



Final 2018 CELT Forecast: ISO-NE, States, Load Zones, and Subareas

Planning Advisory Committee

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Outline

- Introduction / Highlights
- 2018 CELT New England Energy Forecast
- 2018 CELT New England Seasonal Peak Forecast
- Next Steps
- Appendix (States, Load Zone and Sub-area Tables)



Introduction

Explanation of Gross and Net Load Forecasts

- The ISO annually develops 10-year forecasts of load that are published as part of the [Capacity, Energy, Loads, and Transmission \(CELT\) report](#); the ISO also publishes additional forecast information as part of the annual forecast process, which is made available at: <https://www.iso-ne.com/system-planning/system-forecasting/load-forecast/>
- ISO first develops “gross” load forecasts that reflect a forecast of load without reductions from passive demand resources (PDR) and behind-the-meter PV (BTM PV)
 - PDR and BTM PV are reconstituted into historical hourly loads used to estimate gross load forecast models
 - This ensures the proper accounting of PDR and BTM PV, which are both forecast separately
 - Reconstitution also includes load reductions from active demand resources
- In this presentation, PDR will be referred to as energy efficiency (EE)
- “Net” load forecasts are developed by subtracting EE and BTM PV from the gross forecasts
 - Historical net loads include reconstitution of load reductions from active demand resources only
 - Net loads are intended to be representative of energy and loads observed in New England in real-time



Introduction

Background

- The draft 2018 CELT forecast was discussed with the [PAC on March 15, 2018](#)
- The final draft 2018 CELT forecast (seasonal peaks and annual energy, region and states) was discussed with the [Load Forecast Committee on March 28, 2018](#) without objection
- Today's presentation will highlight updates to the forecast since March 15th, and include state, load zone, and RSP subarea forecasts
 - The ISO is seeking feedback on whether this detailed information is useful for PAC discussion, given that it will soon be published on ISO's website (see below)
- All forecast data will be posted on the Load Forecast website by May 1st:
 - File will be named "2018 Forecast Data.xlsx" and will be available at: <https://www.iso-ne.com/system-planning/system-forecasting/load-forecast>

Introduction

Categorization of Forecast Changes

- In general, changes reflected in the 2018 CELT relative to the 2017 CELT can be divided into the three components:
 1. Gross load forecast updates (no changes since March 15):
 - a) Updated macroeconomic forecast from Moody's
 - b) Updated historical data used to estimate gross load forecasts
 2. Changes to the EE forecast (updated since March 15)
 3. Changes to the BTM PV forecast (updated since March 15)



2018 CELT Forecast Highlights

ISO-NE Forecasts

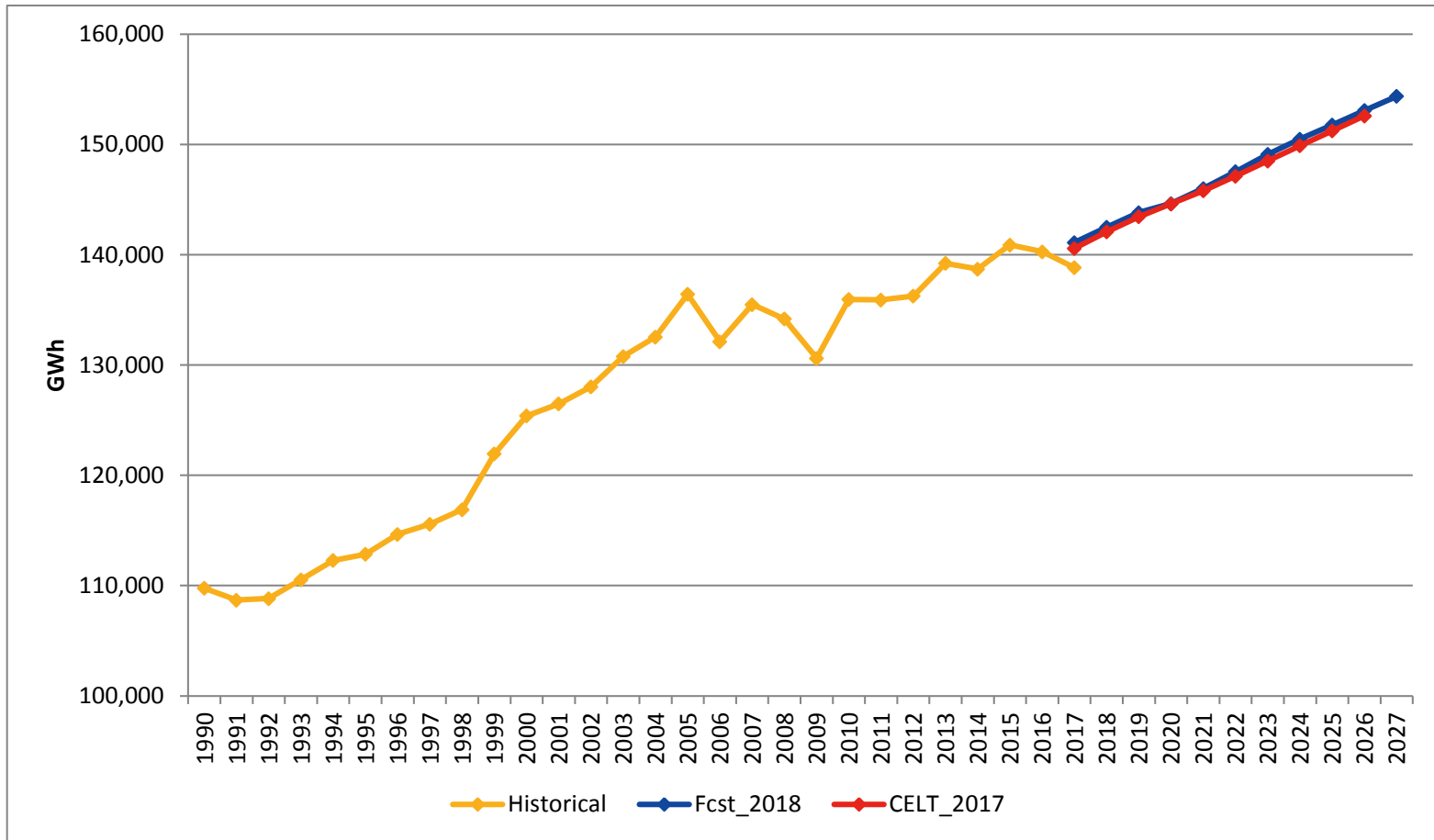
- Compared to 2017 CELT forecast, changes reflected in the 2018 CELT include:
 - Gross load forecasts (unchanged since March 15 PAC):
 - Annual energy is approximately 0.3% higher in 2026
 - Summer 50/50 is approximately 2.7% lower in 2026
 - Summer 90/10 is approximately 2.8% lower in 2026
 - The BTM PV forecast is approximately 0.4% lower in 2026
 - Slightly higher than draft 2018 BTM PV forecast
 - The EE summer forecast is approximately 12.9% higher in 2026
 - Lower than draft 2018 EE forecast
 - Net load forecasts (updated since March 15 PAC)
 - Annual energy forecast is approximately 3.7% lower in 2026
 - Summer 50/50 forecast is approximately 5.4% lower in 2026
 - Summer 90/10 forecast is approximately 5.3% lower in 2026



2018 CELT NEW ENGLAND ENERGY AND SEASONAL PEAK PLOTS

2018 CELT Gross Energy Forecast

New England



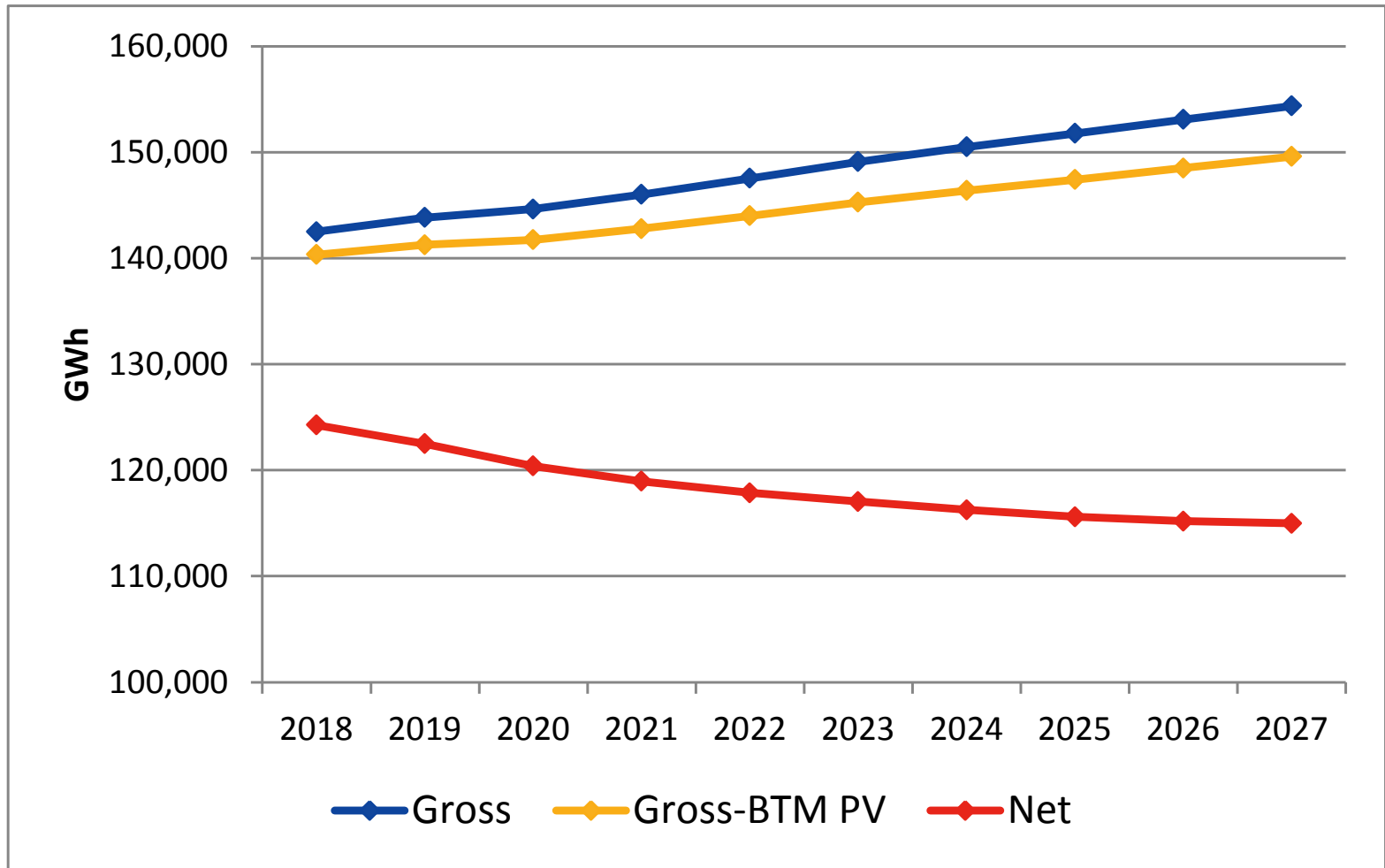
2018 (+0.3%, +410 GWh)

2022 (+0.3%, +411 GWh)

2026 (+0.3%, +479 GWh)

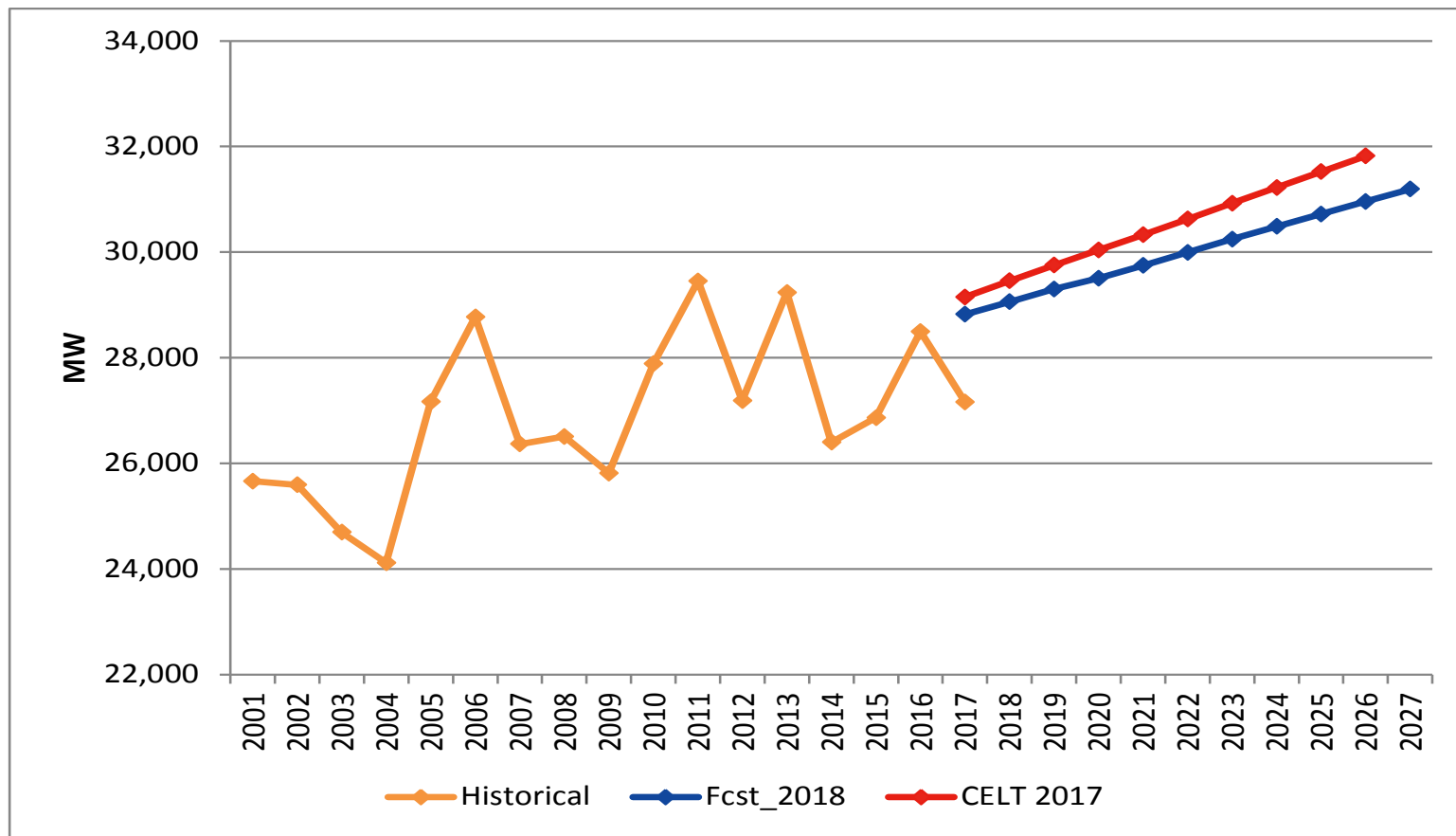
2018 CELT Energy Forecast

New England



2018 CELT Gross Summer 50/50 Peak Demand Forecast

New England



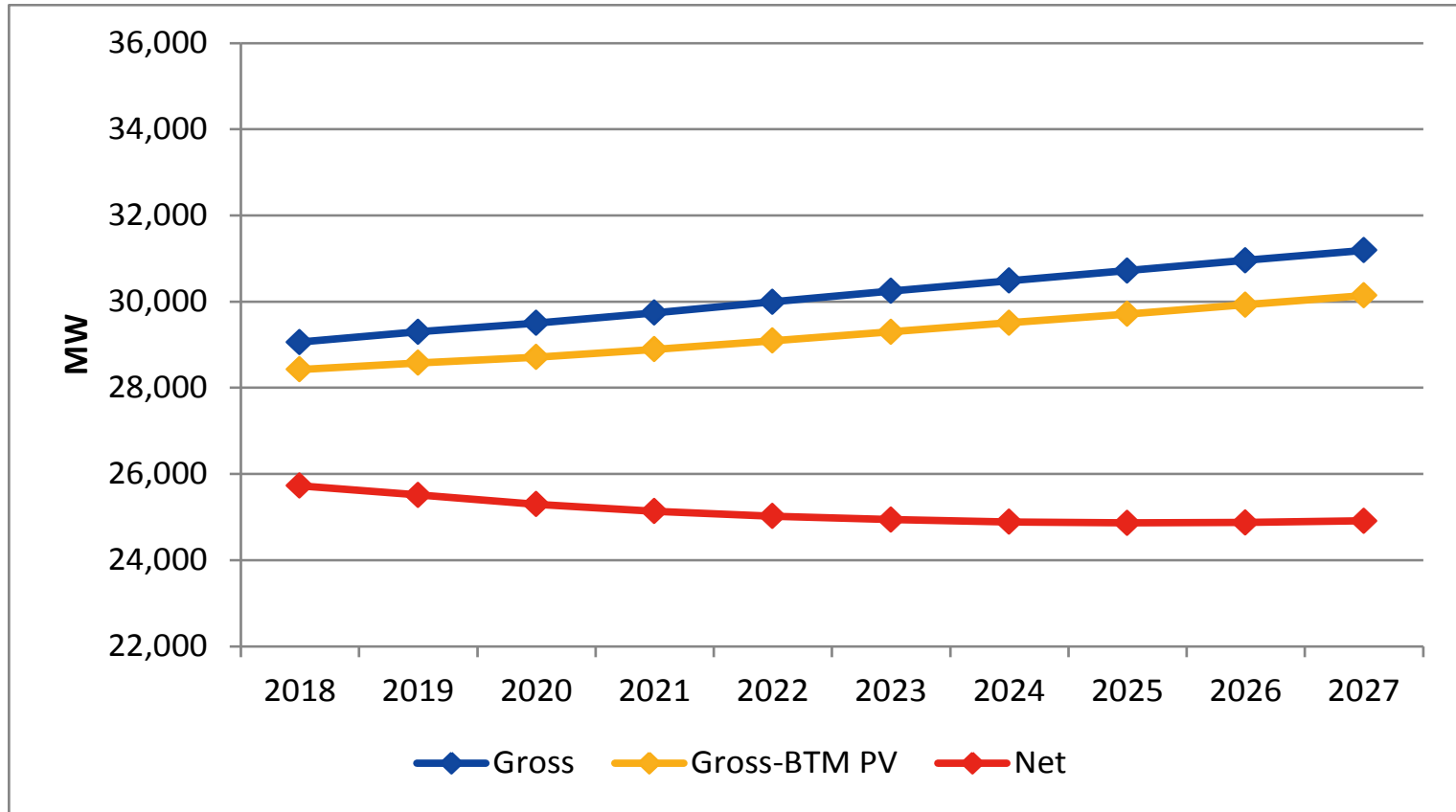
2018 (-1.3%, -394 MW)

