

EIPC Gas-Electric Study  
RCI Forecast  
*Reference Gas Demand Scenario*

June 10, 2014

**Reference Gas Demand Scenario RCI Forecast**

<b>RTO</b>	<b>Location</b>	<b>Customer</b>	<b>2018 Summer Peak Hour (MDth/h)</b>	<b>2018 Winter Peak Hour (MDth/h)</b>	<b>2023 Summer Peak Hour (MDth/h)</b>	<b>2023 Winter Peak Hour (MDth/h)</b>
IESO	Ontario (CDA)	Ontario: Misc Ind Gas Mkt	12.340	21.442	11.624	21.446
IESO	Ontario (CDA)	Ontario: Misc LDC Gas Sales	8.992	60.213	8.652	61.497
IESO	Ontario (EDA)	Ontario: Misc Ind Gas Mkt	5.710	9.922	5.379	9.924
IESO	Ontario (EDA)	Ontario: Misc LDC Gas Sales	4.162	27.871	4.004	28.465
IESO	Ontario (NCDA)	Ontario: Misc Ind Gas Mkt	0.330	0.574	0.311	0.574
IESO	Ontario (NCDA)	Ontario: Misc LDC Gas Sales	0.241	1.611	0.232	1.646
IESO	Ontario (NDA)	Ontario: Misc Ind Gas Mkt	2.855	4.961	2.689	4.962
IESO	Ontario (NDA)	Ontario: Misc LDC Gas Sales	2.081	13.935	2.002	14.232
IESO	Ontario (non-TC)	Ontario: Misc Ind Gas Mkt	20.056	34.848	18.893	34.856
IESO	Ontario (non-TC)	Ontario: Misc LDC Gas Sales	14.615	97.867	14.063	99.952
IESO	Ontario (Spruce)	Ontario: Misc Ind Gas Mkt	0.689	1.197	0.649	1.197
IESO	Ontario (SSMDA)	Ontario: Misc Ind Gas Mkt	1.222	2.124	1.152	2.124
IESO	Ontario (SSMDA)	Ontario: Misc LDC Gas Sales	0.891	5.969	0.858	6.096
IESO	Ontario (StClair)	Ontario: Misc Ind Gas Mkt	2.662	4.625	2.507	4.626
IESO	Ontario (StClair)	Ontario: Misc LDC Gas Sales	1.939	12.982	1.866	13.259
IESO	Ontario (WDA)	Ontario: Misc Ind Gas Mkt	1.330	2.312	1.254	2.313
IESO	Ontario (WDA)	Ontario: Misc LDC Gas Sales	0.972	6.514	0.936	6.653
ISO-NE	Connecticut	Connecticut Natural Gas Corp.	2.931	13.154	3.005	15.422
ISO-NE	Connecticut	Misc Algonquin RCI	0.162	0.410	0.166	0.420
ISO-NE	Connecticut	Southern Connecticut Gas Co.	5.871	11.938	7.076	14.806
ISO-NE	Connecticut	Yankee Gas Services Co.	5.449	18.992	5.588	20.972
ISO-NE	Maine	Bangor Gas	0.562	1.057	0.576	1.084
ISO-NE	Maine	Maine Natural Gas	0.094	0.739	0.097	0.758
ISO-NE	Maine	Misc Granite State RCI	0.036	0.135	0.037	0.139
ISO-NE	Maine	Misc M&N RCI	0.321	0.330	0.329	0.338
ISO-NE	Maine	Misc PNGTS RCI	0.138	0.147	0.141	0.150
ISO-NE	Maine	Unitil Corporation	0.365	1.465	0.404	1.620
ISO-NE	Massachusetts Eastern	Boston Gas Co.	7.552	29.470	7.744	29.914
ISO-NE	Massachusetts Eastern	Colonial Gas Co.	2.247	7.926	2.381	8.400
ISO-NE	Massachusetts Eastern	Columbia Gas of Massachusetts	1.713	8.291	1.757	8.366
ISO-NE	Massachusetts Eastern	Liberty Utilities	0.391	2.314	0.401	2.333
ISO-NE	Massachusetts Eastern	Middleborough Gas & Electric	0.066	0.192	0.068	0.197
ISO-NE	Massachusetts Eastern	Misc Algonquin RCI	0.106	0.101	0.109	0.104
ISO-NE	Massachusetts Eastern	Nstar Gas Co	2.204	8.527	2.204	8.527

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ISO-NE	Massachusetts Eastern	Wakefield Gas & Light	0.030	0.156	0.031	0.160
ISO-NE	Massachusetts Western	Berkshire Gas	0.853	1.798	0.933	1.968
ISO-NE	Massachusetts Western	Boston Gas Co.	0.807	2.331	0.828	2.366
ISO-NE	Massachusetts Western	Columbia Gas of Massachusetts	1.494	5.689	1.507	5.740
ISO-NE	Massachusetts Western	Fitchburg Gas & Electric	0.197	0.635	0.199	0.642
ISO-NE	Massachusetts Western	Holyoke Gas & Electric	0.148	0.603	0.152	0.618
ISO-NE	Massachusetts Western	Nstar Gas Co	1.027	1.750	1.027	1.750
ISO-NE	Massachusetts Western	Westfield Gas & Electric	0.085	0.638	0.087	0.654
ISO-NE	New Hampshire	EnergyNorth Natural Gas, Inc.	1.238	6.659	1.269	7.619
ISO-NE	New Hampshire	Misc PNGTS RCI	0.248	0.258	0.254	0.264
ISO-NE	New Hampshire	Unitil Corporation	0.584	2.472	0.599	2.743
ISO-NE	Rhode Island	National Grid - RI Gas	3.002	7.906	3.136	8.547
ISO-NE	Vermont	Vermont Gas Systems, Inc.	0.790	2.920	0.805	2.976
MISO North/Central	Illinois Southern	Ameren Illinois	11.119	33.776	10.984	33.364
MISO North/Central	Illinois Southern	Liberty Utilities	0.255	0.686	0.252	0.678
MISO North/Central	Illinois Southern	Misc Midwestern RCI	0.411	0.492	0.406	0.486
MISO North/Central	Illinois Southern	Misc Mississippi River RCI	6.555	6.263	6.475	6.187
MISO North/Central	Illinois Southern	Misc NGPL RCI	0.086	0.054	0.085	0.053
MISO North/Central	Illinois Southern	Misc Panhandle Eastern RCI	0.509	1.470	0.503	1.452
MISO North/Central	Illinois Southern	Misc Texas Eastern RCI	0.204	0.598	0.201	0.590
MISO North/Central	Illinois Southern	Misc Texas Gas RCI	0.314	0.401	0.319	0.396
MISO North/Central	Illinois Southern	Misc Trunkline RCI	0.171	0.614	0.168	0.607
MISO North/Central	Iowa	Black Hills Energy	3.946	13.153	3.878	12.928
MISO North/Central	Iowa	Interstate Power and Light	0.816	7.338	0.814	7.326
MISO North/Central	Iowa	Liberty Utilities	0.330	0.774	0.329	0.771
MISO North/Central	Iowa	MidAmerican Energy Company	2.054	4.602	2.045	4.581
MISO North/Central	Iowa	Misc Alliance RCI	0.000	0.536	0.000	0.533
MISO North/Central	Iowa	Misc ANR RCI	0.076	0.077	0.076	0.077
MISO North/Central	Iowa	Misc NGPL RCI	0.029	0.062	0.029	0.061
MISO North/Central	Iowa	Misc Northern Border RCI	0.480	0.596	0.478	0.593
MISO North/Central	Iowa	Misc Northern Natural RCI	12.486	13.570	12.430	13.509
MISO North/Central	Michigan Lower Peninsula	Consumers Energy Company	44.317	158.742	43.776	158.604
MISO North/Central	Michigan Lower Peninsula	DTE Gas Co.	35.537	112.735	35.103	116.622
MISO North/Central	Michigan Lower Peninsula	Michigan Gas Utilities	0.774	11.596	0.764	11.355

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MISO North/Central	Michigan Lower Peninsula	Misc Panhandle Eastern RCI	2.726	3.086	2.693	3.048
MISO North/Central	Michigan Lower Peninsula	SEMCO Energy Gas Co.	1.428	11.053	1.410	10.536
MISO North/Central	Michigan Upper Peninsula	DTE Gas Co.	0.510	3.771	0.504	3.901
MISO North/Central	Michigan Upper Peninsula	Misc Northern Natural RCI	0.775	1.578	0.766	1.559
MISO North/Central	Michigan Upper Peninsula	SEMCO Energy Gas Co.	0.092	1.133	0.091	1.080
MISO North/Central	Michigan Upper Peninsula	Xcel Energy	0.044	0.415	0.046	0.426
MISO North/Central	Minnesota	CenterPoint Energy Minnegasco	0.287	5.742	0.286	5.716
MISO North/Central	Minnesota	Great Plains Natural Gas Co.	0.658	0.772	0.655	0.780
MISO North/Central	Minnesota	Interstate Power and Light	0.000	0.474	0.000	0.363
MISO North/Central	Minnesota	Minnesota Energy Resources	0.738	1.429	0.665	1.287
MISO North/Central	Minnesota	Misc Great Lakes RCI	0.026	0.125	0.026	0.125
MISO North/Central	Minnesota	Misc Northern Border RCI	7.011	9.268	6.980	9.226
MISO North/Central	Minnesota	Misc Northern Natural RCI	8.876	10.820	8.836	10.771
MISO North/Central	Minnesota	Misc Viking RCI	0.179	0.477	0.179	0.475
MISO North/Central	Minnesota	Xcel Energy	4.635	21.009	4.860	22.027
MISO North/Central	Missouri Eastern	Ameren Missouri	1.000	5.500	0.995	5.475
MISO North/Central	Missouri Eastern	Laclede Gas Co.	12.412	37.095	12.357	36.928
MISO North/Central	Missouri Eastern	Liberty Utilities	0.706	1.916	0.702	1.908
MISO North/Central	Missouri Eastern	Misc ANR RCI	0.106	0.106	0.105	0.106
MISO North/Central	Missouri Eastern	Misc Mississippi River RCI	0.619	0.695	0.617	0.692
MISO North/Central	Missouri Eastern	Misc NGPL RCI	0.016	0.008	0.016	0.008
MISO North/Central	Missouri Eastern	Misc Ozark RCI	0.034	0.056	0.034	0.056
MISO North/Central	Missouri Eastern	Misc Panhandle Eastern RCI	1.741	5.755	1.733	5.729
MISO North/Central	Missouri Eastern	Misc Texas Eastern RCI	1.860	3.595	1.852	3.579
MISO North/Central	Montana Eastern	Misc Northern Border RCI	0.148	0.551	0.151	0.561
MISO North/Central	Montana Eastern	Misc WBI RCI	0.765	0.863	0.780	0.879
MISO North/Central	Montana Eastern	Montana Dakota Utilities Co.	1.871	2.578	1.906	2.626
MISO North/Central	North Dakota	Misc Alliance RCI	0.032	0.089	0.032	0.089
MISO North/Central	North Dakota	Misc Northern Border RCI	1.463	0.264	1.457	0.263
MISO North/Central	North Dakota	Misc WBI RCI	1.211	1.314	1.206	1.308
MISO North/Central	North Dakota	Montana Dakota Utilities Co.	2.270	4.440	2.259	4.420
MISO North/Central	North Dakota	Xcel Energy	0.801	4.895	0.798	4.873
MISO North/Central	South Dakota	Misc Northern Border RCI	1.544	2.177	1.537	2.167
MISO North/Central	South Dakota	Misc Northern Natural RCI	0.002	0.068	0.002	0.067

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MISO North/Central	South Dakota	Misc WBI RCI	0.080	0.025	0.080	0.025
MISO North/Central	South Dakota	Montana Dakota Utilities Co.	0.822	1.449	0.819	1.443
MISO North/Central	South Dakota	NorthWestern Public Service	2.055	2.833	2.046	2.820
MISO North/Central	Wisconsin Eastern (RFC)	Wisconsin Electric Power Co.	1.486	7.663	1.468	7.570
MISO North/Central	Wisconsin Eastern (RFC)	Wisconsin Gas Co.	30.488	117.585	30.116	116.151
MISO North/Central	Wisconsin Eastern (RFC)	Wisconsin Power & Light Co.	8.947	28.153	8.838	27.810
MISO North/Central	Wisconsin Eastern (RFC)	Wisconsin Public Service Corporation	1.870	13.452	1.847	14.363
MISO North/Central	Wisconsin Western (MROE)	Madison Gas & Electric Co.	0.760	0.481	0.751	0.476
MISO North/Central	Wisconsin Western (MROE)	Misc ANR RCI	0.011	0.010	0.011	0.010
MISO North/Central	Wisconsin Western (MROE)	Misc Northern Natural RCI	0.160	0.158	0.158	0.156
MISO North/Central	Wisconsin Western (MROE)	Wisconsin Electric Power Co.	0.008	0.070	0.008	0.069
MISO North/Central	Wisconsin Western (MROE)	Wisconsin Gas Co.	5.187	9.846	5.124	9.726
MISO North/Central	Wisconsin Western (MROE)	Wisconsin Power & Light Co.	0.571	0.628	0.564	0.620
MISO North/Central	Wisconsin Western (MROE)	Wisconsin Public Service Corporation	0.646	5.550	0.638	5.926
MISO North/Central	Wisconsin Western (MROW)	Misc Great Lakes RCI	0.442	0.797	0.436	0.787
MISO North/Central	Wisconsin Western (MROW)	Misc Northern Natural RCI	0.162	0.114	0.160	0.112
MISO North/Central	Wisconsin Western (MROW)	Misc Viking RCI	0.259	0.337	0.256	0.333
MISO North/Central	Wisconsin Western (MROW)	Wisconsin Electric Power Co.	0.018	0.395	0.018	0.391
MISO North/Central	Wisconsin Western (MROW)	Wisconsin Gas Co.	0.976	2.442	0.964	2.412
MISO North/Central	Wisconsin Western (MROW)	Wisconsin Power & Light Co.	0.027	0.061	0.027	0.060
MISO North/Central	Wisconsin Western (MROW)	Xcel Energy	0.479	3.658	0.473	3.840
MISO South	Arkansas	Arkansas Louisiana Gas	0.026	0.215	0.027	0.222
MISO South	Arkansas	Arkansas Oklahoma Gas Corp.	1.148	3.198	1.056	3.140
MISO South	Arkansas	CenterPoint Energy Arkla Division	15.768	39.659	14.503	38.916
MISO South	Arkansas	Misc Mississippi River RCI	0.719	1.116	0.743	1.153
MISO South	Arkansas	Misc NGPL RCI	0.004	0.018	0.004	0.018
MISO South	Arkansas	Misc Ozark RCI	0.458	0.031	0.473	0.032
MISO South	Arkansas	Misc Texas Eastern RCI	0.454	0.494	0.470	0.511
MISO South	Arkansas	Misc Texas Gas RCI	0.030	0.022	0.031	0.022
MISO South	Arkansas	SourceGas Distribution LLC	2.824	9.664	2.603	9.509
MISO South	Louisiana Northern	Atmos Energy Corp	0.002	0.008	0.003	0.008
MISO South	Louisiana Northern	CenterPoint Energy Arkla Division	1.691	6.765	1.473	6.577
MISO South	Louisiana Northern	Louisiana, Northern: Misc Ind Gas Mkt	40.759	39.831	30.112	31.246
MISO South	Louisiana Northern	MidLa	2.783	2.317	2.875	2.393

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MISO South	Louisiana Northern	Misc ANR RCI	0.019	0.048	0.020	0.049
MISO South	Louisiana Northern	Misc Tennessee RCI	0.002	0.509	0.003	0.526
MISO South	Louisiana Northern	Misc Texas Eastern RCI	0.195	0.056	0.201	0.058
MISO South	Louisiana Northern	Misc Texas Gas RCI	0.019	0.022	0.019	0.023
MISO South	Louisiana Southern	Atmos Energy Corp	3.430	13.952	3.008	13.589
MISO South	Louisiana Southern	Cokinoss Natural Gas	0.002	0.000	0.002	0.000
MISO South	Louisiana Southern	Louisiana, Southern: Misc Ind Gas Mkt	138.846	135.687	101.997	105.838
MISO South	Louisiana Southern	Louisiana: Misc LDC Gas Sales	0.182	0.707	0.169	0.698
MISO South	Louisiana Southern	MidLa	2.043	2.883	2.110	2.978
MISO South	Louisiana Southern	Misc ANR RCI	0.178	0.000	0.184	0.000
MISO South	Louisiana Southern	Misc Columbia Gulf RCI	9.464	4.368	9.777	4.513
MISO South	Louisiana Southern	Misc Florida Gas RCI	2.252	3.300	2.327	3.409
MISO South	Louisiana Southern	Misc NGPL RCI	0.003	0.015	0.003	0.015
MISO South	Louisiana Southern	Misc Southern RCI	0.903	0.963	0.933	0.995
MISO South	Louisiana Southern	Misc Tennessee RCI	4.472	2.561	4.620	2.646
MISO South	Louisiana Southern	Misc Texas Eastern RCI	16.599	28.183	17.148	29.116
MISO South	Louisiana Southern	Misc Texas Gas RCI	0.129	0.120	0.133	0.124
MISO South	Louisiana Southern	Misc Transco RCI	7.203	7.684	7.442	7.939
MISO South	Louisiana Southern	Westlake GTL	0.000	0.000	36.592	37.971
MISO South	Louisiana Western	Atmos Energy Corp	0.001	0.002	0.001	0.002
MISO South	Louisiana Western	CenterPoint Energy Entex	1.053	4.575	0.930	4.467
MISO South	Louisiana Western	Louisiana, Western: Misc Ind Gas Mkt	0.782	0.765	0.577	0.599
MISO South	Louisiana Western	Louisiana: Misc LDC Gas Sales	0.228	1.111	0.195	1.080
MISO South	Louisiana Western	Misc Tennessee RCI	0.023	0.024	0.024	0.025
MISO South	Louisiana Western	Misc Texas Eastern RCI	1.803	1.905	1.863	1.968
MISO South	Louisiana Western	Misc Trunkline RCI	5.471	5.407	5.652	5.586
MISO South	Mississippi	Atmos Energy Corp	4.649	7.882	4.709	7.984
MISO South	Mississippi	CenterPoint Energy Entex	0.475	0.580	0.481	0.588
MISO South	Mississippi	Misc ANR RCI	0.033	0.211	0.033	0.214
MISO South	Mississippi	Misc Columbia Gulf RCI	0.040	0.044	0.040	0.044
MISO South	Mississippi	Misc Florida Gas RCI	0.000	0.000	0.000	0.000
MISO South	Mississippi	Misc Southern RCI	2.351	2.490	2.382	2.522
MISO South	Mississippi	Misc Tennessee RCI	1.762	2.929	1.784	2.966
MISO South	Mississippi	Misc Texas Eastern RCI	4.540	5.968	4.599	6.045

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MISO South	Mississippi	Misc Texas Gas RCI	0.292	0.742	0.296	0.752
MISO South	Mississippi	Misc Transco RCI	0.054	0.093	0.054	0.094
MISO South	Mississippi	Misc Trunkline RCI	0.014	0.109	0.014	0.111
MISO South	Mississippi	Mississippi: Misc Ind Gas Mkt	5.323	6.770	5.119	6.917
MISO South	Mississippi	Southcross Mississippi	0.694	1.556	0.703	1.576
MISO South	Mississippi	Willmut Gas & Oil Co.	0.264	1.207	0.239	1.169
MISO South	Texas East (SERC)	Atmos Energy Corp	0.314	0.050	0.325	0.051
MISO South	Texas East (SERC)	CenterPoint Energy Entex	1.444	5.213	1.375	5.218
MISO South	Texas East (SERC)	Misc Florida Gas RCI	0.048	0.023	0.049	0.024
MISO South	Texas East (SERC)	Misc NGPL RCI	0.002	0.003	0.002	0.003
MISO South	Texas East (SERC)	Misc Tennessee RCI	0.034	0.169	0.035	0.174
MISO South	Texas East (SERC)	Misc Texas Eastern RCI	17.320	12.326	17.893	12.734
MISO South	Texas East (SERC)	Misc Trunkline RCI	0.001	0.006	0.001	0.006
MISO South	Texas East (SERC)	Texas Misc Ind Gas Mkt	5.018	5.916	4.858	6.082
MISO South	Texas East (SERC)	Texas: Misc LDC Gas Sales	0.017	0.045	0.016	0.046
NYISO	New York Central Northern	Central Hudson Gas & Electric Corp.	0.205	1.615	0.207	1.648
NYISO	New York Central Northern	New York State Electric & Gas Corp.	0.806	1.872	0.813	1.895
NYISO	New York Central Northern	Niagara Mohawk, a National Grid Company	6.868	34.713	6.931	33.574
NYISO	New York Central Northern	St Lawrence Gas Co	0.620	2.039	0.626	2.058
NYISO	New York City	Consolidated Edison Company Of New York Inc	13.047	59.066	15.907	72.013
NYISO	New York City	National Grid	18.047	54.372	20.480	61.702
NYISO	New York Long Island	National Grid	1.572	49.717	1.587	55.166
NYISO	New York Southern	Central Hudson Gas & Electric Corp.	0.801	5.393	0.817	5.505
NYISO	New York Southern	New York State Electric & Gas Corp.	1.869	5.434	1.886	5.501
NYISO	New York Southern	Orange & Rockland Utilities, Inc.	2.313	10.444	2.334	10.747
NYISO	New York Western	Corning Natural Gas	2.003	2.747	2.003	2.747
NYISO	New York Western	Misc Columbia Gas RCI	0.066	0.096	0.066	0.096
NYISO	New York Western	Misc NFG RCI	0.036	0.093	0.036	0.094
NYISO	New York Western	National Fuel Gas Distribution Corp.	7.156	43.047	7.222	41.368
NYISO	New York Western	New York State Electric & Gas Corp.	3.787	13.722	3.822	13.891
NYISO	New York Western	Rochester Gas and Electric Company	4.420	25.123	4.460	25.269
NYISO	New York Western	Southern Tier Transmission	0.000	0.029	0.000	0.030
NYISO	New York Western	US Gypsum	0.005	0.023	0.005	0.023
PJM	Delaware	Delmarva Power & Light Co.	2.215	5.703	2.281	5.873

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PJM	Delaware	Eastern Shore Natural Gas	3.583	8.212	3.689	8.456
PJM	District of Columbia	Washington Gas Light Co.	2.046	13.186	2.161	14.061
PJM	Illinois Northern	Ameren Illinois	0.776	0.737	0.766	0.728
PJM	Illinois Northern	Interstate Power and Light	1.056	1.300	1.043	1.284
PJM	Illinois Northern	Misc Alliance RCI	11.444	16.150	11.304	15.953
PJM	Illinois Northern	Misc ANR RCI	0.431	6.810	0.426	6.727
PJM	Illinois Northern	Misc NGPL RCI	0.045	0.001	0.044	0.000
PJM	Illinois Northern	Misc Northern Border RCI	0.096	0.016	0.095	0.015
PJM	Illinois Northern	Nicor Gas Co.	29.683	187.972	29.320	185.679
PJM	Illinois Northern	North Shore Gas Co.	1.011	1.130	0.999	1.117
PJM	Illinois Northern	Peoples Gas	7.432	103.126	7.341	101.868
PJM	Indiana	Citizens Gas & Coke Utility	3.451	21.965	3.408	21.697
PJM	Indiana	Indiana Natural Gas	0.025	0.097	0.025	0.096
PJM	Indiana	Misc ANR RCI	0.050	0.200	0.049	0.198
PJM	Indiana	Misc Midwestern RCI	2.159	2.516	2.132	2.486
PJM	Indiana	Misc Panhandle Eastern RCI	7.900	20.692	7.803	20.440
PJM	Indiana	Misc Texas Eastern RCI	0.082	0.511	0.081	0.505
PJM	Indiana	Misc Texas Gas RCI	1.010	1.433	0.998	1.416
PJM	Indiana	Misc Trunkline RCI	0.047	0.159	0.046	0.157
PJM	Indiana	Northern Indiana Public Service Co.	4.742	63.371	4.684	62.598
PJM	Indiana	Vectren Corp. S IN	0.268	1.831	0.265	1.809
PJM	Indiana	Vectren Corp.IN Gas	3.892	19.456	3.845	19.218
PJM	Maryland Eastern	Baltimore Gas & Electric Co.	13.317	33.243	13.857	34.591
PJM	Maryland Eastern	Washington Gas Light Co.	2.474	33.732	2.613	35.970
PJM	Maryland Western	Columbia Gas of Maryland, Inc.	1.352	2.208	1.392	2.274
PJM	New Jersey	Elizabethtown Gas Co.	4.400	16.864	4.440	17.019
PJM	New Jersey	Misc Texas Eastern RCI	0.086	0.098	0.087	0.098
PJM	New Jersey	Misc Transco RCI	0.011	0.192	0.011	0.194
PJM	New Jersey	New Jersey Natural Gas Co.	3.093	41.952	3.137	44.588
PJM	New Jersey	Public Service Electric and Gas Company	19.445	74.211	19.624	74.893
PJM	New Jersey	South Jersey Gas Co.	4.609	21.768	4.652	23.380
PJM	North Carolina	Piedmont Natural Gas Co., Inc.	18.455	53.501	19.003	56.672
PJM	Ohio	Columbia Gas of Ohio, Inc.	0.000	55.954	12.432	55.954
PJM	Ohio	Duke Energy Ohio	5.580	21.877	5.512	21.957



**Reference Gas Demand Scenario RCI Forecast**

<b>RTO</b>	<b>Location</b>	<b>Customer</b>	<b>2018 Summer Peak Hour (MDth/h)</b>	<b>2018 Winter Peak Hour (MDth/h)</b>	<b>2023 Summer Peak Hour (MDth/h)</b>	<b>2023 Winter Peak Hour (MDth/h)</b>
PJM	Ohio	East Ohio Gas Co.	17.485	150.982	17.271	149.140
PJM	Ohio	Misc ANR RCI	5.627	7.658	5.558	7.564
PJM	Ohio	Misc Columbia Gas RCI	1.455	3.478	1.438	3.436
PJM	Ohio	Misc Crossroads RCI	1.358	1.925	1.341	1.902
PJM	Ohio	Misc Panhandle Eastern RCI	5.540	7.600	5.472	7.507
PJM	Ohio	Misc Tennessee RCI	0.772	1.649	0.763	1.629
PJM	Ohio	Misc Texas Eastern RCI	3.152	3.274	3.114	3.234
PJM	Ohio	Misc Texas Gas RCI	0.561	1.204	0.554	1.189
PJM	Ohio	Northeast Ohio Natural Gas	0.749	1.152	0.740	1.193
PJM	Ohio	Vectren Energy Delivery Of Ohio	2.966	19.516	2.930	20.183
PJM	Pennsylvania Eastern	Columbia Gas of Pennsylvania, Inc.	0.081	0.282	0.082	0.286
PJM	Pennsylvania Eastern	Misc Tennessee RCI	0.607	0.967	0.613	0.976
PJM	Pennsylvania Eastern	Misc Texas Eastern RCI	2.929	2.136	2.956	2.156
PJM	Pennsylvania Eastern	Misc Transco RCI	2.768	2.822	2.793	2.847
PJM	Pennsylvania Eastern	PECO Energy Company	9.303	31.169	9.389	31.089
PJM	Pennsylvania Eastern	Philadelphia Gas Works	4.608	23.991	4.650	26.078
PJM	Pennsylvania Eastern	UGI Central Penn Gas	4.305	4.759	4.345	4.803
PJM	Pennsylvania Eastern	UGI Penn Natural Gas	1.215	4.260	1.227	4.299
PJM	Pennsylvania Eastern	UGI Utilities, Inc.	9.202	22.896	9.287	23.107
PJM	Pennsylvania Western	Columbia Gas of Pennsylvania, Inc.	5.519	35.045	5.570	35.515
PJM	Pennsylvania Western	Misc Columbia Gas RCI	0.442	0.431	0.446	0.435
PJM	Pennsylvania Western	Misc Dominion RCI	0.052	0.088	0.052	0.089
PJM	Pennsylvania Western	Misc Equitrans RCI	0.192	0.000	0.193	0.000
PJM	Pennsylvania Western	Misc NFG RCI	1.439	1.758	1.452	1.774
PJM	Pennsylvania Western	Misc Tennessee RCI	0.216	0.213	0.218	0.215
PJM	Pennsylvania Western	Misc Texas Eastern RCI	10.629	5.392	10.727	5.442
PJM	Pennsylvania Western	National Fuel Gas Distribution Corp.	4.394	17.102	4.434	15.791
PJM	Pennsylvania Western	Peoples Natural Gas Co.	6.693	79.196	6.755	79.924
PJM	Pennsylvania Western	Peoples TWP	0.033	2.696	0.033	2.721
PJM	Pennsylvania Western	UGI Central Penn Gas	0.122	0.666	0.123	0.673
PJM	Virginia	Atmos Energy Corp	0.470	2.455	0.484	2.566
PJM	Virginia	Charlottesville Gas Division	0.629	1.019	0.648	1.049
PJM	Virginia	Columbia Gas of Virginia, Inc.	9.879	18.228	10.172	19.734
PJM	Virginia	Misc Columbia Gas RCI	3.755	3.441	3.866	3.543

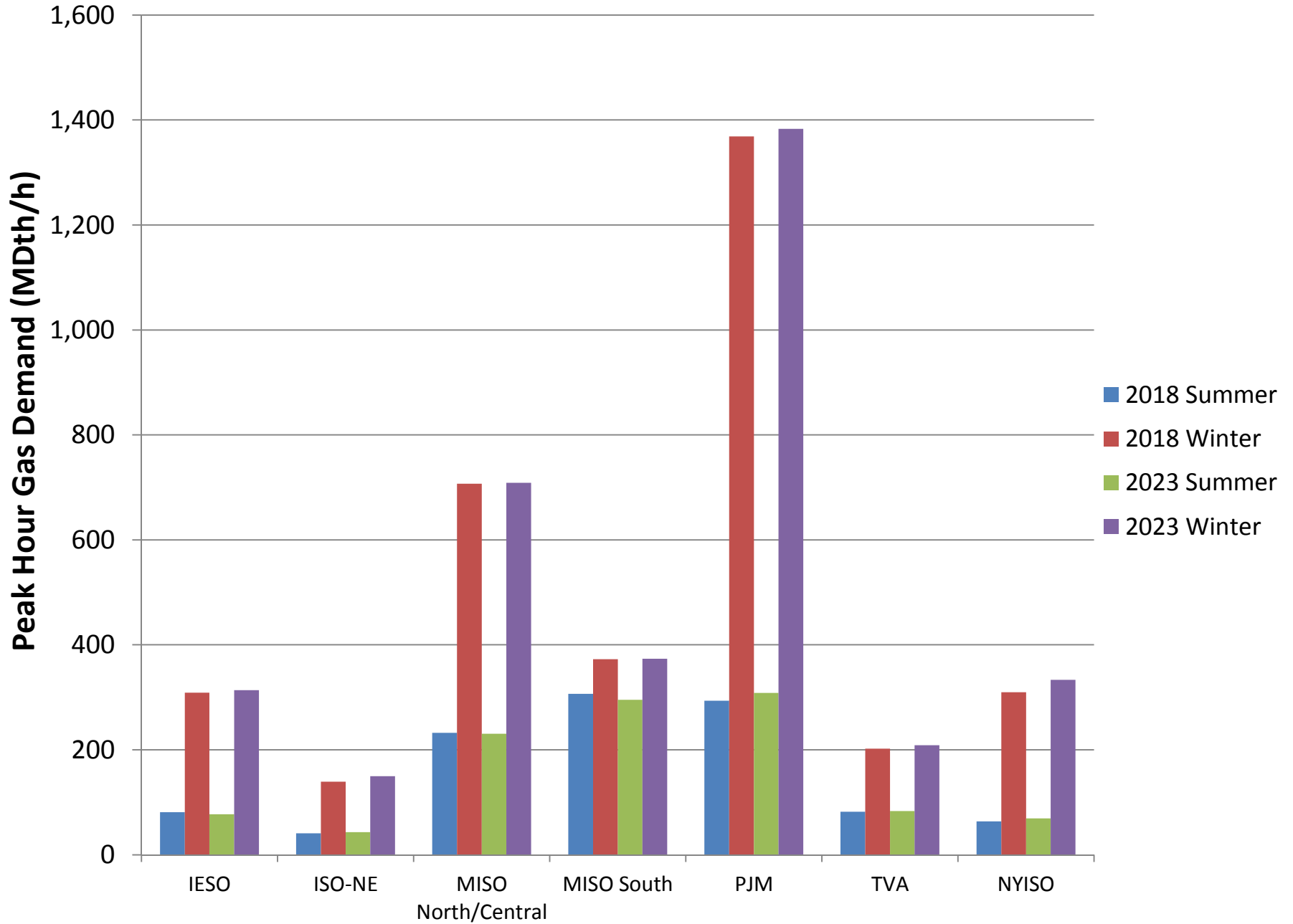
**Reference Gas Demand Scenario RCI Forecast**

