

Intermountain Gas Company
Avoided Cost Model
Integrated Resource Plan 2019 – 2023



In the Community to Serve®

Exhibit No. 5
Fall 2019

Intermountain Gas Company
 2019-2023 IRP
 Avoided Costs

Assumptions	
Inflation Rate	2.00%
Nominal Discount Rate	6.68%
Real Discount Rate	4.68%

AVOIDED COSTS

Year #	Year	Portfolio Nominal Cost per Therm	Real Percent Adj	Real Cost (\$/2019) per Therm	Real PV 2019\$\$ of Resource Portfolio Cost/Therm	Cost Effectiveness Limit Real 2019 \$
1	2019	\$0.48		\$0.48	\$0.46	\$0.48
2	2020	\$0.47	-3.71%	\$0.462	\$0.88	\$0.47
3	2021	\$0.44	-8.20%	\$0.42	\$1.25	\$0.46
4	2022	\$0.43	-4.93%	\$0.403	\$1.58	\$0.44
5	2023	\$0.44	0.00%	\$0.403	\$1.91	\$0.44
6	2024	\$0.44	-0.85%	\$0.400	\$2.21	\$0.43
7	2025	\$0.50	10.69%	\$0.442	\$2.53	\$0.43
8	2026	\$0.56	9.98%	\$0.486	\$2.87	\$0.44
9	2027	\$0.57	0.09%	\$0.487	\$3.19	\$0.44
10	2028	\$0.58	-0.58%	\$0.484	\$3.50	\$0.45
11	2029	\$0.59	0.83%	\$0.488	\$3.79	\$0.45
12	2030	\$0.61	1.14%	\$0.494	\$4.08	\$0.45
13	2031	\$0.63	-0.09%	\$0.493	\$4.35	\$0.45
14	2032	\$0.63	-0.70%	\$0.490	\$4.61	\$0.46
15	2033	\$0.65	0.14%	\$0.490	\$4.85	\$0.46
16	2034	\$0.67	0.80%	\$0.494	\$5.09	\$0.46
17	2035	\$0.68	0.42%	\$0.496	\$5.32	\$0.46
18	2036	\$0.70	1.36%	\$0.503	\$5.54	\$0.46
19	2037	\$0.73	1.37%	\$0.510	\$5.75	\$0.46
20	2038	\$0.75	1.38%	\$0.517	\$5.96	\$0.47
21	2039	\$0.78	1.40%	\$0.524	\$6.16	\$0.47
22	2040	\$0.80	1.41%	\$0.532	\$6.36	\$0.47
23	2041	\$0.83	1.42%	\$0.539	\$6.55	\$0.47
24	2042	\$0.86	1.43%	\$0.547	\$6.73	\$0.47
25	2043	\$0.89	1.44%	\$0.555	\$6.90	\$0.47
26	2044	\$0.92	1.46%	\$0.563	\$7.08	\$0.48
27	2045	\$0.95	1.47%	\$0.571	\$7.24	\$0.48
28	2046	\$0.99	1.48%	\$0.580	\$7.40	\$0.48
29	2047	\$1.02	1.49%	\$0.588	\$7.56	\$0.48
30	2048	\$1.06	1.50%	\$0.597	\$7.71	\$0.48

**Intermountain Gas Company
2019-2023 IRP
Avoided Costs**

Assumptions	
Inflation Rate	2.00%
Nominal Discou	6.68%
Real Discount R	4.68%

HDD SHAPED AVOIDED COSTS

Year #	Year	Portfolio Nominal Cost per Therm	Real Percent Adj	Real Cost (\$/2019) per Therm	Real PV 2019\$ of Resource Portfolio Cost/Therm	Cost Effectiveness Limit Real 2019 \$
1	2019	\$0.51		\$0.51	\$0.49	\$0.51
2	2020	\$0.51	-1.89%	\$0.501	\$0.95	\$0.51
3	2021	\$0.48	-9.03%	\$0.46	\$1.34	\$0.49
4	2022	\$0.45	-7.25%	\$0.423	\$1.69	\$0.47
5	2023	\$0.46	-0.51%	\$0.421	\$2.03	\$0.46
6	2024	\$0.46	-2.03%	\$0.412	\$2.34	\$0.46
7	2025	\$0.52	12.83%	\$0.465	\$2.68	\$0.46
8	2026	\$0.58	9.42%	\$0.509	\$3.03	\$0.46
9	2027	\$0.60	-0.06%	\$0.508	\$3.37	\$0.47
10	2028	\$0.60	-0.83%	\$0.504	\$3.69	\$0.47
11	2029	\$0.62	0.65%	\$0.507	\$4.00	\$0.47
12	2030	\$0.64	1.16%	\$0.513	\$4.29	\$0.48
13	2031	\$0.65	-0.09%	\$0.513	\$4.57	\$0.48
14	2032	\$0.66	-0.81%	\$0.509	\$4.84	\$0.48
15	2033	\$0.67	0.04%	\$0.509	\$5.10	\$0.48
16	2034	\$0.69	0.61%	\$0.512	\$5.35	\$0.48
17	2035	\$0.71	0.37%	\$0.514	\$5.58	\$0.48
18	2036	\$0.73	1.67%	\$0.523	\$5.81	\$0.48
19	2037	\$0.76	1.68%	\$0.531	\$6.03	\$0.49
20	2038	\$0.79	1.70%	\$0.540	\$6.25	\$0.49
21	2039	\$0.82	1.72%	\$0.550	\$6.46	\$0.49
22	2040	\$0.85	1.74%	\$0.559	\$6.67	\$0.49
23	2041	\$0.88	1.75%	\$0.569	\$6.86	\$0.49
24	2042	\$0.91	1.77%	\$0.579	\$7.06	\$0.50
25	2043	\$0.95	1.79%	\$0.589	\$7.25	\$0.50
26	2044	\$0.98	1.80%	\$0.600	\$7.43	\$0.50
27	2045	\$1.02	1.82%	\$0.611	\$7.61	\$0.50
28	2046	\$1.06	1.84%	\$0.622	\$7.78	\$0.50
29	2047	\$1.10	1.85%	\$0.634	\$7.95	\$0.51
30	2048	\$1.14	1.87%	\$0.646	\$8.11	\$0.51
31	2049	\$1.18	1.50%	\$0.655	\$8.27	\$0.51
32	2050	\$1.22	1.35%	\$0.664	\$8.42	\$0.51
33	2051	\$1.26	1.20%	\$0.672	\$8.57	\$0.51
34	2052	\$1.30	1.05%	\$0.679	\$8.71	\$0.52
35	2053	\$1.34	0.90%	\$0.685	\$8.85	\$0.52
36	2054	\$1.37	0.75%	\$0.690	\$8.99	\$0.52
37	2055	\$1.41	0.60%	\$0.694	\$9.11	\$0.52
38	2056	\$1.44	0.45%	\$0.698	\$9.24	\$0.52
39	2057	\$1.48	0.30%	\$0.700	\$9.35	\$0.53
40	2058	\$1.51	0.15%	\$0.701	\$9.47	\$0.53
41	2059	\$1.54	0.00%	\$0.701	\$9.57	\$0.53
42	2060	\$1.57	0.00%	\$0.701	\$9.68	\$0.53
43	2061	\$1.60	0.00%	\$0.701	\$9.77	\$0.53
44	2062	\$1.63	0.00%	\$0.701	\$9.87	\$0.53
45	2063	\$1.67	0.00%	\$0.701	\$9.96	\$0.53
46	2064	\$1.70	0.00%	\$0.701	\$10.04	\$0.54
47	2065	\$1.73	0.00%	\$0.701	\$10.12	\$0.54
48	2066	\$1.77	0.00%	\$0.701	\$10.20	\$0.54
49	2067	\$1.80	0.00%	\$0.701	\$10.28	\$0.54
50	2068	\$1.84	0.00%	\$0.701	\$10.35	\$0.54
51	2069	\$1.88	0.00%	\$0.701	\$10.42	\$0.54
52	2070	\$1.91	0.00%	\$0.701	\$10.48	\$0.54

