



ATTORNEYS & COUNSELORS AT LAW | EST. 1884

One Tampa City Center, Suite 2000  
201 N. Franklin Street  
P.O. Box 1531 (33601)  
Tampa, FL 33602  
813.273.4200 Fax: 813.273.4396

[WWW.MFMLEGAL.COM](http://WWW.MFMLEGAL.COM)  
EMAIL: [INFO@MFMLEGAL.COM](mailto:INFO@MFMLEGAL.COM)

625 Court Street, Suite 200  
P.O. Box 1669 (33757)  
Clearwater, FL 33756  
727.441.8966 Fax: 727.442.8470

In Reply Refer to:  
Tampa  
[ab@macfar.com](mailto:ab@macfar.com)

April 27, 2020

**VIA E-PORTAL FILING**

Mr. Adam J. Teitzman  
Commission Clerk  
Florida Public Service Commission  
2540 Shumard Oak Boulevard  
Tallahassee, Florida 32399-0850

**Re: Docket No. 20190210-GU – Approval of Demand Side Management Plan, by Peoples Gas System**

Dear Mr. Teitzman:

Attached for electronic filing in the above docket on behalf of Peoples Gas System, please find its Response to Staff's Third Data Request (Nos. 1-9).

Your assistance in this matter is greatly appreciated.

Sincerely,

Andrew M. Brown

AB/plb  
Attachment

cc: Takira Thompson (via email: [tthompso@psc.state.fl.us](mailto:tthompso@psc.state.fl.us))  
Office of Public Counsel (via email: [fall-fry.mireille@leg.state.fl.us](mailto:fall-fry.mireille@leg.state.fl.us))  
Ms. Paula K. Brown  
Ms. Kandi M. Floyd  
Ms. Karen Bramley  
Mr. Luke Buzard

**PEOPLES GAS SYSTEM  
DOCKET NO. 20190210-EG  
STAFF'S THIRD DATA REQUEST  
REQUEST NO. 1  
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1. For each of the Company's existing Commission-approved demand-side management programs (Existing Programs), please identify the cost-effectiveness test results (Participants Test (PCT) and Gas Rate Impact Measure Test) using current financial assumptions, in Microsoft Excel format with formulas intact. For the PCT analysis, please do not include electric kilowatt-hour savings in the Load Reduction Scenario.
  - a. As part of this response, please provide a table comparing the results requested above with the cost-effectiveness test results for the Company's proposed modified programs in its petition (Proposed Programs). For the Proposed Programs, please do not include electric kilowatt-hour savings in the Load Reduction Scenario for the PCT analysis.
  
- A. Peoples Gas System ("PGS") existing programs bundle the measures (appliances) into new construction, replacement or retention programs. In the proposed programs, the programs are based on the measures eligible for incentive. The purpose of restructuring the programs is to streamline the effective and transparent reporting of energy reduction results. PGS is including the cost-effectiveness test results (Participants Cost Test ("PCT") and Gas Rate Impact Measure Test ("GRIM") using current financial assumptions, in Microsoft Excel format with formulas intact. For the PCT analysis, PGS did not include electric kilowatt-hour savings in the Load Reduction Scenario and the test results are included in the zipped folder named "Staff's 3<sup>rd</sup> DR-No1."
  - a. The tables below provide the results for comparing the results requested above with the cost-effectiveness test results for the company's proposed modified programs in its petition (Proposed Programs). For the proposed programs, PGS did not include electric kilowatt-hour savings in the Load Reduction Scenario for the PCT analysis.

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Existing Programs		
Residential Programs	G-RIM	PCT
Residential-New Construction		
New Construction	1.247	0.845
Residential-Replacement (electric to gas)	1.034	0.929

Oil Heat Replacement	1.537	0.210
Residential-Retention (gas to gas)	0.938	1.700

Proposed Programs		
Residential Programs	G-RIM	PCT
Residential-New Construction		
New Construction	1.247	0.845
Residential-Retrofit		
Central Heating	1.175	1.256
Dryer	1.069	1.015
ENERGY STAR Water Heater	1.101	0.828
Range/Cooktop	1.167	0.792
Tank Water Heater	1.166	0.915
Tankless Water Heater	1.017	0.986
Space Heating	1.537	0.210
Residential-Replacement		
Central Heating	1.010	3.336
Dryer	1.594	5.129
ENERGY STAR Water Heater	0.867	0.346
Range/Cooktop	2.619	-2.068
Tank Water Heater	0.962	1.110
Tankless Water Heater	0.843	1.595
Residential-Retrofit		
Gas Space Conditioning	1.307	0.382
Residential-Replacement		
Gas Space Conditioning	0.751	0.203