<b>RTO</b>	<b>Location</b>	<b>Customer</b>	<b>2018 Summer Peak Hour (MDth/h)</b>	<b>2018 Winter Peak Hour (MDth/h)</b>	<b>2023 Summer Peak Hour (MDth/h)</b>	<b>2023 Winter Peak Hour (MDth/h)</b>
PJM	Virginia	Misc East Tennessee RCI	0.019	0.043	0.019	0.045
PJM	Virginia	Misc Transco RCI	0.510	1.206	0.525	1.242
PJM	Virginia	Richmond Dept. of Public Utilities	0.409	0.885	0.421	0.911
PJM	Virginia	Roanoke Gas Co.	0.885	4.729	0.911	4.822
PJM	Virginia	Virginia Natural Gas, Inc.	2.591	14.925	2.723	15.687
PJM	Virginia	Washington Gas Light Co.	4.534	38.289	4.788	40.830
PJM	West Virginia	Hope Gas, Inc.	1.814	2.751	1.868	2.832
PJM	West Virginia	Misc Columbia Gas RCI	0.125	0.943	0.129	0.971
PJM	West Virginia	Misc Tennessee RCI	0.632	0.109	0.650	0.112
PJM	West Virginia	Misc Texas Eastern RCI	0.000	0.000	0.000	0.000
PJM	West Virginia	Mountaineer Gas Co.	6.457	11.589	6.649	11.933
PJM	West Virginia	Peoples Natural Gas Co.	0.211	1.610	0.217	1.658
TVA	Alabama	Alabama Gas Corp. (Alagasco)	7.321	12.377	7.416	12.536
TVA	Alabama	Huntsville Utilities	0.432	2.185	0.437	2.213
TVA	Alabama	Misc AlaTenn RCI	2.154	2.914	2.182	2.952
TVA	Alabama	Misc Tennessee RCI	13.222	18.641	13.392	18.882
TVA	Alabama	Misc Texas Eastern RCI	0.046	0.103	0.046	0.105
TVA	Kentucky	Atmos Energy Corp	5.728	18.005	5.802	18.237
TVA	Kentucky	Columbia Gas of Kentucky, Inc.	2.702	6.387	2.736	6.470
TVA	Kentucky	Delta Natural Gas Co., Inc.	1.898	3.275	1.922	3.317
TVA	Kentucky	Duke Energy Kentucky	0.132	0.697	0.134	0.706
TVA	Kentucky	Louisville Gas & Electric Company	7.879	27.348	7.981	27.701
TVA	Kentucky	Misc ANR RCI	0.285	0.372	0.288	0.377
TVA	Kentucky	Misc Columbia Gas RCI	0.126	0.680	0.127	0.689
TVA	Kentucky	Misc Midwestern RCI	0.126	0.162	0.127	0.164
TVA	Kentucky	Misc Tennessee RCI	2.948	2.611	2.986	2.644
TVA	Kentucky	Misc Texas Eastern RCI	0.049	0.202	0.050	0.204
TVA	Kentucky	Misc Texas Gas RCI	4.214	4.704	4.268	4.764
TVA	Kentucky	Misc Trunkline RCI	0.024	0.206	0.024	0.209
TVA	North Carolina	PSC of North Carolina, Inc.	7.326	32.537	7.543	36.939
TVA	Tennessee	Atmos Energy Corp	1.649	6.569	1.670	6.654
TVA	Tennessee	Clarksville Electric & Gas Dept.	0.494	1.578	0.501	1.599
TVA	Tennessee	Jackson Utility Division	0.973	1.601	0.986	1.621
TVA	Tennessee	Knoxville Utilities Board	0.941	4.975	0.953	5.039

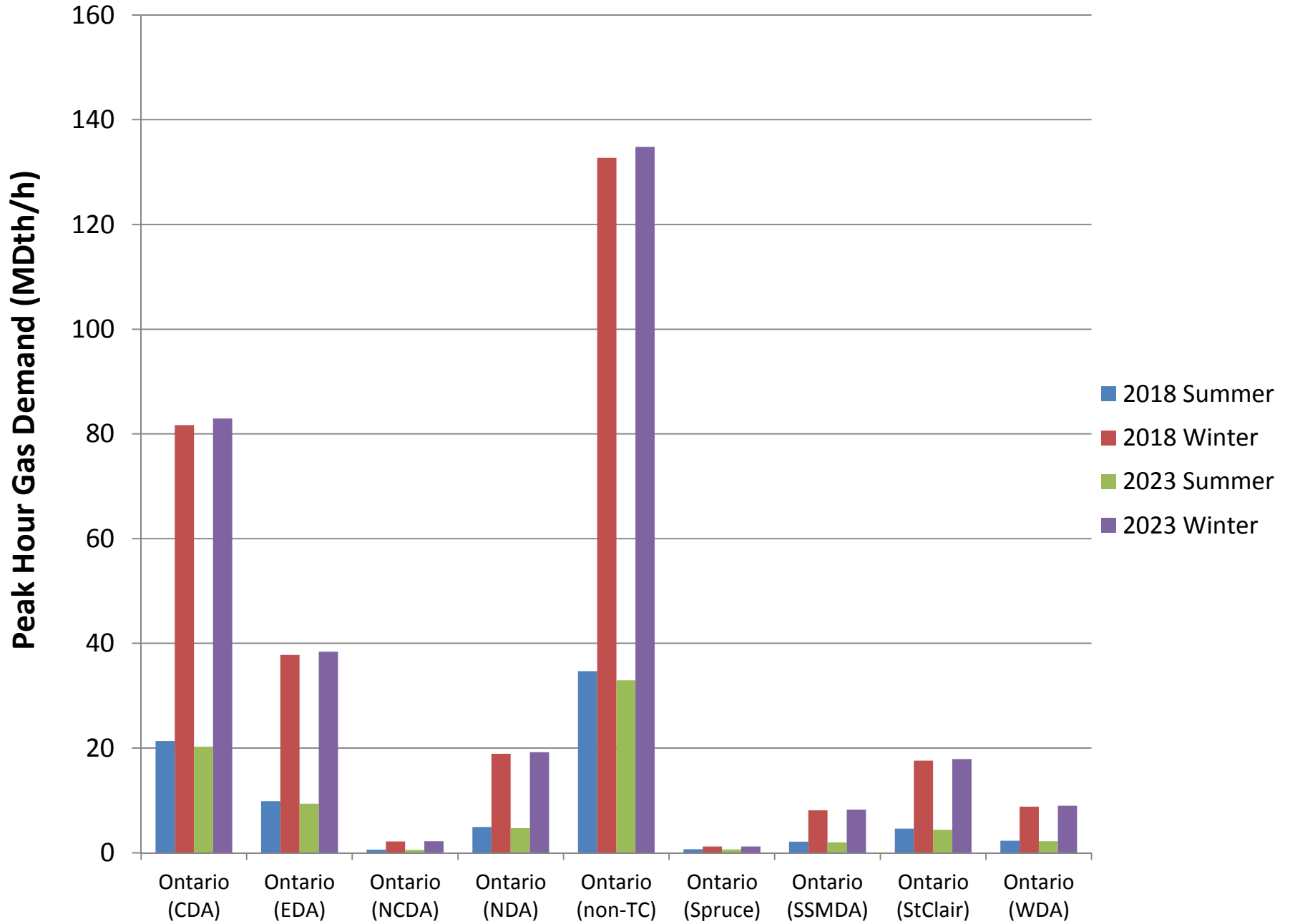
**Reference Gas Demand Scenario RCI Forecast**

<b>RTO</b>	<b>Location</b>	<b>Customer</b>	<b>2018 Summer Peak Hour (MDth/h)</b>	<b>2018 Winter Peak Hour (MDth/h)</b>	<b>2023 Summer Peak Hour (MDth/h)</b>	<b>2023 Winter Peak Hour (MDth/h)</b>
TVA	Tennessee	Memphis Light, Gas & Water Division	7.126	16.959	7.217	17.177
TVA	Tennessee	Middle Tennessee Natural Gas Utility District	0.656	2.905	0.665	2.943
TVA	Tennessee	Misc Columbia Gulf RCI	0.320	0.769	0.324	0.779
TVA	Tennessee	Misc East Tennessee RCI	7.119	14.775	7.211	14.965
TVA	Tennessee	Misc Tennessee RCI	0.981	1.669	0.994	1.690
TVA	Tennessee	Misc Texas Eastern RCI	0.247	1.385	0.250	1.403
TVA	Tennessee	Misc Texas Gas RCI	1.001	1.463	1.013	1.482
TVA	Tennessee	Misc Trunkline RCI	0.612	0.932	0.620	0.944
TVA	Tennessee	Piedmont Natural Gas Co., Inc.	3.326	13.177	3.368	13.347

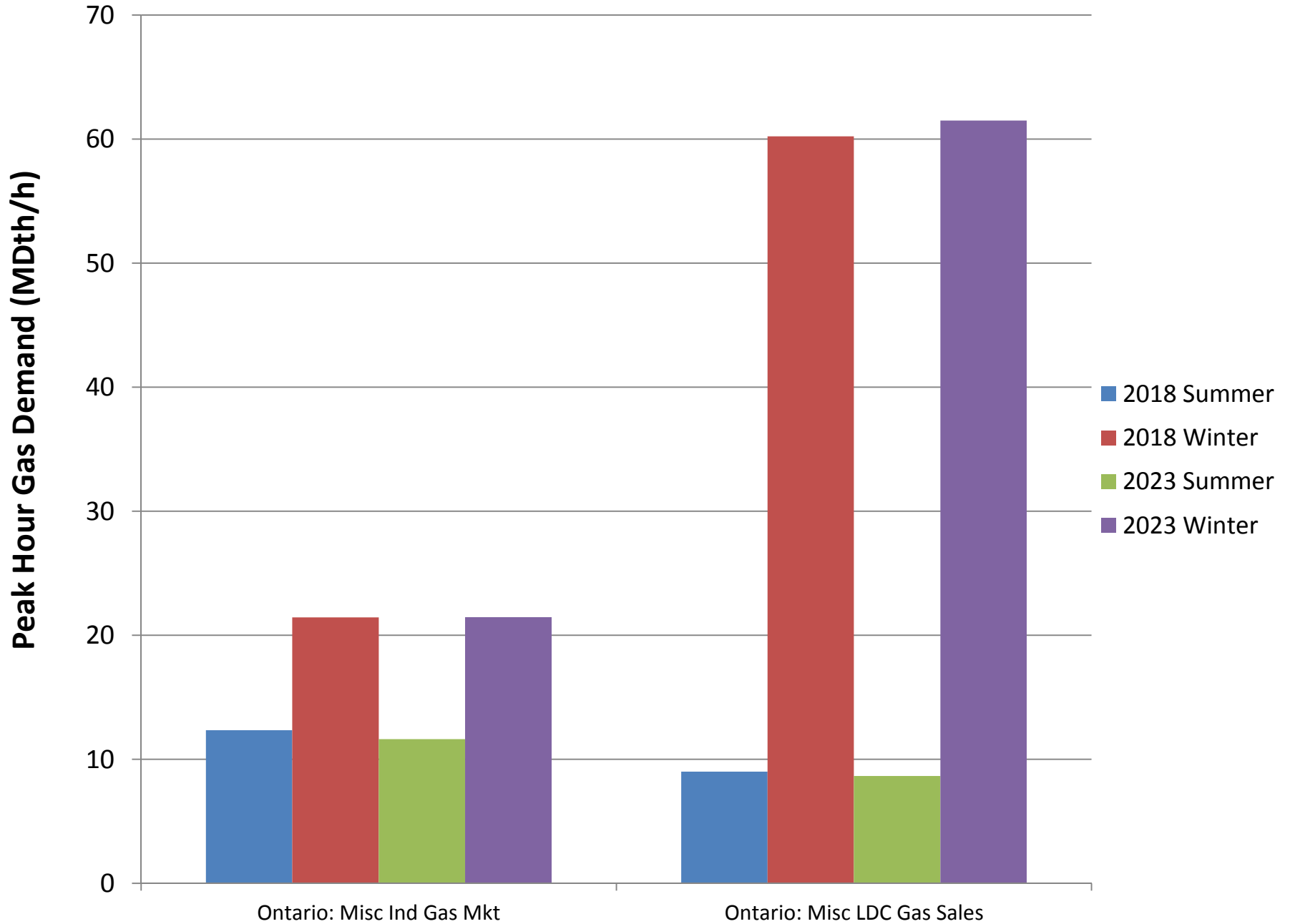
# Study Region



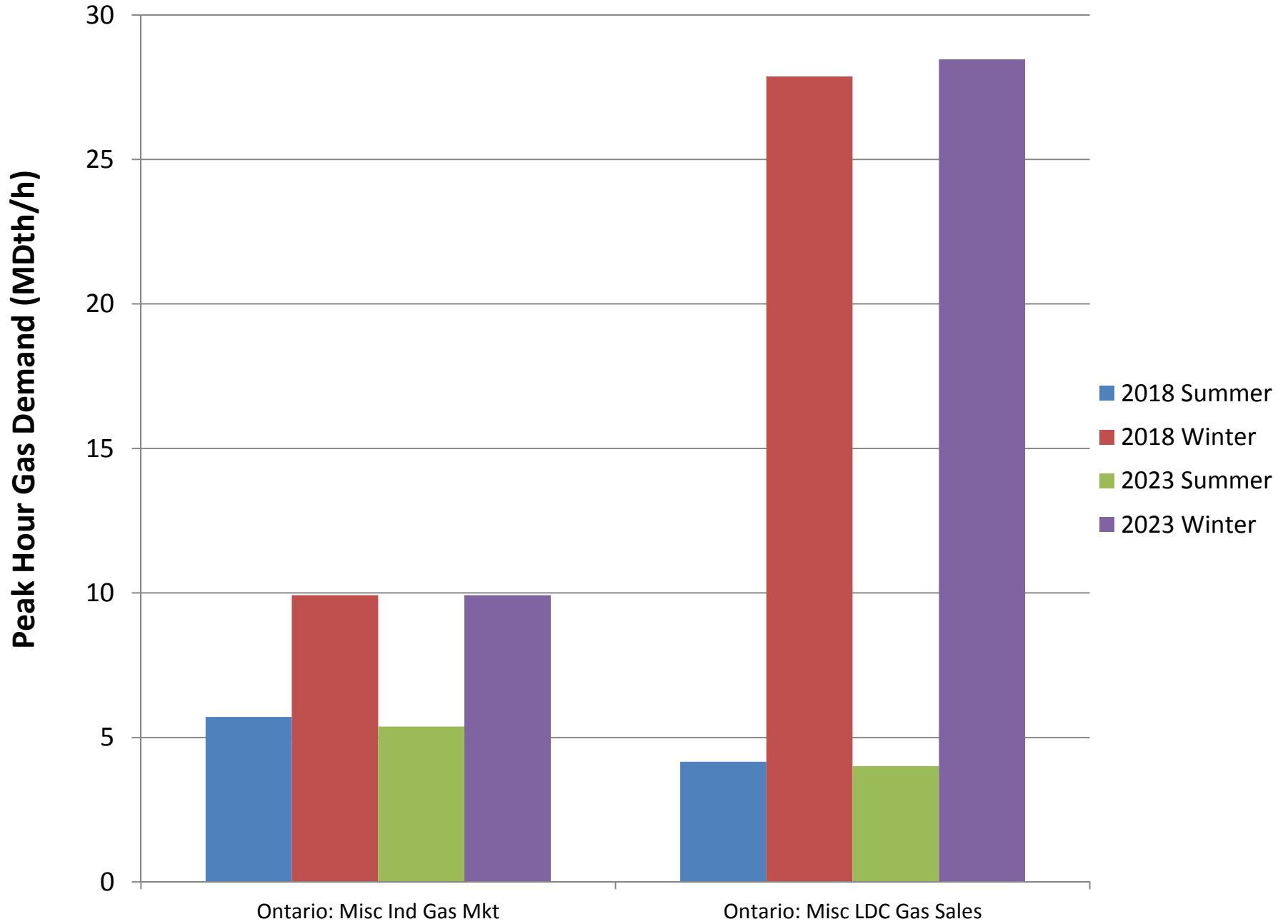
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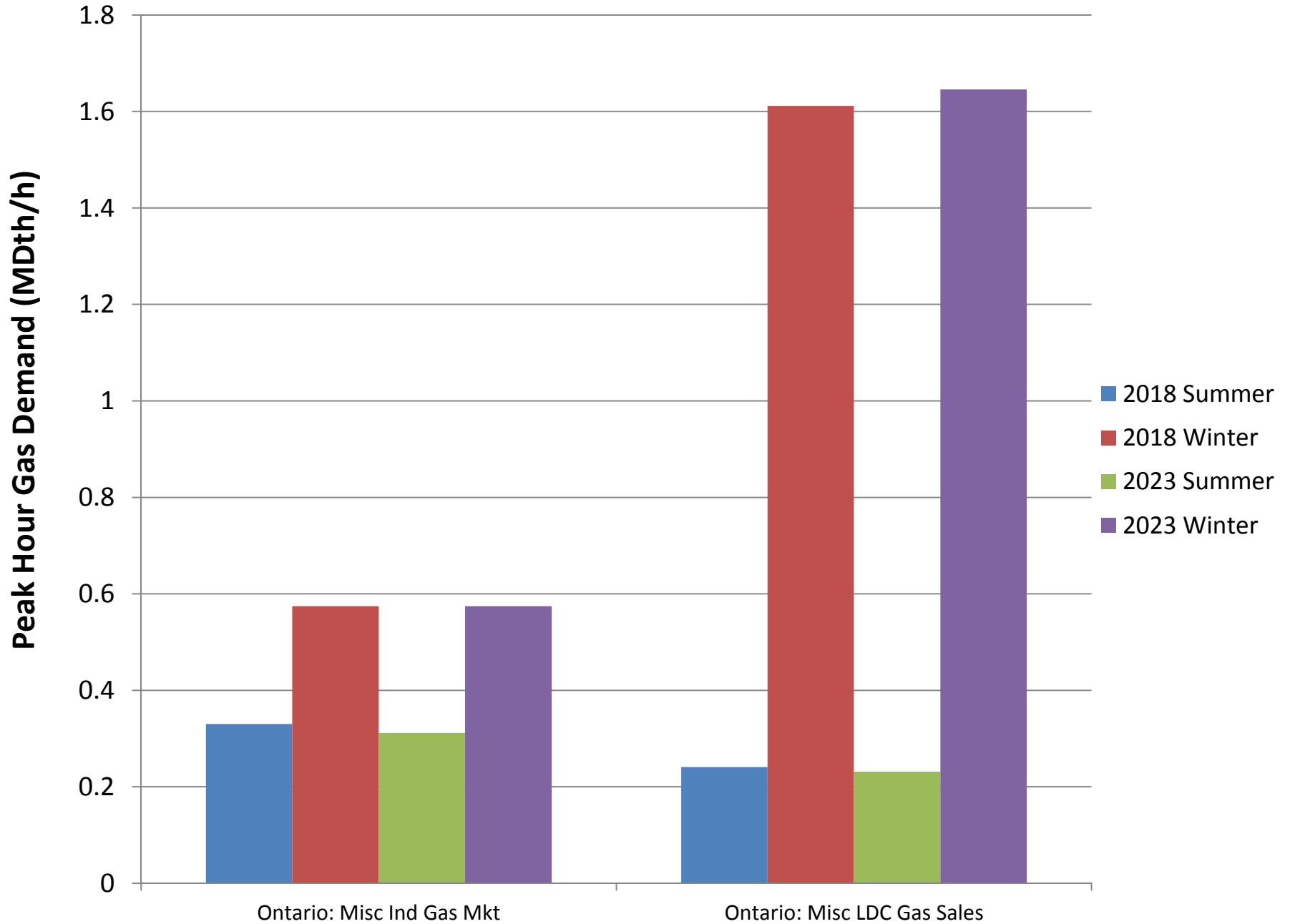
# Ontario (CDA)



# Ontario (EDA)

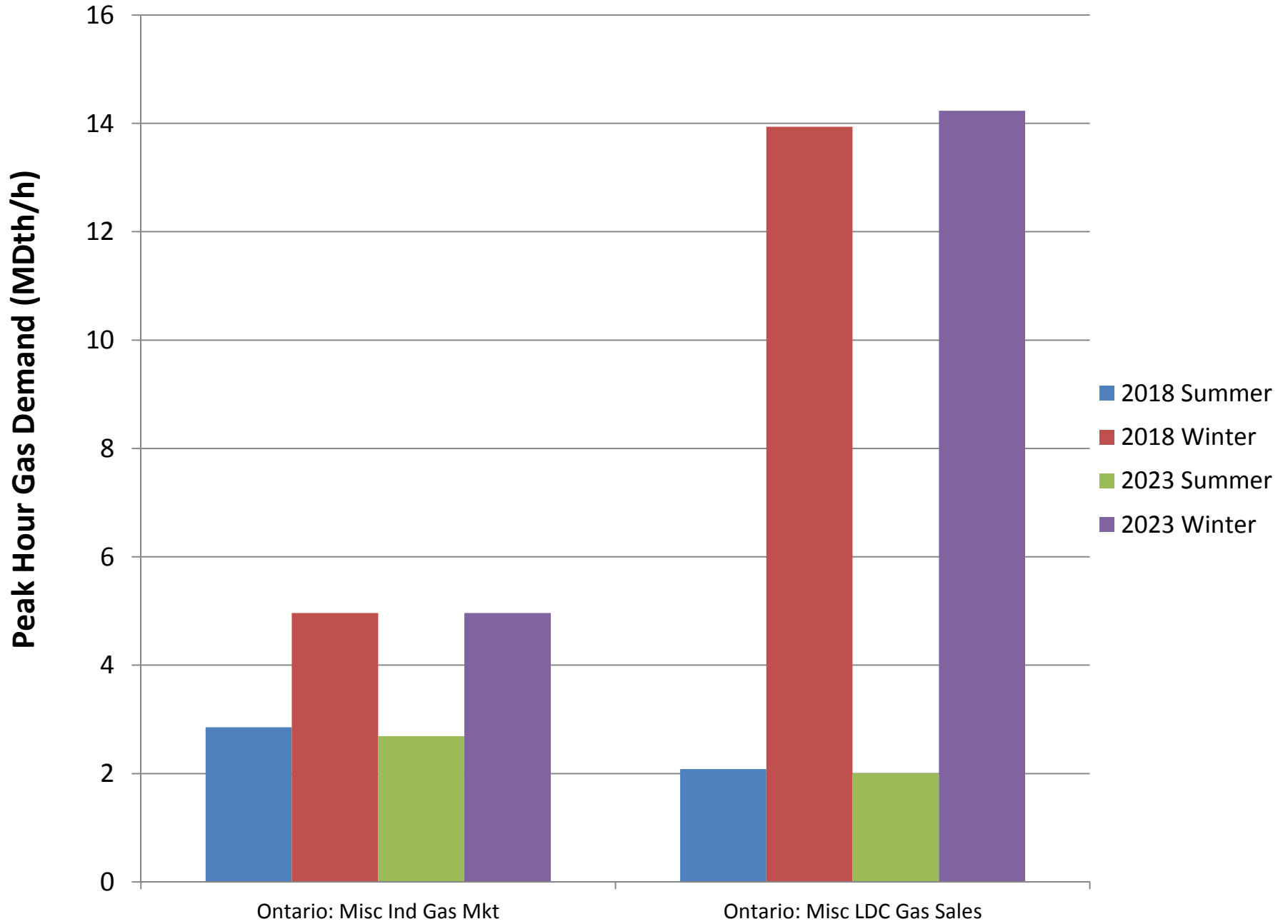


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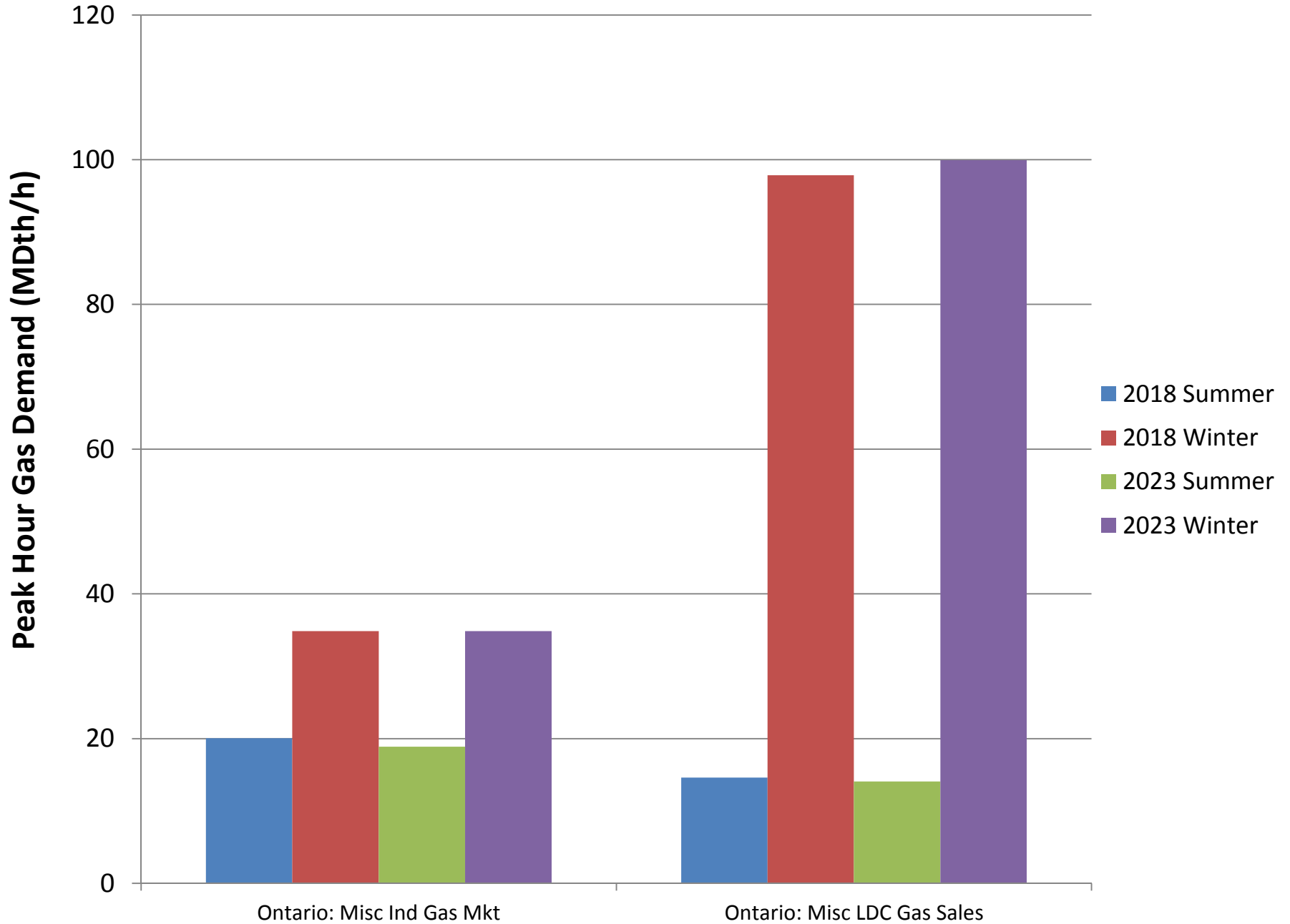




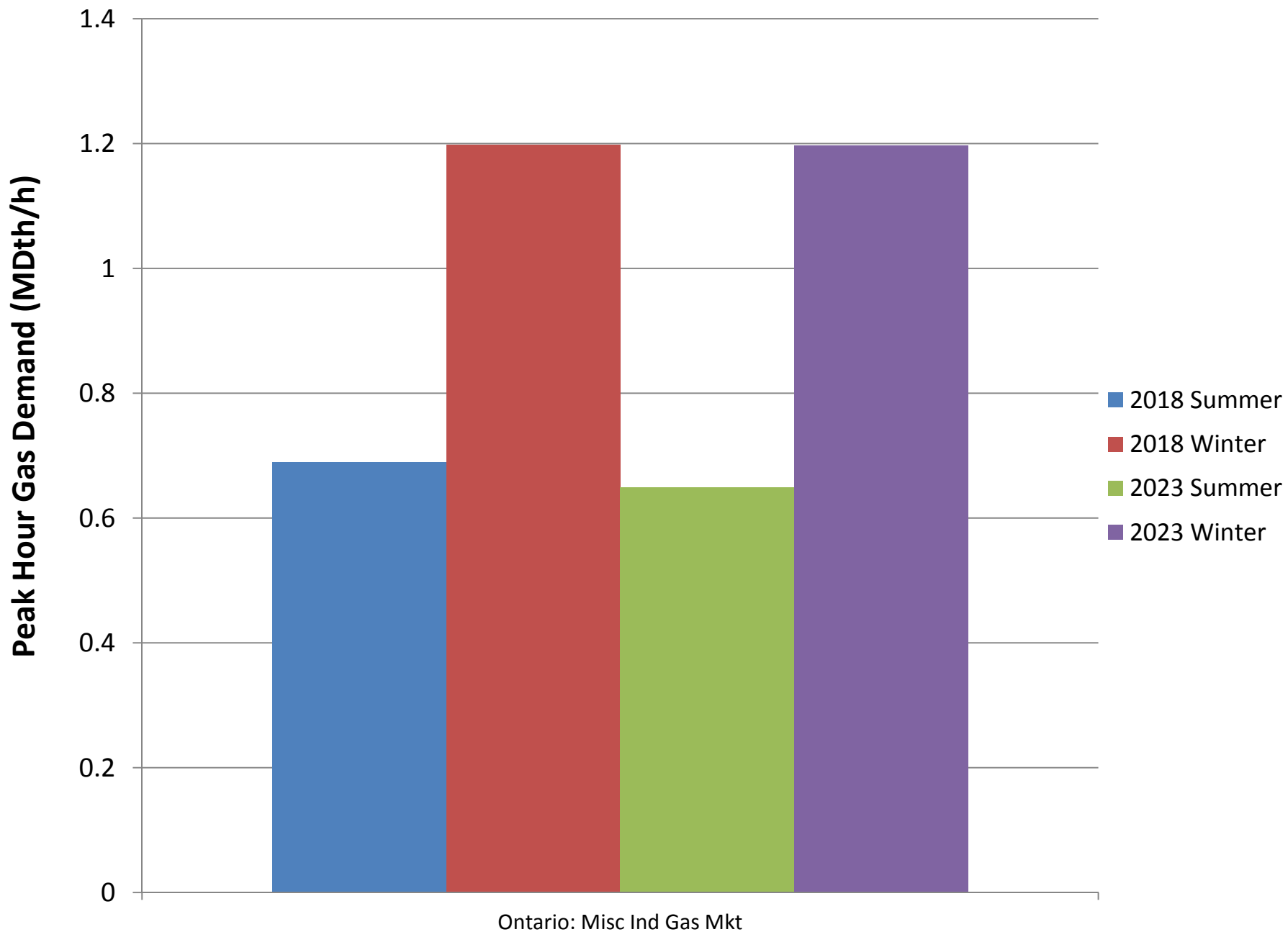
# Ontario (NDA)



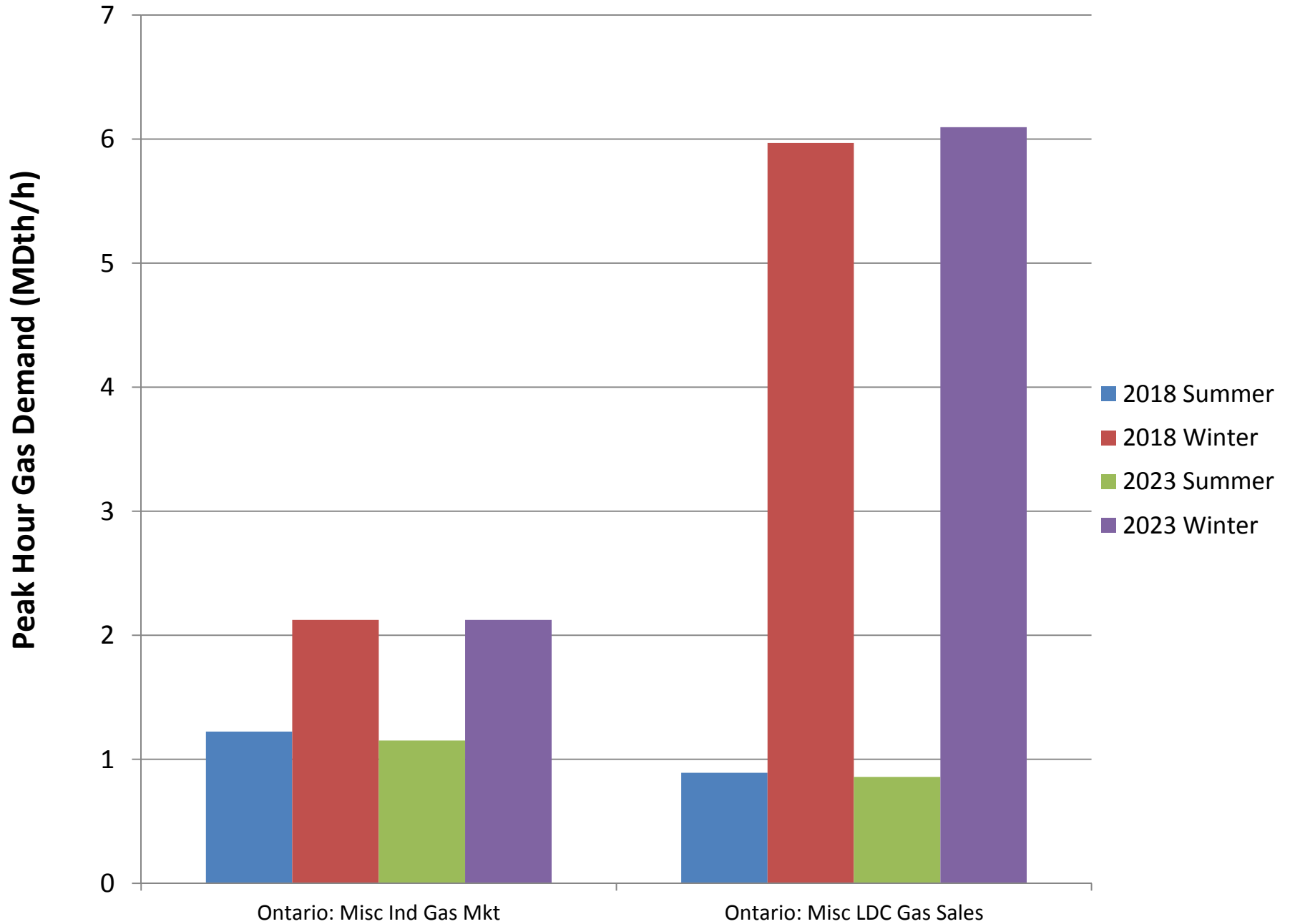
# Ontario (non-TC)