**Intermountain Gas Company
2019-2023 IRP
Avoided Costs**

Assumptions	
Inflation Rate	2.00%
Nominal Discou	6.68%
Real Discount R	4.68%

USAGE SHAPED AVOIDED COSTS

Year #	Year	Portfolio Nominal Cost per Therm	Real Percent Adj	Real Cost (\$/2019) per Therm	Real PV 2019\$ of Resource Portfolio Cost/Therm	Cost Effectiveness Limit Real 2019 \$
1	2019	\$0.51		\$0.51	\$0.49	\$0.51
2	2020	\$0.51	-2.03%	\$0.501	\$0.94	\$0.51
3	2021	\$0.48	-8.97%	\$0.46	\$1.34	\$0.49
4	2022	\$0.45	-7.22%	\$0.423	\$1.69	\$0.47
5	2023	\$0.46	-0.59%	\$0.420	\$2.03	\$0.46
6	2024	\$0.45	-2.56%	\$0.410	\$2.34	\$0.46
7	2025	\$0.52	13.34%	\$0.464	\$2.68	\$0.46
8	2026	\$0.58	9.47%	\$0.508	\$3.03	\$0.46
9	2027	\$0.60	0.02%	\$0.508	\$3.37	\$0.47
10	2028	\$0.60	-0.80%	\$0.504	\$3.69	\$0.47
11	2029	\$0.62	0.51%	\$0.507	\$3.99	\$0.47
12	2030	\$0.64	1.19%	\$0.513	\$4.29	\$0.48
13	2031	\$0.65	0.02%	\$0.513	\$4.57	\$0.48
14	2032	\$0.66	-0.78%	\$0.509	\$4.84	\$0.48
15	2033	\$0.67	-0.06%	\$0.509	\$5.10	\$0.48
16	2034	\$0.69	0.61%	\$0.51	\$5.34	\$0.48
17	2035	\$0.71	0.47%	\$0.514	\$5.58	\$0.48
18	2036	\$0.73	1.41%	\$0.52	\$5.81	\$0.48
19	2037	\$0.75	1.43%	\$0.529	\$6.03	\$0.49
20	2038	\$0.78	1.44%	\$0.536	\$6.24	\$0.49
21	2039	\$0.81	1.45%	\$0.544	\$6.45	\$0.49
22	2040	\$0.84	1.46%	\$0.552	\$6.65	\$0.49
23	2041	\$0.86	1.48%	\$0.560	\$6.85	\$0.49
24	2042	\$0.90	1.49%	\$0.569	\$7.04	\$0.49
25	2043	\$0.93	1.50%	\$0.577	\$7.22	\$0.50
26	2044	\$0.96	1.51%	\$0.586	\$7.40	\$0.50
27	2045	\$0.99	1.52%	\$0.595	\$7.57	\$0.50
28	2046	\$1.03	1.54%	\$0.604	\$7.74	\$0.50
29	2047	\$1.06	1.55%	\$0.613	\$7.90	\$0.50
30	2048	\$1.10	1.56%	\$0.623	\$8.06	\$0.51
31	2049	\$1.14	1.50%	\$0.632	\$8.22	\$0.51
32	2050	\$1.18	1.35%	\$0.641	\$8.36	\$0.51
33	2051	\$1.22	1.20%	\$0.648	\$8.51	\$0.51
34	2052	\$1.25	1.05%	\$0.655	\$8.65	\$0.51
35	2053	\$1.29	0.90%	\$0.661	\$8.78	\$0.51
36	2054	\$1.33	0.75%	\$0.666	\$8.91	\$0.52
37	2055	\$1.36	0.60%	\$0.670	\$9.03	\$0.52
38	2056	\$1.39	0.45%	\$0.673	\$9.15	\$0.52
39	2057	\$1.43	0.30%	\$0.675	\$9.26	\$0.52
40	2058	\$1.46	0.15%	\$0.676	\$9.37	\$0.52
41	2059	\$1.49	0.00%	\$0.676	\$9.47	\$0.52
42	2060	\$1.51	0.00%	\$0.676	\$9.57	\$0.52
43	2061	\$1.55	0.00%	\$0.676	\$9.67	\$0.53
44	2062	\$1.58	0.00%	\$0.676	\$9.76	\$0.53
45	2063	\$1.61	0.00%	\$0.676	\$9.84	\$0.53
46	2064	\$1.64	0.00%	\$0.676	\$9.93	\$0.53
47	2065	\$1.67	0.00%	\$0.676	\$10.01	\$0.53
48	2066	\$1.71	0.00%	\$0.676	\$10.08	\$0.53
49	2067	\$1.74	0.00%	\$0.676	\$10.15	\$0.53
50	2068	\$1.77	0.00%	\$0.676	\$10.22	\$0.53
51	2069	\$1.81	0.00%	\$0.676	\$10.29	\$0.53
52	2070	\$1.85	0.00%	\$0.676	\$10.35	\$0.53

**Intermountain Gas Company
2019-2023 IRP
Avoided Nominal Costs by Year**

Assumptions	
2.00%	Inflation annual %
\$0.390	Starting NWP Fixed \$/MMBTU TF-1
2025	NWP Main Contract End
\$0.008	Starting NWP Variable \$/MMBTU
\$1.624	Starting Distribution Cost \$/MMBTU

**Intermountain Gas Company
Avoided Cost by Year
Nominal \$/MMBTU/Year
Planning Year Oct:Sep
IRP 2019-2023**

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Year	Commodity Cost CC	Distribution System Cost DSC	Incremental Fixed Transport Cost TCF	Variable Transport Cost TCv	Total Cost
2019	\$3.16	\$1.624	\$0.000	\$0.0083	\$4.80
2020	\$3.05	\$1.657	\$0.000	\$0.0083	\$4.71
2021	\$2.72	\$1.690	\$0.000	\$0.0083	\$4.42
2022	\$2.56	\$1.724	\$0.000	\$0.0083	\$4.29
2023	\$2.61	\$1.758	\$0.000	\$0.0083	\$4.38
2024	\$2.63	\$1.793	\$0.000	\$0.0083	\$4.43
2025	\$3.15	\$1.829	\$0.000	\$0.0083	\$4.99
2026	\$3.26	\$1.866	\$0.448	\$0.0094	\$5.59
2027	\$3.33	\$1.903	\$0.457	\$0.0095	\$5.70
2028	\$3.37	\$1.941	\$0.466	\$0.0097	\$5.79
2029	\$3.48	\$1.980	\$0.476	\$0.0099	\$5.95
2030	\$3.62	\$2.020	\$0.485	\$0.0101	\$6.14
2031	\$3.69	\$2.060	\$0.495	\$0.0103	\$6.25
2032	\$3.72	\$2.101	\$0.505	\$0.0105	\$6.33
2033	\$3.80	\$2.143	\$0.515	\$0.0107	\$6.47
2034	\$3.93	\$2.186	\$0.525	\$0.0110	\$6.65
2035	\$4.04	\$2.230	\$0.536	\$0.0112	\$6.81
2036	\$4.21	\$2.274	\$0.547	\$0.0114	\$7.04
2037	\$4.39	\$2.320	\$0.557	\$0.0116	\$7.28
2038	\$4.58	\$2.366	\$0.569	\$0.0119	\$7.52
2039	\$4.77	\$2.414	\$0.580	\$0.0121	\$7.78
2040	\$4.98	\$2.462	\$0.592	\$0.0123	\$8.05
2041	\$5.19	\$2.511	\$0.603	\$0.0126	\$8.32
2042	\$5.42	\$2.561	\$0.616	\$0.0128	\$8.61
2043	\$5.65	\$2.613	\$0.628	\$0.0131	\$8.90
2044	\$5.89	\$2.665	\$0.640	\$0.0134	\$9.21
2045	\$6.14	\$2.718	\$0.653	\$0.0136	\$9.53
2046	\$6.41	\$2.772	\$0.666	\$0.0139	\$9.86
2047	\$6.68	\$2.828	\$0.680	\$0.0142	\$10.20
2048	\$6.97	\$2.884	\$0.693	\$0.0145	\$10.56

Intermountain Gas Company
 2019-2023 IRP
 Avoided Nominal Costs by Year

Assumptions	
2.00%	Inflation annual %
\$0.390	Starting NWP Fixed \$/MMBTU TF-1
2025	NWP Main Contract End
\$0.008	Starting NWP Variable \$/MMBTU
\$1.624	Starting Distribution Cost \$/MMBTU

Intermountain Gas Company
 Avoided Cost by Year (HDD Shape)
 Nominal \$/MMBTU/Year
 Planning Year Oct:Sep
 IRP 2019-2023

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Year	Commodity Cost CC	Distribution System Cost DSC	Incremental Fixed Transport Cost TCF	Variable Transport Cost TCv	Total Cost
2019	\$3.47	\$1.624	\$0.000	\$0.0083	\$5.11
2020	\$3.45	\$1.657	\$0.000	\$0.0083	\$5.11
2021	\$3.05	\$1.690	\$0.000	\$0.0083	\$4.75
2022	\$2.77	\$1.724	\$0.000	\$0.0083	\$4.50
2023	\$2.80	\$1.758	\$0.000	\$0.0083	\$4.57
2024	\$2.77	\$1.793	\$0.000	\$0.0083	\$4.57
2025	\$3.41	\$1.829	\$0.000	\$0.0083	\$5.25
2026	\$3.52	\$1.866	\$0.448	\$0.0094	\$5.85
2027	\$3.59	\$1.903	\$0.457	\$0.0095	\$5.96
2028	\$3.61	\$1.941	\$0.466	\$0.0097	\$6.03
2029	\$3.72	\$1.980	\$0.476	\$0.0099	\$6.19
2030	\$3.87	\$2.020	\$0.485	\$0.0101	\$6.38
2031	\$3.94	\$2.060	\$0.495	\$0.0103	\$6.51
2032	\$3.97	\$2.101	\$0.505	\$0.0105	\$6.58
2033	\$4.05	\$2.143	\$0.515	\$0.0107	\$6.72
2034	\$4.17	\$2.186	\$0.525	\$0.0110	\$6.89
2035	\$4.28	\$2.230	\$0.536	\$0.0112	\$7.06
2036	\$4.48	\$2.274	\$0.547	\$0.0114	\$7.32
2037	\$4.70	\$2.320	\$0.557	\$0.0116	\$7.59
2038	\$4.92	\$2.366	\$0.569	\$0.0119	\$7.87
2039	\$5.15	\$2.414	\$0.580	\$0.0121	\$8.16
2040	\$5.40	\$2.462	\$0.592	\$0.0123	\$8.46
2041	\$5.65	\$2.511	\$0.603	\$0.0126	\$8.78
2042	\$5.92	\$2.561	\$0.616	\$0.0128	\$9.11
2043	\$6.20	\$2.613	\$0.628	\$0.0131	\$9.46
2044	\$6.50	\$2.665	\$0.640	\$0.0134	\$9.82
2045	\$6.81	\$2.718	\$0.653	\$0.0136	\$10.19
2046	\$7.13	\$2.772	\$0.666	\$0.0139	\$10.58
2047	\$7.47	\$2.828	\$0.680	\$0.0142	\$10.99
2048	\$7.82	\$2.884	\$0.693	\$0.0145	\$11.42

Intermountain Gas Company
 2019-2023 IRP
 Avoided Nominal Costs by Year

Assumptions	
2.00%	Inflation annual %
\$0.390	Starting NWP Fixed \$/MMBTU TF-1
2025	NWP Main Contract End
\$0.008	Starting NWP Variable \$/MMBTU
\$1.624	Starting Distribution Cost \$/MMBTU

Intermountain Gas Company
 Avoided Cost by Year (Usage Shape)
 Nominal \$/MMBTU/Year
 Planning Year Oct:Sep
 IRP 2019-2023