2022 (-2.1%, -629 MW)

2026 (-2.7%, -863 MW)

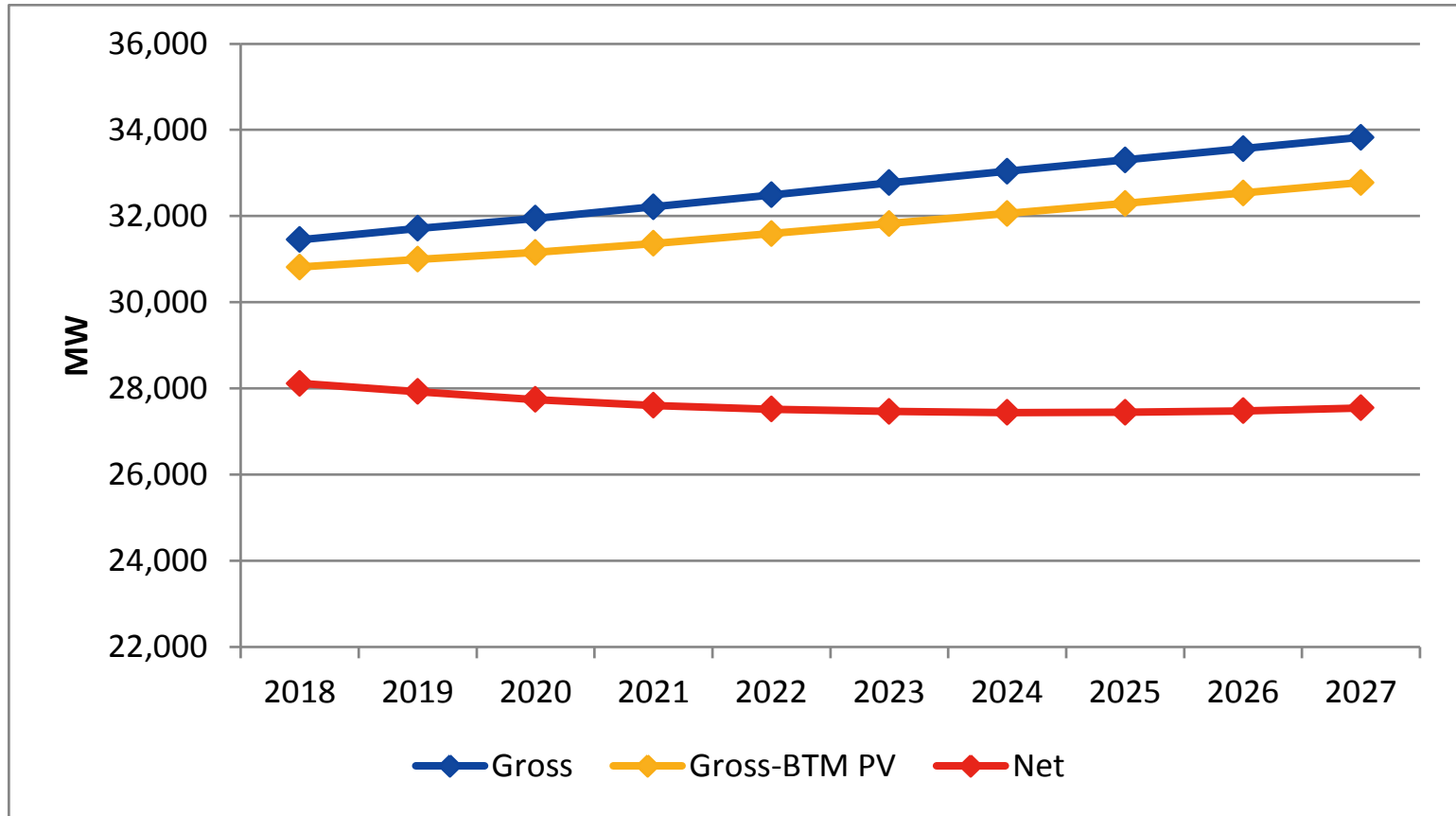
2018 CELT Summer 50/50 Peak Demand Forecast

New England



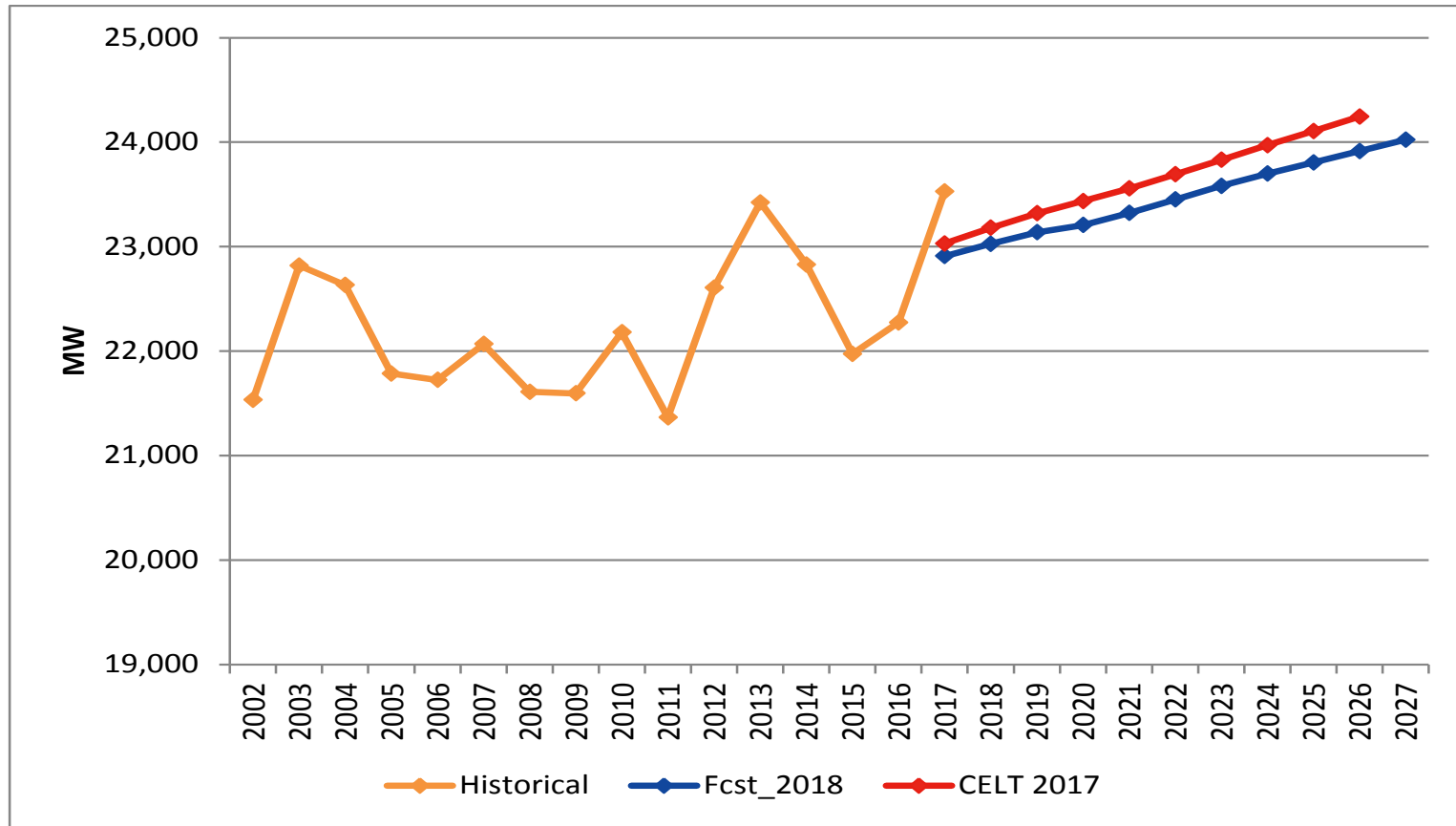
2018 CELT Summer 90/10 Peak Demand Forecast

New England



2018 CELT Gross Winter 50/50 Peak Demand Forecast

New England



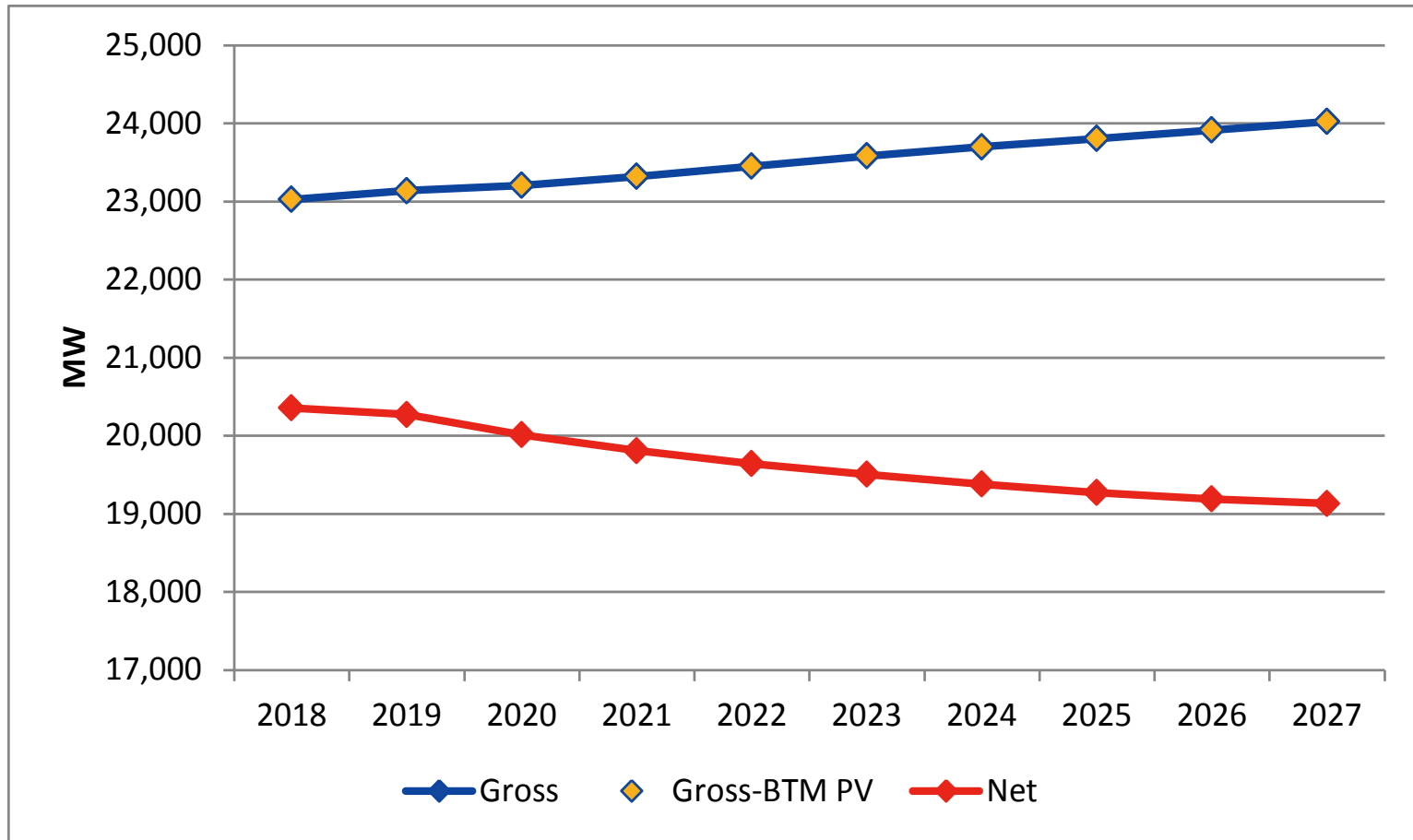
2018 (-0.7%, -154 MW)

2022 (-1.0%, -241 MW)

2026 (-1.4%, -329 MW)

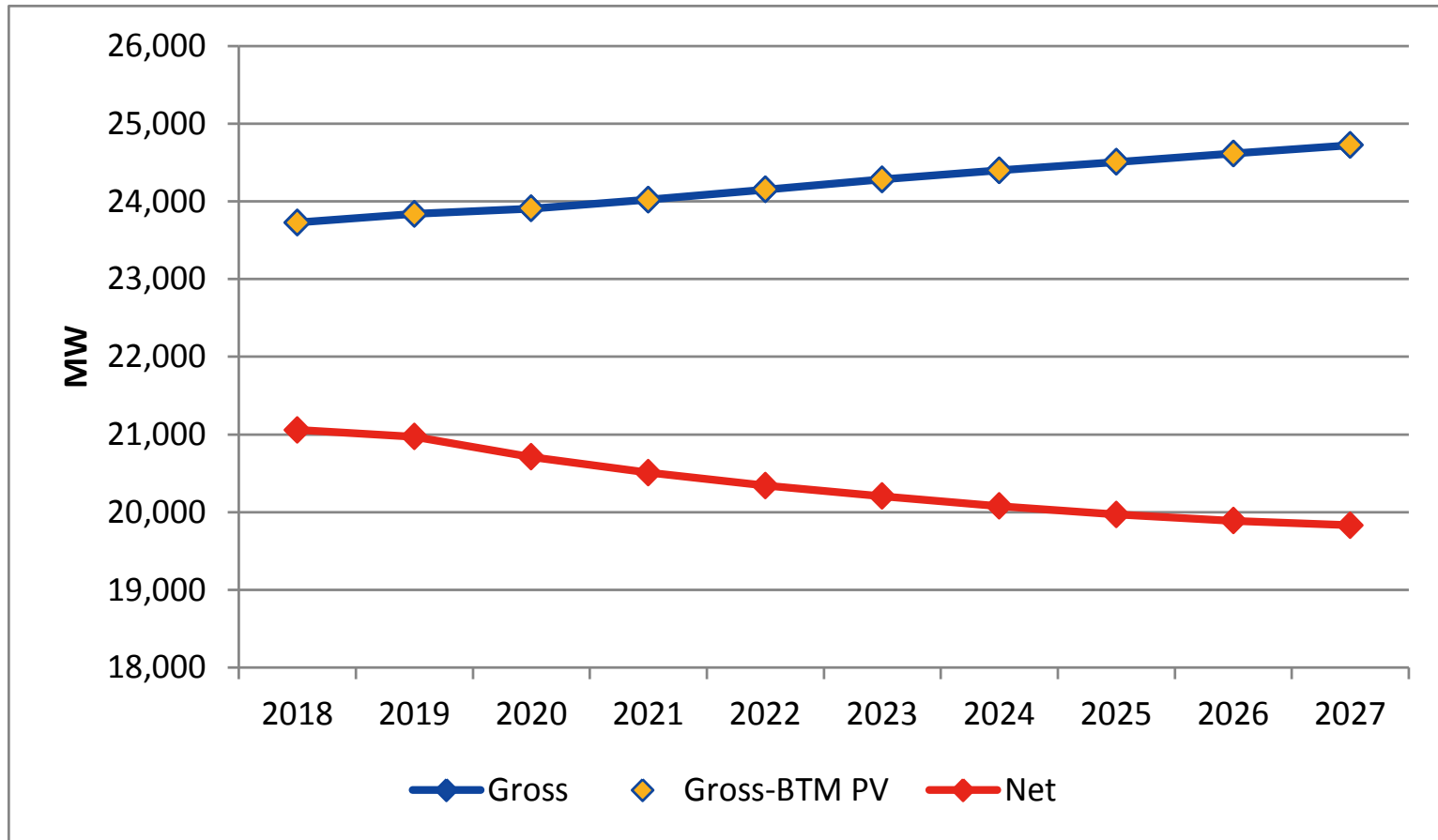
2018 CELT Winter 50/50 Peak Demand Forecast