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Existing Programs		
Commercial Programs	G-RIM	PCT
Commercial-New Construction		
New Construction	4.114	0.375
Commercial-Replacement (electric to gas)	4.453	0.503

Commercial-Retention (gas to gas)	1.167	3.660
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Commercial-Replacement		
Small Package Cogen	2.910	0.761

Commercial-Retention		
Small Package Cogen	0.995	0.105

Commercial-Replacement		
Commercial Retrofit	5.922	0.414
Residential/Commercial Gas Space Conditioning*	3.685	0.180

Commercial-Retention		
Residential/Commercial Gas Space Conditioning*	1.104	0.289

Proposed Programs		
Commercial Programs	G-RIM	PCT
Commercial-New Construction		
New Construction	4.114	0.375
Commercial-Retrofit		
Dryer	1.481	0.577
ENERGY STAR Water Heater	4.739	0.562
Fryer	4.533	0.289
Range/Cooktop	5.191	0.334
Tankless Water Heater	4.411	0.541

Commercial-Replacement		
Dryer	1.108	4.355
ENERGY STAR Water Heater	1.208	87.536
Fryer	1.054	51.837
Range/Cooktop	1.215	-0.792
Tankless Water Heater	1.117	2.803

Commercial-Retrofit		
Combined Heat and Power	2.910	0.761

Commercial-Replacement		
Combined Heat and Power	0.995	0.105

Commercial-Retrofit		
Commercial Retrofit	5.922	0.414
Gas Space Conditioning	3.793	0.170

Commercial-Replacement		
Gas Space Conditioning	0.984	0.412

\*Residential/Commercial Gas Space Conditioning was analyzed for cost effectiveness weighting 50% Residential and 50% Commercial to develop the assumption inputs for a typical participant.

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2. Please identify the total current and projected annual bill impact on the general body of customers' monthly bills by program based on usage of 20 Therms per month for each of PGS's Existing Programs for the years 2019 through 2028.
- a. As part of this response, please provide a table comparing the results requested above with the total projected annual bill impact on the general body of ratepayers based on usage of 20 Therms per month for each of the Company's Proposed Programs for the years 2019 through 2028.
- A. PGS is providing the total current and projected annual bill impact on the general body of customers' monthly bills by program based on usage of 20 therms per month for each of PGS's existing programs for the years 2019 through 2028.
- a. The tables below provide the results requested above with the total projected annual bill impact on the general body of ratepayers based on usage of 20 therms per month for each of the company's proposed programs for the years 2019 through 2028.

<b>Annual Bill Impact - Existing Programs based on usage of 20 Therms per Month</b>										
<b>Residential</b>										
<b>Program Name</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>
New Construction	\$14.15	\$19.05	\$16.85	\$17.23	\$17.43	\$17.62	\$17.81	\$18.01	\$18.20	\$15.28
Replacement	\$0.77	\$1.02	\$0.91	\$0.94	\$0.95	\$0.98	\$1.00	\$1.02	\$1.04	\$0.89
Retention	\$8.76	\$11.83	\$10.63	\$11.03	\$11.33	\$11.58	\$11.84	\$12.11	\$12.36	\$10.55
Oil Heat Replacement	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Commercial</b>										
<b>Program Name</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>
New Construction	\$0.29	\$0.40	\$0.36	\$0.37	\$0.38	\$0.39	\$0.40	\$0.41	\$0.42	\$0.36
Replacement	\$0.41	\$0.55	\$0.49	\$0.50	\$0.51	\$0.52	\$0.53	\$0.54	\$0.56	\$0.47
Retention	\$0.81	\$1.09	\$0.97	\$0.99	\$1.01	\$1.04	\$1.06	\$1.08	\$1.11	\$0.94
Electric Replacement	\$0.01	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.01
Small Package Cogen	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
(Residential/Commercial) Gas Space Conditioning	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