Year #
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Year	Commodity Cost CC	Distribution System Cost DSC	Incremental Fixed Transport Cost TCF	Variable Transport Cost TCv	Total Cost
2019	\$3.48	\$1.624	\$0.000	\$0.0083	\$5.11
2020	\$3.44	\$1.657	\$0.000	\$0.0083	\$5.11
2021	\$3.05	\$1.690	\$0.000	\$0.0083	\$4.75
2022	\$2.77	\$1.724	\$0.000	\$0.0083	\$4.50
2023	\$2.80	\$1.758	\$0.000	\$0.0083	\$4.57
2024	\$2.74	\$1.793	\$0.000	\$0.0083	\$4.54
2025	\$3.40	\$1.829	\$0.000	\$0.0083	\$5.24
2026	\$3.52	\$1.866	\$0.448	\$0.0094	\$5.84
2027	\$3.59	\$1.903	\$0.457	\$0.0095	\$5.96
2028	\$3.61	\$1.941	\$0.466	\$0.0097	\$6.03
2029	\$3.72	\$1.980	\$0.476	\$0.0099	\$6.18
2030	\$3.86	\$2.020	\$0.485	\$0.0101	\$6.38
2031	\$3.94	\$2.060	\$0.495	\$0.0103	\$6.51
2032	\$3.97	\$2.101	\$0.505	\$0.0105	\$6.59
2033	\$4.04	\$2.143	\$0.515	\$0.0107	\$6.71
2034	\$4.17	\$2.186	\$0.525	\$0.0110	\$6.89
2035	\$4.28	\$2.230	\$0.536	\$0.0112	\$7.06
2036	\$4.47	\$2.274	\$0.547	\$0.0114	\$7.30
2037	\$4.66	\$2.320	\$0.557	\$0.0116	\$7.55
2038	\$4.86	\$2.366	\$0.569	\$0.0119	\$7.81
2039	\$5.07	\$2.414	\$0.580	\$0.0121	\$8.08
2040	\$5.29	\$2.462	\$0.592	\$0.0123	\$8.36
2041	\$5.52	\$2.511	\$0.603	\$0.0126	\$8.65
2042	\$5.76	\$2.561	\$0.616	\$0.0128	\$8.95
2043	\$6.01	\$2.613	\$0.628	\$0.0131	\$9.26
2044	\$6.27	\$2.665	\$0.640	\$0.0134	\$9.59
2045	\$6.54	\$2.718	\$0.653	\$0.0136	\$9.93
2046	\$6.83	\$2.772	\$0.666	\$0.0139	\$10.28
2047	\$7.12	\$2.828	\$0.680	\$0.0142	\$10.64
2048	\$7.43	\$2.884	\$0.693	\$0.0145	\$11.02

**Intermountain Gas Company
2019-2023 IRP**

Avoided Costs - Monthly Commodity Costs (HDD Shaped)

**AC Expected (BASE)
Commodity, \$/MMBTU**

Date	Year	FYYear	Month	Commodity	HDD Shape	HDD Shaped Commodity
Oct-18	2018	2019	10	\$2.78	3.5%	\$0.10
Nov-18	2018	2019	11	\$ 3.41	8.6%	\$0.29
Dec-18	2018	2019	12	\$ 4.24	14.8%	\$0.63
Jan-19	2019	2019	1	\$ 4.13	20.1%	\$0.83
Feb-19	2019	2019	2	\$ 3.61	16.4%	\$0.59
Mar-19	2019	2019	3	\$ 3.07	14.5%	\$0.45
Apr-19	2019	2019	4	\$ 2.91	10.0%	\$0.29
May-19	2019	2019	5	\$ 2.35	7.1%	\$0.17
Jun-19	2019	2019	6	\$ 2.42	3.4%	\$0.08
Jul-19	2019	2019	7	\$ 3.08	0.9%	\$0.03
Aug-19	2019	2019	8	\$ 3.09	0.1%	\$0.00
Sep-19	2019	2019	9	\$ 2.86	0.6%	\$0.02
Oct-19	2019	2020	10	\$ 2.78	3.5%	\$0.10
Nov-19	2019	2020	11	\$ 3.41	8.6%	\$0.29
Dec-19	2019	2020	12	\$ 4.24	14.8%	\$0.63
Jan-20	2020	2020	1	\$ 4.13	20.1%	\$0.83
Feb-20	2020	2020	2	\$ 3.61	16.4%	\$0.59
Mar-20	2020	2020	3	\$ 3.07	14.5%	\$0.45
Apr-20	2020	2020	4	\$ 2.91	10.0%	\$0.29
May-20	2020	2020	5	\$ 2.15	7.1%	\$0.15
Jun-20	2020	2020	6	\$ 2.19	3.4%	\$0.07
Jul-20	2020	2020	7	\$ 2.79	0.9%	\$0.03
Aug-20	2020	2020	8	\$ 2.76	0.1%	\$0.00
Sep-20	2020	2020	9	\$ 2.54	0.6%	\$0.02
Oct-20	2020	2021	10	\$ 2.48	3.5%	\$0.09
Nov-20	2020	2021	11	\$ 3.03	8.6%	\$0.26
Dec-20	2020	2021	12	\$ 3.75	14.8%	\$0.56
Jan-21	2021	2021	1	\$ 3.66	20.1%	\$0.73
Feb-21	2021	2021	2	\$ 3.19	16.4%	\$0.52
Mar-21	2021	2021	3	\$ 2.69	14.5%	\$0.39
Apr-21	2021	2021	4	\$ 2.55	10.0%	\$0.26
May-21	2021	2021	5	\$ 1.99	7.1%	\$0.14
Jun-21	2021	2021	6	\$ 2.05	3.4%	\$0.07
Jul-21	2021	2021	7	\$ 2.46	0.9%	\$0.02
Aug-21	2021	2021	8	\$ 2.49	0.1%	\$0.00
Sep-21	2021	2021	9	\$ 2.34	0.6%	\$0.01
Oct-21	2021	2022	10	\$ 2.33	3.5%	\$0.08
Nov-21	2021	2022	11	\$ 2.73	8.6%	\$0.23
Dec-21	2021	2022	12	\$ 3.29	14.8%	\$0.49
Jan-22	2022	2022	1	\$ 3.20	20.1%	\$0.64
Feb-22	2022	2022	2	\$ 2.88	16.4%	\$0.47
Mar-22	2022	2022	3	\$ 2.47	14.5%	\$0.36
Apr-22	2022	2022	4	\$ 2.30	10.0%	\$0.23
May-22	2022	2022	5	\$ 2.15	7.1%	\$0.15
Jun-22	2022	2022	6	\$ 2.21	3.4%	\$0.08
Jul-22	2022	2022	7	\$ 2.37	0.9%	\$0.02
Aug-22	2022	2022	8	\$ 2.42	0.1%	\$0.00
Sep-22	2022	2022	9	\$ 2.38	0.6%	\$0.01
Oct-22	2022	2023	10	\$ 2.35	3.5%	\$0.08
Nov-22	2022	2023	11	\$ 2.76	8.6%	\$0.24
Dec-22	2022	2023	12	\$ 3.24	14.8%	\$0.48

Intermountain Gas Company
2019-2023 IRP
Avoided Costs - Monthly Commodity Costs (HDD Shaped)

AC Expected (BASE)
Commodity, \$/MMBTU

Date	Year	FYear	Month	Commodity	HDD Shape	HDD Shaped Commodity
Jan-23	2023	2023	1	\$ 3.20	20.1%	\$0.64
Feb-23	2023	2023	2	\$ 2.96	16.4%	\$0.48
Mar-23	2023	2023	3	\$ 2.53	14.5%	\$0.37
Apr-23	2023	2023	4	\$ 2.33	10.0%	\$0.23
May-23	2023	2023	5	\$ 2.24	7.1%	\$0.16
Jun-23	2023	2023	6	\$ 2.29	3.4%	\$0.08
Jul-23	2023	2023	7	\$ 2.46	0.9%	\$0.02
Aug-23	2023	2023	8	\$ 2.50	0.1%	\$0.00
Sep-23	2023	2023	9	\$ 2.47	0.6%	\$0.02
Oct-23	2023	2024	10	\$ 2.45	3.5%	\$0.08
Nov-23	2023	2024	11	\$ 2.55	8.6%	\$0.22
Dec-23	2023	2024	12	\$ 2.79	14.8%	\$0.41
Jan-24	2024	2024	1	\$ 3.05	20.1%	\$0.61
Feb-24	2024	2024	2	\$ 3.15	16.4%	\$0.52
Mar-24	2024	2024	3	\$ 2.65	14.5%	\$0.38
Apr-24	2024	2024	4	\$ 2.47	10.0%	\$0.25
May-24	2024	2024	5	\$ 2.34	7.1%	\$0.17
Jun-24	2024	2024	6	\$ 2.39	3.4%	\$0.08
Jul-24	2024	2024	7	\$ 2.55	0.9%	\$0.02
Aug-24	2024	2024	8	\$ 2.57	0.1%	\$0.00
Sep-24	2024	2024	9	\$ 2.55	0.6%	\$0.02
Oct-24	2024	2025	10	\$ 2.76	3.5%	\$0.10
Nov-24	2024	2025	11	\$ 3.33	8.6%	\$0.28
Dec-24	2024	2025	12	\$ 3.97	14.8%	\$0.59
Jan-25	2025	2025	1	\$ 3.93	20.1%	\$0.79
Feb-25	2025	2025	2	\$ 3.55	16.4%	\$0.58
Mar-25	2025	2025	3	\$ 3.10	14.5%	\$0.45
Apr-25	2025	2025	4	\$ 3.01	10.0%	\$0.30
May-25	2025	2025	5	\$ 2.55	7.1%	\$0.18
Jun-25	2025	2025	6	\$ 2.60	3.4%	\$0.09
Jul-25	2025	2025	7	\$ 3.05	0.9%	\$0.03
Aug-25	2025	2025	8	\$ 3.06	0.1%	\$0.00
Sep-25	2025	2025	9	\$ 2.93	0.6%	\$0.02
Oct-25	2025	2026	10	\$ 2.90	3.5%	\$0.10
Nov-25	2025	2026	11	\$ 3.46	8.6%	\$0.30
Dec-25	2025	2026	12	\$ 4.07	14.8%	\$0.60
Jan-26	2026	2026	1	\$ 4.05	20.1%	\$0.81
Feb-26	2026	2026	2	\$ 3.66	16.4%	\$0.60
Mar-26	2026	2026	3	\$ 3.21	14.5%	\$0.47
Apr-26	2026	2026	4	\$ 3.12	10.0%	\$0.31
May-26	2026	2026	5	\$ 2.67	7.1%	\$0.19
Jun-26	2026	2026	6	\$ 2.70	3.4%	\$0.09
Jul-26	2026	2026	7	\$ 3.14	0.9%	\$0.03
Aug-26	2026	2026	8	\$ 3.17	0.1%	\$0.00
Sep-26	2026	2026	9	\$ 3.05	0.6%	\$0.02
Oct-26	2026	2027	10	\$ 3.01	3.5%	\$0.10
Nov-26	2026	2027	11	\$ 3.55	8.6%	\$0.30
Dec-26	2026	2027	12	\$ 4.16	14.8%	\$0.62
Jan-27	2027	2027	1	\$ 4.09	20.1%	\$0.82
Feb-27	2027	2027	2	\$ 3.72	16.4%	\$0.61
Mar-27	2027	2027	3	\$ 3.28	14.5%	\$0.47