New England



2018 CELT Winter 90/10 Peak Demand Forecast

New England



Next Steps

- The final forecast will be published as part of the 2018 CELT by May 1st
- Additional forecast data and information about the 2018 forecast will be available at: <https://www.iso-ne.com/system-planning/system-forecasting/load-forecast/> ; including:
 - Regional hourly load forecast (text file)
 - Sub-area hourly load forecast (text file)
 - Load zone hourly load forecast (text file)
 - Forecast data (spreadsheet)
 - Regional and State Energy & Peak Model Details (spreadsheet)
 - Forecast modeling procedure (document)

Questions



APPENDIX

- 1) *Forecast Summary (Tab 14)*
- 2) *Summer Peak (Tab 2A)*
- 3) *Winter Peak (Tab 2B)*
- 4) *Annual Energy (Tab 2C)*
- 5) *Forecast Comparison: 2018 CELT vs. 2017 CELT (Tab 10G/N)*

Gross Forecast: ISO-NE, States, Subareas and Load Zones (Tab 14)

2018 CELT GROSS Forecast: ISO-NE, States, Subareas, and Load Zones

		Annual Energy (GWh)			50/50 Summer Peak (MW)			90/10 Summer Peak (MW)			50/50 Winter Peak (MW)			90/10 Winter Peak (MW)		
		2018	2027	CAGR	2018	2027	CAGR	2018	2027	CAGR	2018	2027	CAGR	2018	2027	CAGR
State	ISONE	142,488	154,364	0.9	29,060	31,192	0.8	31,451	33,828	0.8	23,026	24,024	0.5	23,725	24,723	0.5
State	CT	34,206	35,981	0.6	7,400	7,712	0.5	8,037	8,381	0.5	5,669	5,774	0.2	5,842	5,947	0.2
State	ME	12,878	14,222	1.1	2,111	2,229	0.6	2,244	2,366	0.6	2,067	2,235	0.9	2,125	2,293	0.9
State	MA	66,532	73,422	1.1	13,836	15,125	1.0	14,951	16,387	1.0	10,652	11,243	0.6	10,973	11,564	0.6
State	NH	12,559	13,461	0.8	2,501	2,684	0.8	2,693	2,894	0.8	2,041	2,088	0.3	2,123	2,169	0.2
State	RI	9,357	9,926	0.7	2,099	2,284	0.9	2,367	2,592	1.0	1,482	1,521	0.3	1,531	1,570	0.3
State	VT	6,956	7,353	0.6	1,113	1,158	0.4	1,159	1,209	0.5	1,115	1,162	0.5	1,132	1,179	0.5
RSP Subarea	BHE	1,861	2,056	1.1	310	327	0.6	329	347	0.6	294	318	0.9	302	326	0.9
RSP Subarea	ME	6,177	6,829	1.1	990	1,046	0.6	1,052	1,110	0.6	1,014	1,098	0.9	1,042	1,126	0.9
RSP Subarea	SME	4,482	4,946	1.1	755	797	0.6	802	846	0.6	700	756	0.9	719	775	0.8
RSP Subarea	NH	10,755	11,631	0.9	2,111	2,284	0.9	2,271	2,459	0.9	1,746	1,805	0.4	1,814	1,873	0.4
RSP Subarea	VT	7,893	8,366	0.6	1,330	1,395	0.5	1,397	1,469	0.6	1,274	1,322	0.4	1,301	1,349	0.4
RSP Subarea	Boston	30,475	33,563	1.1	6,327	6,856	0.9	6,837	7,428	0.9	4,885	5,182	0.7	5,033	5,330	0.6
RSP Subarea	CMA/NEMA	8,796	9,745	1.1	1,832	2,017	1.1	1,979	2,185	1.1	1,404	1,483	0.6	1,447	1,526	0.6
RSP Subarea	WMA	10,958	11,979	1.0	2,215	2,415	1.0	2,391	2,613	1.0	1,792	1,865	0.4	1,845	1,917	0.4
RSP Subarea	SEMA	14,812	16,284	1.1	3,142	3,437	1.0	3,404	3,733	1.0	2,332	2,447	0.5	2,403	2,518	0.5
RSP Subarea	RI	12,506	13,435	0.8	2,741	3,004	1.0	3,052	3,362	1.1	1,988	2,046	0.3	2,051	2,109	0.3
RSP Subarea	CT	16,481	17,264	0.5	3,566	3,701	0.4	3,873	4,022	0.4	2,731	2,770	0.2	2,814	2,853	0.2
RSP Subarea	SWCT	11,135	11,664	0.5	2,408	2,499	0.4	2,615	2,716	0.4	1,846	1,873	0.2	1,902	1,929	0.2
RSP Subarea	NOR	6,158	6,602	0.8	1,332	1,415	0.7	1,447	1,538	0.7	1,020	1,059	0.4	1,052	1,091	0.4
Load Zone	SEMA	17,961	19,794	1.1	3,784	4,157	1.0	4,089	4,503	1.1	2,838	2,972	0.5	2,923	3,057	0.5
Load Zone	WCMA	18,926	20,873	1.1	3,902	4,282	1.0	4,216	4,640	1.1	3,057	3,209	0.5	3,149	3,301	0.5
Load Zone	NEMA	29,645	32,756	1.1	6,150	6,686	0.9	6,646	7,244	1.0	4,757	5,062	0.7	4,901	5,206	0.7

Gross-PV Forecast: ISO-NE, States, Subareas and Load Zones (Tab 14)

2018 CELT GROSS-PV Forecast: ISO-NE, States, Subareas, and Load Zones

		Annual Energy (GWh)			50/50 Summer Peak (MW)			90/10 Summer Peak (MW)			50/50 Winter Peak (MW)			90/10 Winter Peak (MW)		
		2018	2027	CAGR	2018	2027	CAGR	2018	2027	CAGR	2018	2027	CAGR	2018	2027	CAGR
State	ISONE	140,326	149,581	0.7	28,427	30,141	0.7	30,818	32,777	0.7	23,026	24,024	0.5	23,725	24,723	0.5
State	CT	33,667	34,656	0.3	7,245	7,426	0.3	7,882	8,095	0.3	5,669	5,774	0.2	5,842	5,947	0.2
State	ME	12,828	14,058	1.0	2,096	2,193	0.5	2,229	2,330	0.5	2,067	2,235	0.9	2,125	2,293	0.9
State	MA	65,447	71,200	0.9	13,520	14,638	0.9	14,635	15,900	0.9	10,652	11,243	0.6	10,973	11,564	0.6
State	NH	12,471	13,238	0.7	2,475	2,634	0.7	2,667	2,844	0.7	2,041	2,088	0.3	2,123	2,169	0.2
State	RI	9,300	9,662	0.4	2,083	2,227	0.7	2,351	2,535	0.8	1,482	1,521	0.3	1,531	1,570	0.3
State	VT	6,611	6,769	0.3	1,008	1,024	0.2	1,054	1,075	0.2	1,115	1,162	0.5	1,132	1,179	0.5
RSP Subarea	BHE	1,855	2,036	1.0	308	323	0.5	327	343	0.5	294	318	0.9	302	326	0.9
RSP Subarea	ME	6,151	6,742	1.0	982	1,027	0.5	1,045	1,091	0.5	1,014	1,098	0.9	1,042	1,126	0.9
RSP Subarea	SME	4,466	4,893	1.0	750	785	0.5	798	834	0.5	700	756	0.9	719	775	0.8
RSP Subarea	NH	10,668	11,422	0.8	2,085	2,236	0.8	2,245	2,412	0.8	1,746	1,805	0.4	1,814	1,873	0.4
RSP Subarea	VT	7,573	7,814	0.3	1,232	1,268	0.3	1,300	1,342	0.4	1,274	1,322	0.4	1,301	1,349	0.4
RSP Subarea	Boston	30,278	33,159	1.0	6,270	6,767	0.9	6,780	7,339	0.9	4,885	5,182	0.7	5,033	5,330	0.6
RSP Subarea	CMA/NEMA	8,639	9,423	1.0	1,787	1,947	1.0	1,934	2,115	1.0	1,404	1,483	0.6	1,447	1,526	0.6
RSP Subarea	WMA	10,588	11,226	0.7	2,107	2,249	0.7	2,283	2,448	0.8	1,792	1,865	0.4	1,845	1,917	0.4
RSP Subarea	SEMA	14,487	15,605	0.8	3,048	3,288	0.8	3,309	3,585	0.9	2,332	2,447	0.5	2,403	2,518	0.5
RSP Subarea	RI	12,378	13,038	0.6	2,704	2,917	0.8	3,015	3,275	0.9	1,988	2,046	0.3	2,051	2,109	0.3
RSP Subarea	CT	16,163	16,482	0.2	3,475	3,532	0.2	3,782	3,853	0.2	2,731	2,770	0.2	2,814	2,853	0.2
RSP Subarea	SWCT	10,963	11,242	0.3	2,359	2,408	0.2	2,566	2,625	0.3	1,846	1,873	0.2	1,902	1,929	0.2
RSP Subarea	NOR	6,117	6,501	0.7	1,320	1,393	0.6	1,435	1,516	0.6	1,020	1,059	0.4	1,052	1,091	0.4
Load Zone	SEMA	17,565	18,982	0.9	3,378	3,315	(0.2)	3,683	3,662	(0.1)	2,438	2,209	(1.1)	2,523	2,294	(1.1)
Load Zone	WCMA	18,424	19,843	0.8	3,483	3,415	(0.2)	3,797	3,773	(0.1)	2,626	2,385	(1.1)	2,718	2,477	(1.0)
Load Zone	NEMA	29,459	32,375	1.1	5,490	5,332	(0)	5,986	5,890	(0.2)	4,086	3,762	(1)	4,230	3,907	(0.9)

Net Forecast: ISO-NE, States, Subareas and Load Zones (Tab 14)

2018 CELT Net Forecast: ISO-NE, States, Subareas, and Load Zones

		Annual Energy (GWh)			50/50 Summer Peak (MW)			90/10 Summer Peak (MW)			50/50 Winter Peak (MW)			90/10 Winter Peak (MW)		
		2018	2027	CAGR	2018	2027	CAGR	2018	2027	CAGR	2018	2027	CAGR	2018	2027	CAGR
State	ISONE	124,252	114,980	(0.9)	25,728	24,912	(0.4)	28,119	27,548	(0.2)	20,357	19,133	(0.7)	21,056	19,832	(0.7)
State	CT	30,300	28,593	(0.6)	6,675	6,474	(0.3)	7,312	7,143	(0.3)	5,158	4,917	(0.5)	5,331	5,090	(0.5)
State	ME	11,612	11,785	0.2	1,920	1,878	(0.2)	2,053	2,015	(0.2)	1,888	1,935	0.3	1,946	1,993	0.3
State	MA	56,807	51,194	(1.1)	12,035	11,576	(0.4)	13,150	12,838	(0.3)	9,150	8,357	(1.0)	9,471	8,678	(1.0)
State	NH	11,837	11,875	0.0	2,366	2,420	0.3	2,558	2,630	0.3	1,946	1,914	(0.2)	2,028	1,995	(0.2)
State	RI	7,880	6,421	(2.3)	1,838	1,753	(0.5)	2,106	2,061	(0.2)	1,242	1,055	(1.8)	1,291	1,104	(1.7)
State	VT	5,814	5,115	(1.4)	894	812	(1.1)	940	863	(0.9)	973	955	(0.2)	990	972	(0.2)
RSP Subarea	BHE	1,679	1,707	0.2	282	277	(0.2)	302	297	(0.2)	269	275	0.3	277	284	0.3
RSP Subarea	ME	5,568	5,651	0.2	900	879	(0.3)	962	943	(0.2)	926	950	0.3	954	979	0.3
RSP Subarea	SME	4,043	4,102	0.2	687	672	(0.2)	735	721	(0.2)	639	654	0.3	659	674	0.3
RSP Subarea	NH	10,090	10,184	0.1	1,988	2,045	0.3	2,147	2,221	0.4	1,659	1,647	(0.1)	1,727	1,715	(0.1)
RSP Subarea	VT	6,778	6,158	(1.1)	1,116	1,050	(0.7)	1,184	1,124	(0.6)	1,134	1,114	(0.2)	1,161	1,141	(0.2)
RSP Subarea	Boston	26,349	24,061	(1.0)	5,596	5,387	(0.4)	6,105	5,958	(0.3)	4,201	3,859	(0.9)	4,349	4,007	(0.9)
RSP Subarea	CMA/NEMA	7,528	6,840	(1.1)	1,595	1,549	(0.3)	1,742	1,717	(0.2)	1,212	1,114	(0.9)	1,255	1,157	(0.9)
RSP Subarea	WMA	9,186	8,033	(1.5)	1,873	1,770	(0.6)	2,049	1,968	(0.4)	1,544	1,401	(1.1)	1,597	1,453	(1.0)
RSP Subarea	SEMA	12,545	11,121	(1.3)	2,709	2,591	(0.5)	2,970	2,888	(0.3)	2,001	1,812	(1.1)	2,071	1,883	(1.1)
RSP Subarea	RI	10,567	8,887	(1.9)	2,392	2,299	(0.4)	2,703	2,657	(0.2)	1,679	1,452	(1.6)	1,743	1,515	(1.5)
RSP Subarea	CT	14,541	13,573	(0.8)	3,200	3,075	(0.4)	3,507	3,396	(0.4)	2,485	2,359	(0.6)	2,568	2,442	(0.6)
RSP Subarea	SWCT	9,867	9,277	(0.7)	2,173	2,099	(0.4)	2,381	2,316	(0.3)	1,680	1,595	(0.6)	1,736	1,651	(0.6)
RSP Subarea	NOR	5,510	5,388	(0.2)	1,218	1,219	0.0	1,333	1,341	0.1	928	902	(0.3)	960	934	(0.3)
Load Zone	SEMA	15,232	13,588	(1.3)	3,263	3,137	(0.4)	3,568	3,484	(0.3)	2,438	2,209	(1.1)	2,523	2,294	(1.1)
Load Zone	WCMA	15,966	14,156	(1.3)	3,337	3,190	(0.5)	3,651	3,547	(0.3)	2,626	2,385	(1.1)	2,718	2,477	(1.0)
Load Zone	NEMA	25,609	23,450	(1.0)	5,436	5,249	(0.4)	5,932	5,807	(0.2)	4,086	3,762	(0.9)	4,230	3,907	(0.9)

Summer Peak Forecast: ISO-NE, States, Subareas and Load Zones (Tab 2A)

SUMMER PEAK(MW)										
	GROSS				GROSS-PV				Net	
ISO-NE	50/50	90/10		PV	50/50	90/10		EE	50/50	90/10
2018	29,060	31,451		633	28,427	30,818		2,699	25,728	28,119
2019	29,298	31,716		721	28,577	30,995		3,066	25,511	27,929
2020	29,504	31,950		790	28,714	31,160		3,416	25,298	27,744
2021	29,744	32,217		851	28,893	31,366		3,757	25,136	27,609
2022	29,994	32,494		901	29,093	31,593		4,072	25,021	27,521
2023	30,245	32,773		945	29,300	31,828		4,359	24,941	27,469
2024	30,486	33,041		980	29,506	32,061		4,617	24,889	27,444
2025	30,721	33,303		1,009	29,712	32,294		4,848	24,864	27,446
2026	30,957	33,566		1,031	29,926	32,535		5,052	24,874	27,483
2027	31,192	33,828		1,051	30,141	32,777		5,229	24,912	27,548
CAGR	0.8	0.8		5.8	0.7	0.7		7.6	(0.4)	(0.2)



Summer Peak Forecast: ISO-NE, States, Subareas and Load Zones (Tab 2A)

SUMMER PEAK(MW)										
	GROSS			GROSS-PV			Net			
STATES:										
CT	50/50	90/10	PV	50/50	90/10	EE	50/50	90/10		
2018	7,400	8,037	155	7,245	7,882	570	6,675	7,312		
2019	7,435	8,076	182	7,253	7,894	612	6,641	7,282		
2020	7,463	8,107	207	7,256	7,900	655	6,601	7,245		
2021	7,499	8,146	229	7,270	7,917	710	6,560	7,207		
2022	7,536	8,188	246	7,290	7,942	761	6,529	7,181		
2023	7,574	8,229	259	7,315	7,970	808	6,507	7,162		
2024	7,609	8,268	266	7,343	8,002	851	6,492	7,151		
2025	7,643	8,305	273	7,370	8,032	889	6,481	7,143		
2026	7,678	8,343	280	7,398	8,063	923	6,475	7,140		
2027	7,712	8,381	286	7,426	8,095	952	6,474	7,143		
CAGR	0.5	0.5	7.0	0.3	0.3	5.9	(0.3)	(0.3)		
ME	50/50	90/10	PV	50/50	90/10	EE	50/50	90/10		
2018	2,111	2,244	15	2,096	2,229	176	1,920	2,053		
2019	2,120	2,254	18	2,102	2,236	197	1,905	2,039		
2020	2,127	2,261	21	2,106	2,240	217	1,889	2,023		
2021	2,140	2,275	24	2,116	2,251	236	1,880	2,015		
2022	2,156	2,291	26	2,130	2,265	253	1,877	2,012		
2023	2,173	2,308	28	2,145	2,280	268	1,877	2,012		
2024	2,188	2,323	31	2,157	2,292	282	1,875	2,010		
2025	2,202	2,338	32	2,170	2,306	295	1,875	2,011		
2026	2,216	2,352	34	2,182	2,318	306	1,876	2,012		
2027	2,229	2,366	36	2,193	2,330	315	1,878	2,015		
CAGR	0.6	0.6	10.2	0.5	0.5	6.7	(0.2)	(0.2)		