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Annual Bill Impact - Proposed Programs based on usage of 20 Therms per Month										
Residential										
Program Name	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Central Heating	2.96	3.99	3.53	3.61	3.69	3.77	3.85	3.94	4.02	3.41
Customer Assisted Energy Audit	0.34	0.33	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.24
Dryer	0.45	0.61	0.54	0.54	0.55	0.57	0.59	0.59	0.62	0.53
ENERGY STAR Tank Water Heater	0.24	0.33	0.29	0.30	0.31	0.31	0.32	0.32	0.33	0.28
Gas Space Conditioning	0	0	0	0	0	0	0	0	0	0
New Construction	14.15	19.05	16.85	17.23	17.43	17.62	17.81	18.01	18.20	15.28
Range/Cooktop	0.65	0.85	0.76	0.79	0.79	0.82	0.82	0.85	0.85	0.73
Space Heating	0	0	0	0	0	0	0	0	0	0
Tank Water Heater	3.36	4.52	4.02	4.14	4.25	4.31	4.37	4.45	4.51	3.87
Tankless Water Heater	1.86	2.55	2.40	2.59	2.69	2.78	2.88	2.97	3.07	2.63
Commercial										
Program Name	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Walk-Through Energy Audit	0.08	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.12
Combined Heat and Power	0	0	0	0	0	0	0	0	0	0
Dryer	0.05	0.06	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.05
ENERGY STAR Tank Water Heater	0.06	0.08	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.07
Fryer	0.11	0.14	0.13	0.13	0.13	0.14	0.14	0.14	0.15	0.13
Gas Space Conditioning	0	0	0	0	0	0	0	0	0	0
New Construction	0.29	0.40	0.36	0.37	0.38	0.39	0.40	0.41	0.42	0.36
Range/Cooktop	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.03
Retrofit	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01
Tankless Water Heater	0.98	1.33	1.18	1.20	1.23	1.25	1.27	1.30	1.33	1.13

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3. For each of PGS's Existing Programs, please identify the current and projected annual program savings that would contribute to the Commission-approved DSM goals for the years 2019 through 2028. Please identify retention and replacement program savings individually.

a. As part of this response, please provide a table comparing the results requested above with the projected annual program savings for each of the Company's Proposed Programs, identifying retrofit and replacement program savings individually, for the years 2019 through 2028.

A. PGS is providing for each of the existing programs, the current and projected annual program savings that would contribute to the Commission-approved DSM goals for the years 2019 through 2028. The retention and replacement program savings are provided individually.

a. The tables below provide the projected annual program savings for each of the company's existing and proposed programs for years 2019 through 2028. The retention and replacement program savings are provided individually.

Annual Program Savings in Therms Existing Programs										
Residential										
Program Name	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
New Construction	224,938	230,359	235,779	241,199	243,909	246,619	249,329	252,039	254,749	257,460
Replacement	19,613	20,415	22,046	23,661	24,467	25,321	26,135	26,974	27,788	28,652
Retention	102,761	106,209	112,396	118,546	122,340	125,520	128,654	132,119	135,253	139,480
Oil Heat Replacement	0	0	0	0	0	0	0	0	0	0
Annual Program Savings in Therms Existing Programs										
Commercial										
Program Name	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
New Construction	43,146	45,569	46,539	48,478	49,932	50,902	52,841	54,295	55,265	56,235
Replacement	42,710	43,786	44,925	45,781	46,848	47,962	48,825	49,924	51,097	52,291
Retention	147,012	150,619	154,721	157,968	161,533	165,546	168,820	172,496	176,716	181,009
Electric Replacement	0	0	0	0	0	0	0	0	0	0
Small Package Cogen	0	0	0	0	0	0	0	0	0	0
(Residential/Commercial) Gas Space Conditioning	0	0	0	0	0	0	0	0	0	0