**Intermountain Gas Company
2019-2023 IRP
Avoided Costs - Monthly Commodity Costs (HDD Shaped)**

					<u>AC Expected (BASE) Commodity, \$/MMBTU</u>			
Date	Year	FYYear	Month	Commodity	HDD Shape	HDD Shaped Commodity		
Apr-27	2027	2027	4	\$ 3.18	10.0%	\$0.32		
May-27	2027	2027	5	\$ 2.74	7.1%	\$0.19		
Jun-27	2027	2027	6	\$ 2.75	3.4%	\$0.09		
Jul-27	2027	2027	7	\$ 3.21	0.9%	\$0.03		
Aug-27	2027	2027	8	\$ 3.23	0.1%	\$0.00		
Sep-27	2027	2027	9	\$ 3.10	0.6%	\$0.02		
Oct-27	2027	2028	10	\$ 3.07	3.5%	\$0.11		
Nov-27	2027	2028	11	\$ 3.57	8.6%	\$0.31		
Dec-27	2027	2028	12	\$ 4.17	14.8%	\$0.62		
Jan-28	2028	2028	1	\$ 4.09	20.1%	\$0.82		
Feb-28	2028	2028	2	\$ 3.72	16.4%	\$0.61		
Mar-28	2028	2028	3	\$ 3.33	14.5%	\$0.48		
Apr-28	2028	2028	4	\$ 3.22	10.0%	\$0.32		
May-28	2028	2028	5	\$ 2.77	7.1%	\$0.20		
Jun-28	2028	2028	6	\$ 2.79	3.4%	\$0.10		
Jul-28	2028	2028	7	\$ 3.24	0.9%	\$0.03		
Aug-28	2028	2028	8	\$ 3.28	0.1%	\$0.00		
Sep-28	2028	2028	9	\$ 3.17	0.6%	\$0.02		
Oct-28	2028	2029	10	\$ 3.14	3.5%	\$0.11		
Nov-28	2028	2029	11	\$ 3.62	8.6%	\$0.31		
Dec-28	2028	2029	12	\$ 4.22	14.8%	\$0.63		
Jan-29	2029	2029	1	\$ 4.22	20.1%	\$0.85		
Feb-29	2029	2029	2	\$ 3.86	16.4%	\$0.63		
Mar-29	2029	2029	3	\$ 3.48	14.5%	\$0.50		
Apr-29	2029	2029	4	\$ 3.33	10.0%	\$0.33		
May-29	2029	2029	5	\$ 2.91	7.1%	\$0.21		
Jun-29	2029	2029	6	\$ 2.92	3.4%	\$0.10		
Jul-29	2029	2029	7	\$ 3.38	0.9%	\$0.03		
Aug-29	2029	2029	8	\$ 3.43	0.1%	\$0.00		
Sep-29	2029	2029	9	\$ 3.30	0.6%	\$0.02		
Oct-29	2029	2030	10	\$ 3.29	3.5%	\$0.11		
Nov-29	2029	2030	11	\$ 3.79	8.6%	\$0.32		
Dec-29	2029	2030	12	\$ 4.38	14.8%	\$0.65		
Jan-30	2030	2030	1	\$ 4.37	20.1%	\$0.88		
Feb-30	2030	2030	2	\$ 4.01	16.4%	\$0.66		
Mar-30	2030	2030	3	\$ 3.62	14.5%	\$0.52		
Apr-30	2030	2030	4	\$ 3.45	10.0%	\$0.35		
May-30	2030	2030	5	\$ 3.03	7.1%	\$0.22		
Jun-30	2030	2030	6	\$ 3.05	3.4%	\$0.10		
Jul-30	2030	2030	7	\$ 3.50	0.9%	\$0.03		
Aug-30	2030	2030	8	\$ 3.53	0.1%	\$0.00		
Sep-30	2030	2030	9	\$ 3.43	0.6%	\$0.02		
Oct-30	2030	2031	10	\$ 3.40	3.5%	\$0.12		
Nov-30	2030	2031	11	\$ 3.91	8.6%	\$0.33		
Dec-30	2030	2031	12	\$ 4.51	14.8%	\$0.67		
Jan-31	2031	2031	1	\$ 4.43	20.1%	\$0.89		
Feb-31	2031	2031	2	\$ 4.07	16.4%	\$0.67		
Mar-31	2031	2031	3	\$ 3.66	14.5%	\$0.53		
Apr-31	2031	2031	4	\$ 3.50	10.0%	\$0.35		
May-31	2031	2031	5	\$ 3.08	7.1%	\$0.22		
Jun-31	2031	2031	6	\$ 3.11	3.4%	\$0.11		

**Intermountain Gas Company
2019-2023 IRP
Avoided Costs - Monthly Commodity Costs (HDD Shaped)**

					<u>AC Expected (BASE) Commodity, \$/MMBTU</u>			
Date	Year	FYYear	Month	Commodity	HDD Shape	HDD Shaped Commodity		
Jul-31	2031	2031	7	\$ 3.55	0.9%	\$0.03		
Aug-31	2031	2031	8	\$ 3.57	0.1%	\$0.00		
Sep-31	2031	2031	9	\$ 3.47	0.6%	\$0.02		
Oct-31	2031	2032	10	\$ 3.44	3.5%	\$0.12		
Nov-31	2031	2032	11	\$ 3.96	8.6%	\$0.34		
Dec-31	2031	2032	12	\$ 4.55	14.8%	\$0.68		
Jan-32	2032	2032	1	\$ 4.43	20.1%	\$0.89		
Feb-32	2032	2032	2	\$ 4.09	16.4%	\$0.67		
Mar-32	2032	2032	3	\$ 3.69	14.5%	\$0.54		
Apr-32	2032	2032	4	\$ 3.53	10.0%	\$0.35		
May-32	2032	2032	5	\$ 3.10	7.1%	\$0.22		
Jun-32	2032	2032	6	\$ 3.14	3.4%	\$0.11		
Jul-32	2032	2032	7	\$ 3.60	0.9%	\$0.03		
Aug-32	2032	2032	8	\$ 3.60	0.1%	\$0.00		
Sep-32	2032	2032	9	\$ 3.48	0.6%	\$0.02		
Oct-32	2032	2033	10	\$ 3.47	3.5%	\$0.12		
Nov-32	2032	2033	11	\$ 3.99	8.6%	\$0.34		
Dec-32	2032	2033	12	\$ 4.58	14.8%	\$0.68		
Jan-33	2033	2033	1	\$ 4.53	20.1%	\$0.91		
Feb-33	2033	2033	2	\$ 4.20	16.4%	\$0.69		
Mar-33	2033	2033	3	\$ 3.79	14.5%	\$0.55		
Apr-33	2033	2033	4	\$ 3.62	10.0%	\$0.36		
May-33	2033	2033	5	\$ 3.20	7.1%	\$0.23		
Jun-33	2033	2033	6	\$ 3.24	3.4%	\$0.11		
Jul-33	2033	2033	7	\$ 3.70	0.9%	\$0.03		
Aug-33	2033	2033	8	\$ 3.70	0.1%	\$0.00		
Sep-33	2033	2033	9	\$ 3.60	0.6%	\$0.02		
Oct-33	2033	2034	10	\$ 3.57	3.5%	\$0.12		
Nov-33	2033	2034	11	\$ 4.10	8.6%	\$0.35		
Dec-33	2033	2034	12	\$ 4.70	14.8%	\$0.70		
Jan-34	2034	2034	1	\$ 4.64	20.1%	\$0.93		
Feb-34	2034	2034	2	\$ 4.31	16.4%	\$0.71		
Mar-34	2034	2034	3	\$ 3.92	14.5%	\$0.57		
Apr-34	2034	2034	4	\$ 3.76	10.0%	\$0.38		
May-34	2034	2034	5	\$ 3.34	7.1%	\$0.24		
Jun-34	2034	2034	6	\$ 3.36	3.4%	\$0.11		
Jul-34	2034	2034	7	\$ 3.83	0.9%	\$0.04		
Aug-34	2034	2034	8	\$ 3.85	0.1%	\$0.00		
Sep-34	2034	2034	9	\$ 3.76	0.6%	\$0.02		
Oct-34	2034	2035	10	\$ 3.72	3.5%	\$0.13		
Nov-34	2034	2035	11	\$ 4.25	8.6%	\$0.36		
Dec-34	2034	2035	12	\$ 4.87	14.8%	\$0.72		
Jan-35	2035	2035	1	\$ 4.74	20.1%	\$0.95		
Feb-35	2035	2035	2	\$ 4.40	16.4%	\$0.72		
Mar-35	2035	2035	3	\$ 4.01	14.5%	\$0.58		
Apr-35	2035	2035	4	\$ 3.85	10.0%	\$0.39		
May-35	2035	2035	5	\$ 3.44	7.1%	\$0.24		
Jun-35	2035	2035	6	\$ 3.45	3.4%	\$0.12		
Jul-35	2035	2035	7	\$ 3.91	0.9%	\$0.04		
Aug-35	2035	2035	8	\$ 3.95	0.1%	\$0.00		
Sep-35	2035	2035	9	\$ 3.84	0.6%	\$0.02		