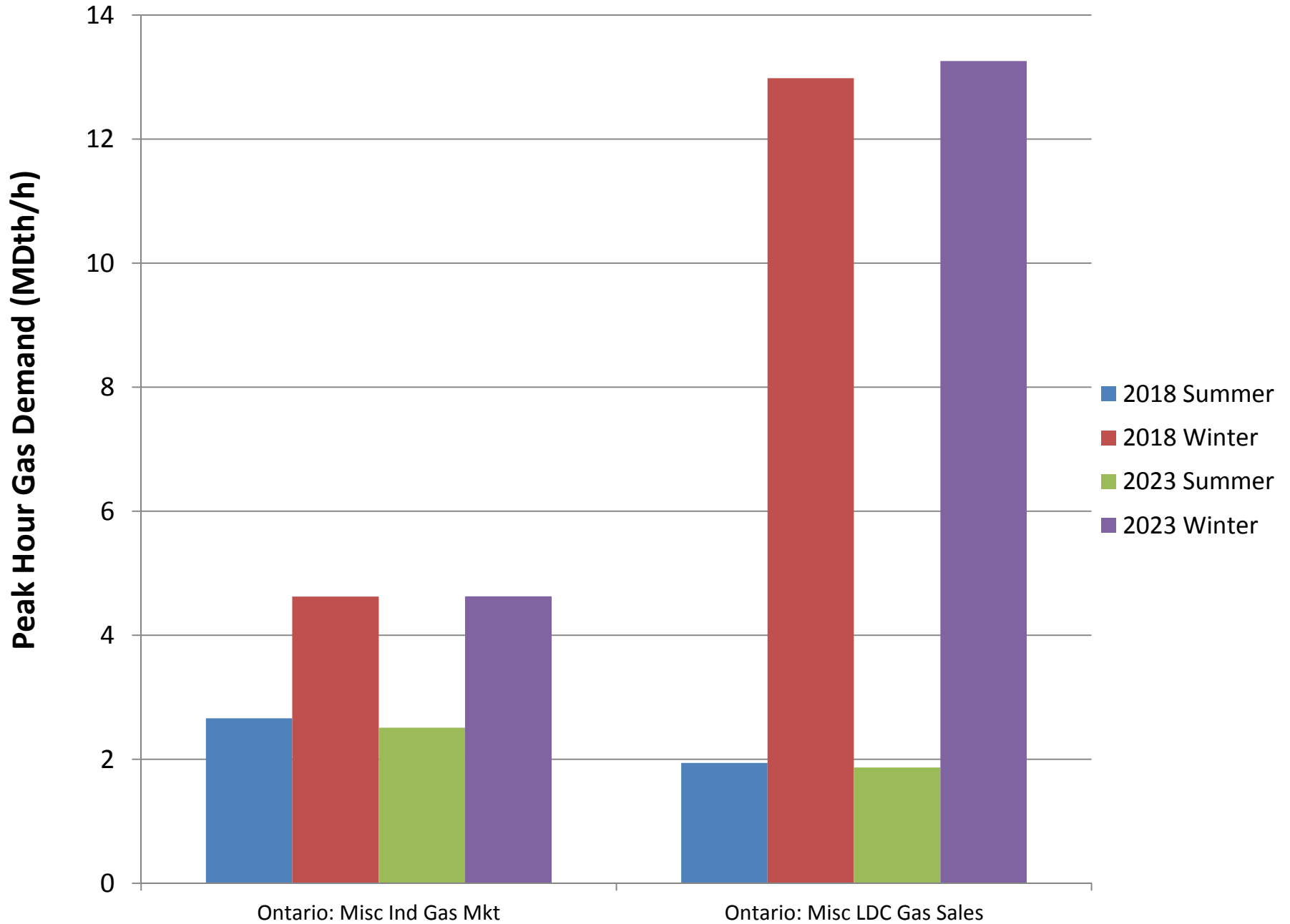
# Ontario (Spruce)



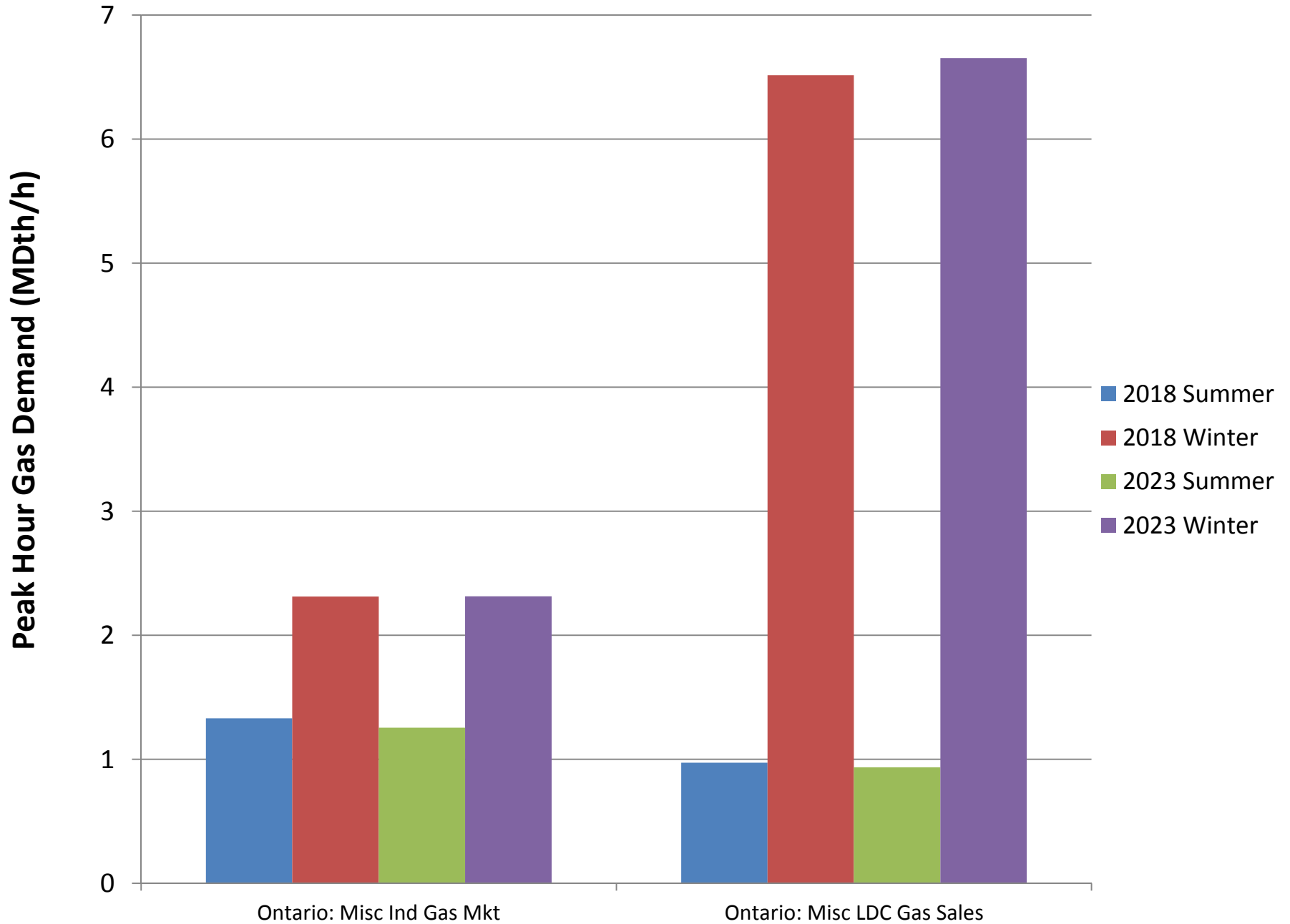
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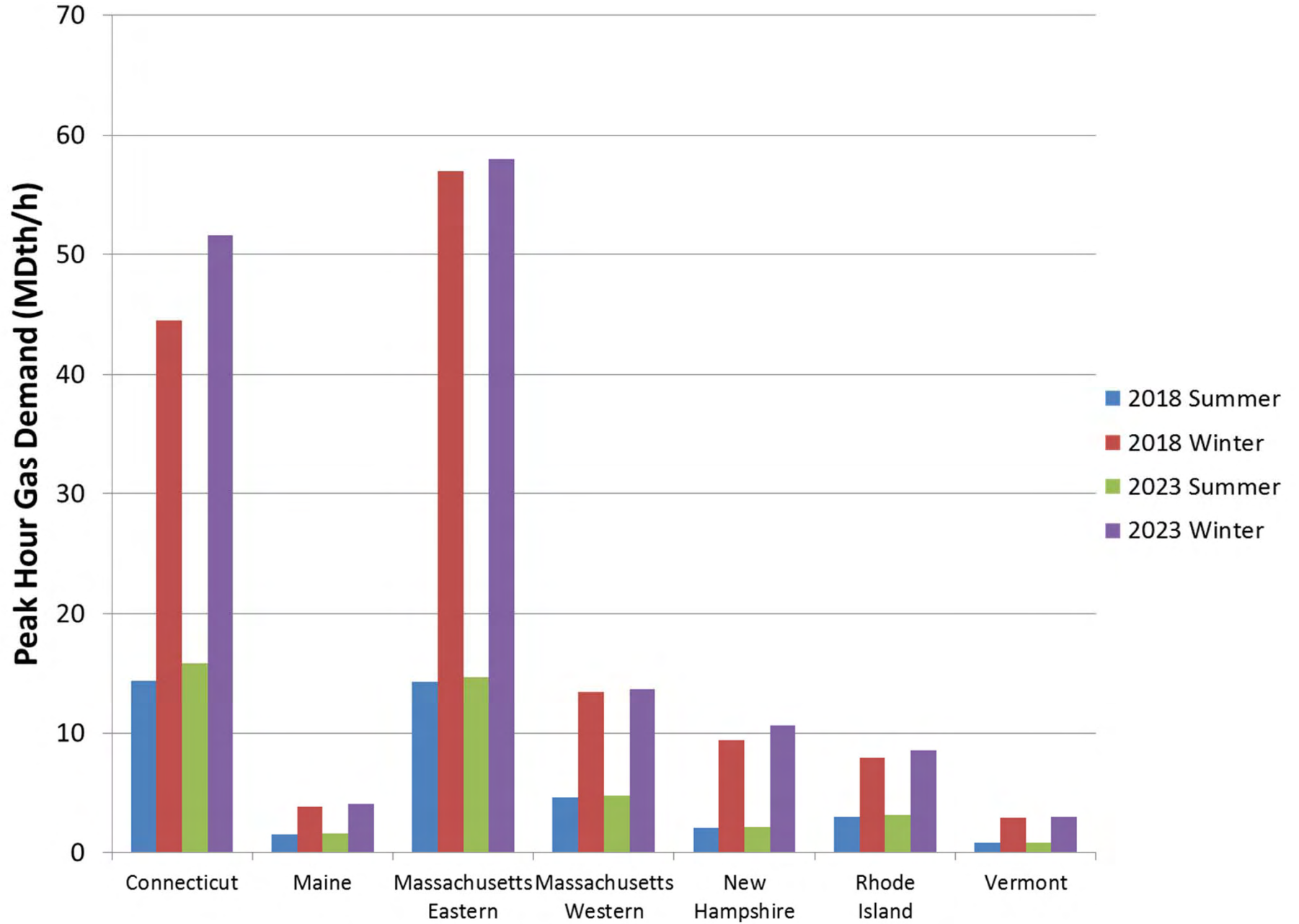
# Ontario (St Clair)



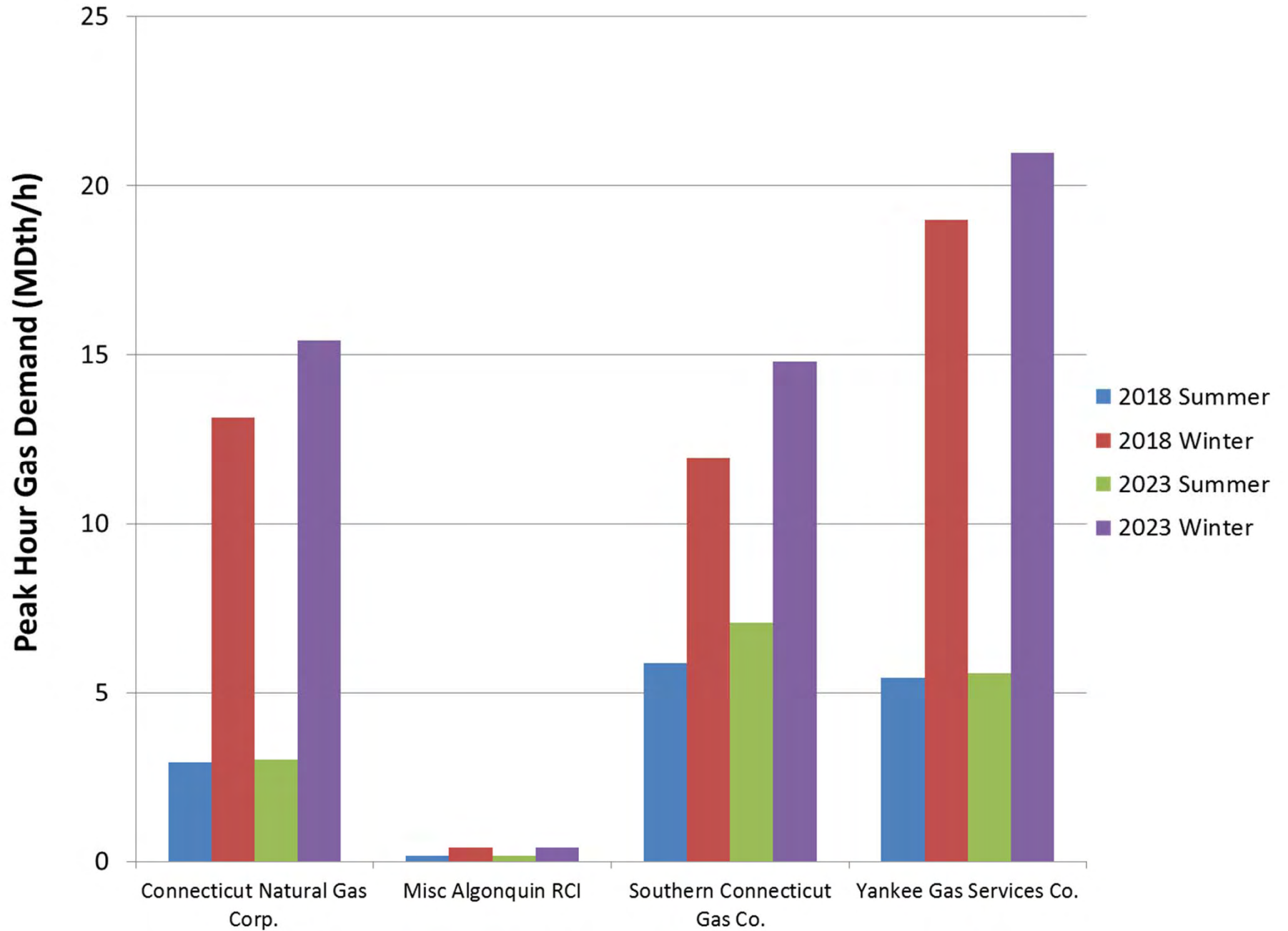
# Ontario (WDA)