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Annual Program Savings in Therms Proposed Programs										
Residential										
Program Name	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Residential-New Construction										
New Construction	224,938	230,359	235,779	241,199	243,909	246,619	249,329	252,039	254,749	257,460
Residential-Retrofit										
Central Heating	0	0	0	0	0	0	0	0	0	0
Dryer	581	597	612	612	627	643	673	673	704	719
ENERGY STAR Tank Water Heater	248	254	260	266	272	278	285	288	294	300
Gas Space Conditioning	0	0	0	0	0	0	0	0	0	0
Range/Cooktop	1,369	1,369	1,424	1,479	1,479	1,533	1,533	1,588	1,588	1,643
Space Heating	0	0	0	0	0	0	0	0	0	0
Tank Water Heater	467	478	492	506	520	527	534	545	552	569
Tankless Water Heater	16,947	17,717	19,258	20,799	21,569	22,339	23,110	23,880	24,650	25,421
Residential-Replacement										
Central Heating	0	0	0	0	0	0	0	0	0	0
Dryer	1,357	1,392	1,428	1,428	1,464	1,499	1,571	1,571	1,642	1,678
ENERGY STAR Tank Water Heater	2,228	2,285	2,341	2,394	2,449	2,505	2,561	2,588	2,644	2,702
Gas Space Conditioning	0	0	0	0	0	0	0	0	0	0
Range/Cooktop	2,054	2,054	2,136	2,218	2,218	2,300	2,300	2,382	2,382	2,464
Tank Water Heater	46,282	47,326	48,718	50,110	51,502	52,198	52,894	53,938	54,634	56,374
Tankless Water Heater	50,841	53,152	57,774	62,396	64,707	67,018	69,329	71,640	73,951	76,262
Annual Program Savings in Therms Proposed Programs										
Commercial										
Program Name	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Commercial-New Construction										
New Construction	43,146	45,569	46,539	48,478	49,932	50,902	52,841	54,295	55,265	56,235
Commercial-Retrofit										
Combined Heat and Power	0	0	0	0	0	0	0	0	0	0
Dryer	76	69	72	75	78	81	84	88	91	94
ENERGY STAR Tank Water Heater	1,910	1,966	2,023	2,079	2,134	2,190	2,246	2,302	2,360	2,419
Fryer	1,245	1,251	1,310	1,367	1,373	1,430	1,488	1,494	1,554	1,614
Gas Space Conditioning	0	0	0	0	0	0	0	0	0	0
Range/Cooktop	238	248	257	267	276	285	295	305	314	324
Commercial Retrofit	0	0	0	0	0	0	0	0	0	0
Tankless Water Heater	39,240	40,251	41,263	41,993	42,987	43,976	44,712	45,735	46,778	47,840
Commercial-Replacement										
Combined Heat and Power	0	0	0	0	0	0	0	0	0	0
Dryer	177	161	168	175	183	190	197	205	212	220
ENERGY STAR Tank Water Heater	17,192	17,698	18,205	18,708	19,208	19,706	20,211	20,722	21,241	21,768
Fryer	11,207	11,263	11,786	12,306	12,354	12,868	13,390	13,450	13,986	14,530
Gas Space Conditioning	0	0	0	0	0	0	0	0	0	0
Range/Cooktop	714	743	772	800	828	856	885	914	943	973
Tankless Water Heater	117,721	120,754	123,790	125,979	128,960	131,927	134,137	137,206	140,333	143,519



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4. Please identify the current and projected annual program participation for each of PGS's Existing Programs for the years 2019 through 2028. Please identify retention and replacement program participation individually.
- a. As part of this response, please provide a table comparing the results requested above with the projected annual program participation for each of the Company's Proposed Programs, identifying retrofit and replacement program participation individually, for the years 2019 through 2028.
- A. PGS is providing the current and projected annual program participation for each of PGS's existing programs for the years 2019 through 2028. The retention and replacement program savings are provided individually.
- a. The tables below provide the projected annual program participation for each of the company's existing and proposed programs for the years 2019 through 2028. The retention and replacement program savings are provided individually.