Intermountain Gas Company
 2019-2023 IRP
 Avoided Costs - Monthly Commodity Costs (HDD Shaped)

AC Expected (BASE)
 Commodity, \$/MMBTU

Date	Year	FYYear	Month	Commodity	HDD Shape	HDD Shaped Commodity
Oct-35	2035	2036	10	\$ 3.82	3.5%	\$0.13
Nov-35	2035	2036	11	\$ 4.31	8.6%	\$0.37
Dec-35	2035	2036	12	\$ 4.93	14.8%	\$0.73
Jan-36	2036	2036	1	\$ 5.18	20.1%	\$1.04
Feb-36	2036	2036	2	\$ 4.69	16.4%	\$0.77
Mar-36	2036	2036	3	\$ 4.15	14.5%	\$0.60
Apr-36	2036	2036	4	\$ 4.09	10.0%	\$0.41
May-36	2036	2036	5	\$ 3.45	7.1%	\$0.25
Jun-36	2036	2036	6	\$ 3.55	3.4%	\$0.12
Jul-36	2036	2036	7	\$ 4.20	0.9%	\$0.04
Aug-36	2036	2036	8	\$ 4.20	0.1%	\$0.00
Sep-36	2036	2036	9	\$ 3.97	0.6%	\$0.02
Oct-36	2036	2037	10	\$ 3.88	3.5%	\$0.13
Nov-36	2036	2037	11	\$ 4.49	8.6%	\$0.38
Dec-36	2036	2037	12	\$ 5.38	14.8%	\$0.80

Intermountain Gas Company
2019-2023 IRP
Avoided Costs - Monthly Commodity Costs (HDD Shaped)

Year	Sum of HDD Shaped Commodity	HDD Shape	
		Month	% of Annual HDD
2019	3.474214827	1	20.1%
2020	3.447109756	2	16.4%
2021	3.054825339	3	14.5%
2022	2.771552513	4	10.0%
2023	2.80403092	5	7.1%
2024	2.767518053	6	3.4%
2025	3.409341307	7	0.9%
2026	3.522629104	8	0.1%
2027	3.589331948	9	0.6%
2028	3.611877436	10	3.5%
2029	3.72313246	11	8.6%
2030	3.869115839	12	14.8%
2031	3.940642339		
2032	3.966856863		
2033	4.049149239		
2034	4.171239177		
2035	4.280314443		
2036	4.483559691		
2037	1.316670117		

Intermountain Gas Company
2019-2023 IRP
Avoided Costs - Monthly Commodity Costs (Usage Shaped)

AC Expected (BASE)
Commodity, \$/MMBTU

Date	Year	FYYear	Month	Commodity	Usage Shape	Usage Shaped Commodity
Oct-18	2018	2019	10	\$2.78	7.3%	\$0.20
Nov-18	2018	2019	11	\$ 3.41	12.7%	\$0.43
Dec-18	2018	2019	12	\$ 4.24	17.3%	\$0.73
Jan-19	2019	2019	1	\$ 4.13	16.9%	\$0.70
Feb-19	2019	2019	2	\$ 3.61	13.4%	\$0.48
Mar-19	2019	2019	3	\$ 3.07	11.1%	\$0.34
Apr-19	2019	2019	4	\$ 2.91	7.9%	\$0.23
May-19	2019	2019	5	\$ 2.35	5.0%	\$0.12
Jun-19	2019	2019	6	\$ 2.42	2.5%	\$0.06
Jul-19	2019	2019	7	\$ 3.08	1.4%	\$0.04
Aug-19	2019	2019	8	\$ 3.09	1.5%	\$0.05
Sep-19	2019	2019	9	\$ 2.86	3.0%	\$0.09
Oct-19	2019	2020	10	\$ 2.78	7.3%	\$0.20
Nov-19	2019	2020	11	\$ 3.41	12.7%	\$0.43
Dec-19	2019	2020	12	\$ 4.24	17.3%	\$0.73
Jan-20	2020	2020	1	\$ 4.13	16.9%	\$0.70
Feb-20	2020	2020	2	\$ 3.61	13.4%	\$0.48
Mar-20	2020	2020	3	\$ 3.07	11.1%	\$0.34
Apr-20	2020	2020	4	\$ 2.91	7.9%	\$0.23
May-20	2020	2020	5	\$ 2.15	5.0%	\$0.11
Jun-20	2020	2020	6	\$ 2.19	2.5%	\$0.05
Jul-20	2020	2020	7	\$ 2.79	1.4%	\$0.04
Aug-20	2020	2020	8	\$ 2.76	1.5%	\$0.04
Sep-20	2020	2020	9	\$ 2.54	3.0%	\$0.08
Oct-20	2020	2021	10	\$ 2.48	7.3%	\$0.18
Nov-20	2020	2021	11	\$ 3.03	12.7%	\$0.38
Dec-20	2020	2021	12	\$ 3.75	17.3%	\$0.65
Jan-21	2021	2021	1	\$ 3.66	16.9%	\$0.62
Feb-21	2021	2021	2	\$ 3.19	13.4%	\$0.43
Mar-21	2021	2021	3	\$ 2.69	11.1%	\$0.30
Apr-21	2021	2021	4	\$ 2.55	7.9%	\$0.20
May-21	2021	2021	5	\$ 1.99	5.0%	\$0.10
Jun-21	2021	2021	6	\$ 2.05	2.5%	\$0.05
Jul-21	2021	2021	7	\$ 2.46	1.4%	\$0.03
Aug-21	2021	2021	8	\$ 2.49	1.5%	\$0.04
Sep-21	2021	2021	9	\$ 2.34	3.0%	\$0.07
Oct-21	2021	2022	10	\$ 2.33	7.3%	\$0.17
Nov-21	2021	2022	11	\$ 2.73	12.7%	\$0.35
Dec-21	2021	2022	12	\$ 3.29	17.3%	\$0.57
Jan-22	2022	2022	1	\$ 3.20	16.9%	\$0.54
Feb-22	2022	2022	2	\$ 2.88	13.4%	\$0.39
Mar-22	2022	2022	3	\$ 2.47	11.1%	\$0.28
Apr-22	2022	2022	4	\$ 2.30	7.9%	\$0.18
May-22	2022	2022	5	\$ 2.15	5.0%	\$0.11
Jun-22	2022	2022	6	\$ 2.21	2.5%	\$0.05
Jul-22	2022	2022	7	\$ 2.37	1.4%	\$0.03
Aug-22	2022	2022	8	\$ 2.42	1.5%	\$0.04
Sep-22	2022	2022	9	\$ 2.38	3.0%	\$0.07
Oct-22	2022	2023	10	\$ 2.35	7.3%	\$0.17
Nov-22	2022	2023	11	\$ 2.76	12.7%	\$0.35
Dec-22	2022	2023	12	\$ 3.24	17.3%	\$0.56
Jan-23	2023	2023	1	\$ 3.20	16.9%	\$0.54
Feb-23	2023	2023	2	\$ 2.96	13.4%	\$0.40
Mar-23	2023	2023	3	\$ 2.53	11.1%	\$0.28
Apr-23	2023	2023	4	\$ 2.33	7.9%	\$0.18
May-23	2023	2023	5	\$ 2.24	5.0%	\$0.11
Jun-23	2023	2023	6	\$ 2.29	2.5%	\$0.06
Jul-23	2023	2023	7	\$ 2.46	1.4%	\$0.03
Aug-23	2023	2023	8	\$ 2.50	1.5%	\$0.04

Intermountain Gas Company
 2019-2023 IRP
 Avoided Costs - Monthly Commodity Costs (Usage Shaped)

AC Expected (BASE)
 Commodity, \$/MMBTU

Date	Year	FYYear	Month	Commodity	Usage Shape	Usage Shaped Commodity
Sep-23	2023	2023	9	\$ 2.47	3.0%	\$0.07
Oct-23	2023	2024	10	\$ 2.45	7.3%	\$0.18
Nov-23	2023	2024	11	\$ 2.55	12.7%	\$0.32
Dec-23	2023	2024	12	\$ 2.79	17.3%	\$0.48
Jan-24	2024	2024	1	\$ 3.05	16.9%	\$0.52
Feb-24	2024	2024	2	\$ 3.15	13.4%	\$0.42
Mar-24	2024	2024	3	\$ 2.65	11.1%	\$0.30
Apr-24	2024	2024	4	\$ 2.47	7.9%	\$0.19
May-24	2024	2024	5	\$ 2.34	5.0%	\$0.12
Jun-24	2024	2024	6	\$ 2.39	2.5%	\$0.06
Jul-24	2024	2024	7	\$ 2.55	1.4%	\$0.04
Aug-24	2024	2024	8	\$ 2.57	1.5%	\$0.04
Sep-24	2024	2024	9	\$ 2.55	3.0%	\$0.08
Oct-24	2024	2025	10	\$ 2.76	7.3%	\$0.20
Nov-24	2024	2025	11	\$ 3.33	12.7%	\$0.42
Dec-24	2024	2025	12	\$ 3.97	17.3%	\$0.69
Jan-25	2025	2025	1	\$ 3.93	16.9%	\$0.67
Feb-25	2025	2025	2	\$ 3.55	13.4%	\$0.48
Mar-25	2025	2025	3	\$ 3.10	11.1%	\$0.35
Apr-25	2025	2025	4	\$ 3.01	7.9%	\$0.24
May-25	2025	2025	5	\$ 2.55	5.0%	\$0.13
Jun-25	2025	2025	6	\$ 2.60	2.5%	\$0.06
Jul-25	2025	2025	7	\$ 3.05	1.4%	\$0.04
Aug-25	2025	2025	8	\$ 3.06	1.5%	\$0.05
Sep-25	2025	2025	9	\$ 2.93	3.0%	\$0.09
Oct-25	2025	2026	10	\$ 2.90	7.3%	\$0.21
Nov-25	2025	2026	11	\$ 3.46	12.7%	\$0.44
Dec-25	2025	2026	12	\$ 4.07	17.3%	\$0.70
Jan-26	2026	2026	1	\$ 4.05	16.9%	\$0.69
Feb-26	2026	2026	2	\$ 3.66	13.4%	\$0.49
Mar-26	2026	2026	3	\$ 3.21	11.1%	\$0.36
Apr-26	2026	2026	4	\$ 3.12	7.9%	\$0.25
May-26	2026	2026	5	\$ 2.67	5.0%	\$0.13
Jun-26	2026	2026	6	\$ 2.70	2.5%	\$0.07
Jul-26	2026	2026	7	\$ 3.14	1.4%	\$0.04
Aug-26	2026	2026	8	\$ 3.17	1.5%	\$0.05
Sep-26	2026	2026	9	\$ 3.05	3.0%	\$0.09
Oct-26	2026	2027	10	\$ 3.01	7.3%	\$0.22
Nov-26	2026	2027	11	\$ 3.55	12.7%	\$0.45
Dec-26	2026	2027	12	\$ 4.16	17.3%	\$0.72
Jan-27	2027	2027	1	\$ 4.09	16.9%	\$0.69
Feb-27	2027	2027	2	\$ 3.72	13.4%	\$0.50
Mar-27	2027	2027	3	\$ 3.28	11.1%	\$0.37
Apr-27	2027	2027	4	\$ 3.18	7.9%	\$0.25
May-27	2027	2027	5	\$ 2.74	5.0%	\$0.14
Jun-27	2027	2027	6	\$ 2.75	2.5%	\$0.07
Jul-27	2027	2027	7	\$ 3.21	1.4%	\$0.04
Aug-27	2027	2027	8	\$ 3.23	1.5%	\$0.05
Sep-27	2027	2027	9	\$ 3.10	3.0%	\$0.09
Oct-27	2027	2028	10	\$ 3.07	7.3%	\$0.22
Nov-27	2027	2028	11	\$ 3.57	12.7%	\$0.45
Dec-27	2027	2028	12	\$ 4.17	17.3%	\$0.72
Jan-28	2028	2028	1	\$ 4.09	16.9%	\$0.69
Feb-28	2028	2028	2	\$ 3.72	13.4%	\$0.50
Mar-28	2028	2028	3	\$ 3.33	11.1%	\$0.37
Apr-28	2028	2028	4	\$ 3.22	7.9%	\$0.25
May-28	2028	2028	5	\$ 2.77	5.0%	\$0.14
Jun-28	2028	2028	6	\$ 2.79	2.5%	\$0.07
Jul-28	2028	2028	7	\$ 3.24	1.4%	\$0.05