# ISO-NE

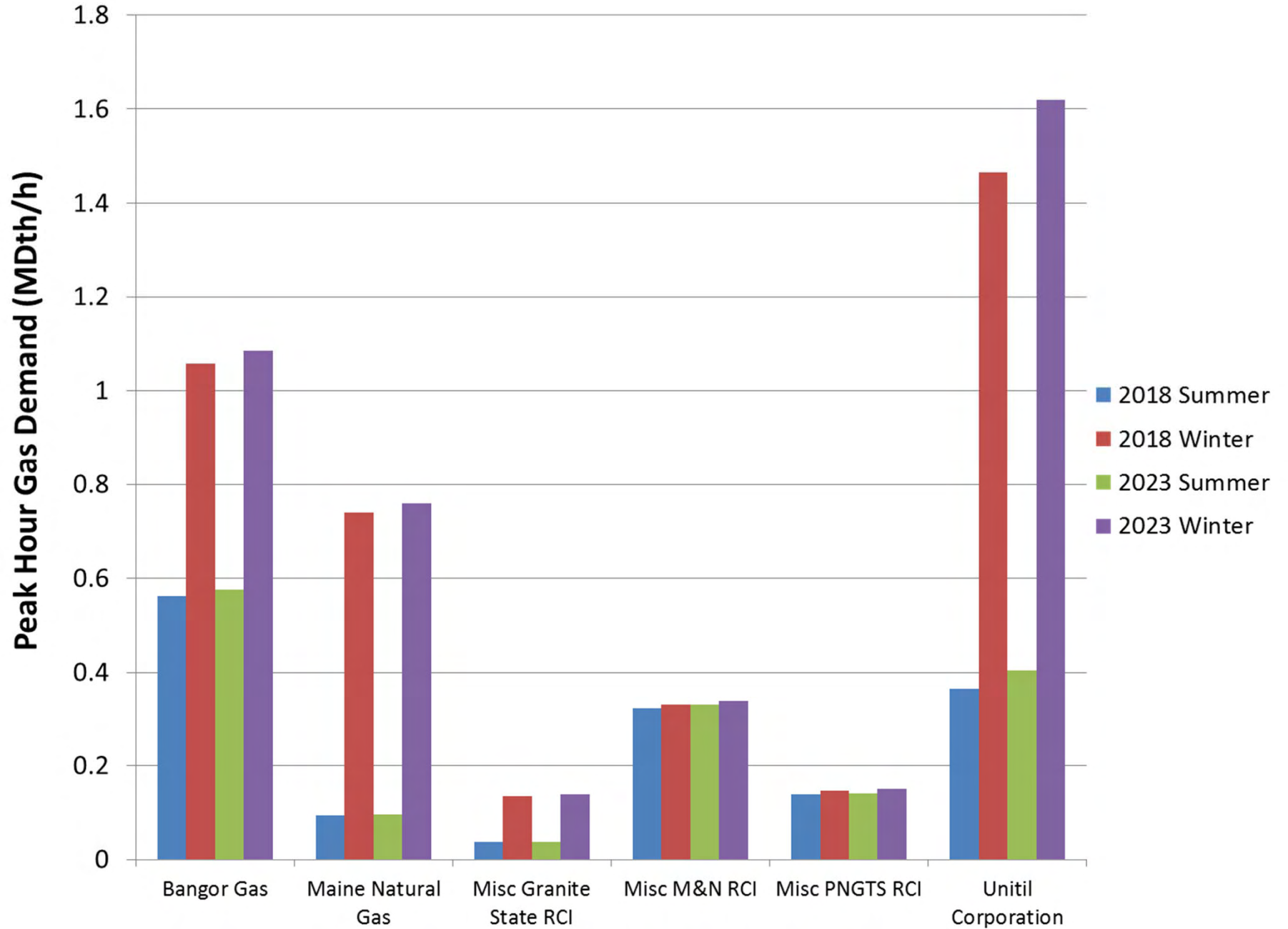


# Connecticut

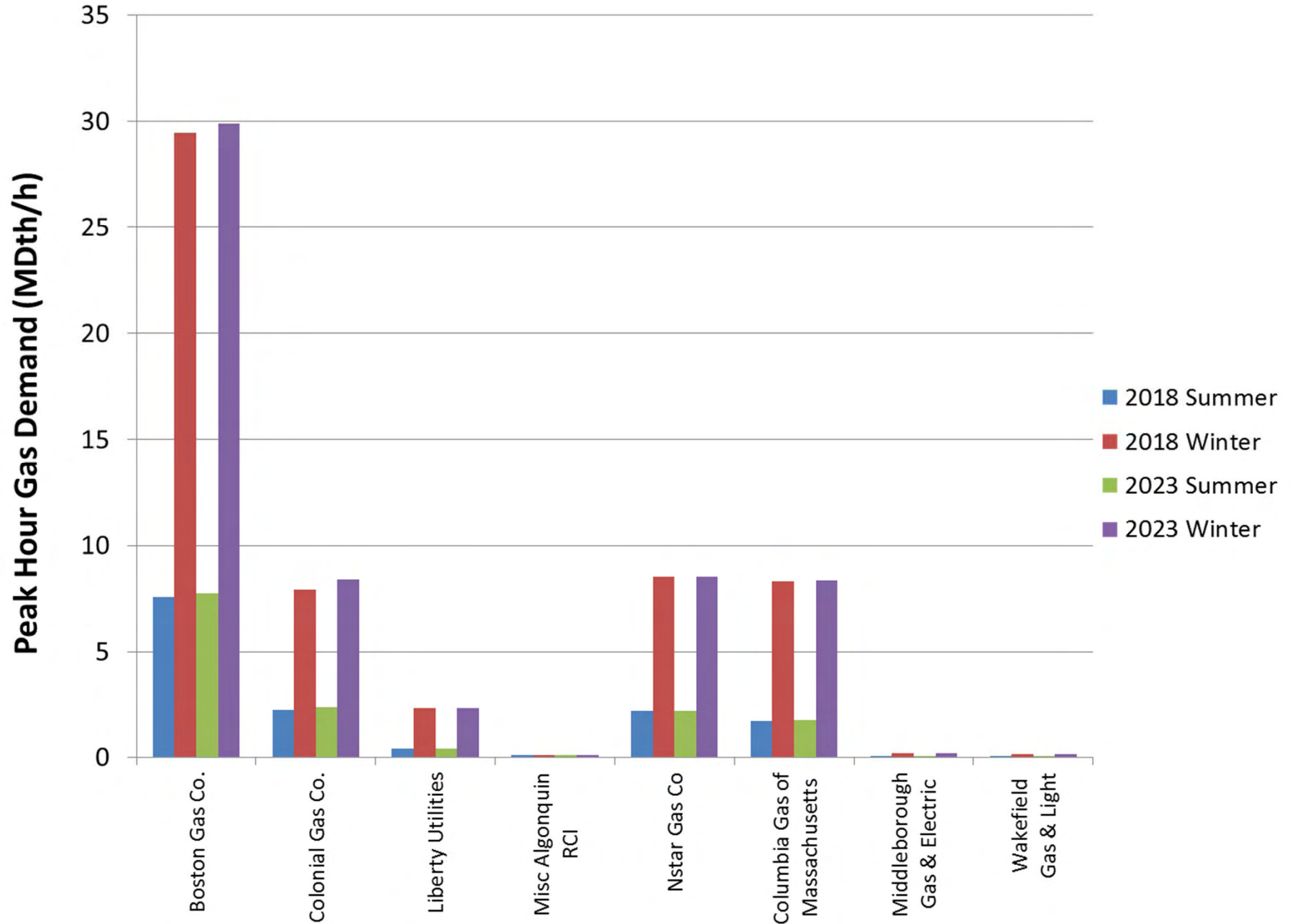




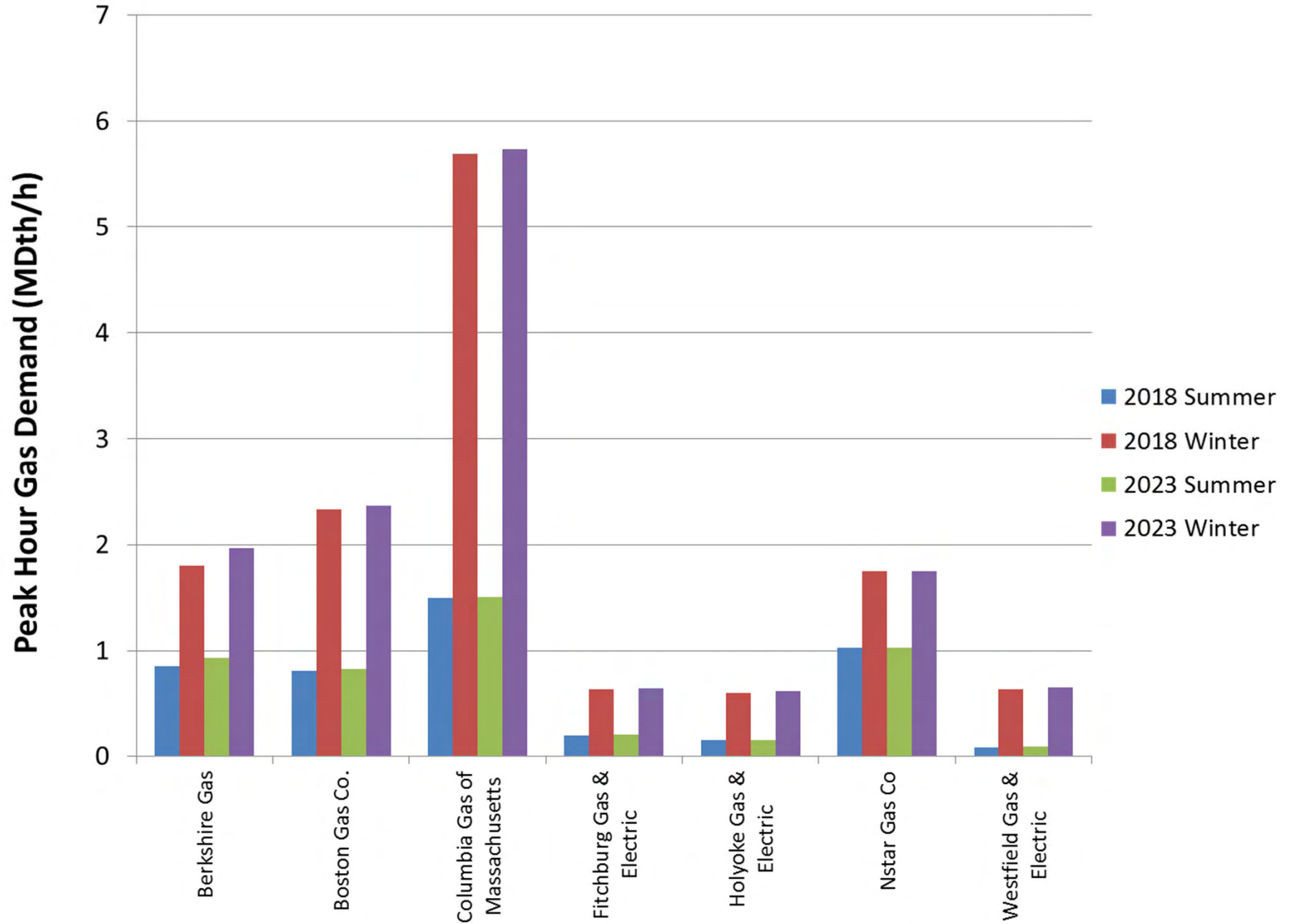
# Maine



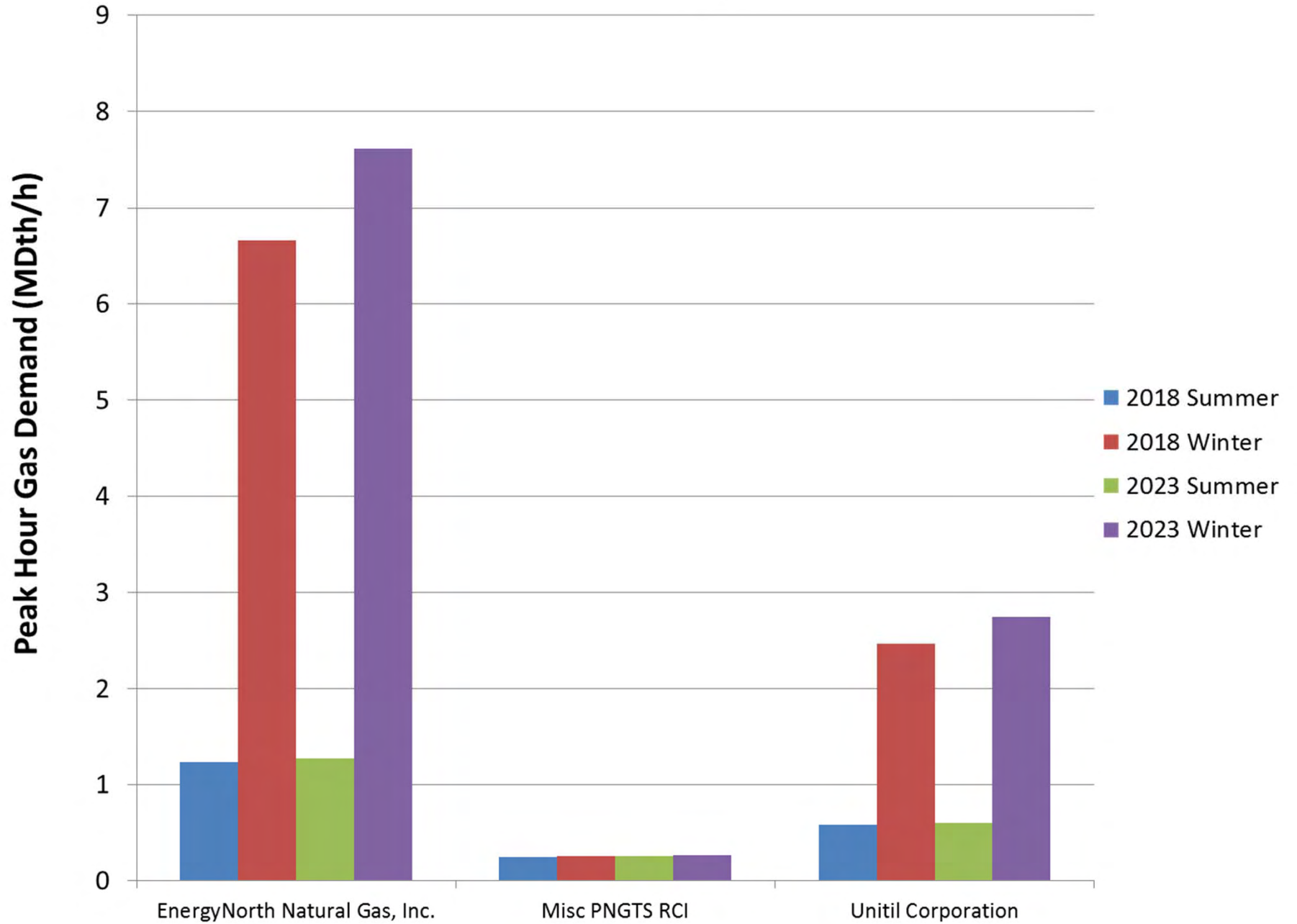
# Massachusetts Eastern



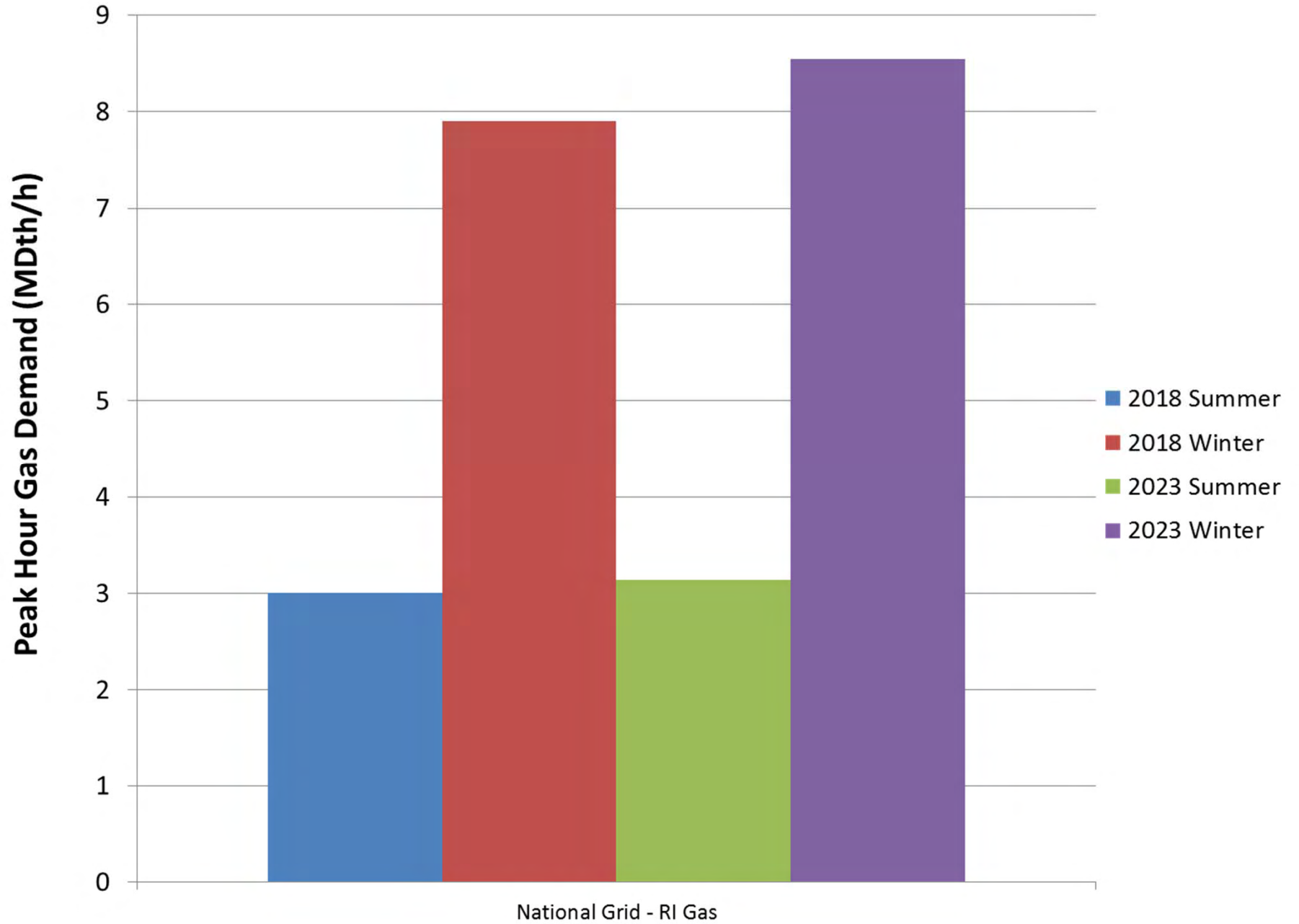
# Massachusetts Western



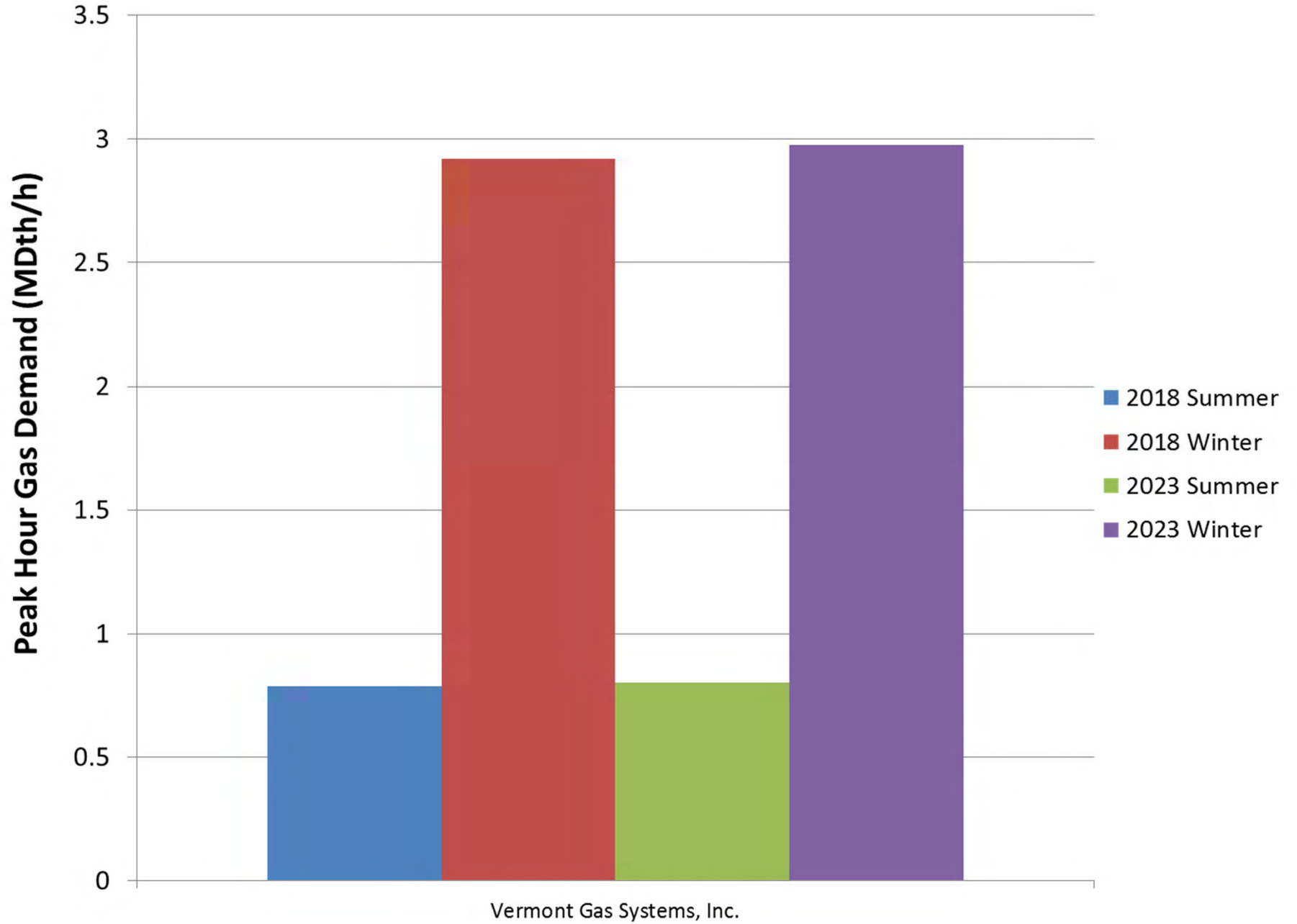
# New Hampshire



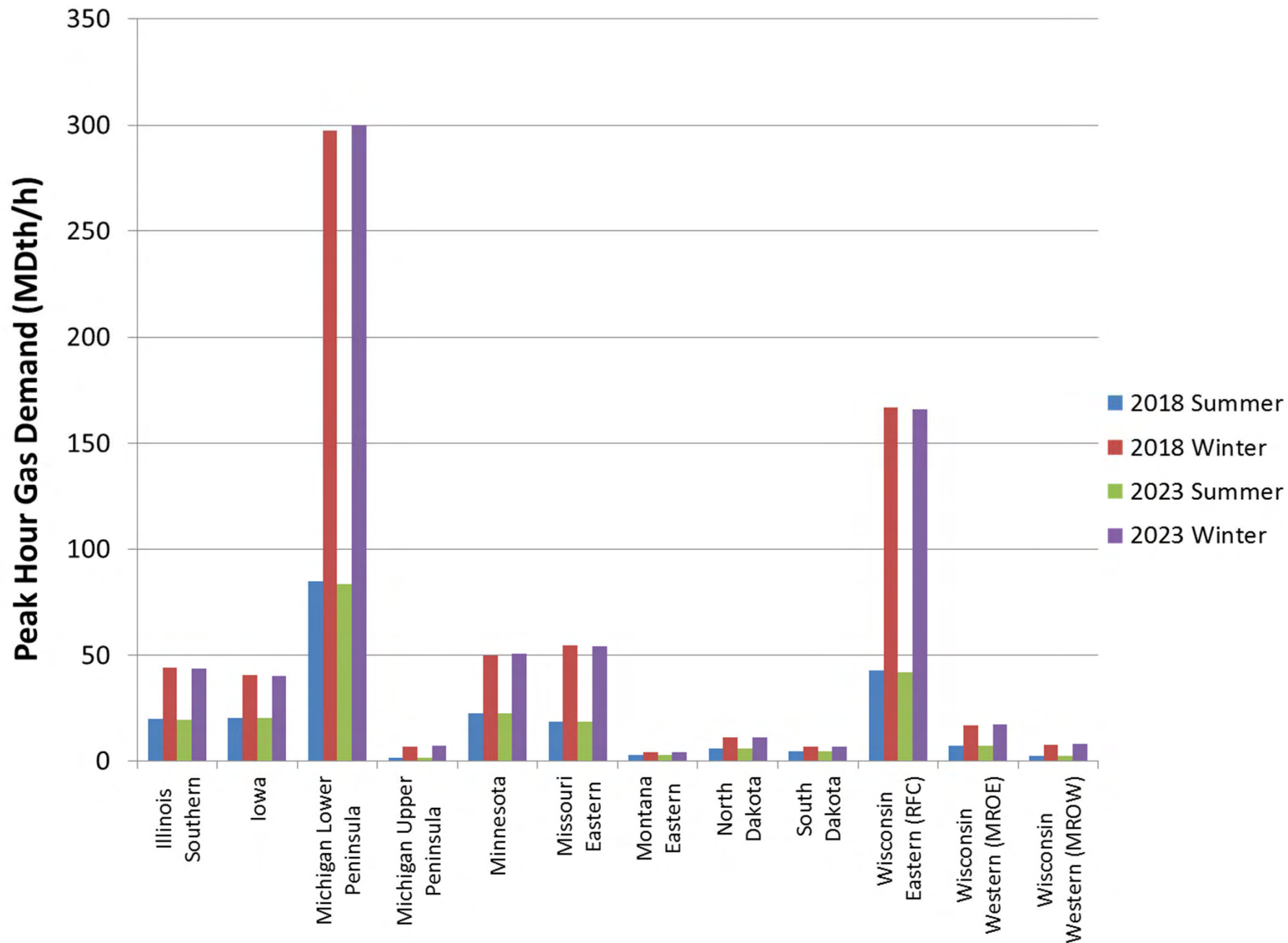
# Rhode Island



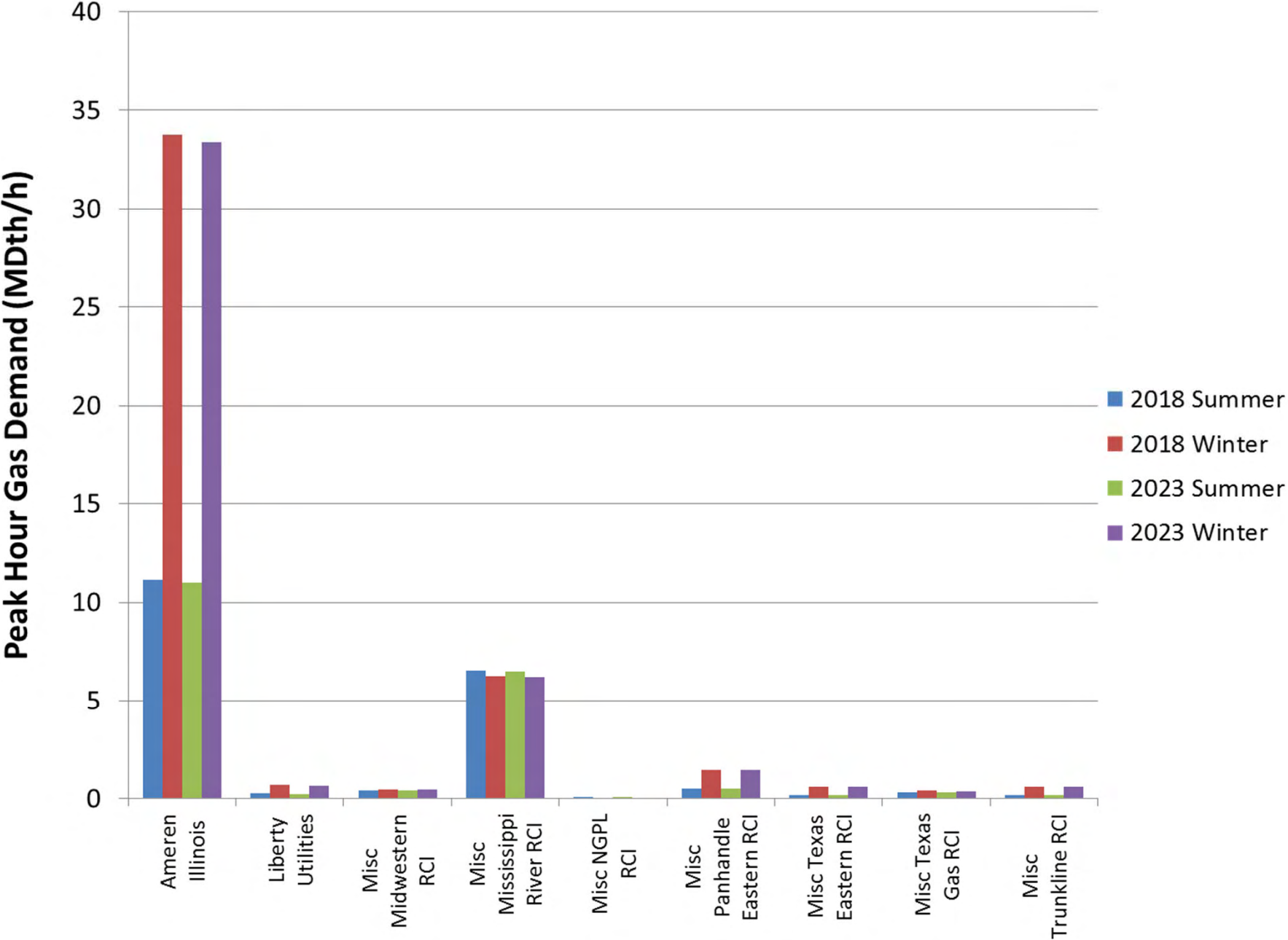
# Vermont



# MISO North/Central

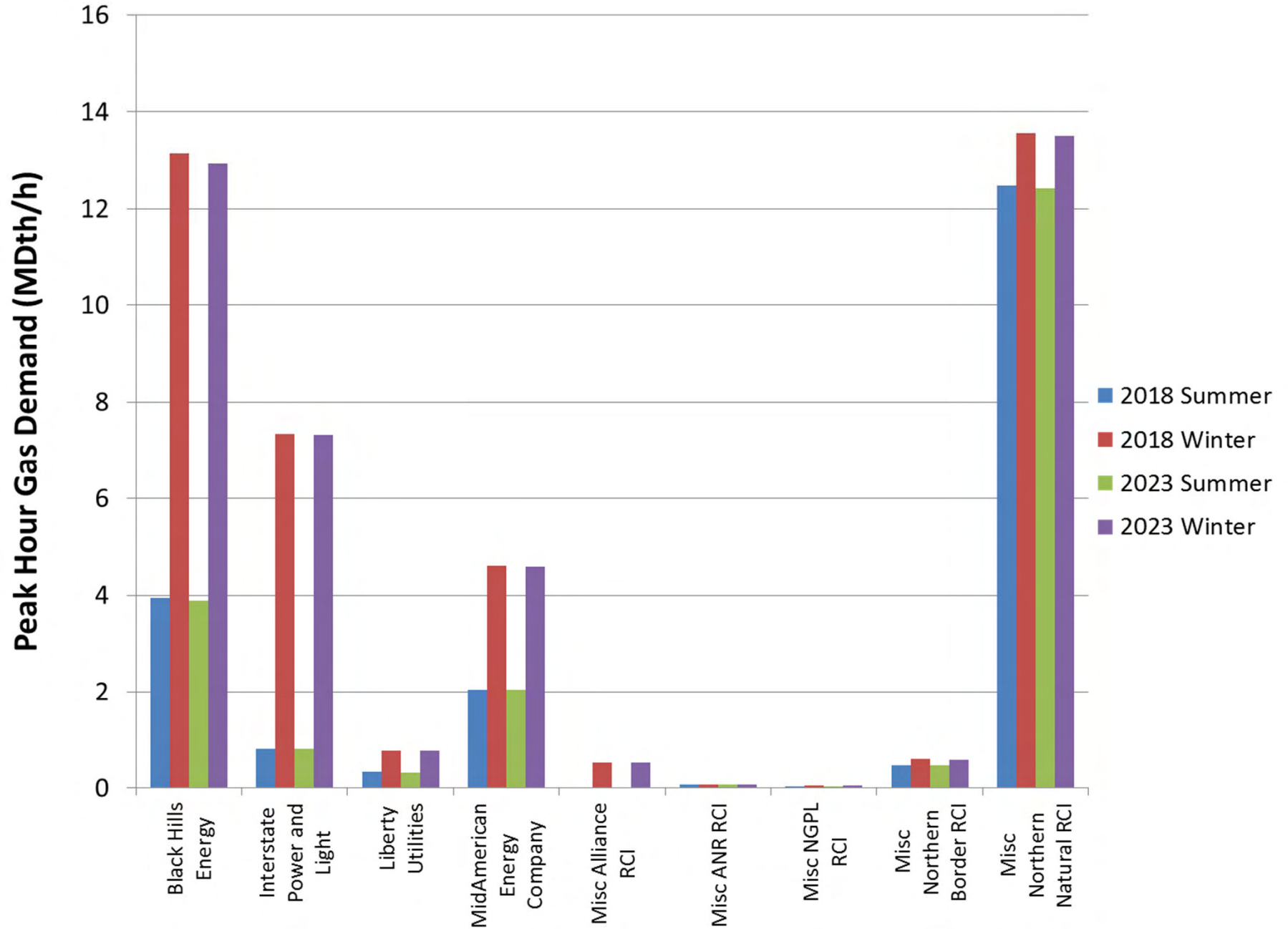


# Illinois Southern

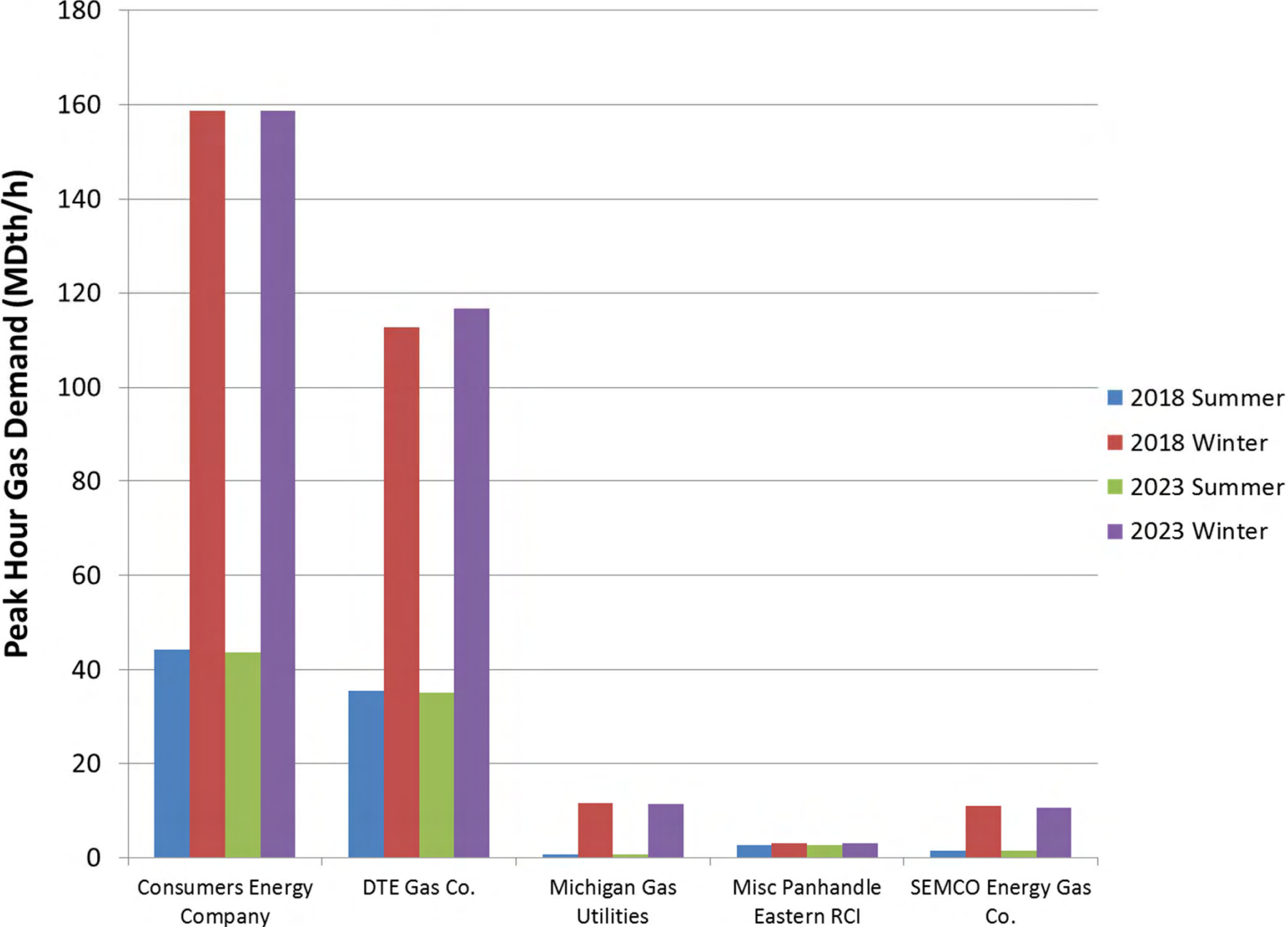




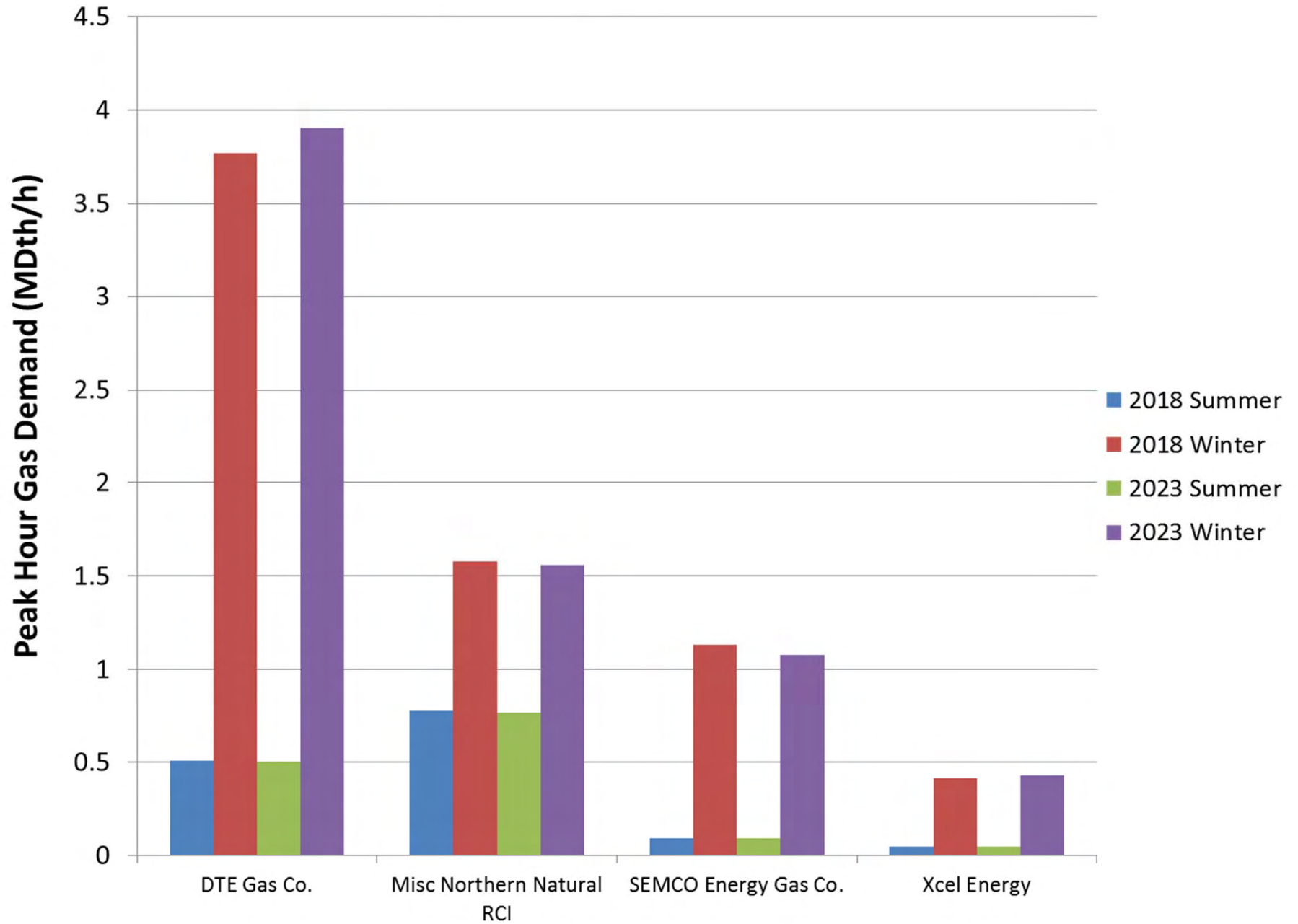