<b>DSM Annual Participation Existing Programs</b>										
<b>Residential</b>										
<b>Program Name</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>
New Construction	8,300	8,500	8,700	8,900	9,000	9,100	9,200	9,300	9,400	9,500
Replacement	2,268	2,311	2,420	2,514	2,558	2,641	2,699	2,767	2,825	2,910
Retention	15,483	15,849	16,400	16,916	17,332	17,709	18,061	18,448	18,800	19,326
Oil Heat Replacement	0	0	0	0	0	0	0	0	0	0
<b>DSM Annual Participation Existing Programs</b>										
<b>Commercial</b>										
<b>Program Name</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>
New Construction	89	94	96	100	103	105	109	112	114	116
Replacement	85	87	89	91	93	96	97	100	102	105
Retention	279	285	293	300	307	314	321	328	336	345
Electric Replacement	0	0	0	0	0	0	0	0	0	0
Small Package Cogen	0	0	0	0	0	0	0	0	0	0
(Residential/Commercial) Gas Space Conditioning	0	0	0	0	0	0	0	0	0	0

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<b>DSM Annual Participation Proposed Programs</b>										
<b>Residential</b>										
<b>Program Name</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>
Residential Customer Energy Assisted Audit	2,500	3,500	4,500	4,500	4,500	4,500	4,500	4,500	4,500	4,500
<b>Residential-New Construction</b>										
New Construction	8,300	8,500	8,700	8,900	9,000	9,100	9,200	9,300	9,400	9,500
<b>Residential-Retrofit</b>										
Central Heating	41	42	43	44	45	46	47	48	49	50
Dryer	570	585	600	600	615	630	660	660	690	705
ENERGY STAR Tank Water Heater	40	41	42	43	44	45	46	47	48	49
Gas Space Conditioning	0	0	0	0	0	0	0	0	0	0
Range/Cooktop	1,000	1,000	1,040	1,080	1,080	1,120	1,120	1,160	1,160	1,200
Space Heating	0	0	0	0	0	0	0	0	0	0
Tank Water Heater	67	68	70	72	74	75	76	78	79	81
Tankless Water Heater	550	575	625	675	700	725	750	775	800	825
<b>Residential-Replacement</b>										
Central Heating	4,059	4,158	4,257	4,356	4,455	4,554	4,653	4,752	4,851	4,950
Dryer	1,330	1,365	1,400	1,400	1,435	1,470	1,540	1,540	1,610	1,645
ENERGY STAR Tank Water Heater	360	369	378	387	396	405	414	419	428	437
Gas Space Conditioning	0	0	0	0	0	0	0	0	0	0
Range/Cooktop	1,500	1,500	1,560	1,620	1,620	1,680	1,680	1,740	1,740	1,800
Tank Water Heater	6,584	6,732	6,930	7,128	7,326	7,425	7,524	7,673	7,772	8,019
Tankless Water Heater	1,650	1,725	1,875	2,025	2,100	2,175	2,250	2,325	2,400	2,475
<b>DSM Annual Participation Proposed Programs</b>										
<b>Commercial</b>										
<b>Program Name</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>
Commercial Walk-Through Energy Audit	300	400	500	500	500	500	500	500	500	500
<b>Commercial-New Construction</b>										
New Construction	89	94	96	100	103	105	109	112	114	116
<b>Commercial-Retrofit</b>										
Combined Heat and Power	0	0	0	0	0	0	0	0	0	0
Dryer	5	4	4	4	5	5	5	5	5	6
ENERGY STAR Tank Water Heater	3	3	3	3	3	3	3	3	3	3
Fryer	2	2	3	3	3	3	3	3	3	3
Gas Space Conditioning	0	0	0	0	0	0	0	0	0	0
Range/Cooktop	3	3	3	3	3	3	3	3	4	4
Commercial Retrofit	1	1	1	1	1	1	1	1	1	1
Tankless Water Heater	72	74	76	77	79	81	82	84	86	88
<b>Commercial-Replacement</b>										
Combined Heat and Power	0	0	0	0	0	0	0	0	0	0
Dryer	11	10	10	10	11	11	12	12	13	13
ENERGY STAR Tank Water Heater	23	23	24	25	25	26	27	27	28	29
Fryer	22	22	23	24	24	25	26	26	27	28
Gas Space Conditioning	0	0	0	0	0	0	0	0	0	0
Range/Cooktop	8	8	9	9	9	10	10	10	11	11
Tankless Water Heater	216	222	228	232	237	243	247	252	258	264

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5. Please identify the total current and projected annual program costs for each of PGS's Existing Programs for the years 2019 through 2028. Please identify retention and replacement program costs individually.
- a. As part of this response, please provide a table comparing the results requested above with the projected annual program costs for each of the Company's Proposed Programs, identifying retrofit and replacement program costs individually, for the years 2019 through 2028.
- A. PGS is providing the total current and projected annual program costs for each of PGS's existing programs for the years 2019 through 2028. The retention and replacement program savings are provided individually.
- a. The tables below provide the projected annual program costs for each of the company's existing and proposed programs for the years 2019 through 2028. The retention and replacement program savings are provided individually.