Summer Peak Forecast: ISO-NE, States, Subareas and Load Zones (Tab 2A)

SUMMER PEAK(MW)										
MA	GROSS			PV	GROSS-PV			EE	Net	
	50/50	90/10			50/50	90/10			50/50	90/10
2018	13,836	14,951		316	13,520	14,635		1,485	12,035	13,150
2019	13,982	15,114		356	13,626	14,758		1,726	11,900	13,032
2020	14,113	15,261		384	13,729	14,877		1,952	11,777	12,925
2021	14,257	15,422		408	13,849	15,014		2,163	11,686	12,851
2022	14,405	15,586		429	13,976	15,157		2,356	11,620	12,801
2023	14,555	15,751		448	14,107	15,303		2,532	11,575	12,771
2024	14,699	15,913		465	14,234	15,448		2,690	11,544	12,758
2025	14,841	16,071		477	14,364	15,594		2,831	11,533	12,763
2026	14,983	16,229		483	14,500	15,746		2,955	11,545	12,791
2027	15,125	16,387		487	14,638	15,900		3,062	11,576	12,838
CAGR	1.0	1.0		4.9	0.9	0.9		8.4	(0.4)	(0.3)
NH	GROSS			PV	GROSS-PV			EE	Net	
	50/50	90/10			50/50	90/10			50/50	90/10
2018	2,501	2,693		26	2,475	2,667		109	2,366	2,558
2019	2,524	2,718		30	2,494	2,688		124	2,370	2,564
2020	2,541	2,737		34	2,507	2,703		139	2,368	2,564
2021	2,562	2,760		37	2,525	2,723		153	2,372	2,570
2022	2,584	2,783		39	2,545	2,744		166	2,379	2,578
2023	2,606	2,807		42	2,564	2,765		177	2,387	2,588
2024	2,626	2,830		44	2,582	2,786		188	2,394	2,598
2025	2,645	2,851		46	2,599	2,805		198	2,401	2,607
2026	2,664	2,872		48	2,616	2,824		206	2,410	2,618
2027	2,684	2,894		50	2,634	2,844		214	2,420	2,630
CAGR	0.8	0.8		7.5	0.7	0.7		7.8	0.3	0.3



Summer Peak Forecast: ISO-NE, States, Subareas and Load Zones (Tab 2A)

SUMMER PEAK(MW)										
	GROSS				GROSS-PV				Net	
RI	50/50	90/10		PV	50/50	90/10		EE	50/50	90/10
2018	2,099	2,367		16	2,083	2,351		245	1,838	2,106
2019	2,118	2,390		23	2,095	2,367		278	1,817	2,089
2020	2,137	2,414		29	2,108	2,385		311	1,797	2,074
2021	2,158	2,439		34	2,124	2,405		341	1,783	2,064
2022	2,179	2,464		39	2,140	2,425		369	1,771	2,056
2023	2,200	2,490		43	2,157	2,447		395	1,762	2,052
2024	2,220	2,515		47	2,173	2,468		418	1,755	2,050
2025	2,241	2,540		50	2,191	2,490		439	1,752	2,051
2026	2,262	2,566		54	2,208	2,512		457	1,751	2,055
2027	2,284	2,592		57	2,227	2,535		474	1,753	2,061
CAGR	0.9	1.0		15.2	0.7	0.8		7.6	(0.5)	(0.2)
VT	50/50	90/10		PV	50/50	90/10		EE	50/50	90/10
2018	1,113	1,159		105	1,008	1,054		114	894	940
2019	1,118	1,165		112	1,006	1,053		129	877	924
2020	1,123	1,170		116	1,007	1,054		142	865	912
2021	1,128	1,176		119	1,009	1,057		155	854	902
2022	1,133	1,182		122	1,011	1,060		167	844	893
2023	1,138	1,187		125	1,013	1,062		178	835	884
2024	1,143	1,193		127	1,016	1,066		187	829	879
2025	1,148	1,198		129	1,019	1,069		197	822	872
2026	1,153	1,204		132	1,021	1,072		205	816	867
2027	1,158	1,209		134	1,024	1,075		212	812	863
CAGR	0.4	0.5		2.7	0.2	0.2		7.1	(1.1)	(0.9)



Summer Peak Forecast: ISO-NE, States, Subareas and Load Zones (Tab 2A)

SUMMER PEAK(MW)											
	GROSS				GROSS-PV				Net		
SUBAREAS:											
BHE	50/50	90/10		PV		50/50	90/10		EE	50/50	90/10
2018	310	329		2		308	327		26	282	302
2019	311	331		2		309	328		29	280	300
2020	312	332		3		310	329		32	278	297
2021	314	334		3		311	331		35	277	296
2022	316	336		3		313	333		37	276	296
2023	319	339		3		315	335		39	276	296
2024	321	341		4		317	337		41	276	296
2025	323	343		4		319	339		43	276	296
2026	325	345		4		321	341		45	276	296
2027	327	347		4		323	343		46	277	297
CAGR	0.6	0.6		10.6		0.5	0.5		6.7	(0.2)	(0.2)
ME	50/50	90/10		PV		50/50	90/10		EE	50/50	90/10
2018	990	1,052		8		982	1,045		83	900	962
2019	994	1,057		9		985	1,047		92	892	955
2020	998	1,060		11		986	1,049		102	885	947
2021	1,004	1,067		13		991	1,054		111	881	944
2022	1,011	1,075		14		998	1,061		119	879	942
2023	1,019	1,083		15		1,004	1,068		126	879	942
2024	1,026	1,090		16		1,010	1,074		132	878	942
2025	1,033	1,097		17		1,016	1,080		138	877	941
2026	1,040	1,104		18		1,021	1,085		144	878	942
2027	1,046	1,110		19		1,027	1,091		148	879	943
CAGR	0.6	0.6		10.6		0.5	0.5		6.7	(0.3)	(0.2)

Summer Peak Forecast: ISO-NE, States, Subareas and Load Zones (Tab 2A)

SUMMER PEAK(MW)										
SME	GROSS			PV	GROSS-PV			EE	Net	
	50/50	90/10			50/50	90/10			50/50	90/10
2018	755	802		5	750	798		63	687	735
2019	758	806		6	752	800		70	682	729
2020	760	808		7	754	801		78	676	724
2021	765	813		8	757	805		84	673	721
2022	771	819		9	762	810		90	672	720
2023	777	825		9	767	816		96	672	720
2024	782	831		10	772	821		101	671	720
2025	787	836		11	776	825		105	671	720
2026	792	841		11	781	830		109	671	720
2027	797	846		12	785	834		113	672	721
CAGR	0.6	0.6		10.6	0.5	0.5		6.7	(0.2)	(0.2)
NH	50/50	90/10		PV	50/50	90/10		EE	50/50	90/10
2018	2,111	2,271		26	2,085	2,245		97	1,988	2,147
2019	2,133	2,294		30	2,103	2,264		110	1,993	2,154
2020	2,149	2,312		33	2,116	2,279		124	1,992	2,156
2021	2,168	2,333		35	2,133	2,298		136	1,997	2,162
2022	2,189	2,355		38	2,151	2,318		148	2,003	2,170
2023	2,209	2,378		40	2,169	2,338		158	2,012	2,180
2024	2,228	2,399		42	2,187	2,357		167	2,019	2,190
2025	2,247	2,419		44	2,203	2,375		176	2,027	2,199
2026	2,265	2,439		46	2,219	2,393		184	2,036	2,210
2027	2,284	2,459		47	2,236	2,412		191	2,045	2,221
CAGR	0.9	0.9		6.8	0.8	0.8		7.8	0.3	0.4



Summer Peak Forecast: ISO-NE, States, Subareas and Load Zones (Tab 2A)

SUMMER PEAK(MW)										
VT	GROSS		PV	GROSS-PV		EE	Net			
	50/50	90/10		50/50	90/10		50/50	90/10		
2018	1,330	1,397	97	1,232	1,300	116	1,116	1,184		
2019	1,338	1,406	104	1,234	1,302	132	1,102	1,170		
2020	1,344	1,413	108	1,236	1,305	145	1,091	1,160		
2021	1,352	1,421	111	1,240	1,310	159	1,081	1,151		
2022	1,359	1,430	114	1,245	1,315	171	1,074	1,144		
2023	1,367	1,438	117	1,250	1,321	182	1,067	1,138		
2024	1,374	1,446	120	1,254	1,326	192	1,062	1,134		
2025	1,381	1,453	122	1,259	1,331	202	1,057	1,129		
2026	1,388	1,461	124	1,263	1,337	210	1,053	1,126		
2027	1,395	1,469	127	1,268	1,342	218	1,050	1,124		
CAGR	0.5	0.6	3.0	0.3	0.4	7.2	(0.7)	(0.6)		
Boston	50/50	90/10	PV	50/50	90/10	EE	50/50	90/10		
2018	6,327	6,837	57	6,270	6,780	674	5,596	6,105		
2019	6,388	6,904	65	6,323	6,839	783	5,540	6,056		
2020	6,441	6,964	70	6,371	6,895	885	5,486	6,010		
2021	6,500	7,030	74	6,426	6,956	980	5,446	5,976		
2022	6,561	7,098	78	6,483	7,020	1,066	5,417	5,954		
2023	6,622	7,167	82	6,541	7,085	1,145	5,396	5,940		
2024	6,682	7,233	85	6,597	7,148	1,216	5,381	5,933		
2025	6,740	7,298	87	6,653	7,211	1,279	5,375	5,933		
2026	6,798	7,363	88	6,710	7,275	1,334	5,377	5,942		
2027	6,856	7,428	89	6,767	7,339	1,381	5,387	5,958		
CAGR	0.9	0.9	5.0	0.9	0.9	8.3	(0.4)	(0.3)		



Summer Peak Forecast: ISO-NE, States, Subareas and Load Zones (Tab 2A)

SUMMER PEAK(MW)										
CMA/NEMA	GROSS		PV	GROSS-PV		EE	Net			
	50/50	90/10		50/50	90/10		50/50	90/10		
2018	1,832	1,979	46	1,787	1,934	192	1,595	1,742		
2019	1,853	2,003	51	1,802	1,951	223	1,579	1,729		
2020	1,872	2,024	55	1,817	1,969	252	1,564	1,716		
2021	1,893	2,047	59	1,834	1,988	280	1,554	1,708		
2022	1,914	2,071	62	1,852	2,009	305	1,547	1,704		
2023	1,935	2,094	65	1,871	2,029	328	1,543	1,702		
2024	1,956	2,117	67	1,889	2,050	349	1,540	1,701		
2025	1,977	2,140	69	1,908	2,071	367	1,540	1,704		
2026	1,997	2,163	70	1,927	2,093	384	1,544	1,709		
2027	2,017	2,185	71	1,947	2,115	398	1,549	1,717		
CAGR	1.1	1.1	5.0	1.0	1.0	8.5	(0.3)	(0.2)		
WMA	50/50	90/10	PV	50/50	90/10	EE	50/50	90/10		
2018	2,215	2,391	108	2,107	2,283	235	1,873	2,049		
2019	2,238	2,416	121	2,116	2,295	272	1,845	2,023		
2020	2,258	2,439	131	2,127	2,308	307	1,821	2,002		
2021	2,280	2,464	139	2,142	2,325	339	1,802	1,986		
2022	2,303	2,489	146	2,157	2,344	370	1,788	1,974		
2023	2,326	2,515	152	2,174	2,363	397	1,777	1,966		
2024	2,349	2,540	158	2,191	2,382	421	1,769	1,961		
2025	2,371	2,564	162	2,209	2,402	444	1,765	1,959		
2026	2,393	2,589	164	2,229	2,425	463	1,766	1,962		
2027	2,415	2,613	165	2,249	2,448	480	1,770	1,968		
CAGR	1.0	1.0	4.9	0.7	0.8	8.3	(0.6)	(0.4)		



Summer Peak Forecast: ISO-NE, States, Subareas and Load Zones (Tab 2A)

SUMMER PEAK(MW)										
	GROSS				GROSS-PV				Net	
SEMA	50/50	90/10		PV	50/50	90/10		EE	50/50	90/10
2018	3,142	3,404		95	3,048	3,309		339	2,709	2,970
2019	3,176	3,441		107	3,068	3,334		393	2,675	2,940
2020	3,206	3,475		116	3,090	3,359		445	2,645	2,914
2021	3,239	3,512		124	3,115	3,388		492	2,622	2,896
2022	3,272	3,549		130	3,142	3,419		536	2,606	2,883
2023	3,306	3,587		136	3,170	3,451		576	2,594	2,875
2024	3,339	3,624		142	3,198	3,483		612	2,586	2,871
2025	3,372	3,661		145	3,226	3,515		644	2,582	2,871
2026	3,404	3,697		147	3,257	3,550		672	2,585	2,878
2027	3,437	3,733		149	3,288	3,585		697	2,591	2,888
CAGR	1.0	1.0		5.1	0.8	0.9		8.3	(0.5)	(0.3)
RI	50/50	90/10		PV	50/50	90/10		EE	50/50	90/10
2018	2,741	3,052		37	2,704	3,015		312	2,392	2,703
2019	2,769	3,085		46	2,723	3,039		357	2,366	2,682
2020	2,796	3,117		53	2,743	3,064		401	2,342	2,663
2021	2,825	3,152		60	2,766	3,092		441	2,325	2,651
2022	2,855	3,187		65	2,790	3,122		479	2,311	2,643
2023	2,885	3,222		70	2,815	3,152		513	2,302	2,639
2024	2,914	3,257		75	2,839	3,182		544	2,295	2,638
2025	2,944	3,291		79	2,865	3,212		572	2,293	2,640
2026	2,974	3,326		83	2,891	3,244		596	2,294	2,647
2027	3,004	3,362		86	2,917	3,275		619	2,299	2,657
CAGR	1.0	1.1		9.9	0.8	0.9		7.9	(0.4)	(0.2)



Summer Peak Forecast: ISO-NE, States, Subareas and Load Zones (Tab 2A)

SUMMER PEAK(MW)										
CT	GROSS		PV	GROSS-PV		EE	Net			
	50/50	90/10		50/50	90/10		50/50	90/10		
2018	3,566	3,873	91	3,475	3,782	275	3,200	3,507		
2019	3,581	3,890	107	3,474	3,783	295	3,179	3,488		
2020	3,593	3,903	122	3,471	3,781	315	3,155	3,466		
2021	3,608	3,920	135	3,473	3,785	342	3,132	3,443		
2022	3,625	3,938	145	3,480	3,793	366	3,114	3,427		
2023	3,641	3,956	153	3,489	3,804	388	3,100	3,415		
2024	3,657	3,973	157	3,500	3,816	409	3,091	3,407		
2025	3,671	3,989	161	3,510	3,828	427	3,083	3,401		
2026	3,686	4,006	165	3,521	3,840	443	3,078	3,397		
2027	3,701	4,022	169	3,532	3,853	457	3,075	3,396		
CAGR	0.4	0.4	7.1	0.2	0.2	5.8	(0.4)	(0.4)		
SWCT	50/50	90/10	PV	50/50	90/10	EE	50/50	90/10		
2018	2,408	2,615	49	2,359	2,566	185	2,173	2,381		
2019	2,418	2,627	58	2,360	2,569	199	2,161	2,370		
2020	2,426	2,636	66	2,360	2,570	213	2,147	2,357		
2021	2,437	2,647	73	2,364	2,574	231	2,133	2,343		
2022	2,448	2,659	78	2,369	2,581	247	2,122	2,334		
2023	2,459	2,671	82	2,376	2,589	262	2,114	2,327		
2024	2,469	2,683	85	2,384	2,598	276	2,108	2,322		
2025	2,479	2,694	87	2,392	2,607	288	2,104	2,318		
2026	2,489	2,705	89	2,400	2,615	299	2,100	2,316		
2027	2,499	2,716	91	2,408	2,625	308	2,099	2,316		
CAGR	0.4	0.4	7.1	0.2	0.3	5.8	(0.4)	(0.3)		



Summer Peak Forecast: ISO-NE, States, Subareas and Load Zones (Tab 2A)