# Iowa



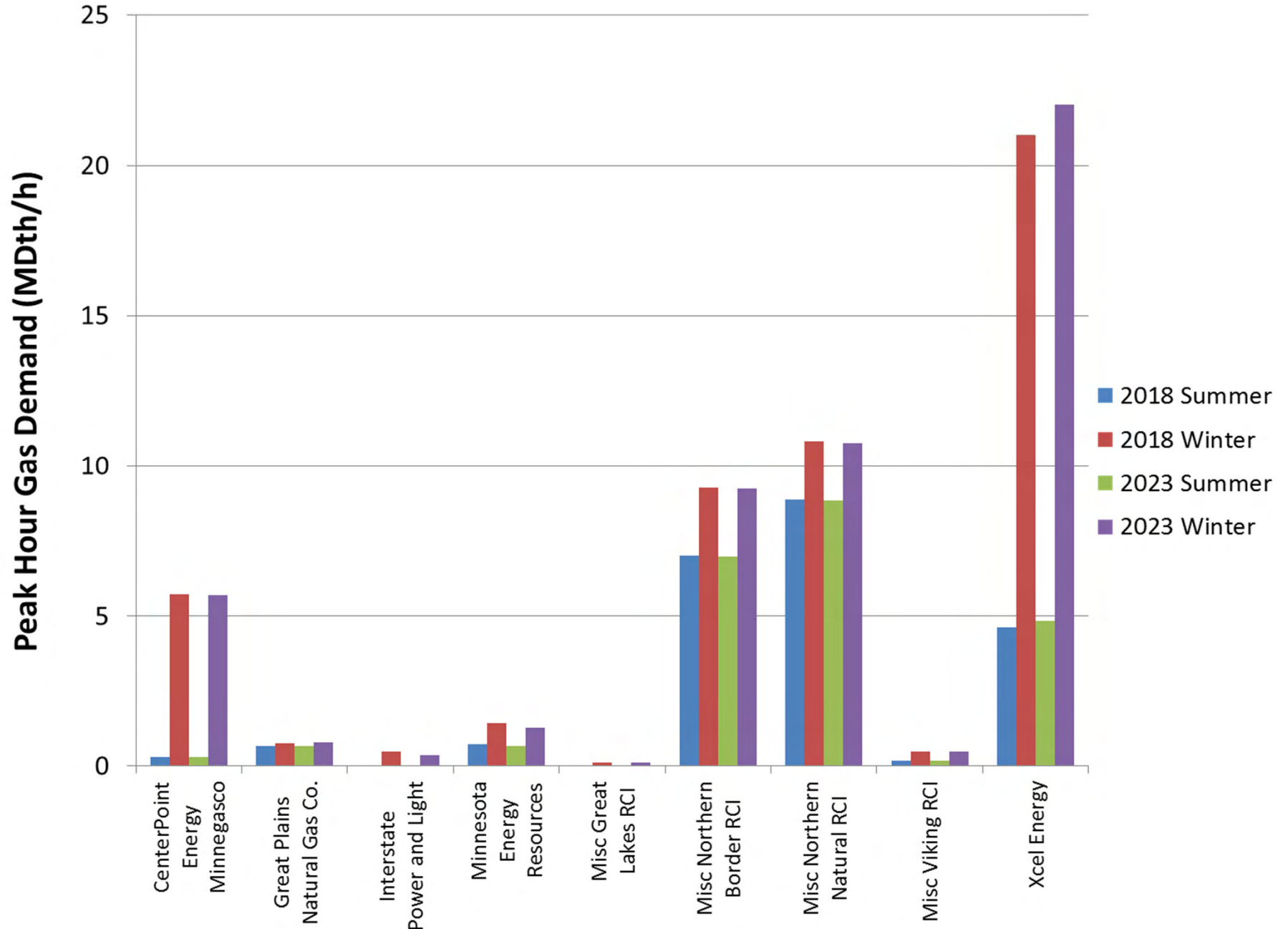
# Michigan Lower Peninsula



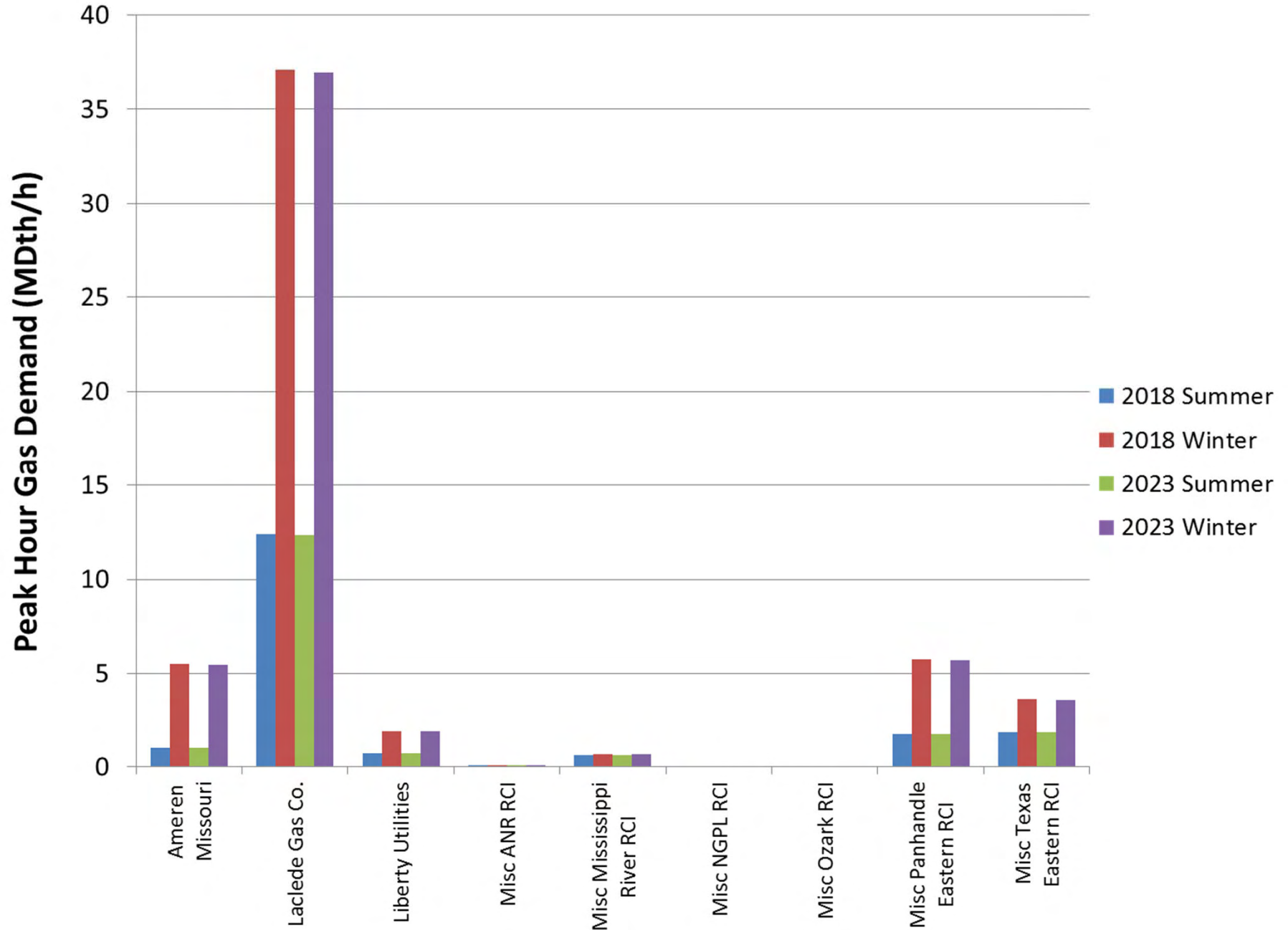
# Michigan Upper Peninsula



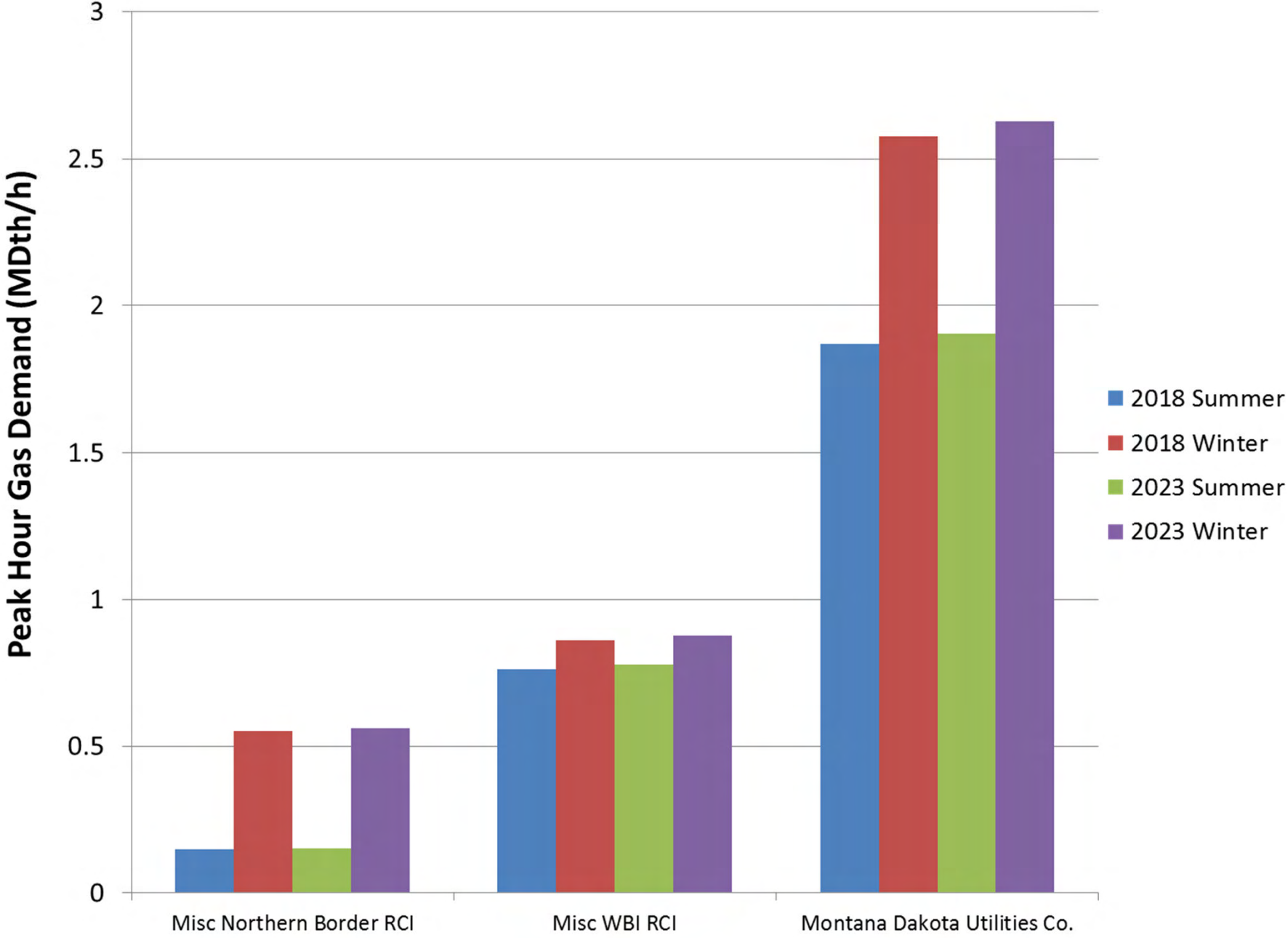
# Minnesota



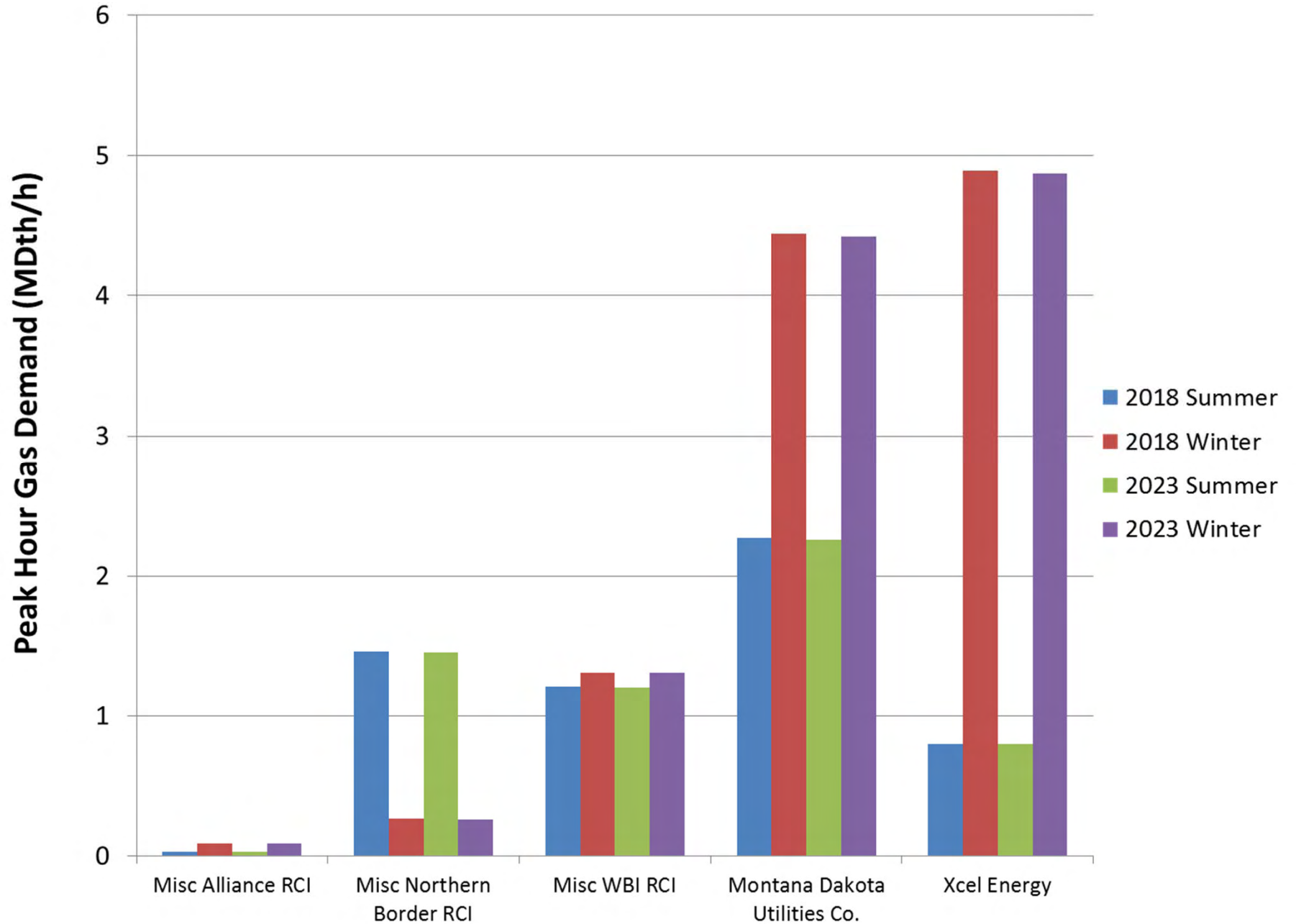
# Missouri Eastern



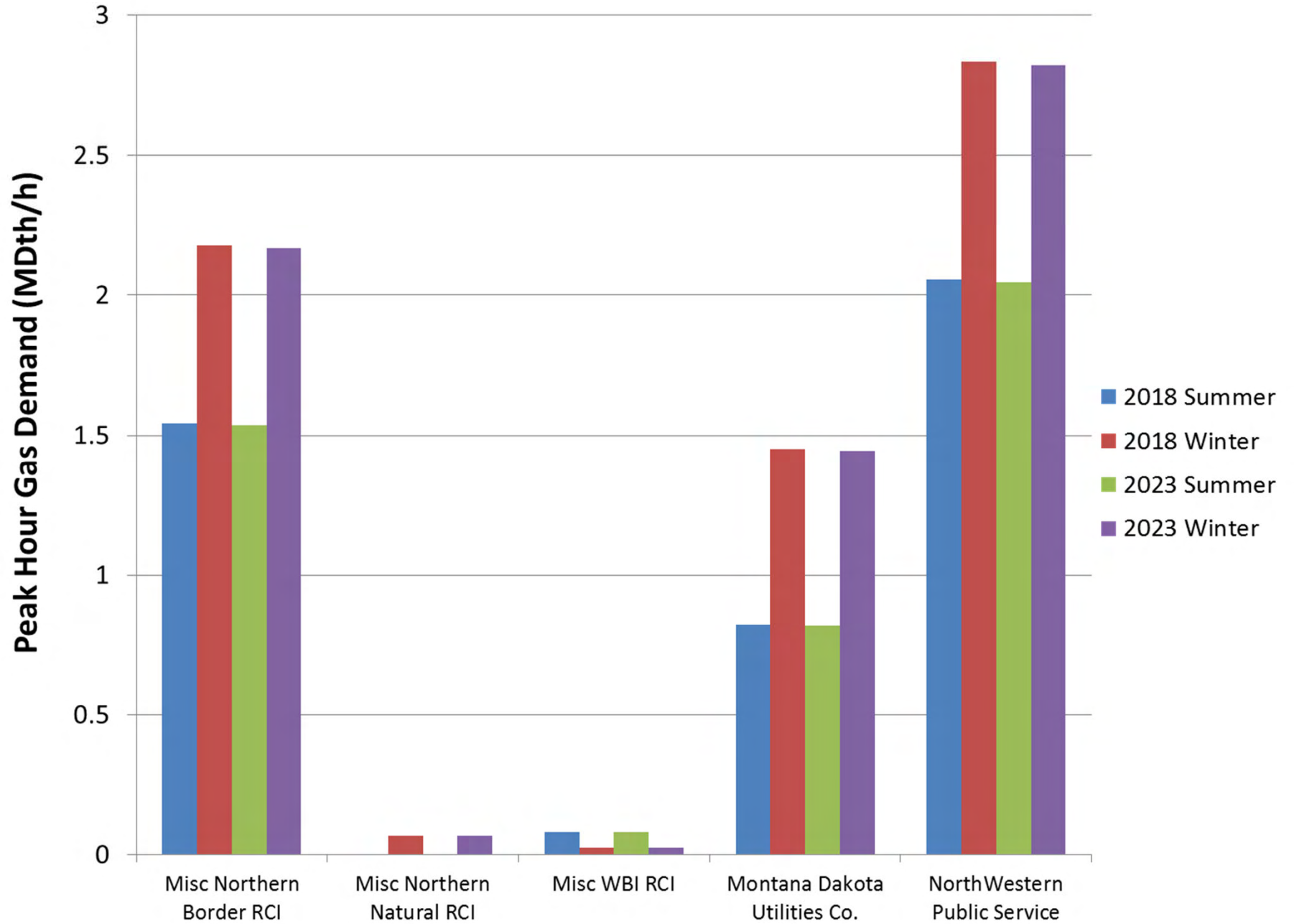
# Montana Eastern



# North Dakota

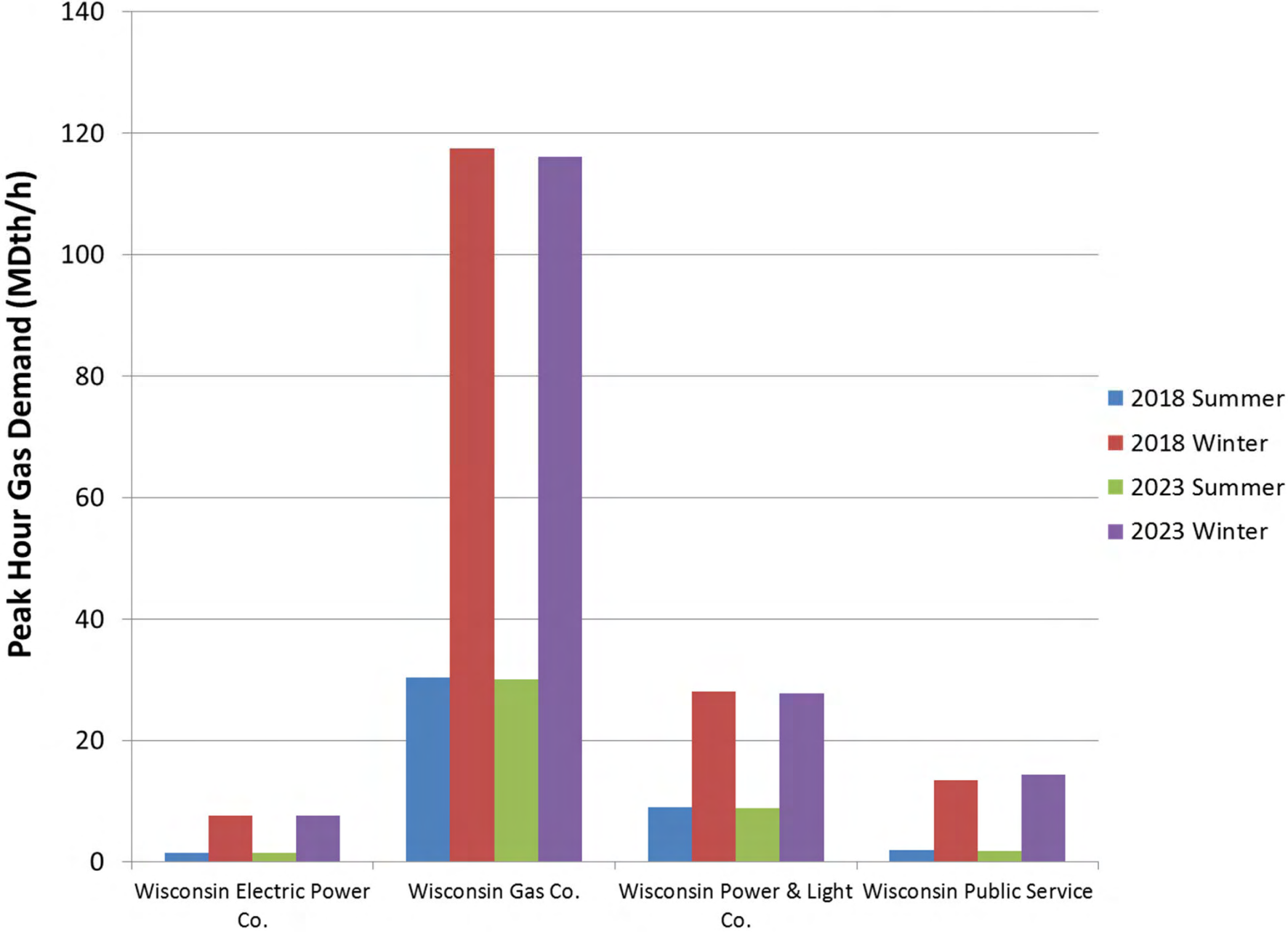


# South Dakota

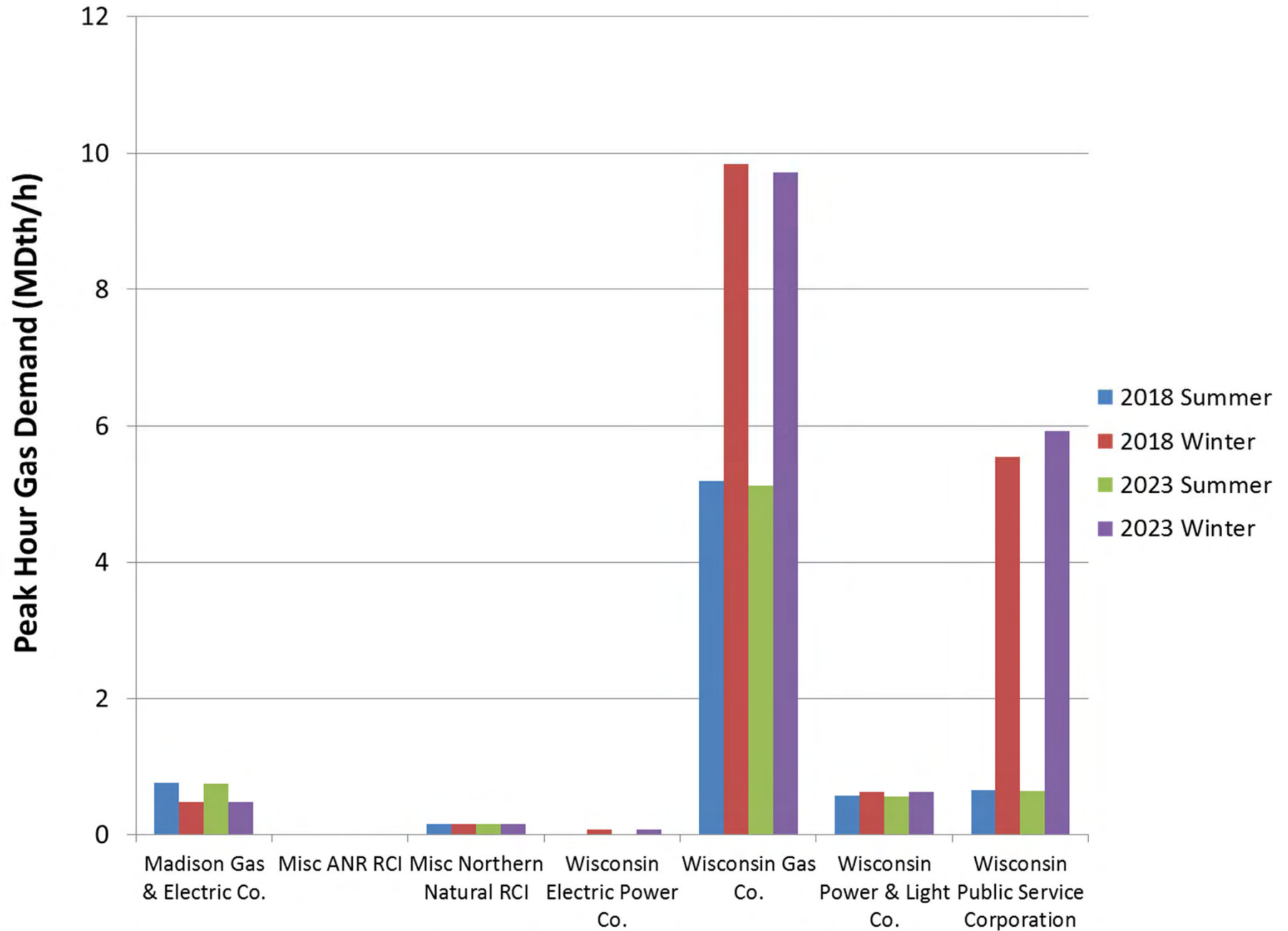




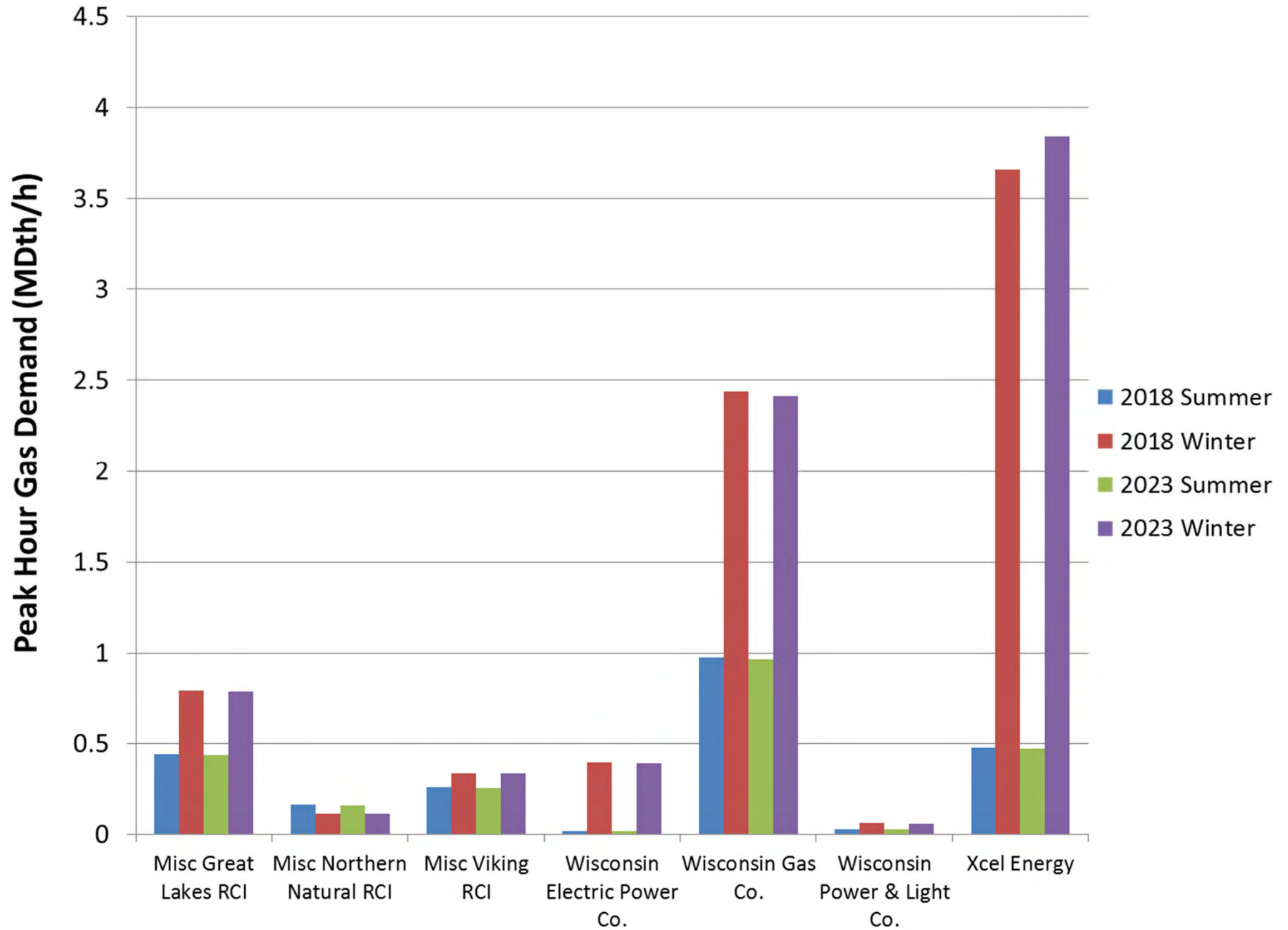
# Wisconsin Eastern (RFC)



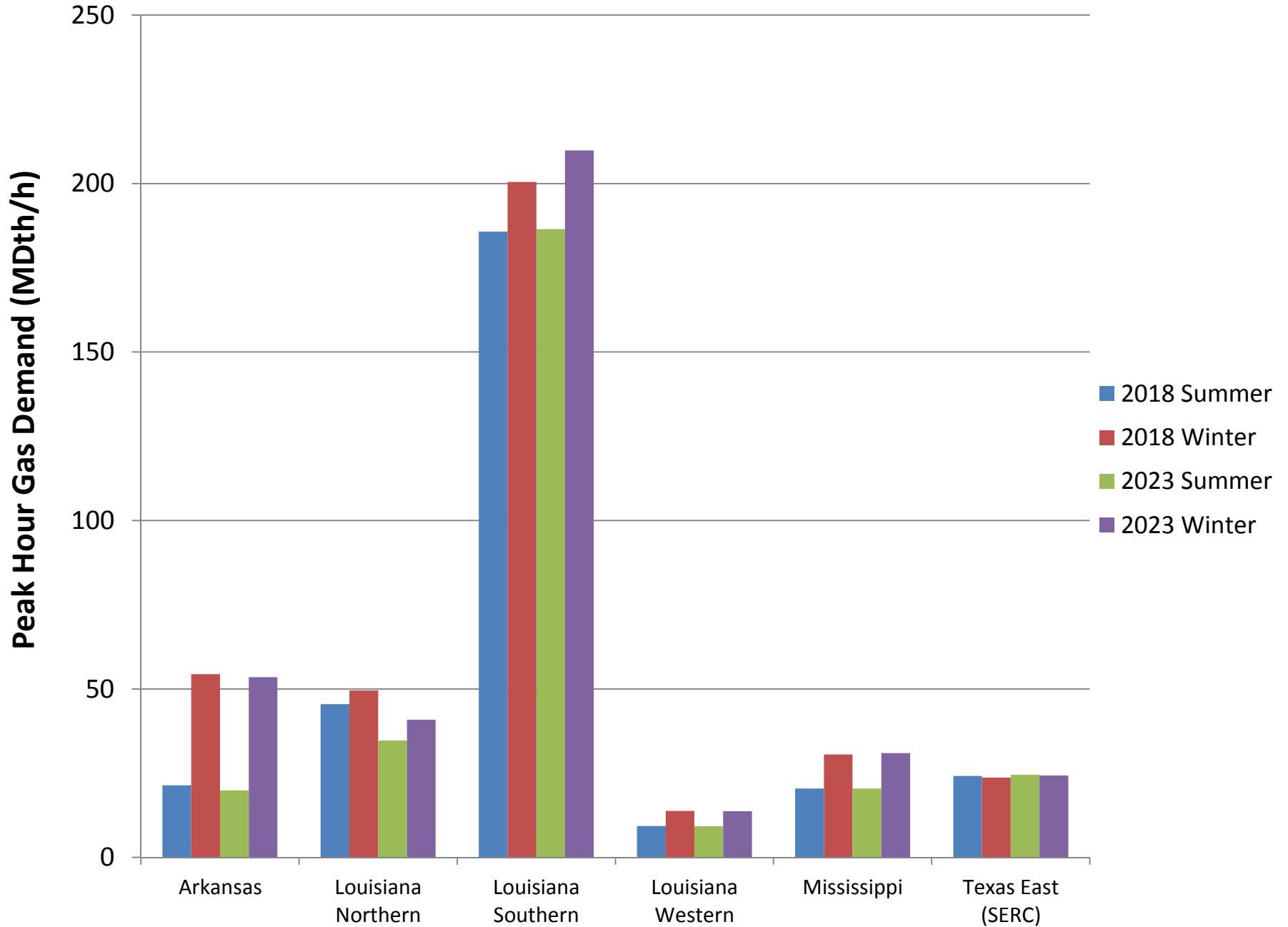
# Wisconsin Western (MROE)



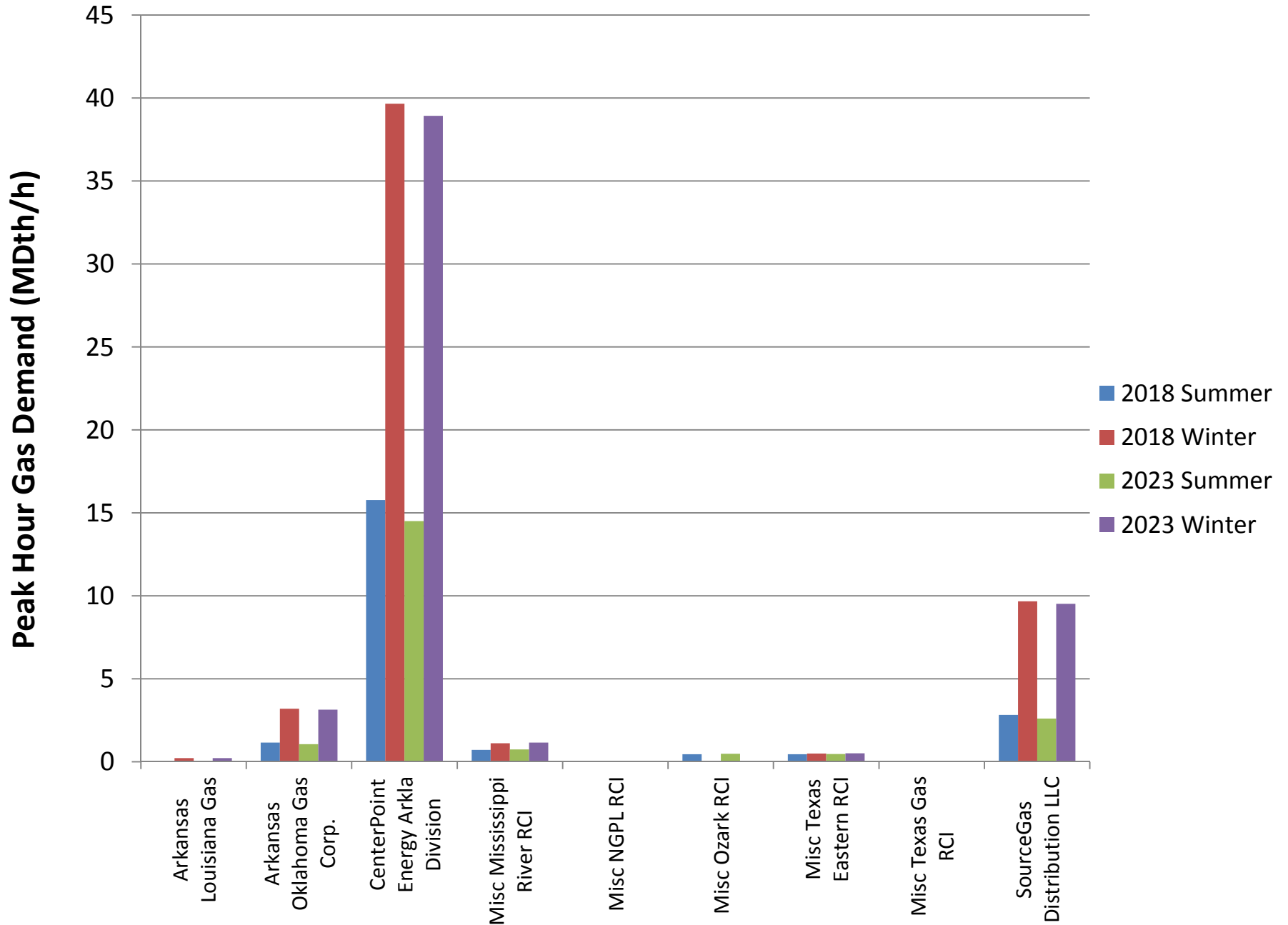
# Wisconsin Eastern (MROW)