<b>DSM Cost Estimates Existing Programs</b>										
<b>Residential</b>										
<b>Program Name</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>
New Construction	\$9,843,800	\$10,081,000	\$10,318,200	\$10,555,400	\$10,674,000	\$10,792,600	\$10,911,200	\$11,029,800	\$11,148,400	\$11,267,000
Replacement	\$891,314	\$914,030	\$966,506	\$1,016,128	\$1,038,925	\$1,073,350	\$1,098,775	\$1,130,150	\$1,155,575	\$1,190,855
Retention	\$5,734,803	\$5,886,466	\$6,102,622	\$6,313,387	\$6,482,250	\$6,622,500	\$6,762,000	\$6,912,525	\$7,052,025	\$7,244,415
Oil Heat Replacement	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>DSM Cost Estimates - Existing Programs</b>										
<b>Commercial</b>										
<b>Program Name</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>
New Construction	\$201,674	\$213,004	\$217,536	\$226,600	\$233,398	\$237,930	\$246,994	\$253,792	\$258,324	\$262,856
Replacement	\$293,873	\$299,792	\$307,571	\$313,522	\$320,814	\$328,419	\$334,422	\$341,931	\$349,935	\$358,083
Retention	\$564,875	\$575,917	\$592,477	\$605,878	\$619,458	\$635,663	\$649,169	\$663,195	\$680,217	\$697,536
Electric Replacement	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Small Package Cogen	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(Residential/Commercial) Gas Space Conditioning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