SUMMER PEAK(MW)										
	GROSS				GROSS-PV				Net	
NOR	50/50	90/10		PV	50/50	90/10		EE	50/50	90/10
2018	1,332	1,447		12	1,320	1,435		103	1,218	1,333
2019	1,342	1,457		14	1,328	1,443		110	1,217	1,333
2020	1,350	1,466		16	1,334	1,450		118	1,215	1,332
2021	1,359	1,476		18	1,341	1,459		129	1,213	1,330
2022	1,369	1,487		19	1,350	1,468		138	1,212	1,330
2023	1,378	1,498		20	1,359	1,478		147	1,212	1,331
2024	1,388	1,508		20	1,367	1,487		155	1,212	1,332
2025	1,397	1,518		21	1,376	1,497		162	1,213	1,334
2026	1,406	1,528		21	1,385	1,506		169	1,216	1,337
2027	1,415	1,538		22	1,393	1,516		175	1,219	1,341
CAGR	0.7	0.7		7.1	0.6	0.6		6.1	0.0	0.1
LOAD ZONES (CT,ME,NH,RI,VT ARE ALSO THE LOAD ZONES)										
SEMA	50/50	90/10		PV	50/50	90/10		EE	50/50	90/10
2018	3,784	4,089		406	3,378	3,683		115	3,263	3,568
2019	3,826	4,136		472	3,354	3,664		130	3,224	3,533
2020	3,864	4,179		534	3,330	3,644		140	3,190	3,504
2021	3,906	4,225		593	3,313	3,632		149	3,164	3,483
2022	3,949	4,272		646	3,303	3,627		157	3,146	3,470
2023	3,992	4,320		694	3,297	3,626		164	3,134	3,462
2024	4,034	4,366		738	3,295	3,628		170	3,125	3,458
2025	4,075	4,412		777	3,297	3,635		174	3,123	3,460
2026	4,116	4,458		812	3,304	3,646		176	3,128	3,470
2027	4,157	4,503		841	3,315	3,662		178	3,137	3,484
CAGR	1.0	1.1		8.4	(0.2)	(0.1)		4.9	(0.4)	(0.3)

Summer Peak Forecast: ISO-NE, States, Subareas and Load Zones (Tab 2A)

SUMMER PEAK(MW)										
WCMA	GROSS			PV	GROSS-PV		EE	Net		
	50/50	90/10	50/50		90/10	50/50		90/10		
2018	3,902	4,216	419	3,483	3,797	146	3,337	3,651		
2019	3,945	4,264	487	3,458	3,777	165	3,293	3,612		
2020	3,984	4,308	551	3,433	3,757	178	3,255	3,579		
2021	4,026	4,355	611	3,415	3,744	189	3,226	3,555		
2022	4,070	4,403	666	3,404	3,738	199	3,206	3,539		
2023	4,114	4,452	716	3,398	3,737	208	3,191	3,529		
2024	4,157	4,500	761	3,396	3,739	216	3,180	3,523		
2025	4,199	4,546	801	3,398	3,745	221	3,177	3,524		
2026	4,241	4,593	836	3,404	3,757	224	3,181	3,533		
2027	4,282	4,640	867	3,415	3,773	225	3,190	3,547		
CAGR	1.0	1.1	8.4	(0.2)	(0.1)	4.9	(0.5)	(0.3)		
NEMA	GROSS		PV	GROSS-PV		EE	Net			
	50/50	90/10		50/50	90/10		50/50	90/10		
2018	6,150	6,646	660	5,490	5,986	54	5,436	5,932		
2019	6,211	6,714	767	5,444	5,947	61	5,383	5,886		
2020	6,265	6,775	867	5,399	5,908	66	5,333	5,842		
2021	6,325	6,842	960	5,366	5,882	70	5,296	5,812		
2022	6,387	6,910	1,045	5,342	5,866	73	5,269	5,792		
2023	6,449	6,979	1,122	5,327	5,857	77	5,250	5,781		
2024	6,509	7,046	1,191	5,318	5,855	80	5,238	5,776		
2025	6,568	7,112	1,253	5,315	5,859	82	5,233	5,778		
2026	6,627	7,178	1,307	5,320	5,871	83	5,238	5,789		
2027	6,686	7,244	1,354	5,332	5,890	83	5,249	5,807		
CAGR	0.9	1.0	8.3	(0.3)	(0.2)	4.9	(0.4)	(0.2)		



Winter Peak Forecast: ISO-NE, States, Subareas and Load Zones (Tab 2B)

WINTER PEAK(MW)										
ISO-NE	GROSS			PV	GROSS-PV		EE	Net		
	50/50	90/10			50/50	90/10		50/50	90/10	
2018	23,026	23,725		0	23,026	23,725	2,669	20,357	21,056	
2019	23,138	23,837		0	23,138	23,837	2,865	20,273	20,972	
2020	23,206	23,906		0	23,206	23,906	3,194	20,012	20,712	
2021	23,322	24,021		0	23,322	24,021	3,513	19,809	20,508	
2022	23,450	24,150		0	23,450	24,150	3,808	19,642	20,342	
2023	23,581	24,281		0	23,581	24,281	4,076	19,505	20,205	
2024	23,698	24,397		0	23,698	24,397	4,318	19,380	20,079	
2025	23,805	24,505		0	23,805	24,505	4,534	19,271	19,971	
2026	23,915	24,615		0	23,915	24,615	4,725	19,190	19,890	
2027	24,024	24,723		0	24,024	24,723	4,891	19,133	19,832	
CAGR	0.5	0.5			0.5	0.5	7.0	(0.7)	(0.7)	



Winter Peak Forecast: ISO-NE, States, Subareas and Load Zones (Tab 2B)

WINTER PEAK(MW)										
	GROSS				GROSS-PV				Net	
STATES:										
CT	50/50	90/10		PV	50/50	90/10		EE	50/50	90/10
2018	5,669	5,842		0	5,669	5,842		511	5,158	5,331
2019	5,682	5,855		0	5,682	5,855		550	5,132	5,305
2020	5,686	5,859		0	5,686	5,859		590	5,096	5,269
2021	5,699	5,872		0	5,699	5,872		639	5,060	5,233
2022	5,714	5,887		0	5,714	5,887		685	5,029	5,202
2023	5,729	5,902		0	5,729	5,902		727	5,002	5,175
2024	5,741	5,915		0	5,741	5,915		766	4,975	5,149
2025	5,752	5,925		0	5,752	5,925		800	4,952	5,125
2026	5,763	5,936		0	5,763	5,936		830	4,933	5,106
2027	5,774	5,947		0	5,774	5,947		857	4,917	5,090
CAGR	0.2	0.2			0.2	0.2		5.9	(0.5)	(0.5)
ME	50/50	90/10		PV	50/50	90/10		EE	50/50	90/10
2018	2,067	2,125		0	2,067	2,125		179	1,888	1,946
2019	2,079	2,137		0	2,079	2,137		188	1,891	1,949
2020	2,087	2,145		0	2,087	2,145		207	1,880	1,938
2021	2,106	2,164		0	2,106	2,164		224	1,882	1,940
2022	2,129	2,187		0	2,129	2,187		241	1,888	1,946
2023	2,154	2,212		0	2,154	2,212		255	1,899	1,957
2024	2,176	2,234		0	2,176	2,234		269	1,907	1,965
2025	2,196	2,254		0	2,196	2,254		281	1,915	1,973
2026	2,216	2,274		0	2,216	2,274		291	1,925	1,983
2027	2,235	2,293		0	2,235	2,293		300	1,935	1,993
CAGR	0.9	0.9			0.9	0.9		5.9	0.3	0.3

Winter Peak Forecast: ISO-NE, States, Subareas and Load Zones (Tab 2B)

WINTER PEAK(MW)

WINTER PEAK(MW)										
	GROSS				GROSS-PV				Net	
MA	50/50	90/10		PV	50/50	90/10		EE	50/50	90/10
2018	10,652	10,973		0	10,652	10,973		1,502	9,150	9,471
2019	10,723	11,044		0	10,723	11,044		1,626	9,097	9,418
2020	10,771	11,092		0	10,771	11,092		1,840	8,931	9,252
2021	10,838	11,159		0	10,838	11,159		2,038	8,800	9,121
2022	10,911	11,232		0	10,911	11,232		2,221	8,690	9,011
2023	10,985	11,307		0	10,985	11,307		2,387	8,598	8,920
2024	11,053	11,374		0	11,053	11,374		2,536	8,517	8,838
2025	11,116	11,437		0	11,116	11,437		2,668	8,448	8,769
2026	11,180	11,502		0	11,180	11,502		2,785	8,395	8,717
2027	11,243	11,564		0	11,243	11,564		2,886	8,357	8,678
CAGR	0.6	0.6			0.6	0.6		7.5	(1.0)	(1.0)
NH	50/50	90/10		PV	50/50	90/10		EE	50/50	90/10
2018	2,041	2,123		0	2,041	2,123		95	1,946	2,028
2019	2,049	2,130		0	2,049	2,130		101	1,948	2,029
2020	2,052	2,133		0	2,052	2,133		113	1,939	2,020
2021	2,057	2,138		0	2,057	2,138		125	1,932	2,013
2022	2,063	2,144		0	2,063	2,144		135	1,928	2,009
2023	2,069	2,151		0	2,069	2,151		145	1,924	2,006
2024	2,074	2,156		0	2,074	2,156		153	1,921	2,003
2025	2,079	2,160		0	2,079	2,160		161	1,918	1,999
2026	2,083	2,165		0	2,083	2,165		168	1,915	1,997
2027	2,088	2,169		0	2,088	2,169		174	1,914	1,995
CAGR	0.3	0.2			0.3	0.2		7.0	(0.2)	(0.2)

Winter Peak Forecast: ISO-NE, States, Subareas and Load Zones (Tab 2B)

WINTER PEAK(MW)										
	GROSS				GROSS-PV				Net	
RI	50/50	90/10		PV	50/50	90/10		EE	50/50	90/10
2018	1,482	1,531		0	1,482	1,531		240	1,242	1,291
2019	1,484	1,533		0	1,484	1,533		274	1,210	1,259
2020	1,486	1,535		0	1,486	1,535		306	1,180	1,229
2021	1,491	1,539		0	1,491	1,539		336	1,155	1,203
2022	1,496	1,544		0	1,496	1,544		364	1,132	1,180
2023	1,501	1,549		0	1,501	1,549		389	1,112	1,160
2024	1,506	1,554		0	1,506	1,554		412	1,094	1,142
2025	1,510	1,559		0	1,510	1,559		432	1,078	1,127
2026	1,516	1,564		0	1,516	1,564		450	1,066	1,114
2027	1,521	1,570		0	1,521	1,570		466	1,055	1,104
CAGR	0.3	0.3			0.3	0.3		7.7	(1.8)	(1.7)
VT	50/50	90/10		PV	50/50	90/10		EE	50/50	90/10
2018	1,115	1,132		0	1,115	1,132		142	973	990
2019	1,121	1,139		0	1,121	1,139		125	996	1,014
2020	1,125	1,143		0	1,125	1,143		139	986	1,004
2021	1,131	1,149		0	1,131	1,149		151	980	998
2022	1,137	1,155		0	1,137	1,155		163	974	992
2023	1,142	1,160		0	1,142	1,160		173	969	987
2024	1,147	1,165		0	1,147	1,165		183	964	982
2025	1,152	1,170		0	1,152	1,170		192	960	978
2026	1,157	1,175		0	1,157	1,175		200	957	975
2027	1,162	1,179		0	1,162	1,179		207	955	972
CAGR	0.5	0.5			0.5	0.5		4.3	(0.2)	(0.2)

Winter Peak Forecast: ISO-NE, States, Subareas and Load Zones (Tab 2B)

WINTER PEAK(MW)										
	GROSS				GROSS-PV				Net	
SUBAREAS:										
BHE	50/50	90/10		PV	50/50	90/10		EE	50/50	90/10
2018	294	302		0	294	302		25	269	277
2019	296	304		0	296	304		27	269	277
2020	297	305		0	297	305		29	268	276
2021	300	308		0	300	308		32	268	276
2022	303	311		0	303	311		34	269	277
2023	307	315		0	307	315		36	270	279
2024	310	318		0	310	318		38	271	280
2025	313	321		0	313	321		40	273	281
2026	315	324		0	315	324		41	274	282
2027	318	326		0	318	326		43	275	284
CAGR	0.9	0.9			0.9	0.9		5.9	0.3	0.3
ME	50/50	90/10		PV	50/50	90/10		EE	50/50	90/10
2018	1,014	1,042		0	1,014	1,042		88	926	954
2019	1,020	1,048		0	1,020	1,048		92	927	956
2020	1,024	1,052		0	1,024	1,052		102	922	951
2021	1,033	1,062		0	1,033	1,062		110	923	952
2022	1,045	1,073		0	1,045	1,073		118	927	955
2023	1,057	1,086		0	1,057	1,086		125	932	961
2024	1,068	1,097		0	1,068	1,097		132	936	965
2025	1,078	1,107		0	1,078	1,107		138	940	969
2026	1,088	1,117		0	1,088	1,117		143	945	974
2027	1,098	1,126		0	1,098	1,126		147	950	979
CAGR	0.9	0.9			0.9	0.9		5.9	0.3	0.3



Winter Peak Forecast: ISO-NE, States, Subareas and Load Zones (Tab 2B)

WINTER PEAK(MW)											
	GROSS				GROSS-PV					Net	
SME	50/50	90/10		PV	50/50	90/10		EE		50/50	90/10
2018	700	719		0	700	719		61		639	659
2019	704	723		0	704	723		64		640	660
2020	706	726		0	706	726		70		636	656
2021	713	732		0	713	732		76		637	657
2022	720	740		0	720	740		82		639	659
2023	729	748		0	729	748		86		642	662
2024	736	756		0	736	756		91		645	665
2025	743	762		0	743	762		95		648	667
2026	749	769		0	749	769		98		651	671
2027	756	775		0	756	775		101		654	674
CAGR	0.9	0.8			0.9	0.8		5.9		0.3	0.3
NH	50/50	90/10		PV	50/50	90/10		EE		50/50	90/10
2018	1,746	1,814		0	1,746	1,814		87		1,659	1,727
2019	1,754	1,822		0	1,754	1,822		92		1,663	1,730
2020	1,759	1,827		0	1,759	1,827		103		1,656	1,724
2021	1,766	1,834		0	1,766	1,834		113		1,652	1,720
2022	1,773	1,841		0	1,773	1,841		123		1,650	1,718
2023	1,780	1,848		0	1,780	1,848		132		1,649	1,717
2024	1,787	1,855		0	1,787	1,855		139		1,648	1,716
2025	1,793	1,861		0	1,793	1,861		146		1,647	1,715
2026	1,799	1,867		0	1,799	1,867		153		1,646	1,714
2027	1,805	1,873		0	1,805	1,873		158		1,647	1,715
CAGR	0.4	0.4			0.4	0.4		6.8		(0.1)	(0.1)



Winter Peak Forecast: ISO-NE, States, Subareas and Load Zones (Tab 2B)

WINTER PEAK(MW)										
VT	GROSS		PV	GROSS-PV		EE	Net			
	50/50	90/10		50/50	90/10		50/50	90/10		
2018	1,274	1,301	0	1,274	1,301	139	1,134	1,161		
2019	1,280	1,307	0	1,280	1,307	125	1,155	1,182		
2020	1,284	1,311	0	1,284	1,311	139	1,145	1,172		
2021	1,290	1,317	0	1,290	1,317	152	1,139	1,166		
2022	1,296	1,323	0	1,296	1,323	164	1,133	1,160		
2023	1,302	1,329	0	1,302	1,329	174	1,128	1,155		
2024	1,307	1,334	0	1,307	1,334	184	1,123	1,150		
2025	1,312	1,339	0	1,312	1,339	193	1,119	1,146		
2026	1,317	1,344	0	1,317	1,344	201	1,116	1,143		
2027	1,322	1,349	0	1,322	1,349	208	1,114	1,141		
CAGR	0.4	0.4		0.4	0.4	4.6	(0.2)	(0.2)		
Boston	50/50	90/10	PV	50/50	90/10	EE	50/50	90/10		
2018	4,885	5,033	0	4,885	5,033	684	4,201	4,349		
2019	4,921	5,069	0	4,921	5,069	741	4,180	4,328		
2020	4,945	5,093	0	4,945	5,093	839	4,106	4,254		
2021	4,979	5,127	0	4,979	5,127	930	4,049	4,197		
2022	5,015	5,163	0	5,015	5,163	1,014	4,001	4,149		
2023	5,052	5,200	0	5,052	5,200	1,091	3,961	4,109		
2024	5,086	5,234	0	5,086	5,234	1,160	3,926	4,074		
2025	5,118	5,266	0	5,118	5,266	1,221	3,897	4,045		
2026	5,150	5,298	0	5,150	5,298	1,276	3,874	4,023		
2027	5,182	5,330	0	5,182	5,330	1,323	3,859	4,007		
CAGR	0.7	0.6		0.7	0.6	7.6	(0.9)	(0.9)		



Winter Peak Forecast: ISO-NE, States, Subareas and Load Zones (Tab 2B)