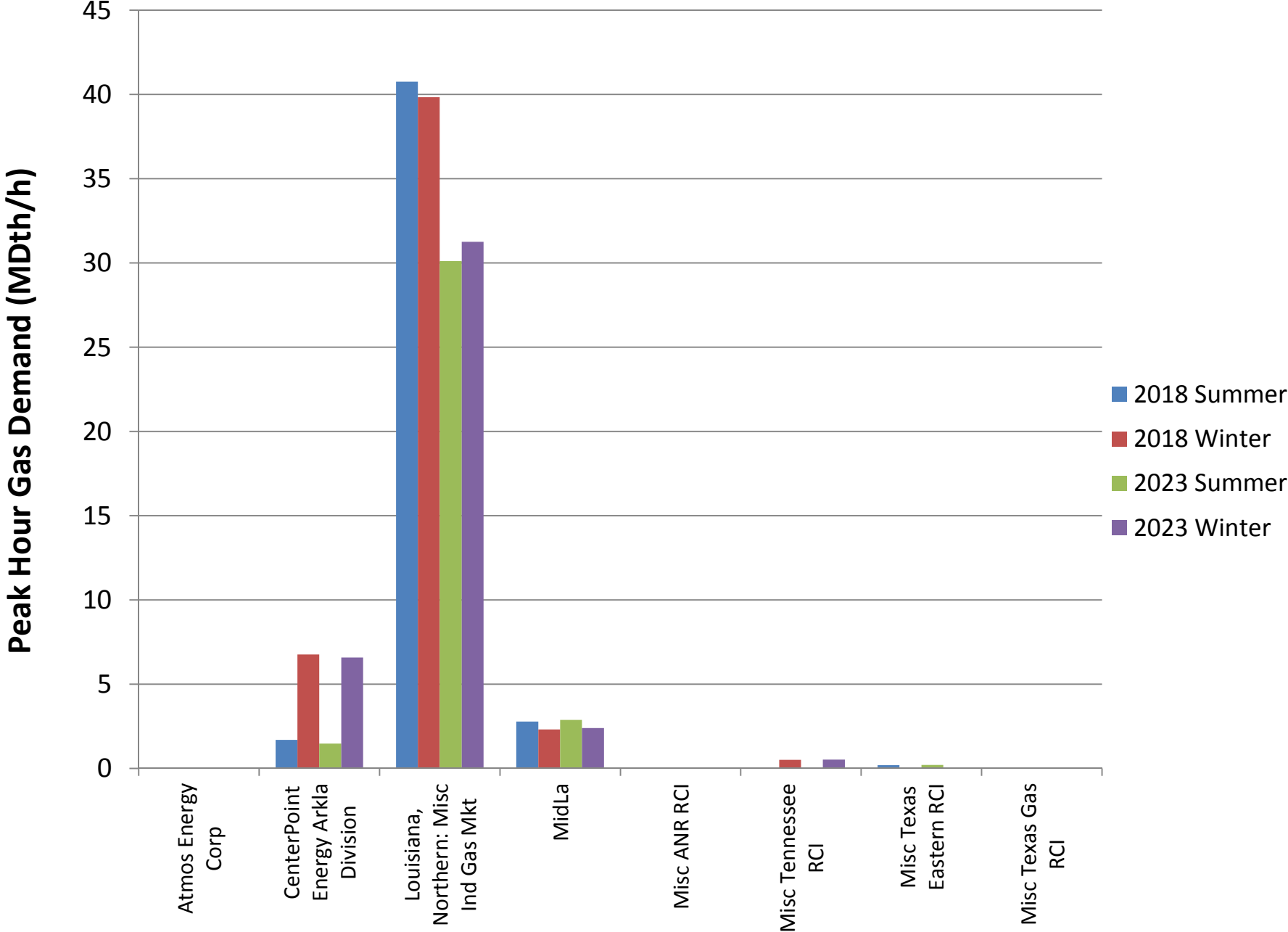
# MISO South



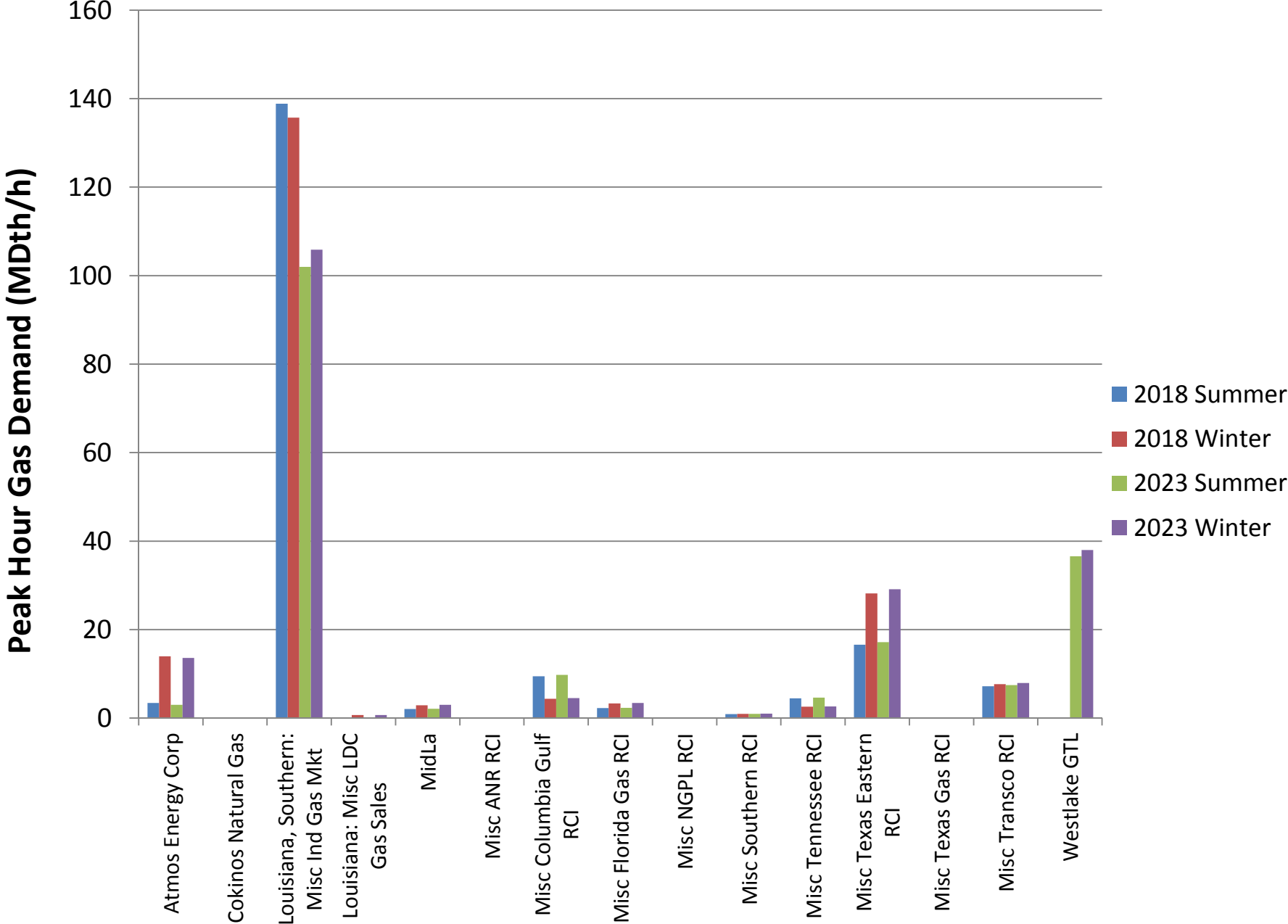
# Arkansas



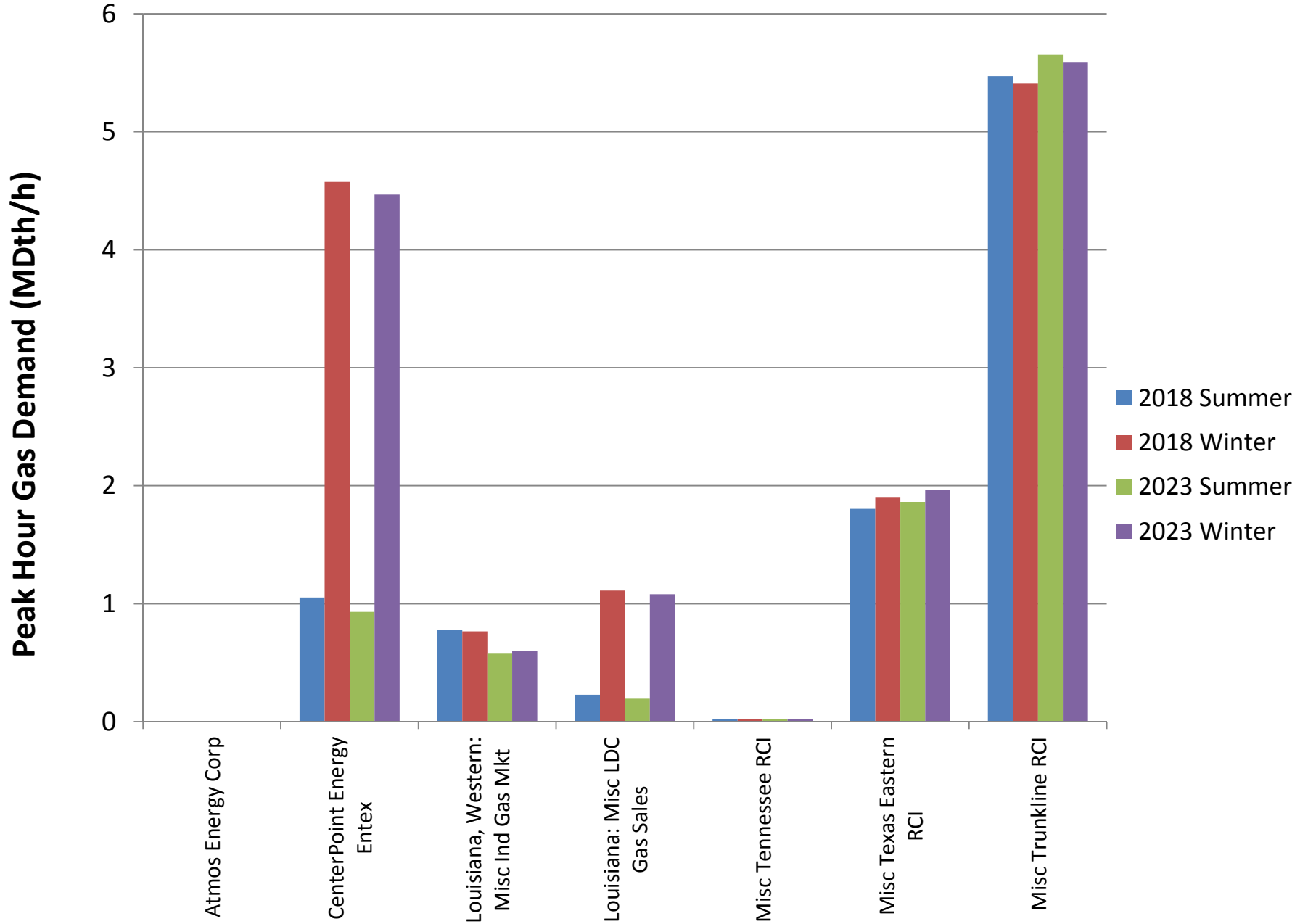
# Louisiana Northern



# Louisiana Southern

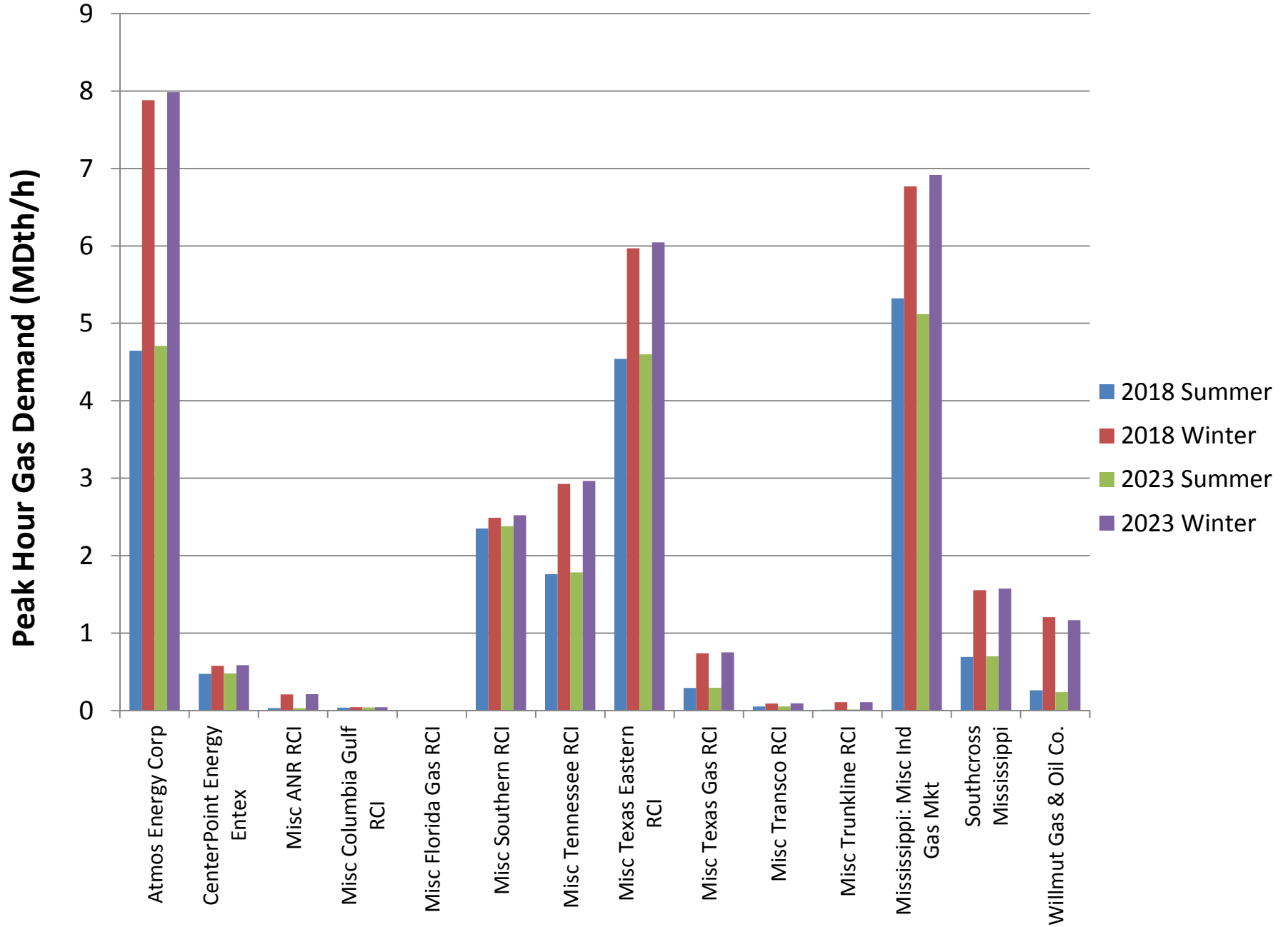


# Louisiana Western

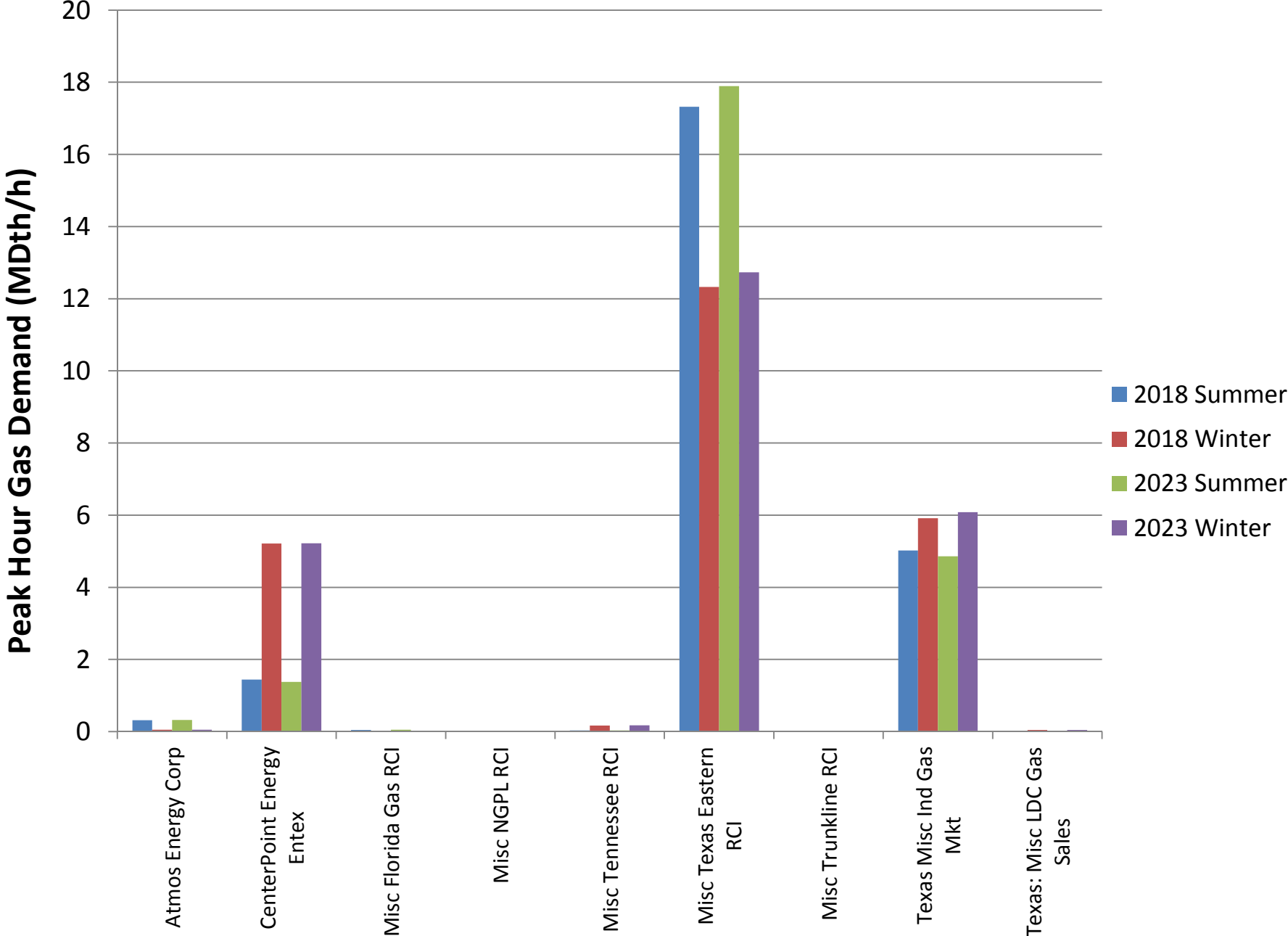




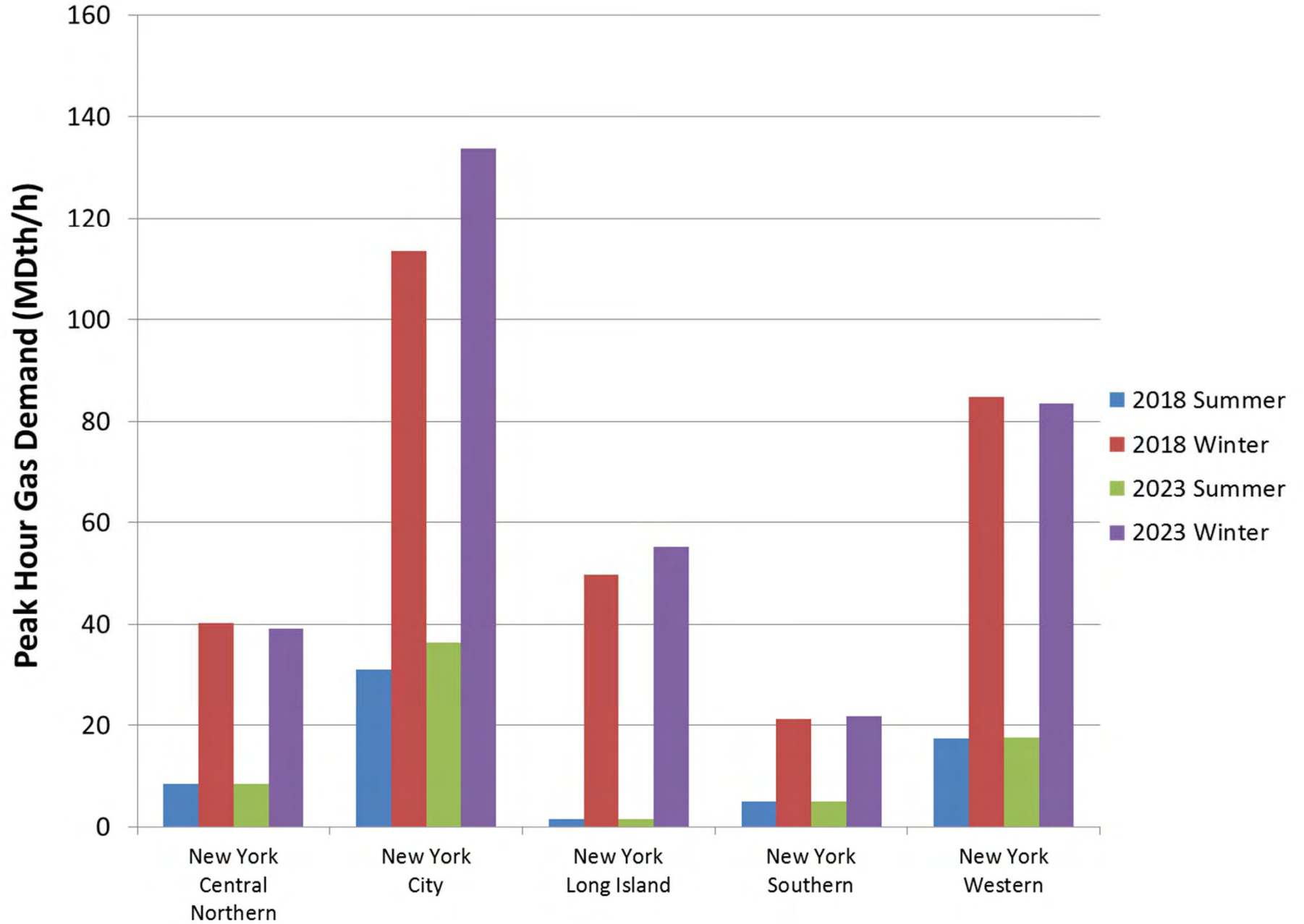
# Mississippi



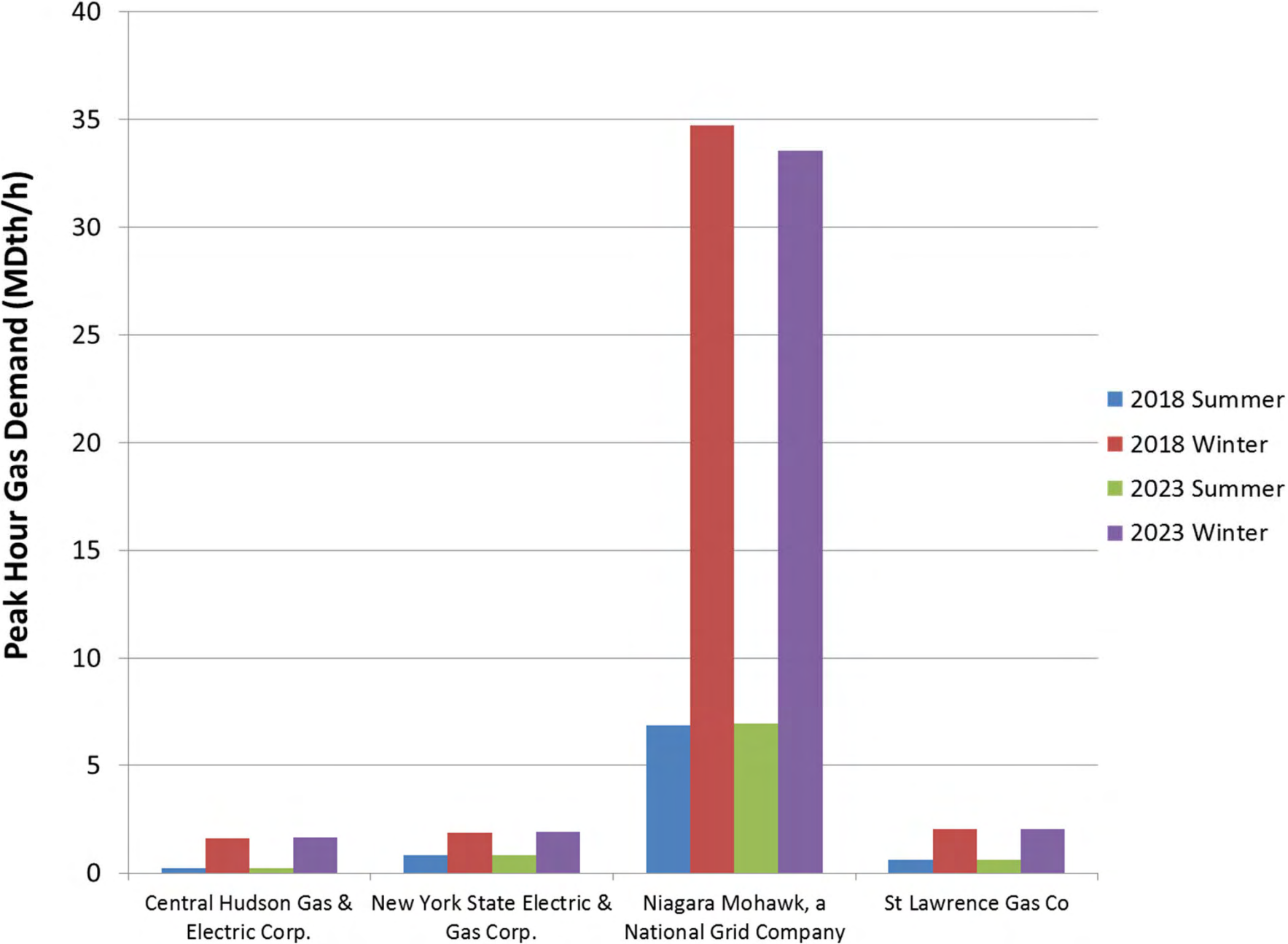
# Texas East (SERC)