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<b>DSM Cost Estimates Proposed Programs</b>										
<b>Residential</b>										
<b>Program Name</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>
Residential Customer Energy Assisted Audit	\$240,000	\$175,000	\$175,000	\$175,000	\$175,000	\$175,000	\$175,000	\$175,000	\$175,000	\$175,000
Residential-New Construction										
New Construction	\$9,843,800	\$10,081,000	\$10,318,200	\$10,555,400	\$10,674,000	\$10,792,600	\$10,911,200	\$11,029,800	\$11,148,400	\$11,267,000
Residential-Retrofit										
Central Heating	\$29,725	\$30,450	\$31,175	\$32,072	\$32,625	\$33,350	\$34,075	\$34,800	\$35,525	\$36,250
Dryer	\$114,000	\$117,000	\$120,000	\$120,000	\$123,000	\$126,000	\$132,000	\$132,000	\$138,000	\$141,000
ENERGY STAR Tank Water Heater	\$26,014	\$26,680	\$27,331	\$27,957	\$28,600	\$29,250	\$29,900	\$30,225	\$30,875	\$31,555
Gas Space Conditioning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Range/Cooktop	\$300,000	\$300,000	\$312,000	\$324,000	\$324,000	\$336,000	\$336,000	\$348,000	\$348,000	\$360,000
Space Heating	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Tank Water Heater	\$36,575	\$37,400	\$38,500	\$39,600	\$40,700	\$41,250	\$41,800	\$42,625	\$43,175	\$44,550
Tankless Water Heater	\$385,000	\$402,500	\$437,500	\$472,500	\$490,000	\$507,500	\$525,000	\$542,500	\$560,000	\$577,500
Residential-Replacement										
Central Heating	\$2,029,500	\$2,079,000	\$2,128,500	\$2,178,000	\$2,227,500	\$2,277,000	\$2,326,500	\$2,376,000	\$2,425,500	\$2,475,000
Dryer	\$199,500	\$204,750	\$210,000	\$210,000	\$215,250	\$220,500	\$231,000	\$231,000	\$241,500	\$246,750
ENERGY STAR Tank Water Heater	\$144,078	\$147,766	\$151,372	\$154,837	\$158,400	\$162,000	\$165,600	\$167,400	\$171,000	\$174,765
Gas Space Conditioning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Range/Cooktop	\$150,000	\$150,000	\$156,000	\$162,000	\$162,000	\$168,000	\$168,000	\$174,000	\$174,000	\$180,000
Tank Water Heater	\$2,304,225	\$2,356,200	\$2,425,500	\$2,494,800	\$2,564,100	\$2,598,750	\$2,633,400	\$2,685,375	\$2,720,025	\$2,806,650
Tankless Water Heater	\$907,500	\$948,750	\$1,031,250	\$1,113,750	\$1,155,000	\$1,196,250	\$1,237,500	\$1,278,750	\$1,320,000	\$1,361,250
<b>DSM Cost Estimates Proposed Programs</b>										
<b>Commercial</b>										
<b>Program Name</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>
Commercial Walk-Through Energy Audit	\$54,000	\$72,000	\$90,000	\$90,000	\$90,000	\$90,000	\$90,000	\$90,000	\$90,000	\$90,000
Commercial-New Construction										
New Construction	\$201,674	\$213,004	\$217,536	\$226,600	\$233,398	\$237,930	\$246,994	\$253,792	\$258,324	\$262,856
Commercial-Retrofit										
Combined Heat and Power										
Dryer	\$11,329	\$10,302	\$10,775	\$11,245	\$11,712	\$12,176	\$12,649	\$13,126	\$13,611	\$14,103
ENERGY STAR Tank Water Heater	\$6,326	\$6,513	\$6,699	\$6,884	\$7,068	\$7,251	\$7,437	\$7,625	\$7,816	\$8,010
Fryer	\$8,385	\$8,427	\$8,819	\$9,207	\$9,243	\$9,628	\$10,018	\$10,064	\$10,465	\$10,871
Gas Space Conditioning										
Range/Cooktop	\$5,377	\$5,592	\$5,807	\$6,020	\$6,233	\$6,444	\$6,659	\$6,876	\$7,096	\$7,319
Commercial Retrofit	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
Tankless Water Heater	\$252,456	\$258,959	\$265,471	\$270,165	\$276,558	\$282,920	\$287,659	\$294,240	\$300,947	\$307,779
Commercial-Replacement										
Combined Heat and Power										
Dryer	\$21,147	\$19,230	\$20,114	\$20,990	\$21,862	\$22,729	\$23,611	\$24,502	\$25,407	\$26,325
ENERGY STAR Tank Water Heater	\$34,163	\$35,169	\$36,176	\$37,175	\$38,168	\$39,157	\$40,162	\$41,178	\$42,209	\$43,255
Fryer	\$64,688	\$65,007	\$68,029	\$71,026	\$71,305	\$74,272	\$77,285	\$77,633	\$80,726	\$83,865
Gas Space Conditioning										
Range/Cooktop	\$12,097	\$12,581	\$13,065	\$13,546	\$14,023	\$14,499	\$14,982	\$15,470	\$15,966	\$16,469
Tankless Water Heater	\$432,781	\$443,930	\$455,093	\$463,140	\$474,100	\$485,006	\$493,130	\$504,412	\$515,909	\$527,621

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6. Please identify the total historical annual program costs for each of PGS's Existing Programs for the years 2010 through 2018. Please identify retention and replacement program costs individually.

A. The table below provides the total historical annual program costs for each of PGS's existing programs for the years 2010 through 2018. The retention and replacement program savings are provided individually.

<b>DSM Program Costs Existing Programs</b>									
<b>Residential</b>									
<b>Program Name</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>
New Construction	\$1,050,000	\$1,097,600	\$1,491,450	\$2,573,850	\$3,345,515	\$3,943,906	\$5,104,780	\$6,186,325	\$9,826,450
Replacement	\$638,373	\$917,763	\$975,938	\$994,678	\$867,829	\$923,684	\$722,698	\$640,822	\$673,339
Retention	\$2,555,930	\$3,315,052	\$3,299,616	\$4,259,561	\$4,367,917	\$4,796,931	\$4,775,897	\$4,851,678	\$4,543,113
Oil Heat Replacement	\$1,320	\$0	\$330	\$330	\$0	\$830	\$0	\$0	\$0
<b>DSM Program Costs Existing Programs</b>									
<b>Commercial</b>									
<b>Program Name</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>
New Construction	\$0	\$0	\$0	\$0	\$92,775	\$110,703	\$134,630	\$185,675	\$179,075
Replacement	\$0	\$0	\$0	\$0	\$251,295	\$548,008	\$611,543	\$683,123	\$848,765
Retention	\$0	\$0	\$0	\$0	\$488,919	\$387,894	\$426,875	\$254,000	\$478,050
Electric Replacement	\$80,315	\$108,370	\$84,859	\$70,237	\$44,884	\$49,807	\$15,641	\$15,680	\$13,515
Small Package Cogen	\$0	\$0	\$22,500	\$0	\$0	\$0	\$0	\$0	\$0
(Residential/Commercial) Gas Space Conditioning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

