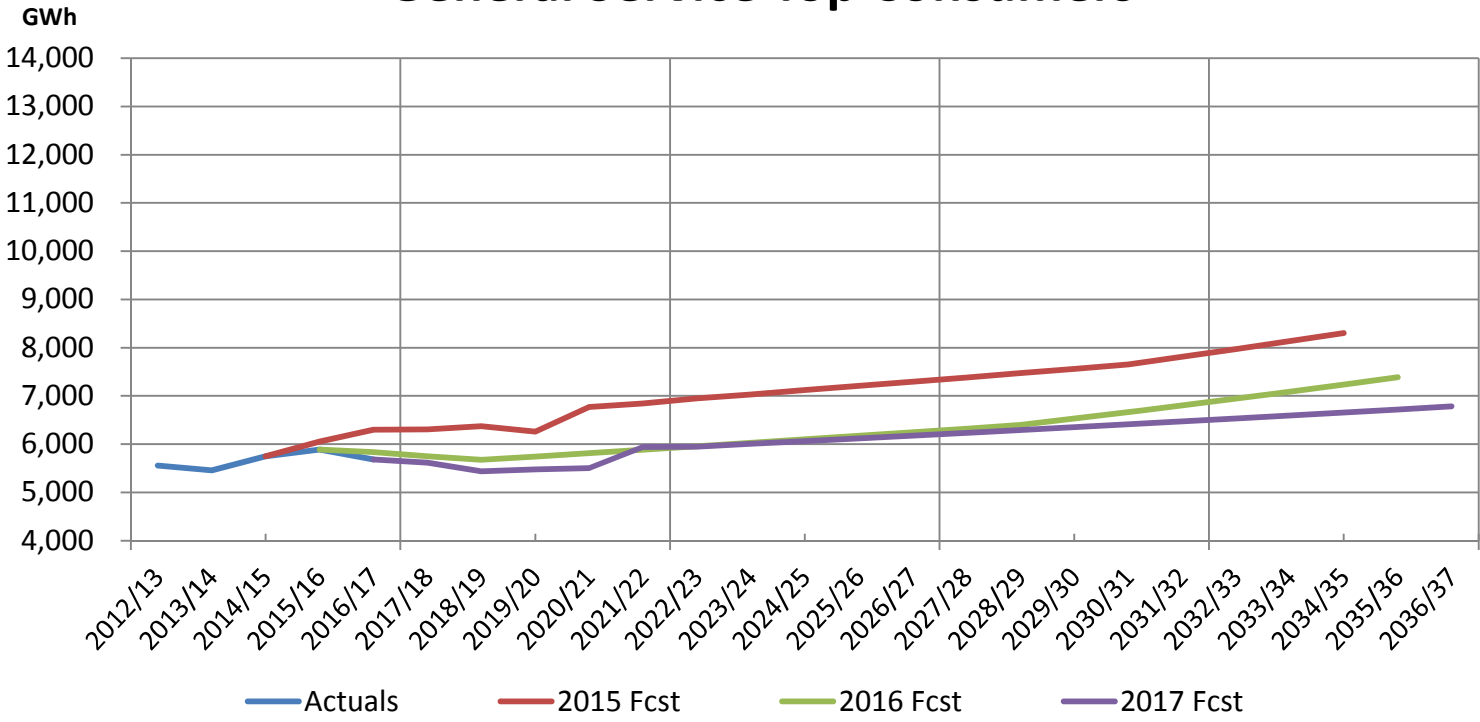


# General Service Mass Market

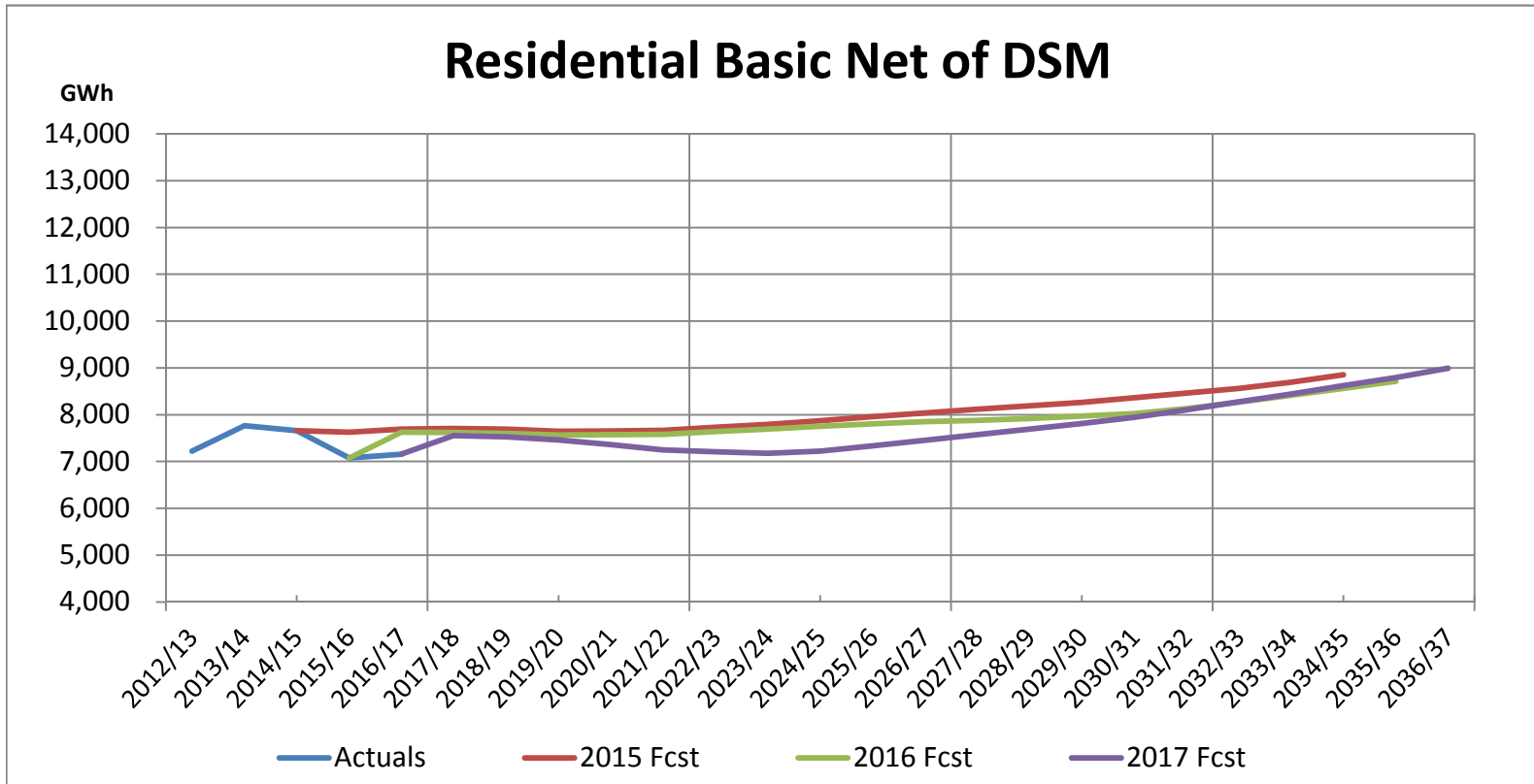




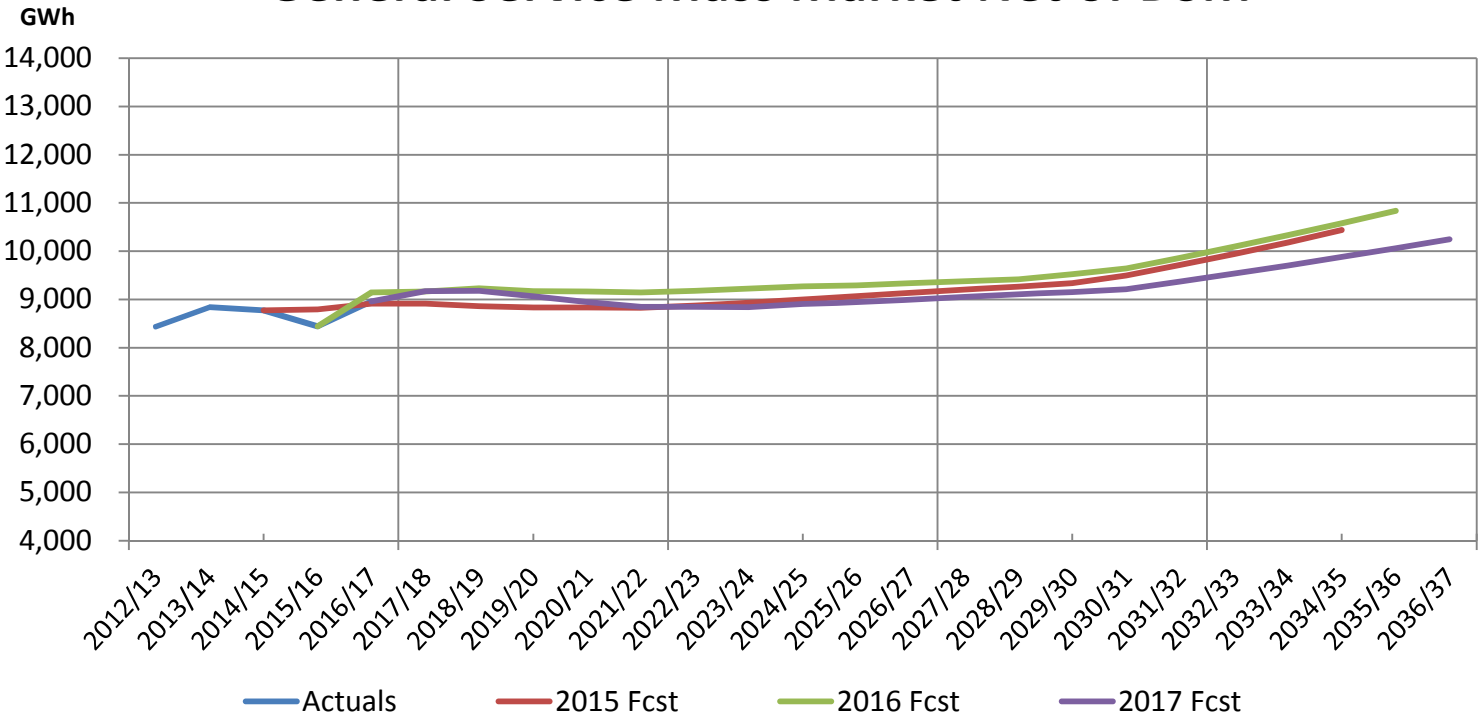
# General Service Top Consumers



PUB-MH I-56c - Residential Basic, General Service Mass Market, General Service Top Consumers net of DSM (at Meter)



# General Service Mass Market Net of DSM



# General Service Top Consumers Net of DSM