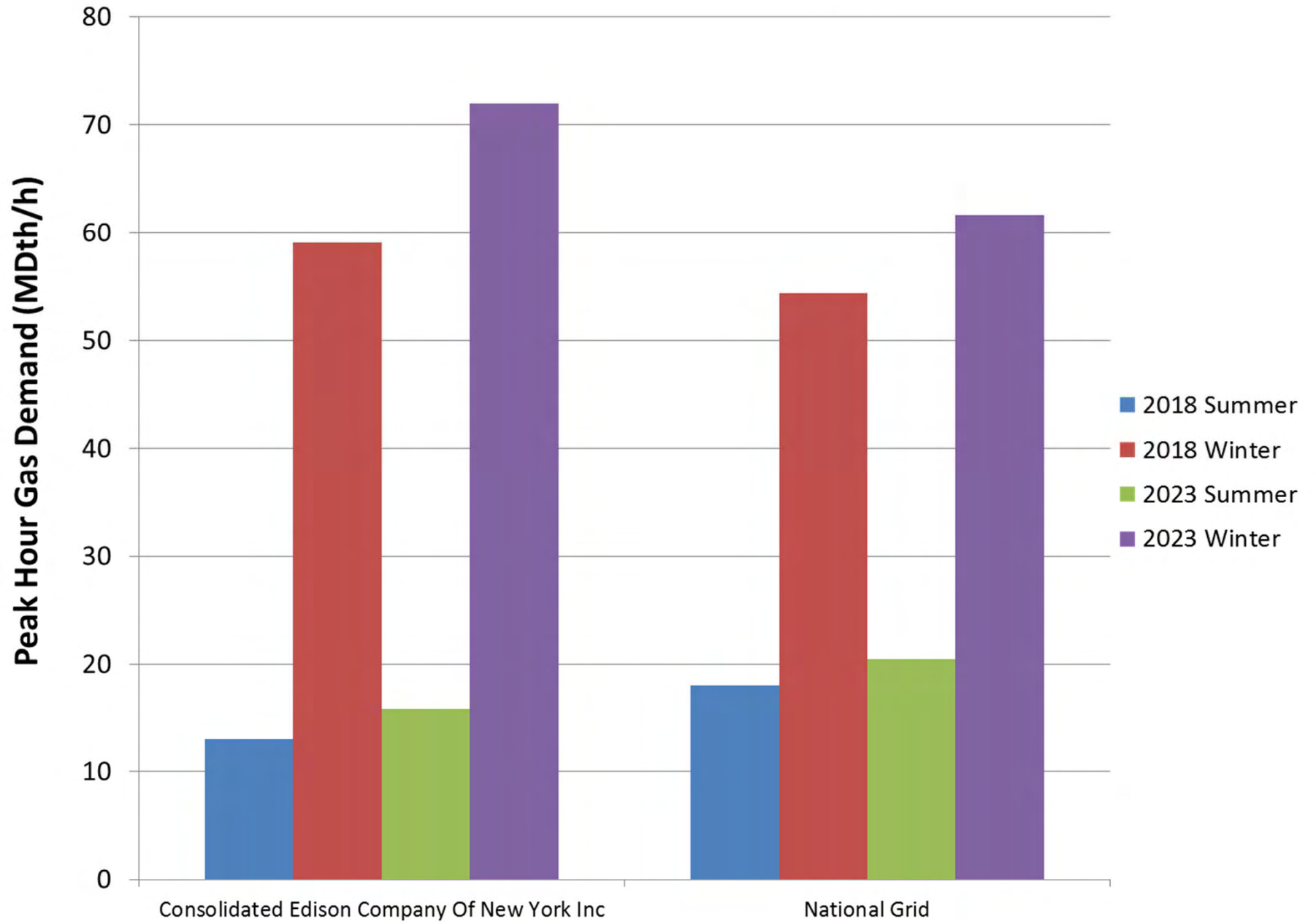
# NYISO



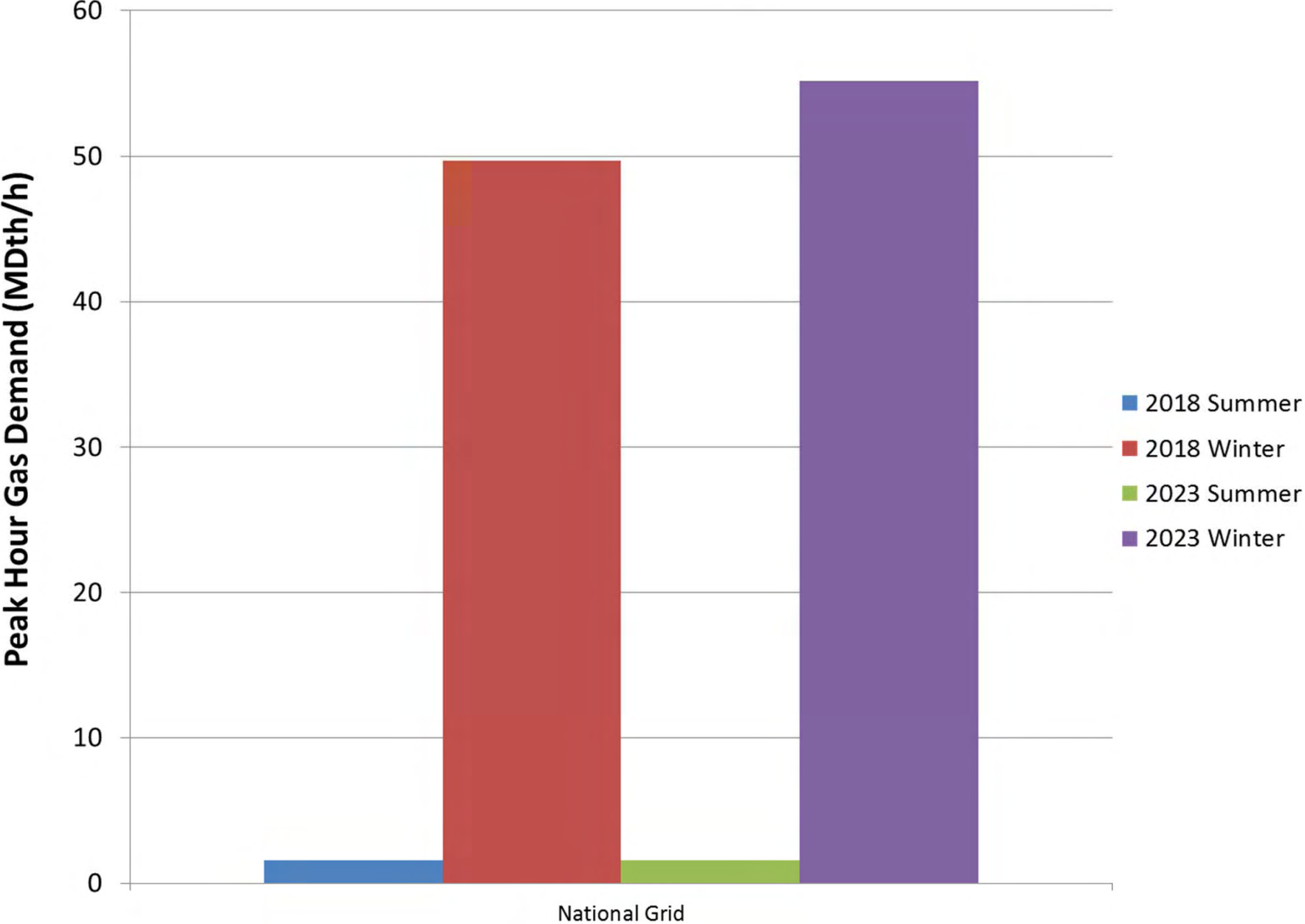
# New York Central Northern



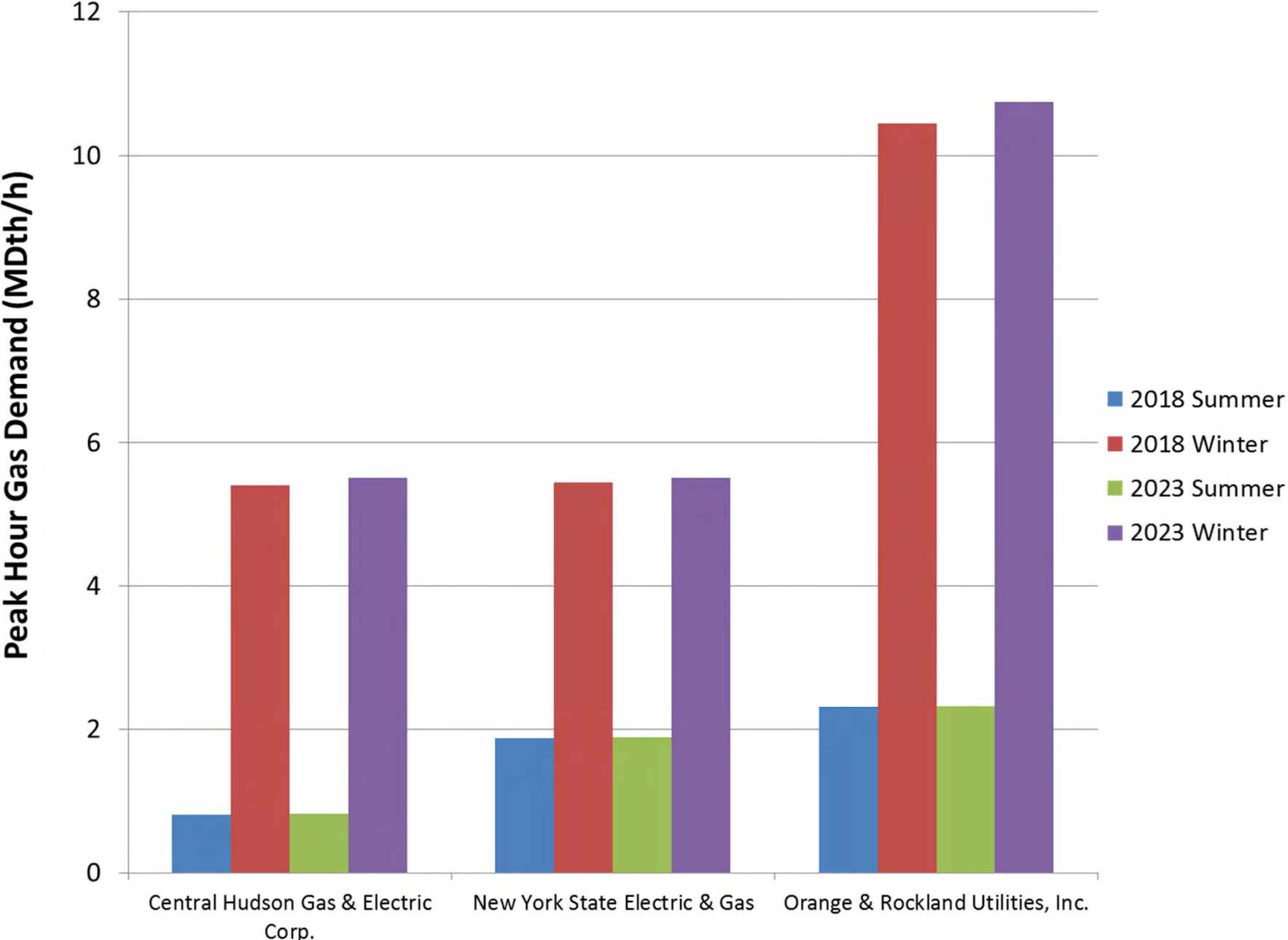
# New York City



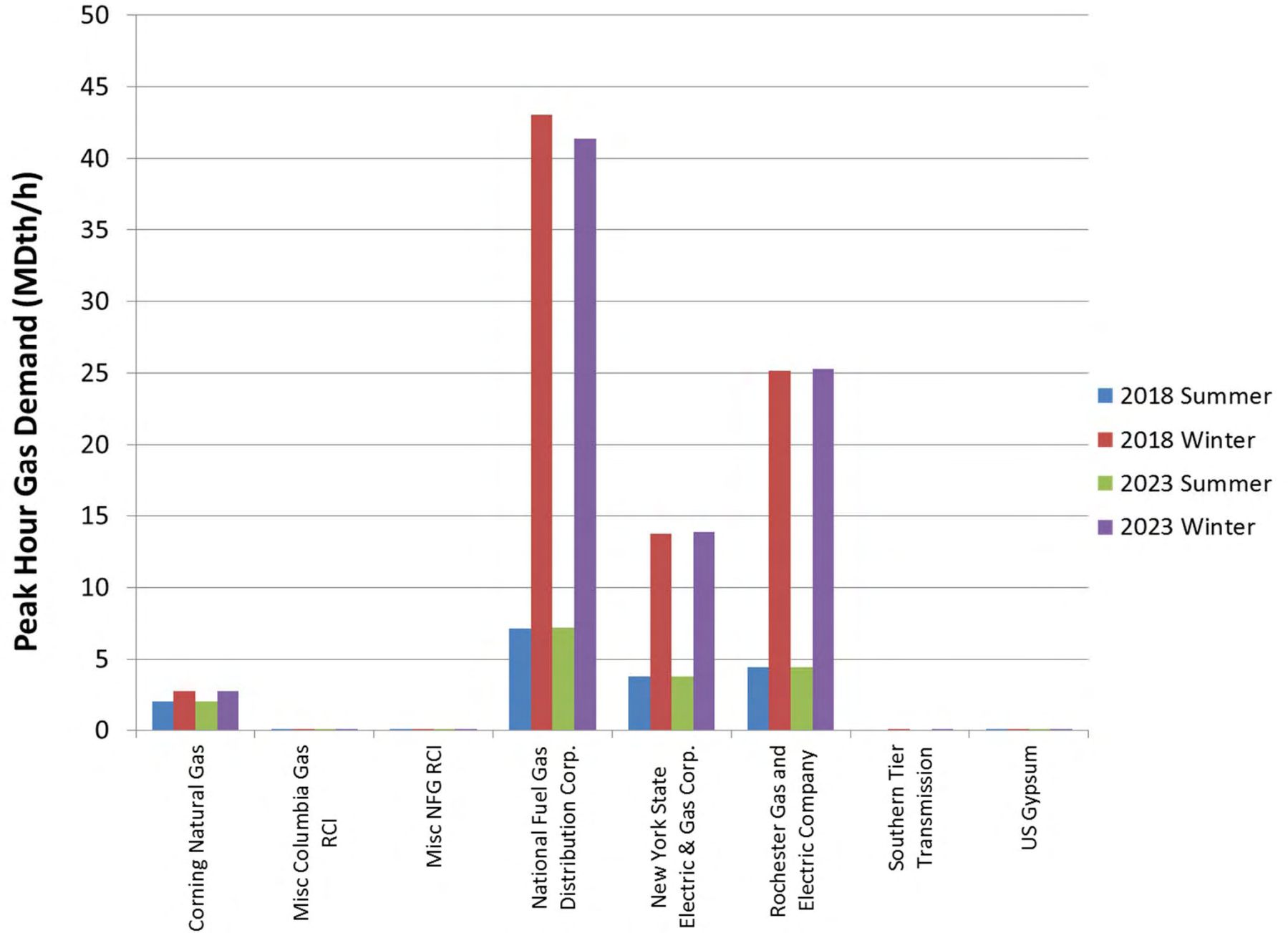
# New York Long Island



# New York Southern

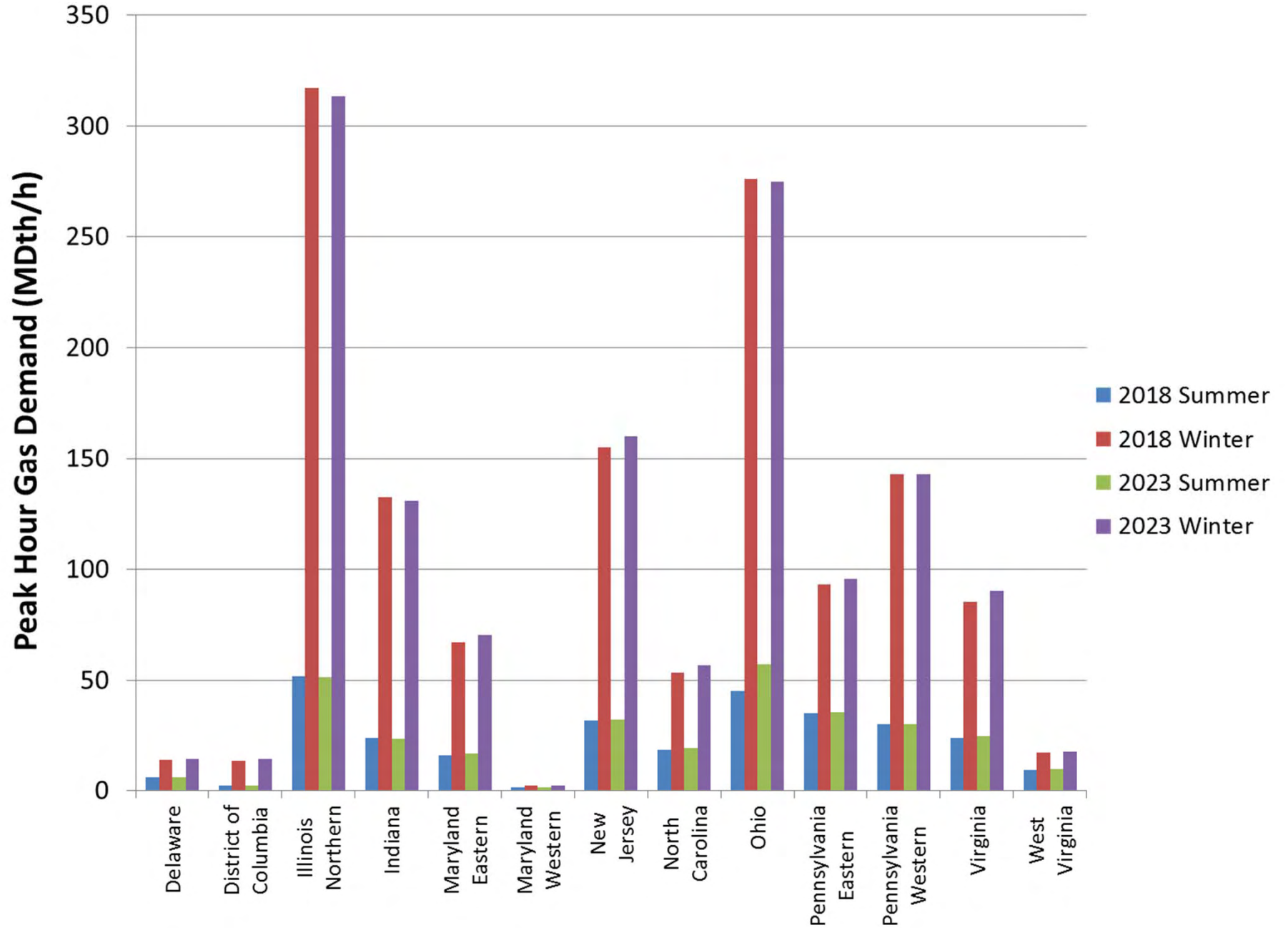


# New York Western

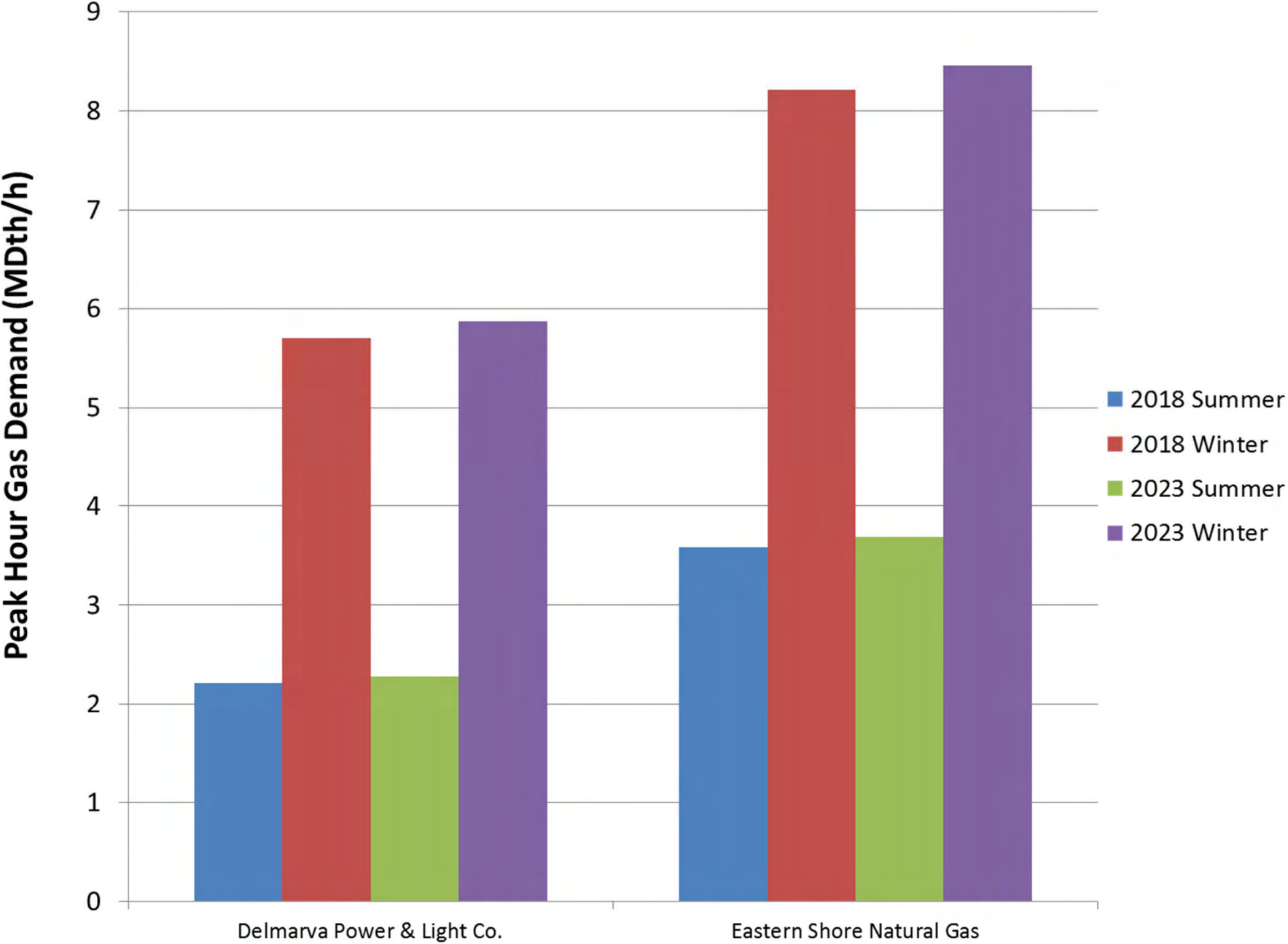




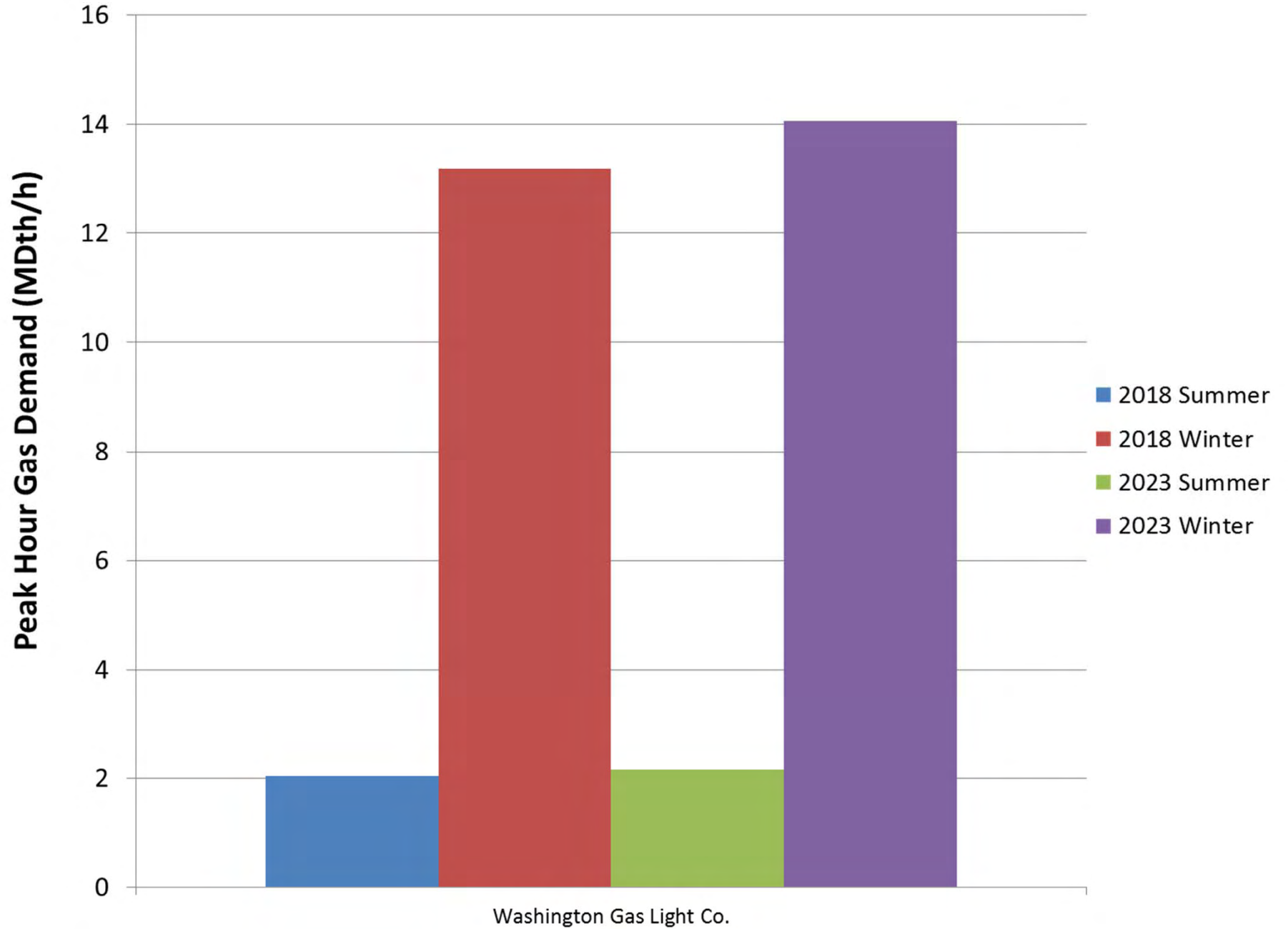
# PJM



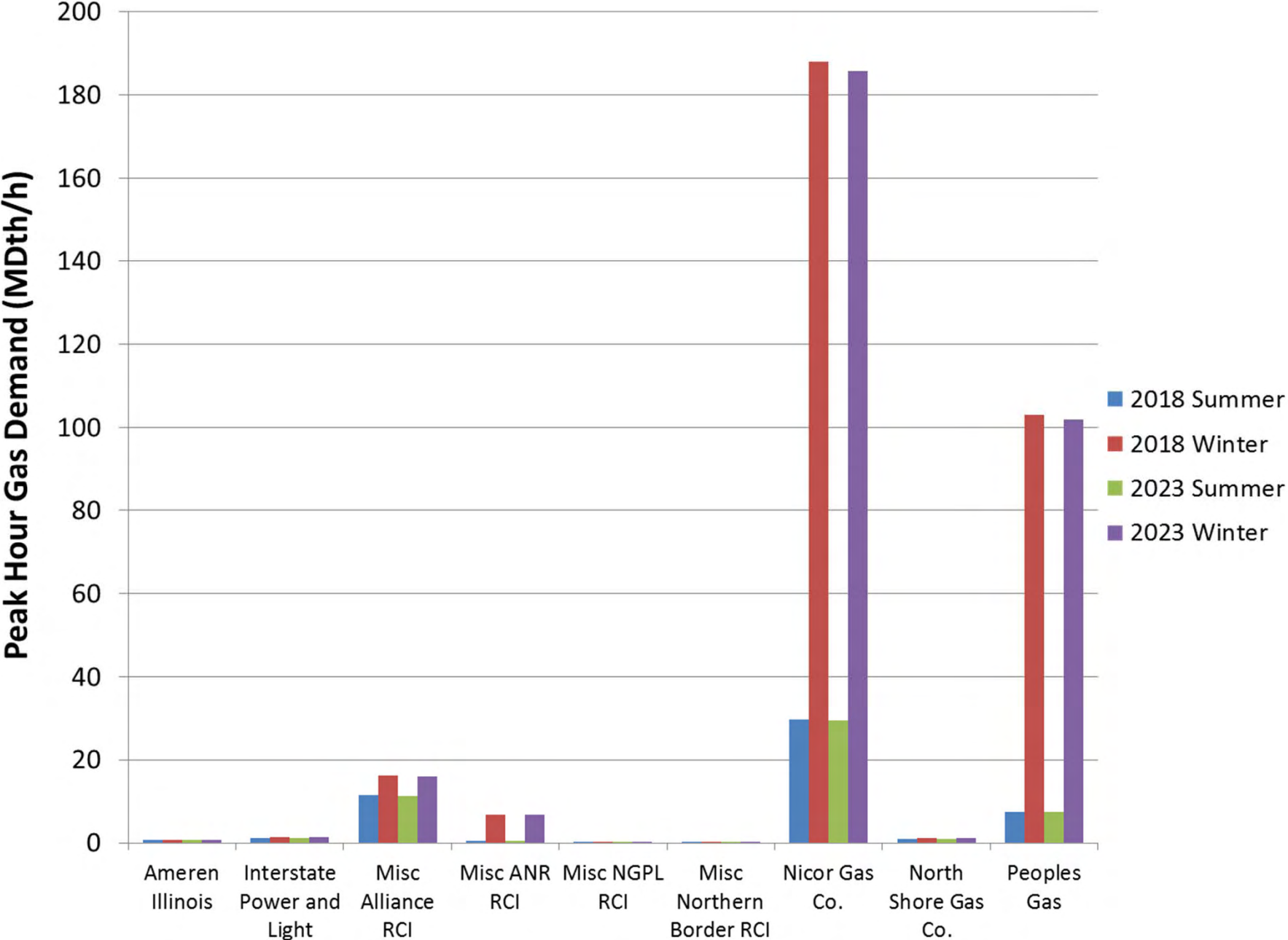
# Delaware



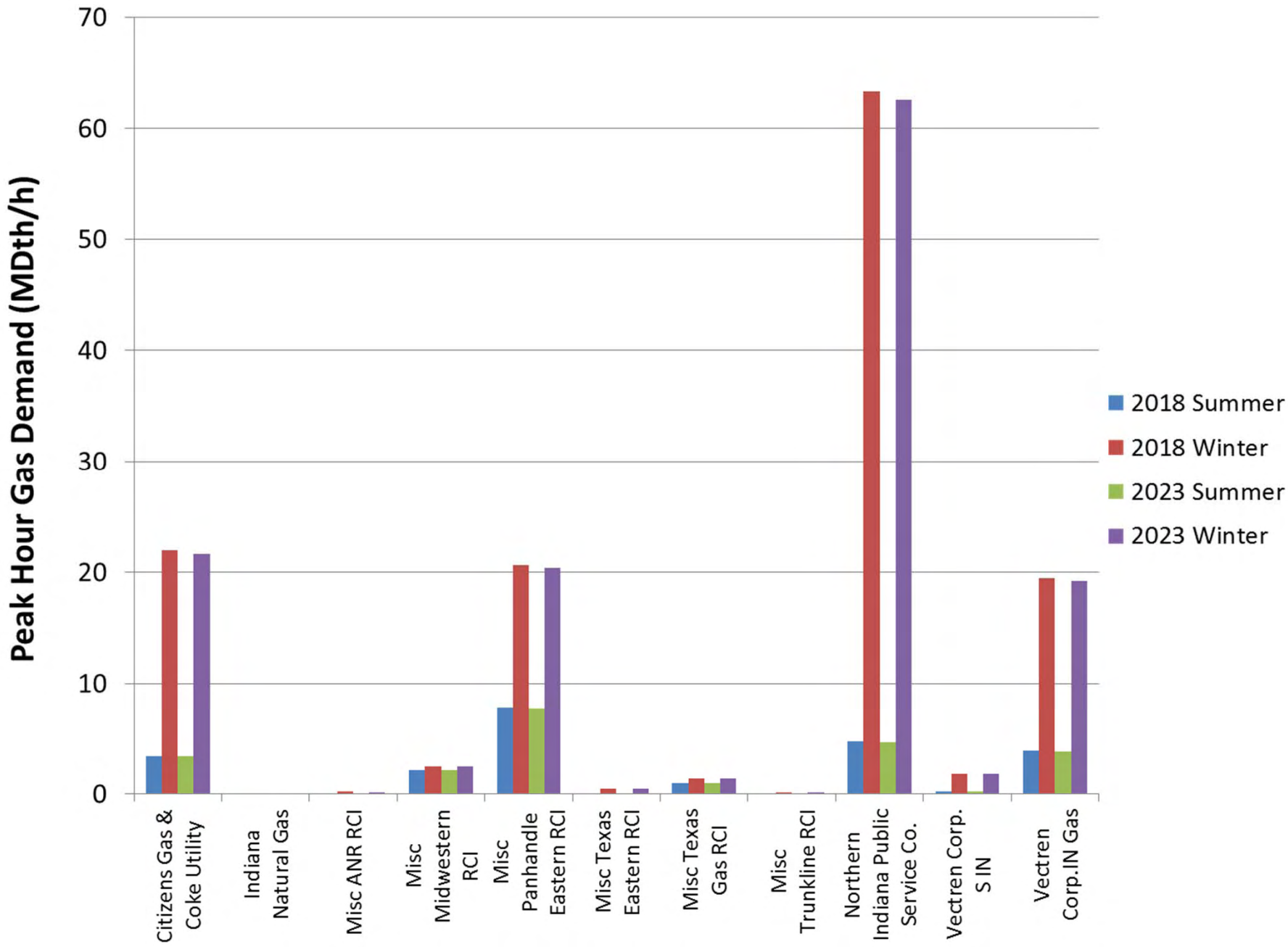
# District of Columbia



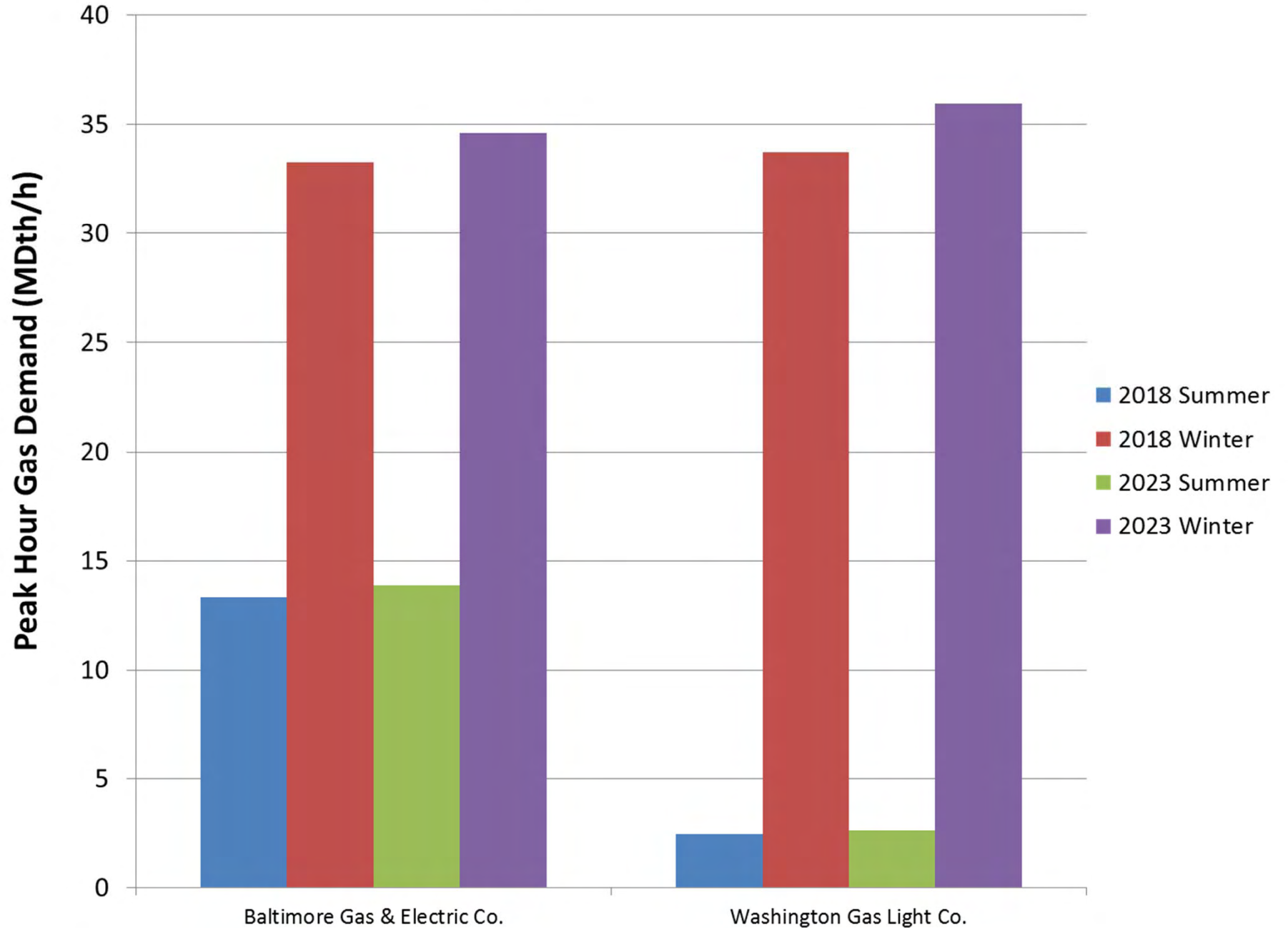
# Illinois Northern



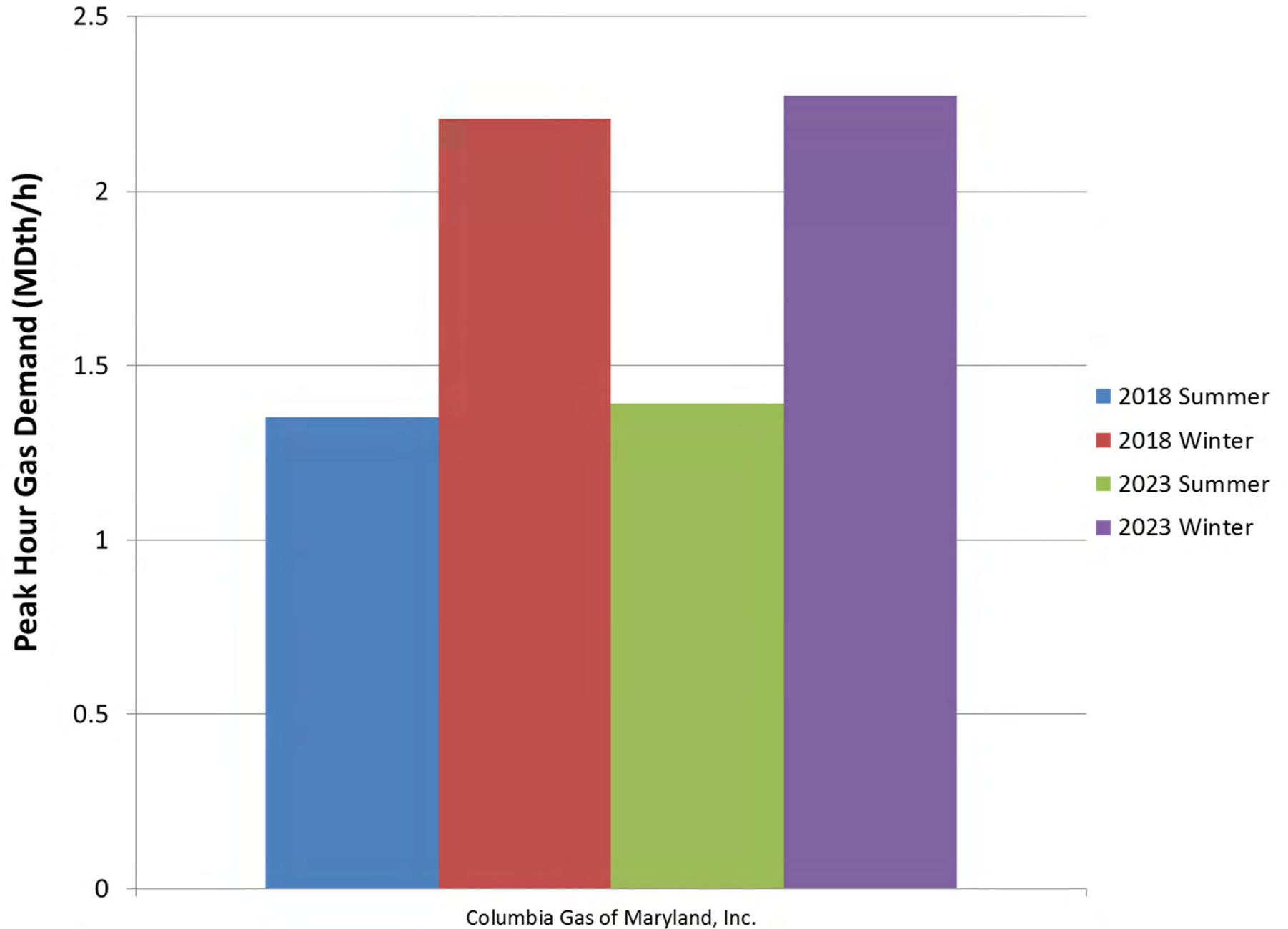
# Indiana



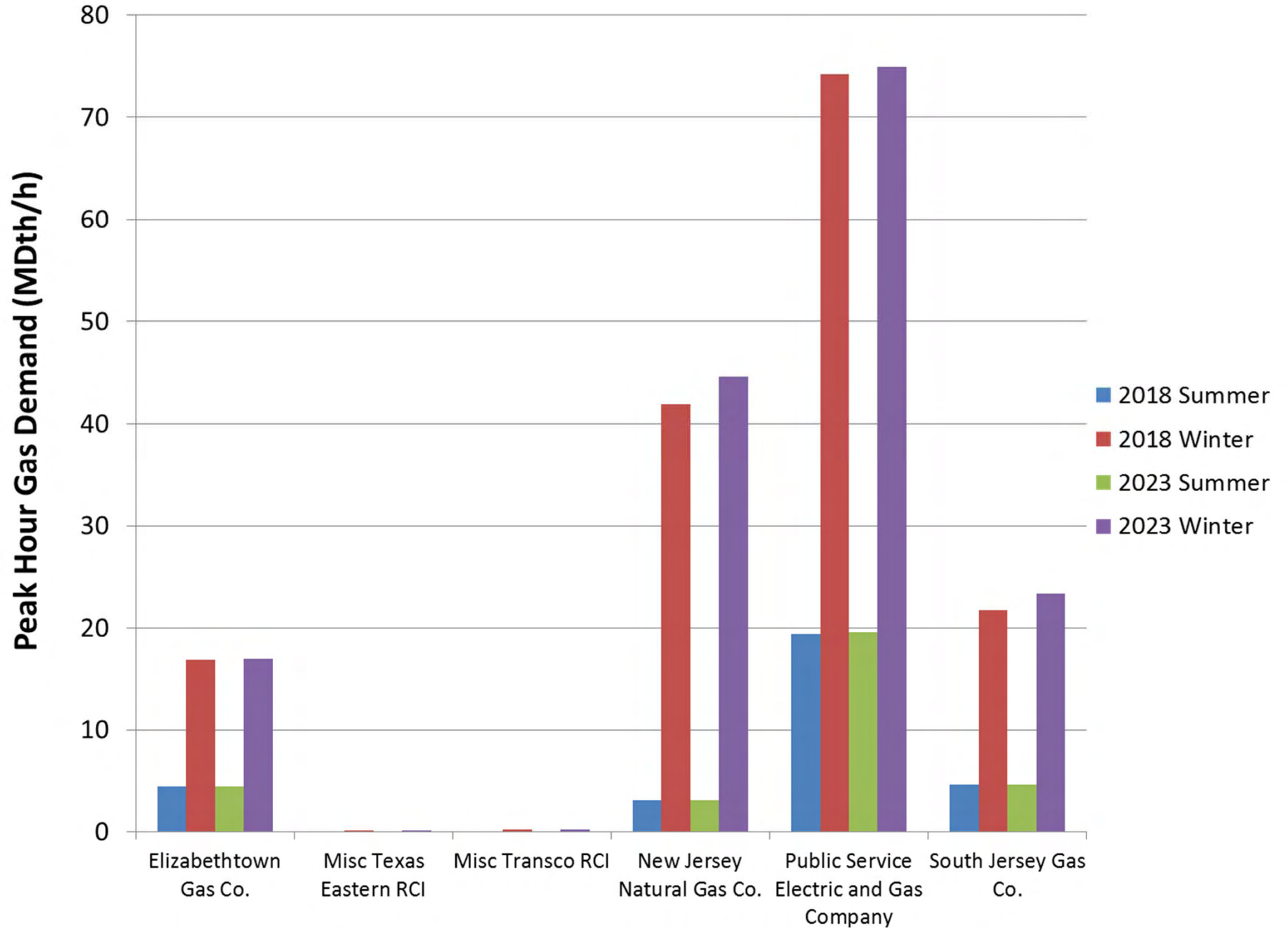