WINTER PEAK(MW)										
	GROSS				GROSS-PV				Net	
CMA/NEMA	50/50	90/10		PV	50/50	90/10		EE	50/50	90/10
2018	1,404	1,447		0	1,404	1,447		192	1,212	1,255
2019	1,414	1,456		0	1,414	1,456		208	1,206	1,249
2020	1,420	1,463		0	1,420	1,463		235	1,185	1,228
2021	1,429	1,472		0	1,429	1,472		261	1,168	1,211
2022	1,439	1,482		0	1,439	1,482		284	1,155	1,198
2023	1,449	1,492		0	1,449	1,492		305	1,143	1,186
2024	1,458	1,501		0	1,458	1,501		325	1,133	1,176
2025	1,466	1,509		0	1,466	1,509		342	1,125	1,168
2026	1,475	1,518		0	1,475	1,518		357	1,118	1,161
2027	1,483	1,526		0	1,483	1,526		370	1,114	1,157
CAGR	0.6	0.6			0.6	0.6		7.5	(0.9)	(0.9)
WMA	50/50	90/10		PV	50/50	90/10		EE	50/50	90/10
2018	1,792	1,845		0	1,792	1,845		248	1,544	1,597
2019	1,801	1,854		0	1,801	1,854		266	1,535	1,588
2020	1,806	1,859		0	1,806	1,859		300	1,506	1,559
2021	1,814	1,867		0	1,814	1,867		331	1,483	1,536
2022	1,824	1,876		0	1,824	1,876		360	1,463	1,516
2023	1,833	1,886		0	1,833	1,886		387	1,447	1,499
2024	1,842	1,894		0	1,842	1,894		410	1,432	1,484
2025	1,849	1,902		0	1,849	1,902		431	1,419	1,471
2026	1,857	1,910		0	1,857	1,910		449	1,408	1,461
2027	1,865	1,917		0	1,865	1,917		464	1,401	1,453
CAGR	0.4	0.4			0.4	0.4		7.2	(1.1)	(1.0)



Winter Peak Forecast: ISO-NE, States, Subareas and Load Zones (Tab 2B)

WINTER PEAK(MW)											
	GROSS				GROSS-PV					Net	
SEMA	50/50	90/10		PV	50/50	90/10		EE	50/50	90/10	
2018	2,332	2,403		0	2,332	2,403		332	2,001	2,071	
2019	2,346	2,417		0	2,346	2,417		360	1,986	2,057	
2020	2,355	2,426		0	2,355	2,426		407	1,948	2,019	
2021	2,368	2,439		0	2,368	2,439		450	1,918	1,988	
2022	2,382	2,453		0	2,382	2,453		490	1,892	1,963	
2023	2,397	2,468		0	2,397	2,468		526	1,871	1,941	
2024	2,410	2,481		0	2,410	2,481		559	1,851	1,922	
2025	2,423	2,493		0	2,423	2,493		588	1,835	1,905	
2026	2,435	2,505		0	2,435	2,505		613	1,822	1,892	
2027	2,447	2,518		0	2,447	2,518		635	1,812	1,883	
CAGR	0.5	0.5			0.5	0.5		7.5	(1.1)	(1.1)	
RI	50/50	90/10		PV	50/50	90/10		EE	50/50	90/10	
2018	1,988	2,051		0	1,988	2,051		308	1,679	1,743	
2019	1,992	2,056		0	1,992	2,056		347	1,646	1,709	
2020	1,996	2,059		0	1,996	2,059		388	1,607	1,671	
2021	2,003	2,066		0	2,003	2,066		427	1,575	1,638	
2022	2,010	2,073		0	2,010	2,073		463	1,547	1,610	
2023	2,018	2,081		0	2,018	2,081		496	1,522	1,585	
2024	2,025	2,088		0	2,025	2,088		525	1,499	1,562	
2025	2,031	2,094		0	2,031	2,094		551	1,480	1,543	
2026	2,039	2,102		0	2,039	2,102		574	1,465	1,528	
2027	2,046	2,109		0	2,046	2,109		594	1,452	1,515	
CAGR	0.3	0.3			0.3	0.3		7.6	(1.6)	(1.5)	



Winter Peak Forecast: ISO-NE, States, Subareas and Load Zones (Tab 2B)

WINTER PEAK(MW)										
CT	GROSS		PV	GROSS-PV		EE	Net			
	50/50	90/10		50/50	90/10		50/50	90/10		
2018	2,731	2,814	0	2,731	2,814	246	2,485	2,568		
2019	2,736	2,819	0	2,736	2,819	265	2,471	2,554		
2020	2,736	2,820	0	2,736	2,820	284	2,452	2,536		
2021	2,741	2,825	0	2,741	2,825	307	2,434	2,517		
2022	2,747	2,831	0	2,747	2,831	329	2,418	2,501		
2023	2,753	2,837	0	2,753	2,837	349	2,404	2,487		
2024	2,758	2,841	0	2,758	2,841	368	2,390	2,473		
2025	2,762	2,845	0	2,762	2,845	384	2,378	2,461		
2026	2,766	2,849	0	2,766	2,849	398	2,367	2,451		
2027	2,770	2,853	0	2,770	2,853	411	2,359	2,442		
CAGR	0.2	0.2		0.2	0.2	5.9	(0.6)	(0.6)		
SWCT	50/50	90/10	PV	50/50	90/10	EE	50/50	90/10		
2018	1,846	1,902	0	1,846	1,902	166	1,680	1,736		
2019	1,849	1,906	0	1,849	1,906	179	1,670	1,727		
2020	1,850	1,906	0	1,850	1,906	192	1,658	1,714		
2021	1,853	1,909	0	1,853	1,909	208	1,645	1,702		
2022	1,857	1,914	0	1,857	1,914	223	1,635	1,691		
2023	1,861	1,918	0	1,861	1,918	236	1,625	1,681		
2024	1,865	1,921	0	1,865	1,921	249	1,616	1,672		
2025	1,867	1,923	0	1,867	1,923	260	1,607	1,664		
2026	1,870	1,926	0	1,870	1,926	269	1,601	1,657		
2027	1,873	1,929	0	1,873	1,929	278	1,595	1,651		
CAGR	0.2	0.2		0.2	0.2	5.9	(0.6)	(0.6)		



Winter Peak Forecast: ISO-NE, States, Subareas and Load Zones (Tab 2B)

WINTER PEAK(MW)											
	GROSS				GROSS-PV				Net		
NOR	50/50	90/10		PV	50/50	90/10		EE	50/50	90/10	
2018	1,020	1,052		0	1,020	1,052		92	928	960	
2019	1,025	1,056		0	1,025	1,056		99	926	957	
2020	1,028	1,059		0	1,028	1,059		107	921	953	
2021	1,032	1,064		0	1,032	1,064		116	917	948	
2022	1,037	1,069		0	1,037	1,069		124	913	944	
2023	1,042	1,074		0	1,042	1,074		132	910	942	
2024	1,047	1,078		0	1,047	1,078		140	907	939	
2025	1,051	1,083		0	1,051	1,083		146	905	936	
2026	1,055	1,087		0	1,055	1,087		152	903	935	
2027	1,059	1,091		0	1,059	1,091		157	902	934	
CAGR	0.4	0.4			0.4	0.4		6.1	(0.3)	(0.3)	
LOAD ZONES (CT,ME,NH,RI,VT ARE ALSO THE LOAD ZONES)											
SEMA	50/50	90/10		PV	50/50	90/10		EE	50/50	90/10	
2018	2,838	2,923		0	2,838	2,923		400	2,438	2,523	
2019	2,854	2,940		0	2,854	2,940		433	2,421	2,507	
2020	2,864	2,950		0	2,864	2,950		489	2,375	2,460	
2021	2,880	2,965		0	2,880	2,965		542	2,338	2,424	
2022	2,897	2,982		0	2,897	2,982		590	2,307	2,392	
2023	2,914	2,999		0	2,914	2,999		633	2,281	2,366	
2024	2,929	3,014		0	2,929	3,014		672	2,257	2,342	
2025	2,944	3,029		0	2,944	3,029		706	2,237	2,322	
2026	2,958	3,043		0	2,958	3,043		737	2,221	2,306	
2027	2,972	3,057		0	2,972	3,057		763	2,209	2,294	
CAGR	0.5	0.5			0.5	0.5		7.4	(1.1)	(1.1)	



Winter Peak Forecast: ISO-NE, States, Subareas and Load Zones (Tab 2B)

WINTER PEAK(MW)											
	GROSS				GROSS-PV					Net	
WCMA	50/50	90/10		PV	50/50	90/10		EE	50/50	90/10	
2018	3,057	3,149		0	3,057	3,149		431	2,626	2,718	
2019	3,075	3,167		0	3,075	3,167		466	2,609	2,701	
2020	3,087	3,179		0	3,087	3,179		527	2,560	2,652	
2021	3,104	3,196		0	3,104	3,196		584	2,521	2,613	
2022	3,123	3,215		0	3,123	3,215		636	2,488	2,579	
2023	3,143	3,235		0	3,143	3,235		683	2,460	2,552	
2024	3,160	3,252		0	3,160	3,252		725	2,435	2,527	
2025	3,177	3,268		0	3,177	3,268		762	2,414	2,506	
2026	3,193	3,285		0	3,193	3,285		795	2,398	2,489	
2027	3,209	3,301		0	3,209	3,301		824	2,385	2,477	
CAGR	0.5	0.5			0.5	0.5		7.5	(1.1)	(1.0)	
NEMA	50/50	90/10		PV	50/50	90/10		EE	50/50	90/10	
2018	4,757	4,901		0	4,757	4,901		671	4,086	4,230	
2019	4,793	4,937		0	4,793	4,937		727	4,066	4,210	
2020	4,819	4,963		0	4,819	4,963		823	3,996	4,140	
2021	4,853	4,998		0	4,853	4,998		913	3,941	4,085	
2022	4,891	5,035		0	4,891	5,035		995	3,895	4,039	
2023	4,928	5,073		0	4,928	5,073		1,071	3,857	4,002	
2024	4,963	5,108		0	4,963	5,108		1,139	3,824	3,969	
2025	4,996	5,140		0	4,996	5,140		1,199	3,796	3,941	
2026	5,029	5,174		0	5,029	5,174		1,253	3,776	3,921	
2027	5,061	5,206		0	5,061	5,206		1,299	3,762	3,907	
CAGR	0.7	0.7			0.7	0.7		7.6	(0.9)	(0.9)	



Annual Energy Forecast: ISO-NE, States, Subareas and Load Zones (Tab 2C)

ANNUAL ENERGY (GWh)										
ISO-NE		GROSS		PV		GROSS-PV		EE		Net
2018		142,488		2,162		140,326		16,074		124,252
2019		143,820		2,558		141,262		18,764		122,498
2020		144,634		2,906		141,728		21,332		120,396
2021		146,009		3,233		142,776		23,827		118,949
2022		147,538		3,540		143,998		26,128		117,870
2023		149,100		3,834		145,266		28,228		117,038
2024		150,485		4,115		146,370		30,121		116,249
2025		151,766		4,361		147,405		31,811		115,594
2026		153,072		4,575		148,497		33,302		115,195
2027		154,364		4,783		149,581		34,601		114,980
CAGR		0.9		9.2		0.7		8.9		(0.9)



Annual Energy Forecast: ISO-NE, States, Subareas and Load Zones (Tab 2C)

ANNUAL ENERGY (GWh)						
STATES:						
CT	GROSS	PV	GROSS-PV	EE	Net	
2018	34,206	539	33,667	3,367	30,300	
2019	34,412	657	33,755	3,663	30,092	
2020	34,489	775	33,714	3,971	29,743	
2021	34,707	886	33,821	4,358	29,463	
2022	34,956	984	33,972	4,718	29,254	
2023	35,209	1,069	34,140	5,048	29,092	
2024	35,419	1,139	34,280	5,348	28,932	
2025	35,604	1,202	34,402	5,616	28,786	
2026	35,794	1,265	34,529	5,854	28,675	
2027	35,981	1,325	34,656	6,063	28,593	
CAGR	0.6	10.5	0.3	6.8	(0.6)	
ME	GROSS	PV	GROSS-PV	EE	Net	
2018	12,878	50	12,828	1,216	11,612	
2019	12,976	63	12,913	1,377	11,536	
2020	13,042	77	12,965	1,529	11,436	
2021	13,195	90	13,105	1,670	11,435	
2022	13,380	102	13,278	1,800	11,478	
2023	13,576	115	13,461	1,918	11,543	
2024	13,749	127	13,622	2,024	11,598	
2025	13,909	139	13,770	2,118	11,652	
2026	14,067	152	13,915	2,201	11,714	
2027	14,222	164	14,058	2,273	11,785	
CAGR	1.1	14.2	1.0	7.2	0.2	

Annual Energy Forecast: ISO-NE, States, Subareas and Load Zones (Tab 2C)

ANNUAL ENERGY (GWh)							
MA		GROSS	PV		GROSS-PV	EE	Net
2018		66,532	1,085		65,447	8,640	56,807
2019		67,347	1,272		66,075	10,374	55,701
2020		67,891	1,418		66,473	12,005	54,468
2021		68,675	1,556		67,119	13,522	53,597
2022		69,527	1,691		67,836	14,918	52,918
2023		70,401	1,824		68,577	16,186	52,391
2024		71,196	1,960		69,236	17,327	51,909
2025		71,935	2,070		69,865	18,340	51,525
2026		72,685	2,148		70,537	19,231	51,306
2027		73,422	2,222		71,200	20,006	51,194
CAGR		1.1	8.3		0.9	9.8	(1.1)
NH		GROSS	PV		GROSS-PV	EE	Net
2018		12,559	88		12,471	634	11,837
2019		12,688	104		12,584	742	11,842
2020		12,749	120		12,629	844	11,785
2021		12,855	135		12,720	939	11,781
2022		12,971	150		12,821	1,027	11,794
2023		13,089	165		12,924	1,109	11,815
2024		13,189	180		13,009	1,183	11,826
2025		13,277	194		13,083	1,251	11,832
2026		13,368	208		13,160	1,310	11,850
2027		13,461	223		13,238	1,363	11,875
CAGR		0.8	10.9		0.7	8.9	0.0

Annual Energy Forecast: ISO-NE, States, Subareas and Load Zones (Tab 2C)

ANNUAL ENERGY (GWh)							
RI		GROSS	PV		GROSS-PV	EE	Net
	2018	9,357	57		9,300	1,420	7,880
	2019	9,390	83		9,307	1,687	7,620
	2020	9,422	109		9,313	1,943	7,370
	2021	9,488	132		9,356	2,186	7,170
	2022	9,563	154		9,409	2,410	6,999
	2023	9,636	177		9,459	2,615	6,844
	2024	9,702	199		9,503	2,800	6,703
	2025	9,771	221		9,550	2,966	6,584
	2026	9,846	243		9,603	3,113	6,490
	2027	9,926	264		9,662	3,241	6,421
	CAGR	0.7	18.7		0.4	9.6	(2.3)
VT		GROSS	PV		GROSS-PV	EE	Net
	2018	6,956	345		6,611	797	5,814
	2019	7,007	380		6,627	922	5,705
	2020	7,040	408		6,632	1,040	5,592
	2021	7,090	434		6,656	1,151	5,505
	2022	7,140	459		6,681	1,255	5,426
	2023	7,188	484		6,704	1,351	5,353
	2024	7,230	510		6,720	1,439	5,281
	2025	7,270	535		6,735	1,519	5,216
	2026	7,311	559		6,752	1,592	5,160
	2027	7,353	584		6,769	1,654	5,115
	CAGR	0.6	6.0		0.3	8.5	(1.4)

Annual Energy Forecast: ISO-NE, States, Subareas and Load Zones (Tab 2C)

ANNUAL ENERGY (GWh)						
SUBAREAS:						
BHE	GROSS	PV	GROSS-PV	EE	Net	
2018	1,861	6	1,855	176	1,679	
2019	1,875	8	1,867	199	1,668	
2020	1,885	9	1,875	221	1,654	
2021	1,907	11	1,896	241	1,655	
2022	1,934	12	1,921	260	1,661	
2023	1,962	14	1,948	277	1,671	
2024	1,987	15	1,972	293	1,679	
2025	2,010	17	1,994	306	1,687	
2026	2,033	18	2,015	318	1,697	
2027	2,056	20	2,036	329	1,707	
CAGR	1.1	14.2	1.0	7.2	0.2	
ME	GROSS	PV	GROSS-PV	EE	Net	
2018	6,177	26	6,151	583	5,568	
2019	6,225	33	6,191	661	5,531	
2020	6,257	40	6,217	734	5,483	
2021	6,331	47	6,284	801	5,483	
2022	6,421	54	6,367	864	5,503	
2023	6,516	61	6,455	921	5,535	
2024	6,599	67	6,532	971	5,561	
2025	6,677	74	6,603	1,017	5,587	
2026	6,753	80	6,673	1,057	5,617	
2027	6,829	87	6,742	1,091	5,651	
CAGR	1.1	14.2	1.0	7.2	0.2	



Annual Energy Forecast: ISO-NE, States, Subareas and Load Zones (Tab 2C)

ANNUAL ENERGY (GWh)										
SME		GROSS		PV		GROSS-PV		EE		Net
2018		4,482		16		4,466		423		4,043
2019		4,516		21		4,495		479		4,016
2020		4,538		25		4,513		532		3,981
2021		4,591		29		4,562		581		3,981
2022		4,655		33		4,622		626		3,995
2023		4,723		37		4,685		667		4,018
2024		4,783		42		4,741		704		4,037
2025		4,838		45		4,792		737		4,056
2026		4,893		50		4,843		766		4,078
2027		4,946		53		4,893		790		4,102
CAGR		1.1		14.2		1.0		7.2		0.2
NH		GROSS		PV		GROSS-PV		EE		Net
2018		10,755		87		10,668		577		10,090
2019		10,874		102		10,772		674		10,098
2020		10,937		116		10,820		766		10,054
2021		11,039		130		10,909		852		10,057
2022		11,150		143		11,007		932		10,075
2023		11,263		157		11,107		1,006		10,100
2024		11,361		170		11,191		1,074		10,117
2025		11,449		183		11,266		1,136		10,130
2026		11,539		196		11,343		1,190		10,153
2027		11,631		209		11,422		1,238		10,184
CAGR		0.9		10.2		0.8		8.9		0.1