Intermountain Gas Company
2019-2023 IRP
Avoided Costs - Monthly Commodity Costs (Usage Shaped)

					<u>AC Expected (BASE)</u>			
					<u>Commodity, \$/MMBTU</u>			
<u>Date</u>	<u>Year</u>	<u>FYYear</u>	<u>Month</u>	<u>Commodity</u>	<u>Usage Shape</u>	<u>Usage Shaped</u>	<u>Commodity</u>	
Aug-28	2028	2028	8	\$ 3.28	1.5%		\$0.05	
Sep-28	2028	2028	9	\$ 3.17	3.0%		\$0.10	
Oct-28	2028	2029	10	\$ 3.14	7.3%		\$0.23	
Nov-28	2028	2029	11	\$ 3.62	12.7%		\$0.46	
Dec-28	2028	2029	12	\$ 4.22	17.3%		\$0.73	
Jan-29	2029	2029	1	\$ 4.22	16.9%		\$0.71	
Feb-29	2029	2029	2	\$ 3.86	13.4%		\$0.52	
Mar-29	2029	2029	3	\$ 3.48	11.1%		\$0.39	
Apr-29	2029	2029	4	\$ 3.33	7.9%		\$0.26	
May-29	2029	2029	5	\$ 2.91	5.0%		\$0.14	
Jun-29	2029	2029	6	\$ 2.92	2.5%		\$0.07	
Jul-29	2029	2029	7	\$ 3.38	1.4%		\$0.05	
Aug-29	2029	2029	8	\$ 3.43	1.5%		\$0.05	
Sep-29	2029	2029	9	\$ 3.30	3.0%		\$0.10	
Oct-29	2029	2030	10	\$ 3.29	7.3%		\$0.24	
Nov-29	2029	2030	11	\$ 3.79	12.7%		\$0.48	
Dec-29	2029	2030	12	\$ 4.38	17.3%		\$0.76	
Jan-30	2030	2030	1	\$ 4.37	16.9%		\$0.74	
Feb-30	2030	2030	2	\$ 4.01	13.4%		\$0.54	
Mar-30	2030	2030	3	\$ 3.62	11.1%		\$0.40	
Apr-30	2030	2030	4	\$ 3.45	7.9%		\$0.27	
May-30	2030	2030	5	\$ 3.03	5.0%		\$0.15	
Jun-30	2030	2030	6	\$ 3.05	2.5%		\$0.07	
Jul-30	2030	2030	7	\$ 3.50	1.4%		\$0.05	
Aug-30	2030	2030	8	\$ 3.53	1.5%		\$0.05	
Sep-30	2030	2030	9	\$ 3.43	3.0%		\$0.10	
Oct-30	2030	2031	10	\$ 3.40	7.3%		\$0.25	
Nov-30	2030	2031	11	\$ 3.91	12.7%		\$0.50	
Dec-30	2030	2031	12	\$ 4.51	17.3%		\$0.78	
Jan-31	2031	2031	1	\$ 4.43	16.9%		\$0.75	
Feb-31	2031	2031	2	\$ 4.07	13.4%		\$0.55	
Mar-31	2031	2031	3	\$ 3.66	11.1%		\$0.41	
Apr-31	2031	2031	4	\$ 3.50	7.9%		\$0.28	
May-31	2031	2031	5	\$ 3.08	5.0%		\$0.15	
Jun-31	2031	2031	6	\$ 3.11	2.5%		\$0.08	
Jul-31	2031	2031	7	\$ 3.55	1.4%		\$0.05	
Aug-31	2031	2031	8	\$ 3.57	1.5%		\$0.05	
Sep-31	2031	2031	9	\$ 3.47	3.0%		\$0.10	
Oct-31	2031	2032	10	\$ 3.44	7.3%		\$0.25	
Nov-31	2031	2032	11	\$ 3.96	12.7%		\$0.50	
Dec-31	2031	2032	12	\$ 4.55	17.3%		\$0.79	
Jan-32	2032	2032	1	\$ 4.43	16.9%		\$0.75	
Feb-32	2032	2032	2	\$ 4.09	13.4%		\$0.55	
Mar-32	2032	2032	3	\$ 3.69	11.1%		\$0.41	
Apr-32	2032	2032	4	\$ 3.53	7.9%		\$0.28	
May-32	2032	2032	5	\$ 3.10	5.0%		\$0.15	
Jun-32	2032	2032	6	\$ 3.14	2.5%		\$0.08	
Jul-32	2032	2032	7	\$ 3.60	1.4%		\$0.05	
Aug-32	2032	2032	8	\$ 3.60	1.5%		\$0.05	
Sep-32	2032	2032	9	\$ 3.48	3.0%		\$0.10	
Oct-32	2032	2033	10	\$ 3.47	7.3%		\$0.25	
Nov-32	2032	2033	11	\$ 3.99	12.7%		\$0.51	
Dec-32	2032	2033	12	\$ 4.58	17.3%		\$0.79	
Jan-33	2033	2033	1	\$ 4.53	16.9%		\$0.77	
Feb-33	2033	2033	2	\$ 4.20	13.4%		\$0.56	
Mar-33	2033	2033	3	\$ 3.79	11.1%		\$0.42	
Apr-33	2033	2033	4	\$ 3.62	7.9%		\$0.29	
May-33	2033	2033	5	\$ 3.20	5.0%		\$0.16	
Jun-33	2033	2033	6	\$ 3.24	2.5%		\$0.08	

Intermountain Gas Company
 2019-2023 IRP
 Avoided Costs - Monthly Commodity Costs (Usage Shaped)

AC Expected (BASE)
 Commodity, \$/MMBTU

Date	Year	FYYear	Month	Commodity	Usage Shape	Usage Shaped Commodity
Jul-33	2033	2033	7	\$ 3.70	1.4%	\$0.05
Aug-33	2033	2033	8	\$ 3.70	1.5%	\$0.06
Sep-33	2033	2033	9	\$ 3.60	3.0%	\$0.11
Oct-33	2033	2034	10	\$ 3.57	7.3%	\$0.26
Nov-33	2033	2034	11	\$ 4.10	12.7%	\$0.52
Dec-33	2033	2034	12	\$ 4.70	17.3%	\$0.81
Jan-34	2034	2034	1	\$ 4.64	16.9%	\$0.79
Feb-34	2034	2034	2	\$ 4.31	13.4%	\$0.58
Mar-34	2034	2034	3	\$ 3.92	11.1%	\$0.44
Apr-34	2034	2034	4	\$ 3.76	7.9%	\$0.30
May-34	2034	2034	5	\$ 3.34	5.0%	\$0.17
Jun-34	2034	2034	6	\$ 3.36	2.5%	\$0.08
Jul-34	2034	2034	7	\$ 3.83	1.4%	\$0.05
Aug-34	2034	2034	8	\$ 3.85	1.5%	\$0.06
Sep-34	2034	2034	9	\$ 3.76	3.0%	\$0.11
Oct-34	2034	2035	10	\$ 3.72	7.3%	\$0.27
Nov-34	2034	2035	11	\$ 4.25	12.7%	\$0.54
Dec-34	2034	2035	12	\$ 4.87	17.3%	\$0.84
Jan-35	2035	2035	1	\$ 4.74	16.9%	\$0.80
Feb-35	2035	2035	2	\$ 4.40	13.4%	\$0.59
Mar-35	2035	2035	3	\$ 4.01	11.1%	\$0.45
Apr-35	2035	2035	4	\$ 3.85	7.9%	\$0.30
May-35	2035	2035	5	\$ 3.44	5.0%	\$0.17
Jun-35	2035	2035	6	\$ 3.45	2.5%	\$0.08
Jul-35	2035	2035	7	\$ 3.91	1.4%	\$0.05
Aug-35	2035	2035	8	\$ 3.95	1.5%	\$0.06
Sep-35	2035	2035	9	\$ 3.84	3.0%	\$0.12
Oct-35	2035	2036	10	\$ 3.82	7.3%	\$0.28
Nov-35	2035	2036	11	\$ 4.31	12.7%	\$0.55
Dec-35	2035	2036	12	\$ 4.93	17.3%	\$0.85
Jan-36	2036	2036	1	\$ 5.18	16.9%	\$0.88
Feb-36	2036	2036	2	\$ 4.69	13.4%	\$0.63
Mar-36	2036	2036	3	\$ 4.15	11.1%	\$0.46
Apr-36	2036	2036	4	\$ 4.09	7.9%	\$0.32
May-36	2036	2036	5	\$ 3.45	5.0%	\$0.17
Jun-36	2036	2036	6	\$ 3.55	2.5%	\$0.09
Jul-36	2036	2036	7	\$ 4.20	1.4%	\$0.06
Aug-36	2036	2036	8	\$ 4.20	1.5%	\$0.06
Sep-36	2036	2036	9	\$ 3.97	3.0%	\$0.12
Oct-36	2036	2037	10	\$ 3.88	7.3%	\$0.28
Nov-36	2036	2037	11	\$ 4.49	12.7%	\$0.57
Dec-36	2036	2037	12	\$ 5.38	17.3%	\$0.93