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7. Please identify the total historical annual program participation for each of PGS's Existing Programs for the years 2010 through 2018.
- A. The table below provides the historical annual program participation for each of PGS's existing programs for the years 2010 through 2018.

<b>DSM Participants Existing Programs</b>									
<b>Residential</b>									
<b>Program Name</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>
New Construction	1,167	1,220	1,657	2,860	3,737	4,382	5,672	6,874	10,846
Replacement	473	680	723	737	643	684	535	475	1,702
Retention	2,840	3,683	3,666	4,733	4,853	5,330	5,307	5,391	11,776
Oil Heat Replacement	4	0	1	1	0	3	0	0	0
<b>DSM Participants Existing Programs</b>									
<b>Commercial</b>									
<b>Program Name</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>
New Construction	-	-	-	-	62	74	90	124	92
Replacement	-	-	-	-	101	219	245	273	265
Retention	-	-	-	-	326	259	285	169	199
Electric Replacement	2008	2709	2121	1756	1122	1245	349	392	6
Small Package Cogen	0	0	1	0	0	0	0	0	0
(Residential/Commercial) Gas Space Conditioning	0	0	0	0	0	0	0	0	0

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8. Please provide the total historical annual bill impact for each of PGS's Existing Programs for the years 2010 through 2018.
- A. The table below provides the total historical annual bill impact for each of PGS's existing programs for the years 2010 through 2018.

<b>Annual Bill Impact Existing Programs based on usage of 20 Therms per Month</b>									
<b>Residential</b>									
<b>Program Name</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>
New Construction	\$2.39	\$1.99	\$2.50	\$3.21	\$3.48	\$3.61	\$4.26	\$4.75	\$5.84
Replacement	\$1.45	\$1.66	\$1.63	\$1.24	\$0.90	\$0.84	\$0.60	\$0.49	\$0.40
Retention	\$5.81	\$6.00	\$5.53	\$5.31	\$4.54	\$4.39	\$3.99	\$3.73	\$2.70
Oil Heat Replacement	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Annual Bill Impact - Existing Programs based on usage of 20 Therms per Month</b>									
<b>Commercial</b>									
<b>Program Name</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>
New Construction	\$0.00	\$0.00	\$0.00	\$0.00	\$0.10	\$0.10	\$0.11	\$0.14	\$0.11
Replacement	\$0.00	\$0.00	\$0.00	\$0.00	\$0.26	\$0.50	\$0.51	\$0.52	\$0.50
Retention	\$0.00	\$0.00	\$0.00	\$0.00	\$0.51	\$0.35	\$0.36	\$0.20	\$0.28
Electric Replacement	\$0.18	\$0.20	\$0.14	\$0.09	\$0.05	\$0.05	\$0.01	\$0.01	\$0.01
Small Package Cogen	\$0.00	\$0.00	\$0.04	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
(Residential/Commercial) Gas Space Conditioning	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

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- 9.** Please refer to page 11 of the Company's petition for approval of conservation cost recovery true-up and cost recovery factors proposed for use January 2020 through December 2020 filed on August 9, 2019, in Docket No. 20190004-GU. Please explain in detail how the Company plans to allocate the Common Costs among all of the programs the Company offers.
- A.** The company does not allocate Common Costs among the programs to show transparency with these conservation charges. These conservation charges pertain to all programs and charging these costs to common costs accurately recognizes that these cost benefit more than one specific program. In addition, if the company attempted to allocate the Common Costs among all the programs it would cause additional unnecessary charges to be incurred due to the level of administrative burden of time tracking that would need to be performed.