Annual Energy Forecast: ISO-NE, States, Subareas and Load Zones (Tab 2C)

ANNUAL ENERGY (GWh)						
VT	GROSS	PV	GROSS-PV	EE	Net	
2018	7,893	320	7,573	795	6,778	
2019	7,956	353	7,602	921	6,681	
2020	7,993	380	7,613	1,040	6,573	
2021	8,052	406	7,646	1,151	6,495	
2022	8,112	430	7,681	1,256	6,426	
2023	8,170	455	7,715	1,352	6,363	
2024	8,221	480	7,741	1,440	6,300	
2025	8,268	504	7,764	1,521	6,243	
2026	8,317	528	7,789	1,594	6,195	
2027	8,366	552	7,814	1,656	6,158	
CAGR	0.6	6.3	0.3	8.5	(1.1)	
Boston	GROSS	PV	GROSS-PV	EE	Net	
2018	30,475	197	30,278	3,929	26,349	
2019	30,842	231	30,610	4,718	25,893	
2020	31,083	258	30,825	5,459	25,366	
2021	31,434	283	31,152	6,149	25,003	
2022	31,817	307	31,510	6,783	24,726	
2023	32,210	332	31,878	7,360	24,518	
2024	32,566	357	32,210	7,879	24,331	
2025	32,897	377	32,520	8,340	24,181	
2026	33,233	391	32,842	8,745	24,097	
2027	33,563	405	33,159	9,098	24,061	
CAGR	1.1	8.3	1.0	9.8	(1.0)	



Annual Energy Forecast: ISO-NE, States, Subareas and Load Zones (Tab 2C)

ANNUAL ENERGY (GWh)							
CMA/NEMA	GROSS	PV	GROSS-PV	EE	Net		
2018	8,796	156	8,639	1,111	7,528		
2019	8,908	183	8,725	1,334	7,390		
2020	8,984	205	8,780	1,545	7,235		
2021	9,092	225	8,868	1,741	7,127		
2022	9,209	244	8,965	1,921	7,044		
2023	9,329	264	9,065	2,085	6,980		
2024	9,438	283	9,155	2,234	6,921		
2025	9,540	299	9,241	2,365	6,875		
2026	9,643	311	9,332	2,482	6,851		
2027	9,745	322	9,423	2,583	6,840		
CAGR	1.1	8.3	1.0	9.8	(1.1)		
WMA	GROSS	PV	GROSS-PV	EE	Net		
2018	10,958	370	10,588	1,402	9,186		
2019	11,080	433	10,647	1,675	8,972		
2020	11,158	482	10,676	1,932	8,744		
2021	11,275	529	10,746	2,172	8,575		
2022	11,403	574	10,829	2,392	8,437		
2023	11,533	618	10,915	2,592	8,322		
2024	11,651	664	10,987	2,772	8,215		
2025	11,760	701	11,059	2,932	8,128		
2026	11,870	728	11,143	3,072	8,071		
2027	11,979	753	11,226	3,193	8,033		
CAGR	1.0	8.2	0.7	9.6	(1.5)		

Annual Energy Forecast: ISO-NE, States, Subareas and Load Zones (Tab 2C)

ANNUAL ENERGY (GWh)						
SEMA	GROSS	PV	GROSS-PV	EE	Net	
2018	14,812	326	14,487	1,942	12,545	
2019	14,984	383	14,600	2,329	12,271	
2020	15,098	429	14,669	2,694	11,975	
2021	15,266	471	14,794	3,034	11,761	
2022	15,449	513	14,935	3,346	11,590	
2023	15,636	554	15,081	3,630	11,452	
2024	15,806	597	15,209	3,885	11,324	
2025	15,964	631	15,333	4,111	11,222	
2026	16,125	656	15,470	4,310	11,159	
2027	16,284	680	15,605	4,483	11,121	
CAGR	1.1	8.5	0.8	9.7	(1.3)	
RI	GROSS	PV	GROSS-PV	EE	Net	
2018	12,506	128	12,378	1,811	10,567	
2019	12,585	165	12,420	2,158	10,262	
2020	12,646	199	12,448	2,489	9,959	
2021	12,753	229	12,524	2,801	9,723	
2022	12,873	259	12,613	3,089	9,524	
2023	12,991	289	12,702	3,352	9,351	
2024	13,099	319	12,780	3,589	9,191	
2025	13,206	346	12,859	3,801	9,059	
2026	13,319	372	12,947	3,988	8,959	
2027	13,435	397	13,038	4,151	8,887	
CAGR	0.8	13.4	0.6	9.7	(1.9)	

Annual Energy Forecast: ISO-NE, States, Subareas and Load Zones (Tab 2C)

ANNUAL ENERGY (GWh)												
CT		GROSS		PV		GROSS-PV		EE		Net		
	2018		16,481			318		16,163		1,622	14,541	
	2019		16,572			387		16,185		1,764	14,421	
	2020		16,601			457		16,144		1,911	14,233	
	2021		16,698			523		16,176		2,097	14,079	
	2022		16,810			580		16,230		2,269	13,961	
	2023		16,924			631		16,294		2,426	13,867	
	2024		17,017			672		16,346		2,569	13,776	
	2025		17,098			709		16,389		2,697	13,692	
	2026		17,182			746		16,436		2,810	13,626	
	2027		17,264			781		16,482		2,909	13,573	
	CAGR		0.5			10.5		0.2		6.7	(0.8)	
SWCT			GROSS			PV		GROSS-PV		EE		Net
	2018		11,135			172		10,963		1,096		9,867
	2019		11,197			209		10,987		1,192		9,796
	2020		11,216			247		10,969		1,291		9,678
	2021		11,282			282		11,000		1,417		9,583
	2022		11,358			313		11,044		1,533		9,511
	2023		11,435			341		11,094		1,639		9,455
	2024		11,498			363		11,135		1,736		9,399
	2025		11,552			383		11,169		1,822		9,347
	2026		11,609			403		11,206		1,899		9,307
	2027		11,664			422		11,242		1,965		9,277
	CAGR		0.5			10.5		0.3		6.7		(0.7)

Annual Energy Forecast: ISO-NE, States, Subareas and Load Zones (Tab 2C)

ANNUAL ENERGY (GWh)							
NOR	GROSS	PV	GROSS-PV	EE	Net		
2018	6,158	41	6,117	606	5,510		
2019	6,209	50	6,158	661	5,497		
2020	6,236	59	6,177	718	5,459		
2021	6,289	68	6,221	790	5,431		
2022	6,348	75	6,272	857	5,416		
2023	6,407	82	6,325	919	5,407		
2024	6,459	87	6,372	975	5,396		
2025	6,506	92	6,414	1,026	5,388		
2026	6,555	97	6,458	1,072	5,386		
2027	6,602	102	6,501	1,113	5,388		
CAGR	0.8	10.5	0.7	7.0	(0.2)		
LOAD ZONES (CT,ME,NH,RI,VT ARE ALSO THE LOAD ZONES)							
SEMA	GROSS	PV	GROSS-PV	EE	Net		
2018	17,961	282	17,679	2,333	15,346		
2019	18,178	341	17,838	2,800	15,038		
2020	18,322	387	17,935	3,240	14,696		
2021	18,531	420	18,111	3,649	14,462		
2022	18,758	452	18,306	4,025	14,281		
2023	18,991	484	18,507	4,366	14,141		
2024	19,202	514	18,688	4,673	14,015		
2025	19,399	539	18,860	4,946	13,914		
2026	19,598	553	19,045	5,185	13,860		
2027	19,794	567	19,227	5,393	13,834		
CAGR	1.1	8.0	0.9	9.8	(1.1)		

Annual Energy Forecast: ISO-NE, States, Subareas and Load Zones (Tab 2C)

ANNUAL ENERGY (GWh)										
WCMA		GROSS		PV		GROSS-PV		EE		Net
2018		18,926		298		18,629		2,458		16,171
2019		19,157		359		18,798		2,951		15,847
2020		19,310		408		18,902		3,415		15,488
2021		19,532		443		19,089		3,846		15,243
2022		19,773		477		19,296		4,242		15,053
2023		20,020		510		19,510		4,603		14,907
2024		20,245		542		19,703		4,927		14,776
2025		20,453		568		19,885		5,215		14,671
2026		20,665		583		20,082		5,468		14,614
2027		20,873		598		20,276		5,688		14,588
CAGR		1.1		8.1		0.9		9.8		(1.1)
NEMA										
		GROSS		PV		GROSS-PV		EE		Net
2018		29,645		466		29,179		3,850		25,329
2019		30,012		562		29,449		4,623		24,827
2020		30,258		639		29,619		5,350		24,269
2021		30,612		694		29,918		6,028		23,890
2022		30,996		748		30,248		6,651		23,598
2023		31,390		799		30,590		7,217		23,373
2024		31,749		850		30,899		7,727		23,173
2025		32,083		891		31,192		8,180		23,013
2026		32,422		915		31,507		8,578		22,929
2027		32,756		938		31,818		8,925		22,893
CAGR		1.1		8.1		1.0		9.8		(1.1)

Gross Energy Forecast (GWh) Comparison (Tab 10G)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	CAGR
ISO-NE										
2018 CELT	142,488	143,820	144,634	146,009	147,538	149,100	150,485	151,766	153,072	0.9
2017 CELT	142,078	143,447	144,611	145,799	147,127	148,507	149,884	151,233	152,593	0.9
Difference	410	373	23	210	411	593	601	533	479	
CONNECTICUT										
2018 CELT	34,206	34,412	34,489	34,707	34,956	35,209	35,419	35,604	35,794	0.6
2017 CELT	34,390	34,587	34,733	34,909	35,128	35,359	35,586	35,802	36,018	0.6
Difference	(184)	(175)	(244)	(202)	(172)	(150)	(167)	(198)	(224)	
MAINE										
2018 CELT	12,878	12,976	13,042	13,195	13,380	13,576	13,749	13,909	14,067	1.1
2017 CELT	12,768	12,885	13,003	13,137	13,291	13,453	13,611	13,763	13,910	1.1
Difference	110	91	39	58	89	123	138	146	157	
MASSACHUSETTS										
2018 CELT	66,532	67,347	67,891	68,675	69,527	70,401	71,196	71,935	72,685	1.1
2017 CELT	66,163	66,996	67,706	68,400	69,147	69,919	70,691	71,453	72,227	1.1
Difference	369	351	185	275	380	482	505	482	458	
NEW HAMPSHIRE										
2018 CELT	12,559	12,688	12,749	12,855	12,971	13,089	13,189	13,277	13,368	0.8
2017 CELT	12,557	12,679	12,767	12,845	12,933	13,028	13,122	13,215	13,311	0.7
Difference	2	9	(18)	10	38	61	67	62	57	
RHODE ISLAND										
2018 CELT	9,357	9,390	9,422	9,488	9,563	9,636	9,702	9,771	9,846	0.6
2017 CELT	9,290	9,347	9,410	9,472	9,542	9,611	9,685	9,760	9,836	0.7
Difference	67	43	12	16	21	25	17	11	10	
VERMONT										
2018 CELT	6,956	7,007	7,040	7,090	7,140	7,188	7,230	7,270	7,311	0.6
2017 CELT	6,910	6,953	6,992	7,035	7,085	7,137	7,189	7,240	7,291	0.7
Difference	46	54	48	55	55	51	41	30	20	

50/50 Summer Gross Peak (MW) Comparison (Tab 10G)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	CAGR
ISO-NE										
2018 CELT	29,060	29,298	29,504	29,744	29,994	30,245	30,486	30,721	30,957	0.8
2017 CELT	29,454	29,753	30,039	30,327	30,623	30,923	31,223	31,521	31,820	1.0
Difference	(394)	(455)	(535)	(583)	(629)	(678)	(737)	(800)	(863)	
CONNECTICUT										
2018 CELT	7,400	7,435	7,463	7,499	7,536	7,574	7,609	7,643	7,678	0.5
2017 CELT	7,595	7,639	7,682	7,727	7,773	7,820	7,867	7,913	7,960	0.6
Difference	(195)	(204)	(219)	(228)	(237)	(246)	(258)	(270)	(282)	
MAINE										
2018 CELT	2,111	2,120	2,127	2,140	2,156	2,173	2,188	2,202	2,216	0.6
2017 CELT	2,168	2,187	2,207	2,228	2,253	2,278	2,303	2,327	2,350	1.0
Difference	(57)	(67)	(80)	(88)	(97)	(105)	(115)	(125)	(134)	
MASSACHUSETTS										
2018 CELT	13,836	13,982	14,113	14,257	14,405	14,555	14,699	14,841	14,983	1.0
2017 CELT	13,877	14,056	14,225	14,392	14,563	14,736	14,909	15,081	15,255	1.2
Difference	(41)	(74)	(112)	(135)	(158)	(181)	(210)	(240)	(272)	
NEW HAMPSHIRE										
2018 CELT	2,501	2,524	2,541	2,562	2,584	2,606	2,626	2,645	2,664	0.8
2017 CELT	2,611	2,640	2,666	2,691	2,717	2,743	2,769	2,795	2,822	1.0
Difference	(110)	(116)	(125)	(129)	(133)	(137)	(143)	(150)	(158)	
RHODE ISLAND										
2018 CELT	2,099	2,118	2,137	2,158	2,179	2,200	2,220	2,241	2,262	0.9
2017 CELT	2,079	2,100	2,122	2,143	2,165	2,187	2,209	2,231	2,253	1.0
Difference	20	18	15	15	14	13	11	10	9	
VERMONT										
2018 CELT	1,113	1,118	1,123	1,128	1,133	1,138	1,143	1,148	1,153	0.4
2017 CELT	1,121	1,128	1,134	1,141	1,149	1,156	1,163	1,170	1,178	0.6
Difference	(8)	(10)	(11)	(13)	(16)	(18)	(20)	(22)	(25)	

50/50 Winter Gross Peak (MW) Comparison (Tab 10G)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	CAGR
ISO-NE										
2018 CELT	23,026	23,138	23,206	23,322	23,450	23,581	23,698	23,805	23,915	0.5
2017 CELT	23,180	23,318	23,436	23,556	23,691	23,830	23,970	24,106	24,244	0.6
Difference	(154)	(180)	(230)	(234)	(241)	(249)	(272)	(301)	(329)	
CONNECTICUT										
2018 CELT	5,669	5,682	5,686	5,699	5,714	5,729	5,741	5,752	5,763	0.2
2017 CELT	5,762	5,777	5,788	5,802	5,819	5,838	5,857	5,874	5,892	0.3
Difference	(93)	(95)	(102)	(103)	(105)	(109)	(116)	(122)	(129)	
MAINE										
2018 CELT	2,067	2,079	2,087	2,106	2,129	2,154	2,176	2,196	2,216	0.9
2017 CELT	2,019	2,030	2,043	2,056	2,072	2,089	2,106	2,121	2,137	0.7
Difference	48	49	44	50	57	65	70	75	79	
MASSACHUSETTS										
2018 CELT	10,652	10,723	10,771	10,838	10,911	10,985	11,053	11,116	11,180	0.6
2017 CELT	10,760	10,853	10,931	11,007	11,089	11,174	11,259	11,343	11,428	0.8
Difference	(108)	(130)	(160)	(169)	(178)	(189)	(206)	(227)	(248)	
NEW HAMPSHIRE										
2018 CELT	2,041	2,049	2,052	2,057	2,063	2,069	2,074	2,079	2,083	0.3
2017 CELT	2,066	2,075	2,082	2,087	2,093	2,100	2,107	2,113	2,120	0.3
Difference	(25)	(26)	(30)	(30)	(30)	(31)	(33)	(34)	(37)	
RHODE ISLAND										
2018 CELT	1,482	1,484	1,486	1,491	1,496	1,501	1,506	1,510	1,516	0.3
2017 CELT	1,458	1,462	1,468	1,473	1,479	1,484	1,491	1,497	1,504	0.4
Difference	24	22	18	18	17	17	15	13	12	
VERMONT										
2018 CELT	1,115	1,121	1,125	1,131	1,137	1,142	1,147	1,152	1,157	0.5
2017 CELT	1,113	1,118	1,123	1,129	1,135	1,142	1,149	1,156	1,162	0.5
Difference	2	3	2	2	2	0	(2)	(4)	(5)	