Intermountain Gas Company
 2019-2023 IRP
 Avoided Costs - Monthly Commodity Costs (Usage Shaped)

Year	Sum of Usage Shaped Commodity	Usage shape	
		Month	% of Annual Usage
2019	3.477201404	1	16.9%
2020	3.442965087	2	13.4%
2021	3.053833744	3	11.1%
2022	2.772003484	4	7.9%
2023	2.80110478	5	5.0%
2024	2.740474694	6	2.5%
2025	3.401441125	7	1.4%
2026	3.516247688	8	1.5%
2027	3.587540317	9	3.0%
2028	3.61189916	10	7.3%
2029	3.715156502	11	12.7%
2030	3.86273207	12	17.3%
2031	3.941356774		
2032	3.969524122		
2033	4.044756369		
2034	4.166349695		
2035	4.281790967		
2036	4.467193078		
2037	1.785168717		

**Intermountain Gas Company
2019-2023 IRP
Avoided Costs - Monthly Commodity Costs**

Nominal \$s

AC Expected (BASE)
Commodity, \$/MMBTU

Date	Year	FYYear	Month	Commodity
Oct-18	2018	2019	10	\$2.78
Nov-18	2018	2019	11	\$ 3.41
Dec-18	2018	2019	12	\$ 4.24
Jan-19	2019	2019	1	\$ 4.13
Feb-19	2019	2019	2	\$ 3.61
Mar-19	2019	2019	3	\$ 3.07
Apr-19	2019	2019	4	\$ 2.91
May-19	2019	2019	5	\$ 2.35
Jun-19	2019	2019	6	\$ 2.42
Jul-19	2019	2019	7	\$ 3.08
Aug-19	2019	2019	8	\$ 3.09
Sep-19	2019	2019	9	\$ 2.86
Oct-19	2019	2020	10	\$ 2.78
Nov-19	2019	2020	11	\$ 3.41
Dec-19	2019	2020	12	\$ 4.24
Jan-20	2020	2020	1	\$ 4.13
Feb-20	2020	2020	2	\$ 3.61
Mar-20	2020	2020	3	\$ 3.07
Apr-20	2020	2020	4	\$ 2.91
May-20	2020	2020	5	\$ 2.15
Jun-20	2020	2020	6	\$ 2.19
Jul-20	2020	2020	7	\$ 2.79
Aug-20	2020	2020	8	\$ 2.76
Sep-20	2020	2020	9	\$ 2.54
Oct-20	2020	2021	10	\$ 2.48
Nov-20	2020	2021	11	\$ 3.03
Dec-20	2020	2021	12	\$ 3.75
Jan-21	2021	2021	1	\$ 3.66
Feb-21	2021	2021	2	\$ 3.19
Mar-21	2021	2021	3	\$ 2.69
Apr-21	2021	2021	4	\$ 2.55
May-21	2021	2021	5	\$ 1.99
Jun-21	2021	2021	6	\$ 2.05
Jul-21	2021	2021	7	\$ 2.46
Aug-21	2021	2021	8	\$ 2.49
Sep-21	2021	2021	9	\$ 2.34
Oct-21	2021	2022	10	\$ 2.33
Nov-21	2021	2022	11	\$ 2.73
Dec-21	2021	2022	12	\$ 3.29
Jan-22	2022	2022	1	\$ 3.20
Feb-22	2022	2022	2	\$ 2.88
Mar-22	2022	2022	3	\$ 2.47
Apr-22	2022	2022	4	\$ 2.30
May-22	2022	2022	5	\$ 2.15
Jun-22	2022	2022	6	\$ 2.21
Jul-22	2022	2022	7	\$ 2.37
Aug-22	2022	2022	8	\$ 2.42
Sep-22	2022	2022	9	\$ 2.38
Oct-22	2022	2023	10	\$ 2.35
Nov-22	2022	2023	11	\$ 2.76
Dec-22	2022	2023	12	\$ 3.24
Jan-23	2023	2023	1	\$ 3.20
Feb-23	2023	2023	2	\$ 2.96
Mar-23	2023	2023	3	\$ 2.53
Apr-23	2023	2023	4	\$ 2.33

Year	Annual Commodity Cost
2019	3.163083333
2020	3.048412128
2021	2.723067054
2022	2.559690779
2023	2.6108415
2024	2.62615615
2025	3.152311882
2026	3.26434109
2027	3.334459453
2028	3.367935912
2029	3.483585216
2030	3.620788592
2031	3.687846988
2032	3.717984795
2033	3.801479123
2034	3.92927031
2035	4.035650385
2036	4.208903928
2037	4.582821399

**Intermountain Gas Company
2019-2023 IRP
Avoided Costs - Monthly Commodity Costs**

Nominal \$s

AC Expected (BASE)
Commodity, \$/MMBTU

Date	Year	FYYear	Month	Commodity
May-23	2023	2023	5	\$ 2.24
Jun-23	2023	2023	6	\$ 2.29
Jul-23	2023	2023	7	\$ 2.46
Aug-23	2023	2023	8	\$ 2.50
Sep-23	2023	2023	9	\$ 2.47
Oct-23	2023	2024	10	\$ 2.45
Nov-23	2023	2024	11	\$ 2.55
Dec-23	2023	2024	12	\$ 2.79
Jan-24	2024	2024	1	\$ 3.05
Feb-24	2024	2024	2	\$ 3.15
Mar-24	2024	2024	3	\$ 2.65
Apr-24	2024	2024	4	\$ 2.47
May-24	2024	2024	5	\$ 2.34
Jun-24	2024	2024	6	\$ 2.39
Jul-24	2024	2024	7	\$ 2.55
Aug-24	2024	2024	8	\$ 2.57
Sep-24	2024	2024	9	\$ 2.55
Oct-24	2024	2025	10	\$ 2.76
Nov-24	2024	2025	11	\$ 3.33
Dec-24	2024	2025	12	\$ 3.97
Jan-25	2025	2025	1	\$ 3.93
Feb-25	2025	2025	2	\$ 3.55
Mar-25	2025	2025	3	\$ 3.10
Apr-25	2025	2025	4	\$ 3.01
May-25	2025	2025	5	\$ 2.55
Jun-25	2025	2025	6	\$ 2.60
Jul-25	2025	2025	7	\$ 3.05
Aug-25	2025	2025	8	\$ 3.06
Sep-25	2025	2025	9	\$ 2.93
Oct-25	2025	2026	10	\$ 2.90
Nov-25	2025	2026	11	\$ 3.46
Dec-25	2025	2026	12	\$ 4.07
Jan-26	2026	2026	1	\$ 4.05
Feb-26	2026	2026	2	\$ 3.66
Mar-26	2026	2026	3	\$ 3.21
Apr-26	2026	2026	4	\$ 3.12
May-26	2026	2026	5	\$ 2.67
Jun-26	2026	2026	6	\$ 2.70
Jul-26	2026	2026	7	\$ 3.14
Aug-26	2026	2026	8	\$ 3.17
Sep-26	2026	2026	9	\$ 3.05
Oct-26	2026	2027	10	\$ 3.01
Nov-26	2026	2027	11	\$ 3.55
Dec-26	2026	2027	12	\$ 4.16
Jan-27	2027	2027	1	\$ 4.09
Feb-27	2027	2027	2	\$ 3.72
Mar-27	2027	2027	3	\$ 3.28
Apr-27	2027	2027	4	\$ 3.18
May-27	2027	2027	5	\$ 2.74
Jun-27	2027	2027	6	\$ 2.75
Jul-27	2027	2027	7	\$ 3.21
Aug-27	2027	2027	8	\$ 3.23
Sep-27	2027	2027	9	\$ 3.10
Oct-27	2027	2028	10	\$ 3.07
Nov-27	2027	2028	11	\$ 3.57

Intermountain Gas Company
 2019-2023 IRP
 Avoided Costs - Monthly Commodity Costs