# Maryland Eastern



# Maryland Western

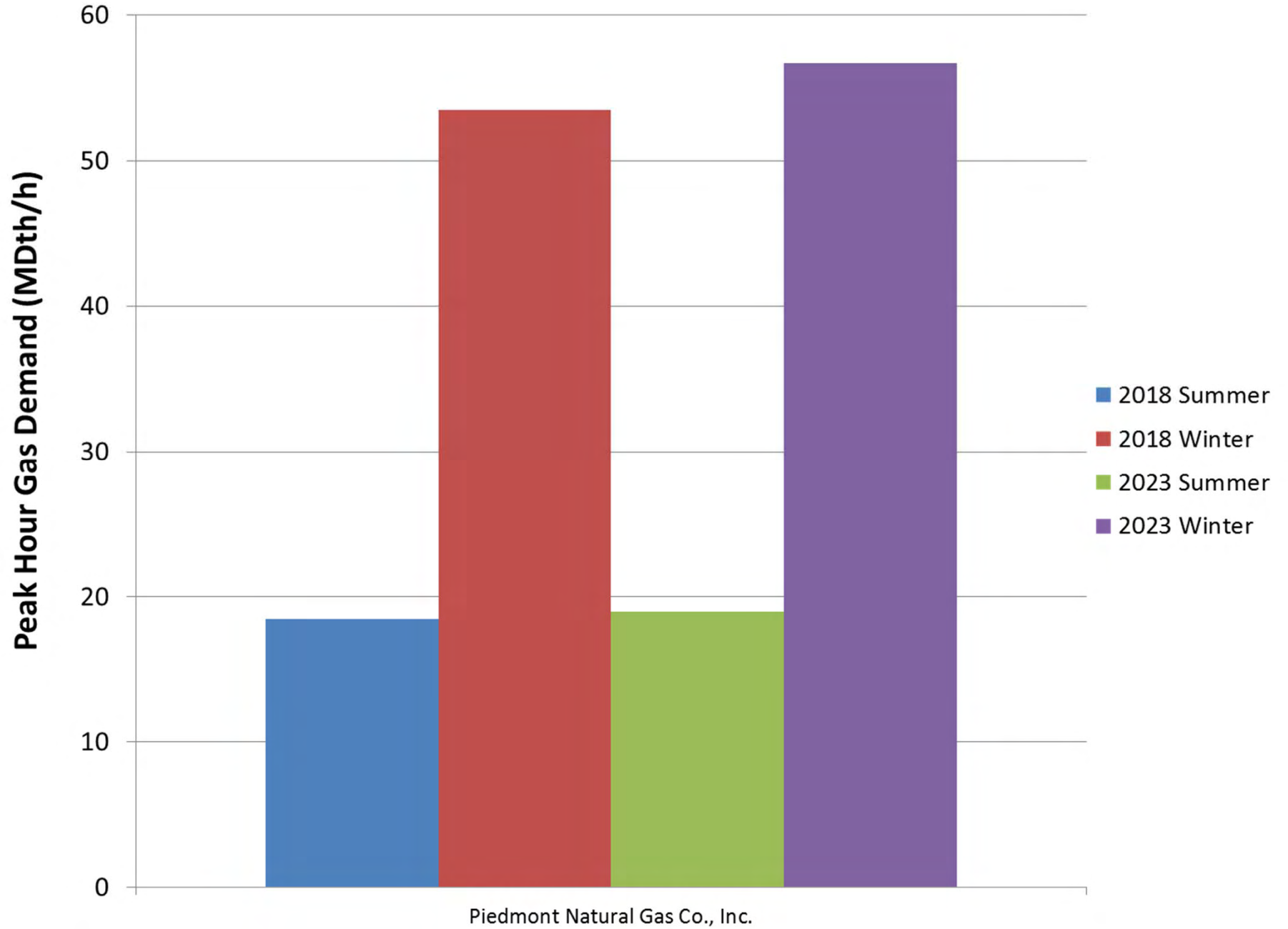


# New Jersey

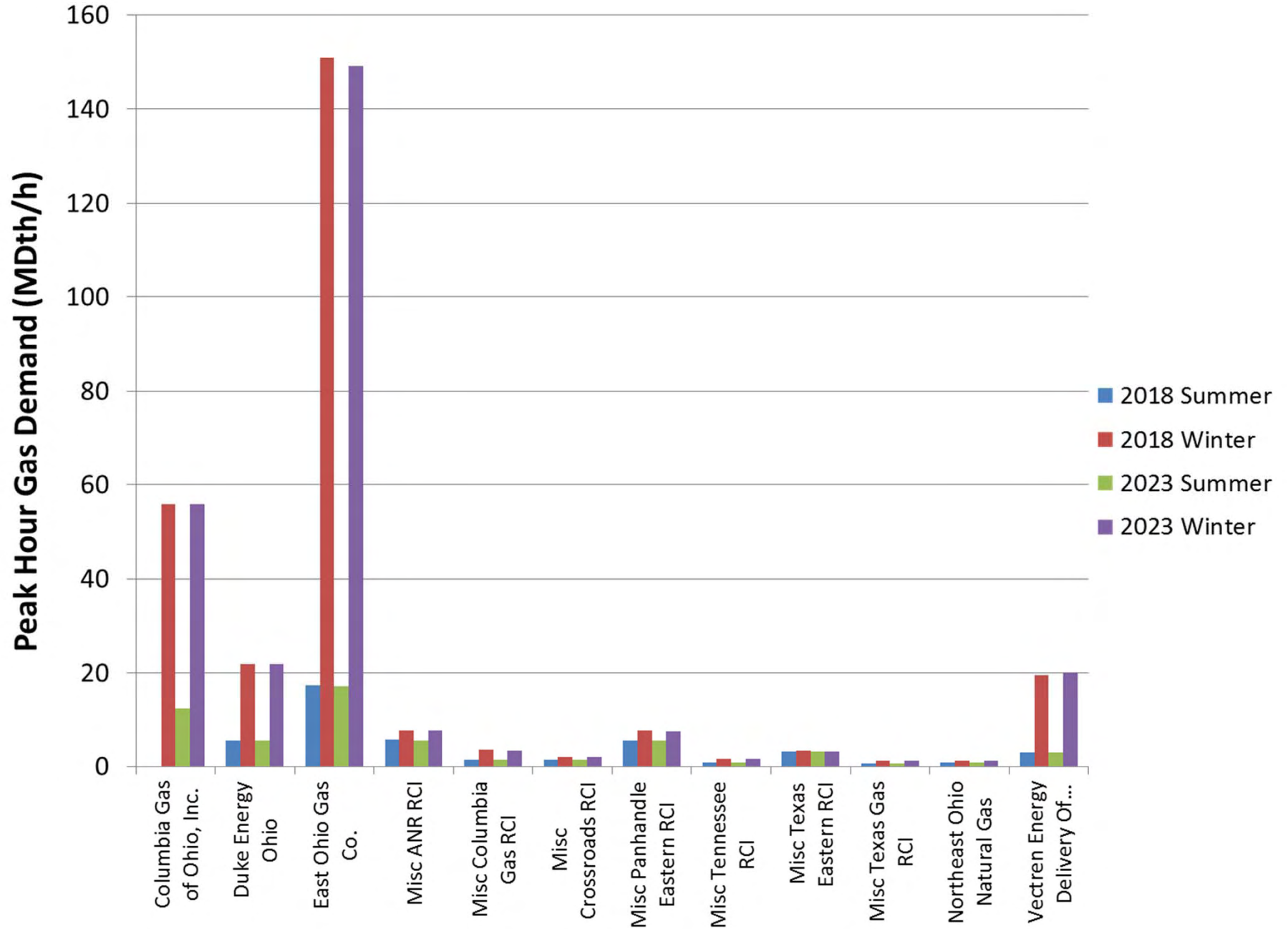




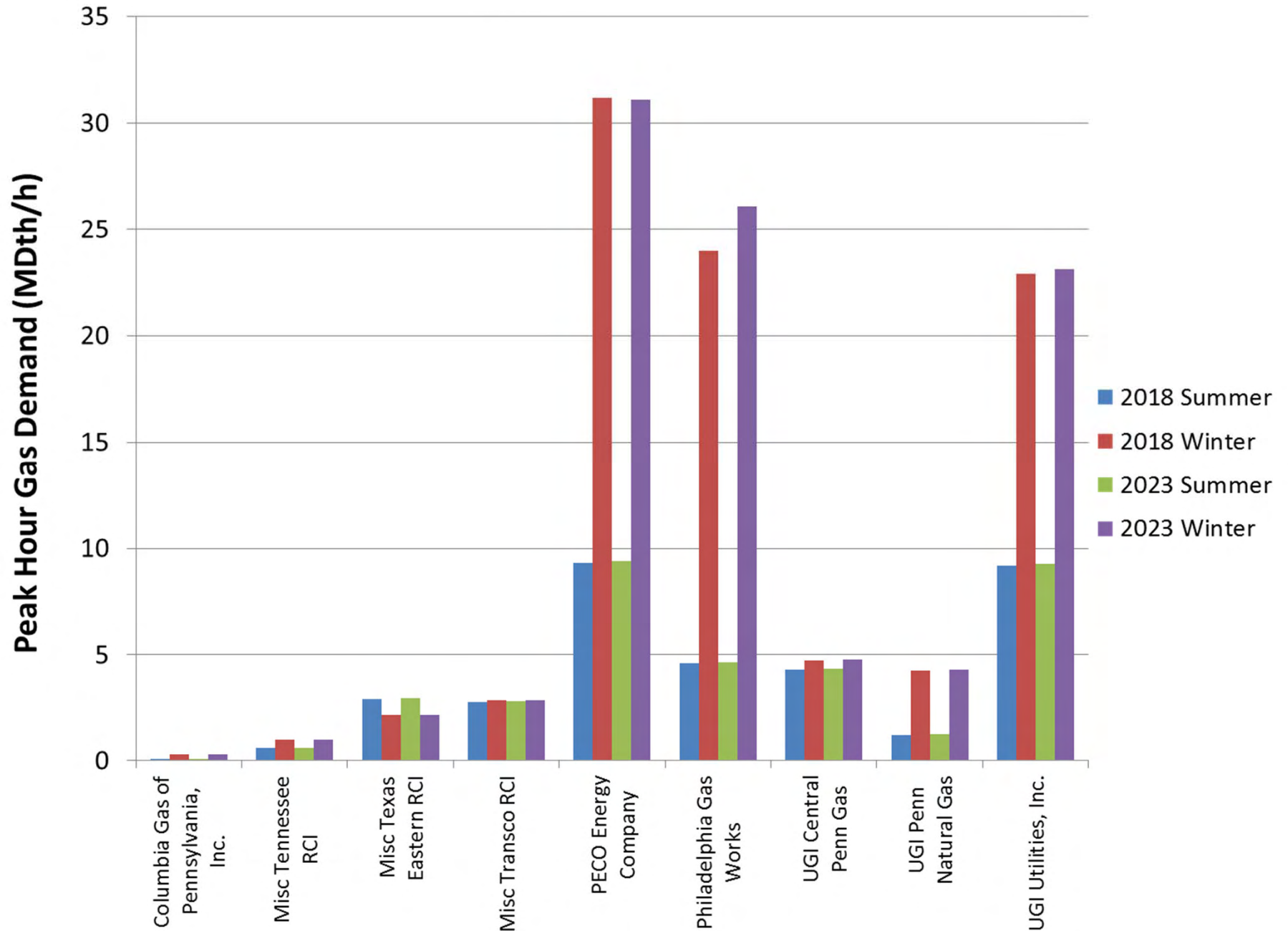
# North Carolina



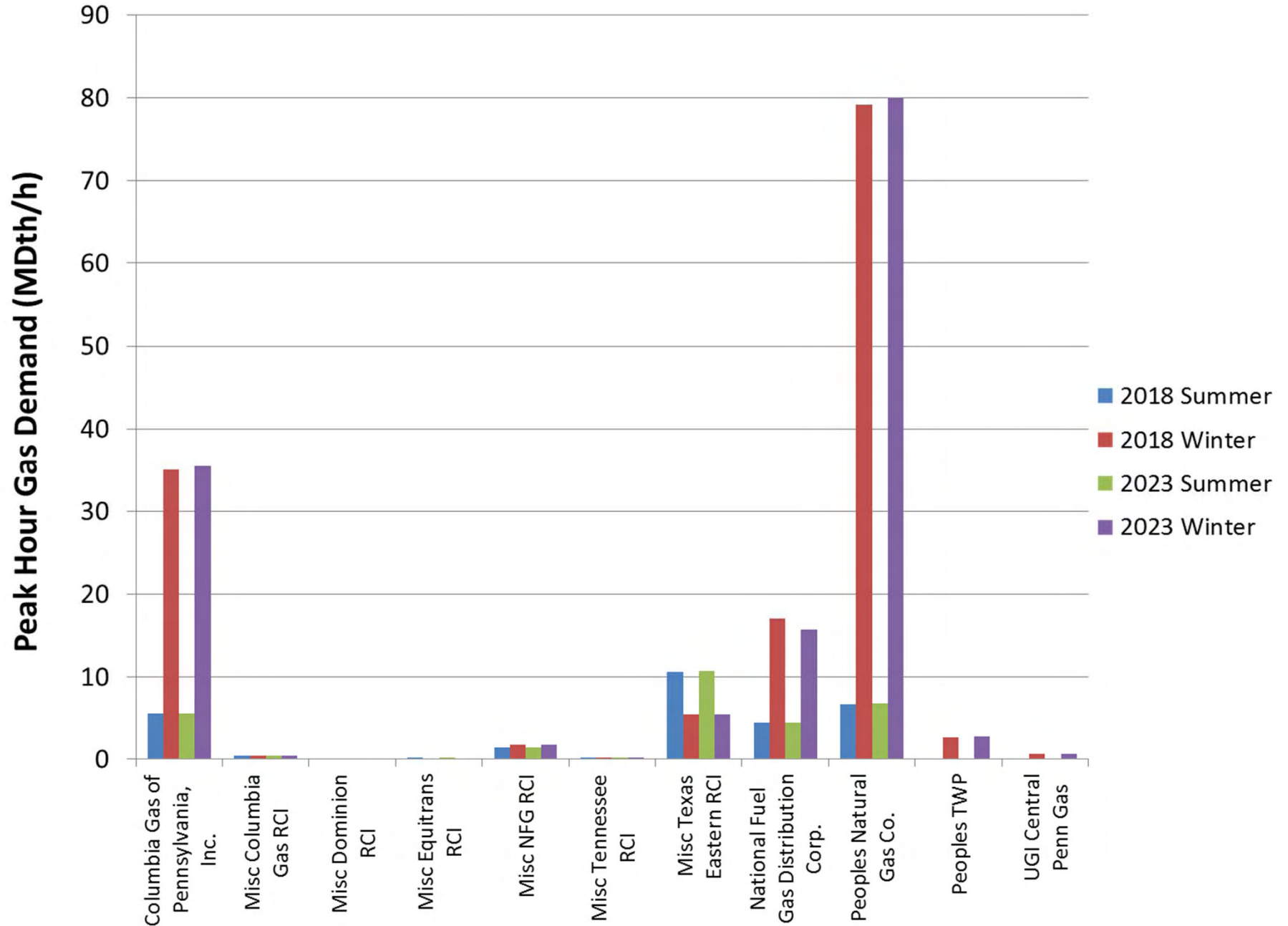
# Ohio



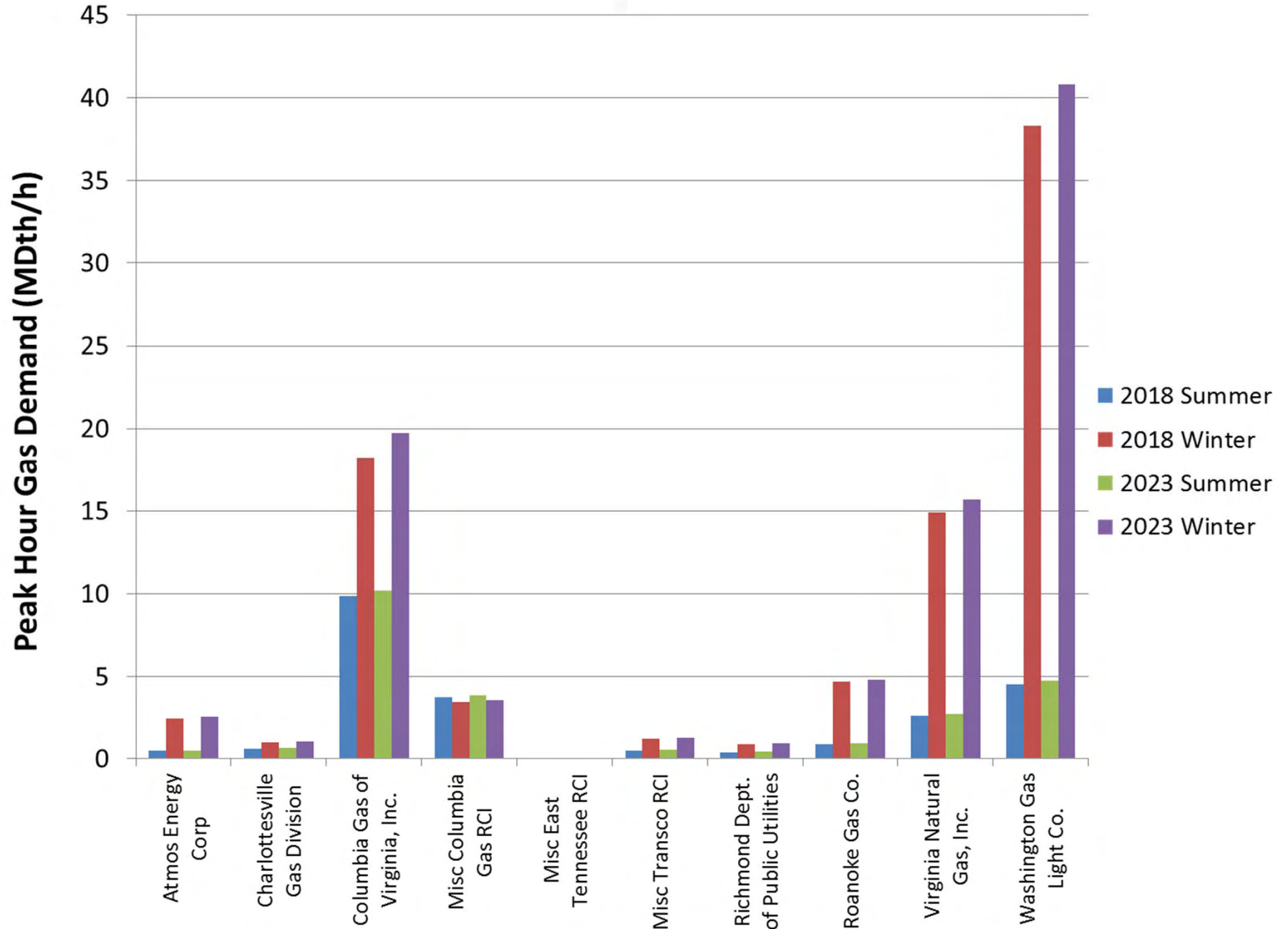
# Pennsylvania Eastern



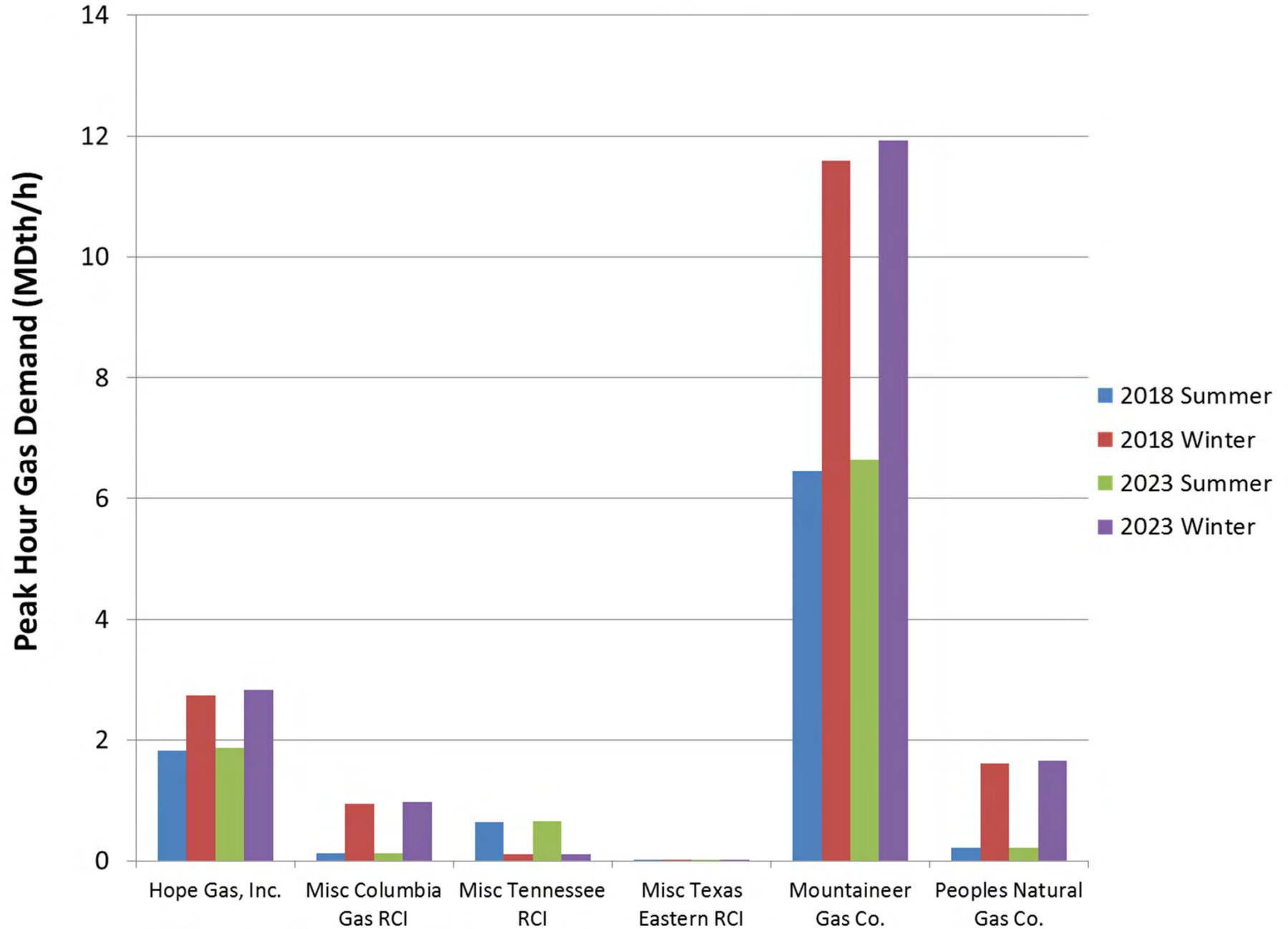
# Pennsylvania Western



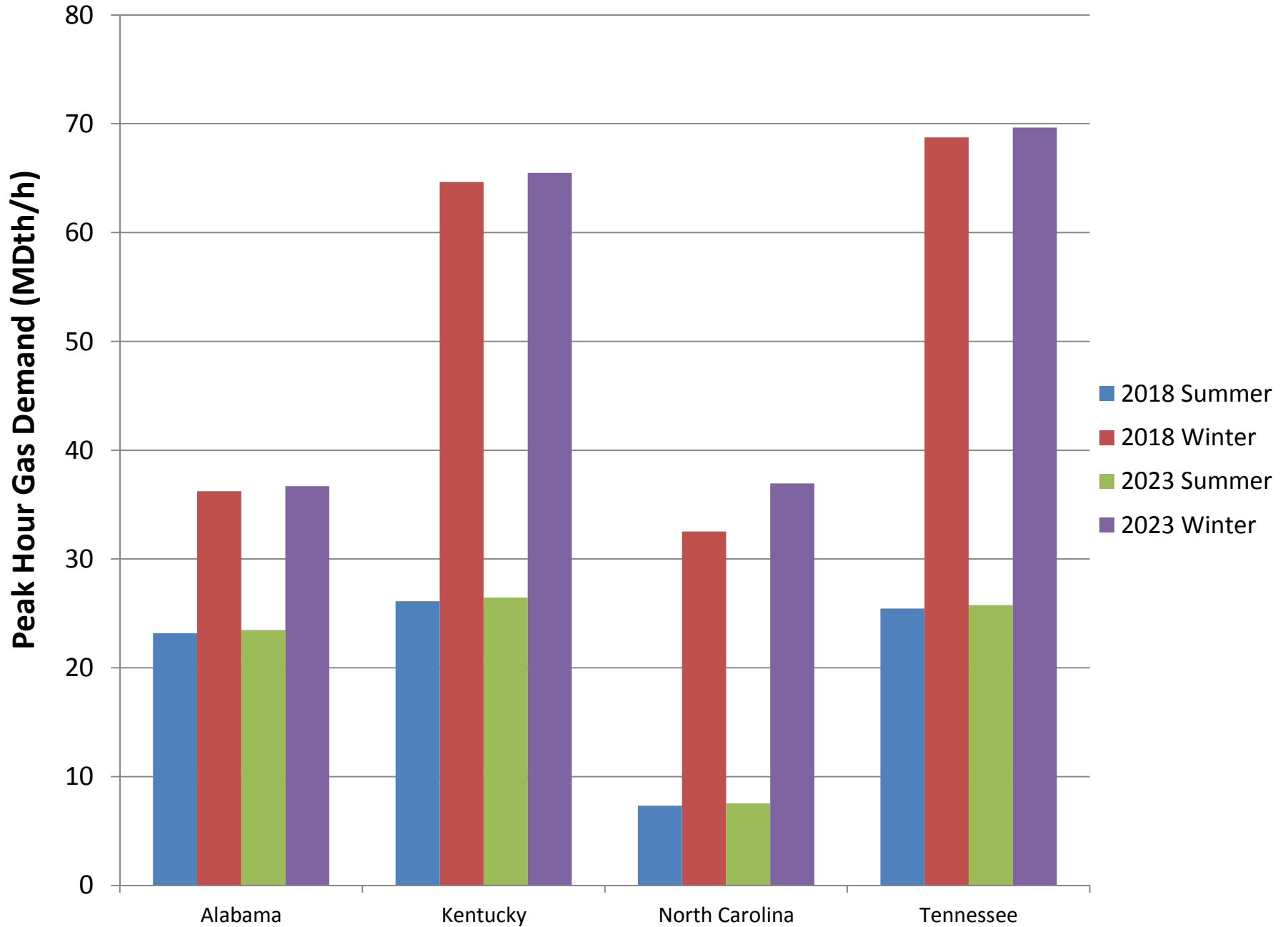
# Virginia



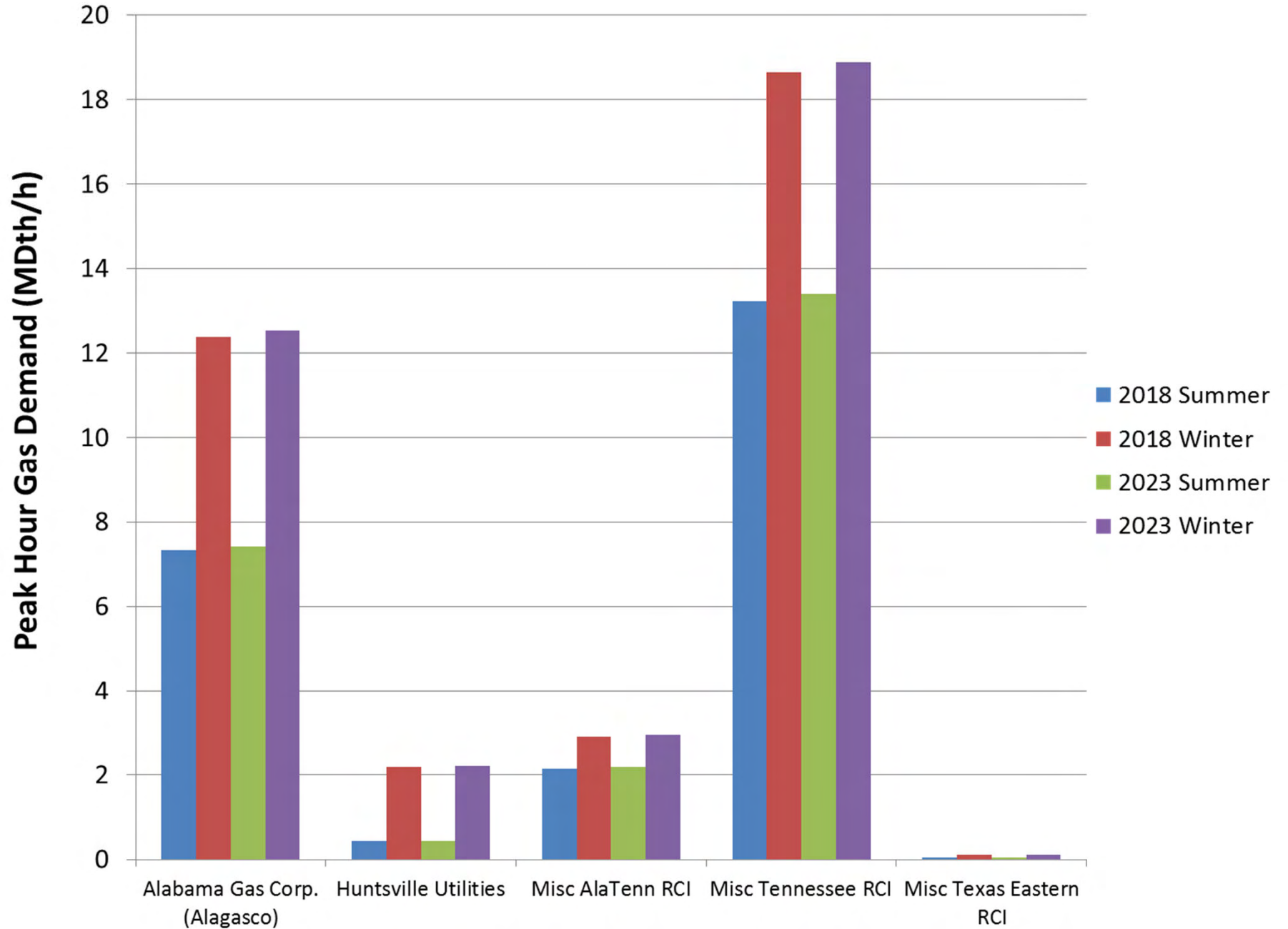
# West Virginia



# TVA

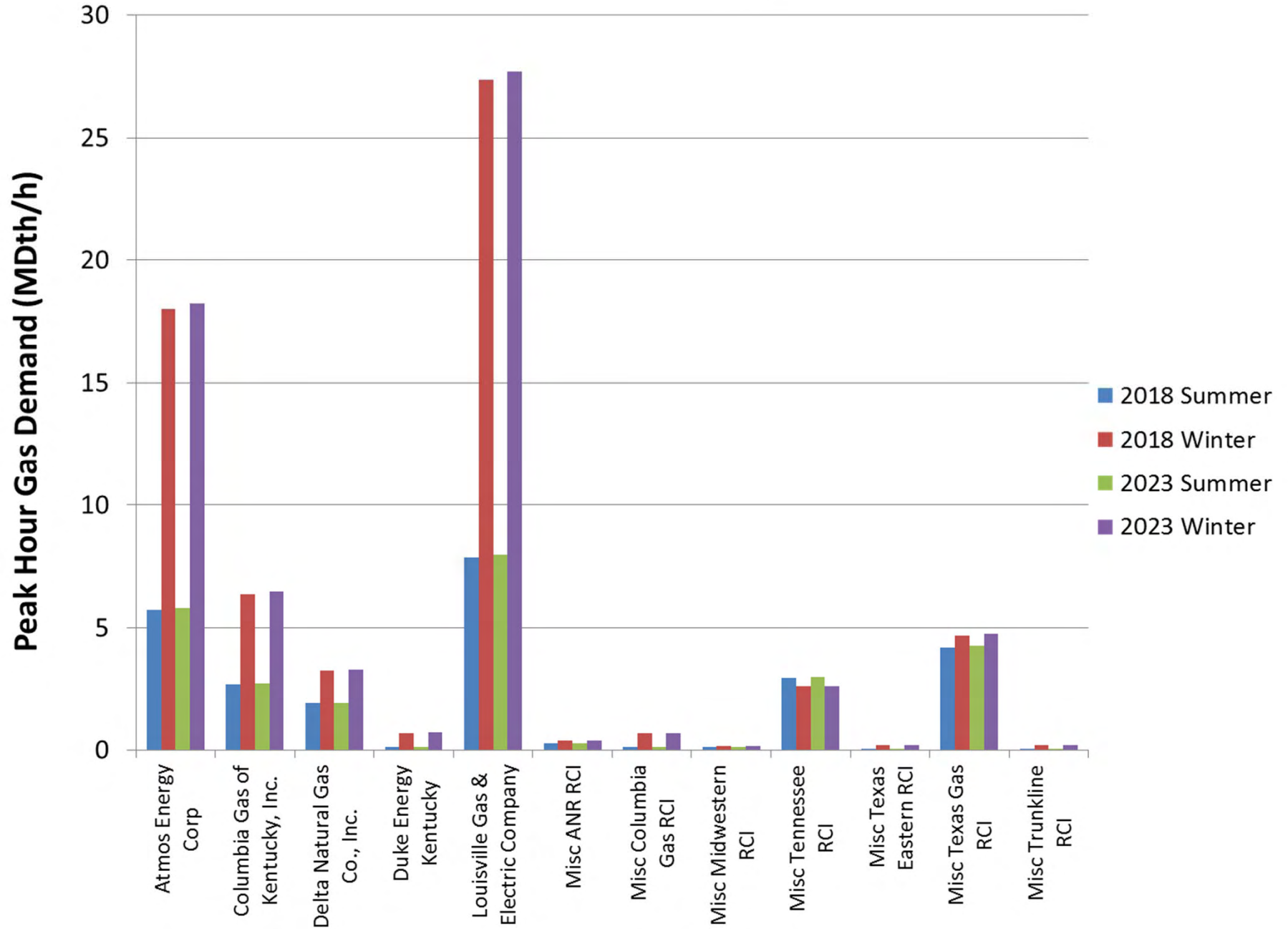


# Alabama

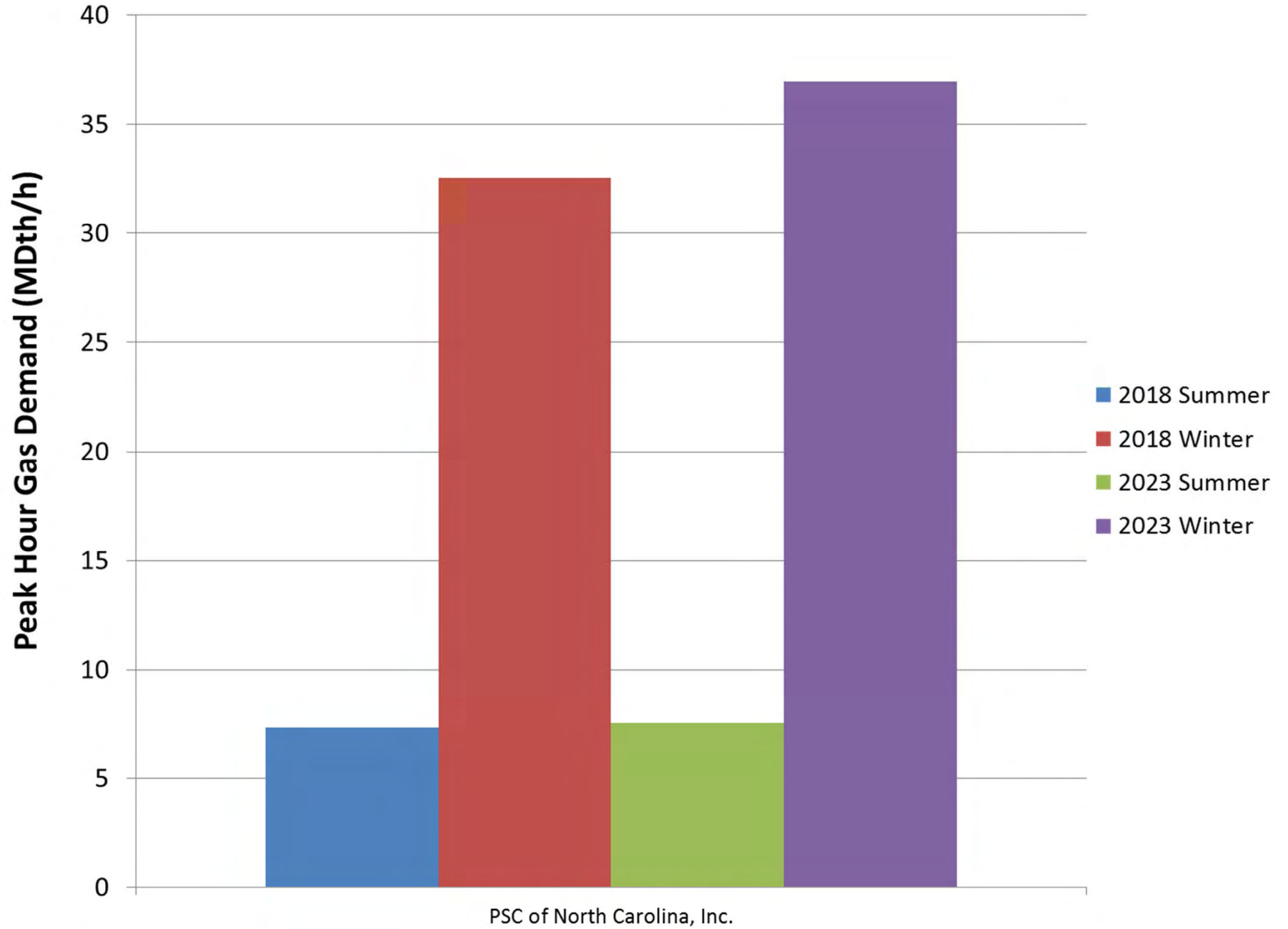




# Kentucky



# North Carolina



# Tennessee