90/10 Summer Gross Peak (MW) Comparison (Tab 10G)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	CAGR
ISO-NE										
2018 CELT	31,451	31,716	31,950	32,217	32,494	32,773	33,041	33,303	33,566	0.8
2017 CELT	31,873	32,209	32,531	32,855	33,188	33,525	33,861	34,196	34,531	1.0
Difference	(422)	(493)	(581)	(638)	(694)	(752)	(820)	(893)	(965)	
CONNECTICUT										
2018 CELT	8,037	8,076	8,107	8,146	8,188	8,229	8,268	8,305	8,343	0.5
2017 CELT	8,276	8,327	8,377	8,429	8,482	8,536	8,590	8,643	8,696	0.6
Difference	(239)	(251)	(270)	(283)	(294)	(307)	(322)	(338)	(353)	
MAINE										
2018 CELT	2,244	2,254	2,261	2,275	2,291	2,308	2,323	2,338	2,352	0.6
2017 CELT	2,308	2,328	2,349	2,371	2,397	2,423	2,449	2,473	2,498	1.0
Difference	(64)	(74)	(88)	(96)	(106)	(115)	(126)	(135)	(146)	
MASSACHUSETTS										
2018 CELT	14,951	15,114	15,261	15,422	15,586	15,751	15,913	16,071	16,229	1.0
2017 CELT	14,936	15,133	15,321	15,506	15,696	15,887	16,079	16,269	16,462	1.2
Difference	15	(19)	(60)	(84)	(110)	(136)	(166)	(198)	(233)	
NEW HAMPSHIRE										
2018 CELT	2,693	2,718	2,737	2,760	2,783	2,807	2,830	2,851	2,872	0.8
2017 CELT	2,830	2,863	2,892	2,921	2,951	2,980	3,010	3,040	3,070	1.0
Difference	(137)	(145)	(155)	(161)	(168)	(173)	(180)	(189)	(198)	
RHODE ISLAND										
2018 CELT	2,367	2,390	2,414	2,439	2,464	2,490	2,515	2,540	2,566	1.0
2017 CELT	2,338	2,364	2,391	2,418	2,445	2,472	2,499	2,526	2,553	1.1
Difference	29	26	23	21	19	18	16	14	13	
VERMONT										
2018 CELT	1,159	1,165	1,170	1,176	1,182	1,187	1,193	1,198	1,204	0.5
2017 CELT	1,166	1,174	1,182	1,190	1,198	1,206	1,214	1,223	1,231	0.7
Difference	(7)	(9)	(12)	(14)	(16)	(19)	(21)	(25)	(27)	

90/10 Winter Gross Peak (MW) Comparison (Tab 10G)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	CAGR
ISO-NE										
2018 CELT	23,725	23,837	23,906	24,021	24,150	24,281	24,397	24,505	24,615	0.5
2017 CELT	23,878	24,017	24,135	24,255	24,389	24,529	24,668	24,805	24,942	0.5
Difference	(153)	(180)	(229)	(234)	(239)	(248)	(271)	(300)	(327)	
CONNECTICUT										
2018 CELT	5,842	5,855	5,859	5,872	5,887	5,902	5,915	5,925	5,936	0.2
2017 CELT	5,950	5,965	5,976	5,990	6,007	6,026	6,045	6,062	6,080	0.3
Difference	(108)	(110)	(117)	(118)	(120)	(124)	(130)	(137)	(144)	
MAINE										
2018 CELT	2,125	2,137	2,145	2,164	2,187	2,212	2,234	2,254	2,274	0.9
2017 CELT	2,075	2,087	2,099	2,113	2,129	2,146	2,162	2,178	2,193	0.7
Difference	50	50	46	51	58	66	72	76	81	
MASSACHUSETTS										
2018 CELT	10,973	11,044	11,092	11,159	11,232	11,307	11,374	11,437	11,502	0.6
2017 CELT	11,086	11,178	11,257	11,333	11,415	11,500	11,585	11,668	11,753	0.7
Difference	(113)	(134)	(165)	(174)	(183)	(193)	(211)	(231)	(251)	
NEW HAMPSHIRE										
2018 CELT	2,123	2,130	2,133	2,138	2,144	2,151	2,156	2,160	2,165	0.2
2017 CELT	2,153	2,162	2,168	2,174	2,180	2,187	2,193	2,200	2,207	0.3
Difference	(30)	(32)	(35)	(36)	(36)	(36)	(37)	(40)	(42)	
RHODE ISLAND										
2018 CELT	1,531	1,533	1,535	1,539	1,544	1,549	1,554	1,559	1,564	0.3
2017 CELT	1,484	1,489	1,494	1,499	1,505	1,511	1,517	1,523	1,530	0.4
Difference	47	44	41	40	39	38	37	36	34	
VERMONT										
2018 CELT	1,132	1,139	1,143	1,149	1,155	1,160	1,165	1,170	1,175	0.5
2017 CELT	1,130	1,136	1,141	1,146	1,153	1,160	1,166	1,173	1,180	0.5
Difference	2	3	2	3	2	0	(1)	(3)	(5)	

Net Energy (GWh) Forecast Comparison: 2018 vs 2017 (Tab 10N)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	CAGR
ISO-NE										
2018 CELT	124,252	122,498	120,396	118,949	117,870	117,038	116,249	115,594	115,195	(0.9)
2017 CELT	126,426	125,736	124,440	122,977	121,859	120,994	120,349	119,911	119,680	(0.7)
Difference	(2,174)	(3,239)	(4,045)	(4,028)	(3,989)	(3,956)	(4,100)	(4,317)	(4,485)	
CONNECTICUT										
2018 CELT	30,300	30,092	29,743	29,463	29,254	29,092	28,932	28,786	28,675	(0.7)
2017 CELT	31,350	30,828	30,198	29,876	29,635	29,440	29,278	29,141	29,040	(1.0)
Difference	(1,050)	(736)	(455)	(413)	(380)	(349)	(346)	(355)	(365)	
MAINE										
2018 CELT	11,612	11,536	11,436	11,435	11,478	11,543	11,598	11,652	11,714	0.1
2017 CELT	11,500	11,571	11,765	11,739	11,746	11,773	11,809	11,852	11,902	0.4
Difference	113	(35)	(329)	(303)	(268)	(230)	(212)	(200)	(187)	
MASSACHUSETTS										
2018 CELT	56,807	55,701	54,468	53,597	52,918	52,391	51,909	51,525	51,306	(1.3)
2017 CELT	57,884	57,621	56,880	56,007	55,308	54,758	54,352	54,094	53,967	(0.9)
Difference	(1,077)	(1,920)	(2,412)	(2,411)	(2,389)	(2,367)	(2,443)	(2,570)	(2,661)	
NEW HAMPSHIRE										
2018 CELT	11,837	11,842	11,785	11,781	11,794	11,815	11,826	11,832	11,850	0.0
2017 CELT	11,881	11,953	11,946	11,947	11,962	11,988	12,020	12,057	12,101	0.2
Difference	(43)	(110)	(161)	(166)	(167)	(173)	(194)	(224)	(251)	
RHODE ISLAND										
2018 CELT	7,880	7,620	7,370	7,170	6,999	6,844	6,703	6,584	6,490	(2.4)
2017 CELT	8,067	7,961	7,766	7,625	7,515	7,423	7,351	7,296	7,257	(1.3)
Difference	(187)	(341)	(396)	(455)	(517)	(579)	(648)	(712)	(767)	
VERMONT										
2018 CELT	5,814	5,705	5,592	5,505	5,426	5,353	5,281	5,216	5,160	(1.5)
2017 CELT	5,744	5,802	5,886	5,781	5,692	5,611	5,539	5,471	5,412	(0.7)
Difference	71	(97)	(293)	(276)	(266)	(259)	(258)	(255)	(252)	

50/50 Summer Net Peak (MW) Comparison (Tab 10N)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	CAGR
ISO-NE										
2018 CELT	25,728	25,511	25,298	25,136	25,021	24,941	24,889	24,864	24,874	(0.4)
2017 CELT	26,458	26,409	26,298	26,213	26,167	26,155	26,176	26,229	26,310	(0.1)
Difference	(730)	(898)	(1,000)	(1,077)	(1,146)	(1,214)	(1,287)	(1,365)	(1,436)	
CONNECTICUT										
2018 CELT	6,675	6,641	6,601	6,560	6,529	6,507	6,492	6,481	6,475	(0.4)
2017 CELT	6,958	6,885	6,788	6,763	6,746	6,733	6,727	6,723	6,726	(0.4)
Difference	(283)	(244)	(187)	(203)	(217)	(226)	(235)	(242)	(251)	
MAINE										
2018 CELT	1,920	1,905	1,889	1,880	1,877	1,877	1,875	1,875	1,876	(0.3)
2017 CELT	1,975	1,990	2,036	2,038	2,044	2,053	2,063	2,074	2,084	0.7
Difference	(55)	(85)	(147)	(158)	(167)	(176)	(188)	(199)	(208)	
MASSACHUSETTS										
2018 CELT	12,035	11,900	11,777	11,686	11,620	11,575	11,544	11,533	11,545	(0.5)
2017 CELT	12,277	12,268	12,199	12,143	12,108	12,094	12,103	12,134	12,186	(0.1)
Difference	(242)	(368)	(422)	(457)	(488)	(519)	(559)	(601)	(641)	
NEW HAMPSHIRE										
2018 CELT	2,366	2,370	2,368	2,372	2,379	2,387	2,394	2,401	2,410	0.2
2017 CELT	2,482	2,501	2,508	2,521	2,537	2,553	2,569	2,586	2,606	0.6
Difference	(116)	(131)	(140)	(149)	(158)	(166)	(175)	(185)	(196)	
RHODE ISLAND										
2018 CELT	1,838	1,817	1,797	1,783	1,771	1,762	1,755	1,752	1,751	(0.6)
2017 CELT	1,860	1,852	1,829	1,821	1,818	1,817	1,819	1,823	1,828	(0.2)
Difference	(22)	(35)	(32)	(38)	(47)	(55)	(64)	(71)	(77)	
VERMONT										
2018 CELT	894	877	865	854	844	835	829	822	816	(1.1)
2017 CELT	905	912	934	922	912	902	893	884	878	(0.4)
Difference	(11)	(35)	(69)	(68)	(68)	(67)	(64)	(62)	(62)	

50/50 Winter Net Peak (MW) Comparison (Tab 10N)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	CAGR
ISO-NE										
2018 CELT	20,357	20,273	20,012	19,809	19,642	19,505	19,380	19,271	19,190	(0.7)
2017 CELT	21,009	20,947	20,648	20,451	20,293	20,164	20,063	19,984	19,932	(0.7)
Difference	(652)	(674)	(636)	(642)	(651)	(659)	(683)	(713)	(742)	
CONNECTICUT										
2018 CELT	5,158	5,132	5,096	5,060	5,029	5,002	4,975	4,952	4,933	(0.6)
2017 CELT	5,339	5,282	5,154	5,110	5,073	5,042	5,016	4,993	4,975	(0.9)
Difference	(181)	(150)	(58)	(50)	(44)	(40)	(41)	(41)	(42)	
MAINE										
2018 CELT	1,888	1,891	1,880	1,882	1,888	1,899	1,907	1,915	1,925	0.2
2017 CELT	1,825	1,847	1,904	1,901	1,902	1,906	1,911	1,915	1,922	0.6
Difference	63	44	(24)	(19)	(14)	(7)	(4)	(0)	3	
MASSACHUSETTS										
2018 CELT	9,150	9,097	8,931	8,800	8,690	8,598	8,517	8,448	8,395	(1.1)
2017 CELT	9,607	9,581	9,384	9,265	9,168	9,090	9,028	8,982	8,953	(0.9)
Difference	(457)	(484)	(453)	(465)	(478)	(492)	(511)	(534)	(558)	
NEW HAMPSHIRE										
2018 CELT	1,946	1,948	1,939	1,932	1,928	1,924	1,921	1,918	1,915	(0.2)
2017 CELT	1,983	1,986	1,980	1,977	1,975	1,975	1,975	1,975	1,977	(0.0)
Difference	(37)	(38)	(41)	(45)	(47)	(51)	(54)	(57)	(62)	
RHODE ISLAND										
2018 CELT	1,242	1,210	1,180	1,155	1,132	1,112	1,094	1,078	1,066	(1.9)
2017 CELT	1,260	1,244	1,200	1,178	1,160	1,143	1,131	1,119	1,111	(1.6)
Difference	(18)	(34)	(20)	(23)	(28)	(31)	(37)	(41)	(45)	
VERMONT										
2018 CELT	973	996	986	980	974	969	964	960	957	(0.2)
2017 CELT	994	1,004	1,025	1,017	1,010	1,005	1,000	996	993	(0.0)
Difference	(21)	(8)	(39)	(37)	(36)	(36)	(36)	(36)	(36)	

90/10 Summer Net Peak (MW) Comparison (Tab 10N)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	CAGR
ISO-NE										
2018 CELT	28,119	27,929	27,744	27,609	27,521	27,469	27,444	27,446	27,483	(0.3)
2017 CELT	28,877	28,865	28,790	28,741	28,732	28,757	28,814	28,904	29,021	0.1
Difference	(758)	(936)	(1,046)	(1,132)	(1,211)	(1,288)	(1,370)	(1,458)	(1,538)	
CONNECTICUT										
2018 CELT	7,312	7,282	7,245	7,207	7,181	7,162	7,151	7,143	7,140	(0.3)
2017 CELT	7,639	7,573	7,483	7,465	7,455	7,449	7,450	7,453	7,462	(0.3)
Difference	(327)	(291)	(238)	(258)	(274)	(287)	(299)	(310)	(322)	
MAINE										
2018 CELT	2,053	2,039	2,023	2,015	2,012	2,012	2,010	2,011	2,012	(0.3)
2017 CELT	2,115	2,131	2,178	2,181	2,188	2,198	2,209	2,220	2,232	0.7
Difference	(62)	(92)	(155)	(166)	(176)	(186)	(199)	(209)	(220)	
MASSACHUSETTS										
2018 CELT	13,150	13,032	12,925	12,851	12,801	12,771	12,758	12,763	12,791	(0.3)
2017 CELT	13,336	13,345	13,295	13,257	13,241	13,245	13,273	13,322	13,393	0.1
Difference	(186)	(313)	(370)	(406)	(440)	(474)	(515)	(559)	(602)	
NEW HAMPSHIRE										
2018 CELT	2,558	2,564	2,564	2,570	2,578	2,588	2,598	2,607	2,618	0.3
2017 CELT	2,701	2,724	2,734	2,751	2,771	2,790	2,810	2,831	2,854	0.7
Difference	(143)	(160)	(170)	(181)	(193)	(202)	(212)	(224)	(236)	
RHODE ISLAND										
2018 CELT	2,106	2,089	2,074	2,064	2,056	2,052	2,050	2,051	2,055	(0.3)
2017 CELT	2,119	2,116	2,098	2,096	2,098	2,102	2,109	2,118	2,128	0.1
Difference	(13)	(27)	(24)	(32)	(42)	(50)	(59)	(67)	(73)	
VERMONT										
2018 CELT	940	924	912	902	893	884	879	872	867	(1.0)
2017 CELT	950	958	982	971	961	952	944	937	931	(0.3)
Difference	(10)	(34)	(70)	(69)	(68)	(68)	(65)	(65)	(64)	

90/10 Winter Net Peak (MW) Comparison (Tab 10N)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	CAGR
ISO-NE										
2018 CELT	21,056	20,972	20,712	20,508	20,342	20,205	20,079	19,971	19,890	(0.7)
2017 CELT	21,707	21,646	21,347	21,150	20,991	20,863	20,761	20,683	20,630	(0.6)
Difference	(651)	(674)	(635)	(642)	(649)	(658)	(682)	(712)	(740)	
CONNECTICUT										
2018 CELT	5,331	5,305	5,269	5,233	5,202	5,175	5,149	5,125	5,106	(0.5)
2017 CELT	5,527	5,470	5,342	5,298	5,261	5,230	5,204	5,181	5,163	(0.8)
Difference	(196)	(165)	(73)	(65)	(59)	(55)	(55)	(56)	(57)	
MAINE										
2018 CELT	1,946	1,949	1,938	1,940	1,946	1,957	1,965	1,973	1,983	0.2
2017 CELT	1,881	1,904	1,960	1,958	1,959	1,963	1,967	1,972	1,978	0.6
Difference	65	45	(22)	(18)	(13)	(6)	(2)	1	5	
MASSACHUSETTS										
2018 CELT	9,471	9,418	9,252	9,121	9,011	8,920	8,838	8,769	8,717	(1.0)
2017 CELT	9,933	9,906	9,710	9,591	9,494	9,416	9,354	9,307	9,278	(0.8)
Difference	(462)	(488)	(458)	(470)	(483)	(496)	(516)	(538)	(561)	
NEW HAMPSHIRE										
2018 CELT	2,028	2,029	2,020	2,013	2,009	2,006	2,003	1,999	1,997	(0.2)
2017 CELT	2,070	2,073	2,066	2,064	2,062	2,062	2,061	2,062	2,064	(0.0)
Difference	(42)	(44)	(46)	(51)	(53)	(56)	(58)	(63)	(67)	
RHODE ISLAND										
2018 CELT	1,291	1,259	1,229	1,203	1,180	1,160	1,142	1,127	1,114	(1.8)
2017 CELT	1,286	1,271	1,226	1,204	1,186	1,170	1,157	1,145	1,137	(1.5)
Difference	5	(12)	3	(1)	(6)	(10)	(15)	(18)	(23)	
VERMONT										
2018 CELT	990	1,014	1,004	998	992	987	982	978	975	(0.2)
2017 CELT	1,011	1,022	1,043	1,034	1,028	1,023	1,017	1,013	1,011	-
Difference	(21)	(8)	(39)	(36)	(36)	(36)	(35)	(35)	(36)	