Nominal \$s

AC Expected (BASE)
 Commodity, \$/MMBTU

Date	Year	FYYear	Month	Commodity	
Dec-27	2027	2028	12	\$	4.17
Jan-28	2028	2028	1	\$	4.09
Feb-28	2028	2028	2	\$	3.72
Mar-28	2028	2028	3	\$	3.33
Apr-28	2028	2028	4	\$	3.22
May-28	2028	2028	5	\$	2.77
Jun-28	2028	2028	6	\$	2.79
Jul-28	2028	2028	7	\$	3.24
Aug-28	2028	2028	8	\$	3.28
Sep-28	2028	2028	9	\$	3.17
Oct-28	2028	2029	10	\$	3.14
Nov-28	2028	2029	11	\$	3.62
Dec-28	2028	2029	12	\$	4.22
Jan-29	2029	2029	1	\$	4.22
Feb-29	2029	2029	2	\$	3.86
Mar-29	2029	2029	3	\$	3.48
Apr-29	2029	2029	4	\$	3.33
May-29	2029	2029	5	\$	2.91
Jun-29	2029	2029	6	\$	2.92
Jul-29	2029	2029	7	\$	3.38
Aug-29	2029	2029	8	\$	3.43
Sep-29	2029	2029	9	\$	3.30
Oct-29	2029	2030	10	\$	3.29
Nov-29	2029	2030	11	\$	3.79
Dec-29	2029	2030	12	\$	4.38
Jan-30	2030	2030	1	\$	4.37
Feb-30	2030	2030	2	\$	4.01
Mar-30	2030	2030	3	\$	3.62
Apr-30	2030	2030	4	\$	3.45
May-30	2030	2030	5	\$	3.03
Jun-30	2030	2030	6	\$	3.05
Jul-30	2030	2030	7	\$	3.50
Aug-30	2030	2030	8	\$	3.53
Sep-30	2030	2030	9	\$	3.43
Oct-30	2030	2031	10	\$	3.40
Nov-30	2030	2031	11	\$	3.91
Dec-30	2030	2031	12	\$	4.51
Jan-31	2031	2031	1	\$	4.43
Feb-31	2031	2031	2	\$	4.07
Mar-31	2031	2031	3	\$	3.66
Apr-31	2031	2031	4	\$	3.50
May-31	2031	2031	5	\$	3.08
Jun-31	2031	2031	6	\$	3.11
Jul-31	2031	2031	7	\$	3.55
Aug-31	2031	2031	8	\$	3.57
Sep-31	2031	2031	9	\$	3.47
Oct-31	2031	2032	10	\$	3.44
Nov-31	2031	2032	11	\$	3.96
Dec-31	2031	2032	12	\$	4.55
Jan-32	2032	2032	1	\$	4.43
Feb-32	2032	2032	2	\$	4.09
Mar-32	2032	2032	3	\$	3.69
Apr-32	2032	2032	4	\$	3.53
May-32	2032	2032	5	\$	3.10
Jun-32	2032	2032	6	\$	3.14

Intermountain Gas Company
 2019-2023 IRP
 Avoided Costs - Monthly Commodity Costs

Nominal \$s

AC Expected (BASE)
 Commodity, \$/MMBTU

Date	Year	FYYear	Month	Commodity	
Jul-32	2032	2032	7	\$	3.60
Aug-32	2032	2032	8	\$	3.60
Sep-32	2032	2032	9	\$	3.48
Oct-32	2032	2033	10	\$	3.47
Nov-32	2032	2033	11	\$	3.99
Dec-32	2032	2033	12	\$	4.58
Jan-33	2033	2033	1	\$	4.53
Feb-33	2033	2033	2	\$	4.20
Mar-33	2033	2033	3	\$	3.79
Apr-33	2033	2033	4	\$	3.62
May-33	2033	2033	5	\$	3.20
Jun-33	2033	2033	6	\$	3.24
Jul-33	2033	2033	7	\$	3.70
Aug-33	2033	2033	8	\$	3.70
Sep-33	2033	2033	9	\$	3.60
Oct-33	2033	2034	10	\$	3.57
Nov-33	2033	2034	11	\$	4.10
Dec-33	2033	2034	12	\$	4.70
Jan-34	2034	2034	1	\$	4.64
Feb-34	2034	2034	2	\$	4.31
Mar-34	2034	2034	3	\$	3.92
Apr-34	2034	2034	4	\$	3.76
May-34	2034	2034	5	\$	3.34
Jun-34	2034	2034	6	\$	3.36
Jul-34	2034	2034	7	\$	3.83
Aug-34	2034	2034	8	\$	3.85
Sep-34	2034	2034	9	\$	3.76
Oct-34	2034	2035	10	\$	3.72
Nov-34	2034	2035	11	\$	4.25
Dec-34	2034	2035	12	\$	4.87
Jan-35	2035	2035	1	\$	4.74
Feb-35	2035	2035	2	\$	4.40
Mar-35	2035	2035	3	\$	4.01
Apr-35	2035	2035	4	\$	3.85
May-35	2035	2035	5	\$	3.44
Jun-35	2035	2035	6	\$	3.45
Jul-35	2035	2035	7	\$	3.91
Aug-35	2035	2035	8	\$	3.95
Sep-35	2035	2035	9	\$	3.84
Oct-35	2035	2036	10	\$	3.82
Nov-35	2035	2036	11	\$	4.31
Dec-35	2035	2036	12	\$	4.93
Jan-36	2036	2036	1	\$	5.18
Feb-36	2036	2036	2	\$	4.69
Mar-36	2036	2036	3	\$	4.15
Apr-36	2036	2036	4	\$	4.09
May-36	2036	2036	5	\$	3.45
Jun-36	2036	2036	6	\$	3.55
Jul-36	2036	2036	7	\$	4.20
Aug-36	2036	2036	8	\$	4.20
Sep-36	2036	2036	9	\$	3.97
Oct-36	2036	2037	10	\$	3.88
Nov-36	2036	2037	11	\$	4.49
Dec-36	2036	2037	12	\$	5.38

Intermountain Gas Company
2016-2023 IRP
Avoided Costs - Distribution Costs

IRP, 12/1/2015
 Rate Schedule
 Sheet No. 1 (Page 1 of 2)
 Intermountain Gas Company
 in Utility

IDAHO PUBLIC UTILITIES COMMISSION
 Approved Sept. 28, 2015 Oct. 1, 2015
 Part O.N. 34154
 Diane M. Hansen Secretary

Rate Schedule RS
RESIDENTIAL SERVICE

APPLICABILITY:
 Applicable to any customer using natural gas for residential purposes

RATE:
 Monthly minimum charge is the Customer Charge

Customer Charge	\$5.50 per bill
Per Therm Charge	\$0.50356*
*Includes the following	
Cost of Gas	(50.8774)
1) Temporary purchased gas cost adjustment	\$0.0000
2) Weighted average cost of gas	\$0.15601
3) Other transmission cost	
Distribution Cost	\$0.18205
EE Charge	\$0.00067

IRP, 12/1/2015
 Rate Schedule
 Sheet No. 2 (Page 1 of 2)
 Intermountain Gas Company
 in Utility

IDAHO PUBLIC UTILITIES COMMISSION
 Approved Sept. 28, 2015 Oct. 1, 2015
 Part O.N. 34154
 Diane M. Hansen Secretary

Rate Schedule OS-1
GENERAL SERVICE

APPLICABILITY:
 Applicable to customers whose requirements for natural gas do not exceed 2,000 therms per day. All any count the rate schedule upon execution and a one-year written service contract.

RATE:
 Monthly minimum charge is the Customer Charge

Customer Charge	\$9.90 per bill
Per Therm Charge	
Block Time	100 Therms per bill @ \$1.0126*
Block Time	1,000 Therms per bill @ \$1.4011*
Block Time	10,000 Therms per bill @ \$2.8941*
Block Time	10,000 Therms per bill @ \$2.5176*
*Includes the following	
Cost of Gas	(54.0726)
1) Temporary purchased gas cost adjustment	\$0.0000
2) Weighted average cost of gas	\$0.22724
3) Other transmission cost	\$0.0000
Distribution Cost	\$0.18205
EE Charge	\$0.18117
Block Time	100 Therms per bill @ \$1.1845
Block Time	1,000 Therms per bill @ \$1.1817
Block Time	10,000 Therms per bill @ \$1.1817
Block Time	10,000 Therms per bill @ \$1.0054

Intermountain 2017 FERC Form 2

	173
1 480 Residential Sales	
2 481 Commercial and Industrial Sales	
3 482 Other Sales to Public Authorities	

Weighting Factor ⁽¹⁾	Residential	Commercial	Total
Distribution Cost \$(/therm)	\$ 0.16305	\$ 0.16117	\$ 0.16243
Weighted Distribution Cost \$(/therm)	\$ 0.10924	\$ 0.05319	\$ 0.16243

⁽¹⁾ The Residential and Commercial Ratio was determined as follows:

	2017	2016	Total	Percent of Total
Residential Sales	173	159	332	67.62%
Commercial Sales	82	159	241	32.38%
Total Sales	255	491	746	100.00%

Line No.	Other Revenues Amount for Current Year (f)	Other Revenues Amount for Previous Year (g)	Total Operating Revenues Amount for Current Year (h)	Total Operating Revenues Amount for Previous Year (i)	Debit/credit of Natural Gas Amount for Current Year (j)	Debit/credit of Natural Gas Amount for Previous Year (k)
1	173,105,159	159,865,338	82,190,359	24,561,030	21,343,680	11,720,132
2						

Intermountain Gas Company
2019-2023 IRP
Avoided Costs - Fixed and Variable Transportation Costs

Northwest Pipeline LLC
FERC Gas Tariff
Fifth Revised Volume No. 1

Ninth Revised Sheet No. 5
Superseding
Eighth Revised Sheet No. 5

STATEMENT OF RATES
Effective Rates Applicable to
Rate Schedules TF-1, TF-2, TI-1, TFL-1 and TIL-1
(Dollars per Dth)

Rate Schedule and Type of Rate	Base Tariff Rate (1), (3)	
	Minimum	Maximum
Rate Schedule TF-1 (4) (5) Reservation (Large Customer) System-Wide 25 Year Evergreen Exp.	.00000	.39033
	.00000	.32039
Volumetric (2) (Large Customer) System-Wide 25 Year Evergreen Exp.	.00832	.00832
	.00832	.00832

	<u>Dollars/Dth</u>	<u>Percent of Total</u>
Fixed	\$ 0.39033	98%
Variable	0.00832	2%
Total	0.39865	100%

Intermountain Gas Company

2019-2023 IRP

Avoided Costs - Weighted Average Cost of Capital

	<u>Cost</u>	<u>Ratio</u>	<u>Weighting</u>	<u>W/Tax benefit</u>
Debt	4.94%	50%	2.50%	1.98%
Equity	9.50%	50%	4.80%	4.80%
Weighted Average Cost of Capital			7.30%	6.78%
Real Discount Rate	4.68%			
Inflation	2.0%			