

Final 2019 Energy Efficiency Forecast



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INTRODUCTION



Acronyms

- EE Energy Efficiency
- EEFWG Energy Efficiency Forecast Working Group
- FCM Forward Capacity Market
- FCA Forward Capacity Auction (FCM)
- CSO Capacity Supply Obligation (FCM)
- ARA 3 Third Annual Reconfiguration Auction (FCM)
- ICR Installed Capacity Requirement
- PA Program Administrator
- RGGI Regional Greenhouse Gas Initiative
- SBC System Benefit Charge
- CELT 10-year forecast of Capacity, Energy, Loads and Transmission



Introduction

- This presentation contains the final EE forecast for the period 2020 through 2028
- The forecast estimates reductions in energy and demand from state-sponsored EE programs in the New England control area by state (CT, MA, ME, NH, RI, VT)
- The data used to create the forecast originates from state-sponsored EE Program Administrators and state regulatory agencies



Introduction

Process

- This forecast follows the same fundamental forecast process and methodology used in prior years, starting in 2012
- The EE forecast is based on average production costs, peak-to-energy ratios, and projected budgets of state-sponsored EE programs
- The EE forecast is updated annually and is incorporated into the CELT report
- A generalized characterization of the forecast process can be found in the “Energy-Efficiency Forecast Background Report” available at https://www.iso-ne.com/static-assets/documents/2016/05/Final_EEF_Background_Report_050116.pdf



Introduction

Impacts

- The EE forecast is used in ISO studies including:
 - Long-term transmission planning studies
 - Economic planning studies
- EE forecast will not impact:
 - ICR/Local Sourcing Requirement/Maximum Capacity Limit/Demand Curves
 - FCM auctions
 - FCM related reliability studies (qualification, de-list bid reliability reviews)



FORECAST ASSUMPTIONS AND METHODOLOGY



Forecast Model

General Assumptions

- Annual EE budgets provided by the Commissions or representatives on their behalf were used in the model and held constant in years after the latest approved budget
- Production cost baselines were derived from a three-year average of recent performance
- Peak-to-Energy Ratios were derived from a three-year average of recent performance and held constant through the forecast period
- Inflation rate set at 2.5% per year
- Current CELT energy forecast used in conjunction with SBC rates to forecast SBC dollars
- FCM revenue has no effect on overall budget in ME, VT, MA, and RI



Forecast Model

Input Assumptions

- 2018 CELT Energy Forecast
- 2018 CELT FCM CSOs and FCA #13 clearing price used for calculating budgets
- Production Cost: PA 2015-2017 average
- Peak-to-Energy Ratio: PA 2015-2017 average
- Production Cost Escalation Rate: 2.5% inflation + 2% graduated rate (starting in year 1)
- No Budget Spend Rate deduction



Forecast Model

Assumptions Regarding the Forward Capacity Market

- FCM clearing price was held constant at \$3.8/kW-month[†], which was the clearing price for FCA #13
 - ISO assumes that all achieved EE capacity will be bid into and clear in future FCA's[‡]

[†] FCA clearing price used is for modeling purposes only and should not be considered an indication of future clearing prices.

[‡] The ISO assumption that all achieved EE capacity would be bid into and clear in future FCA's is only for modeling purposes and should not be considered an indication of any future FCA outcome.



Forecast Model

Fundamentals

- Compute Annual Energy Savings

$$\text{Annual Energy Savings} = \frac{(1 - \text{Budget Spend Rate Modifier}) * (\text{Budget})}{(\text{Production Cost}) * (\text{Production Cost Escalator})}$$

- Compute Annual Demand Savings

$$\text{Annual Demand Savings} = (\text{Annual Energy Savings}) * (\text{Peak-to-Energy Ratio})$$

- Where:

- Budget Spend Rate Modifier (%) = % to reduce state budgets
- Budget (\$) = \$SBC + \$RGGI + \$FCM + \$Policy
- Production Cost (\$/MWh) = unit cost to develop a MWh of annual savings
- Production Cost Escalator(%) = % increase in annual production cost
- Peak-to-Energy Ratio (MW/MWh) = ratio of annual demand to annual energy savings



FORECAST INPUTS

Summary of Program Administrator Data and Model Parameters



Summary of Program Performance Changes

2016 PA Data Versus 2017 PA Data

- Production Cost
 - Decreased in majority of states
 - Decreased for New England
 - Decrease in most recent rolling 3-year average
- Peak-to-Energy Ratio
 - Decreased in majority of states
 - Decreased for New England
 - Increase in most recent rolling 3-year average



Program Data Summary

Period	Budget (\$1000's)	Total Costs (\$1000's)	Achieved Annual Energy (MWh)	Dollars per MWh	Achieved Summer Peak (MW)	Dollars per MW	% Energy Achieved	% Budget Spent	% Peak Achieved	Peak to Energy Ratio Achieved (MW/GWh)	Achieved Lifetime Energy (MWh)	Lifetime Dollars Per MWh
New England												
2012	745,761	648,848	1,723,357	377	221	2,930,052	98%	87%	86%	0.128	18,384,080	35
2013	727,655	707,930	1,833,883	386	254	2,787,351	109%	97%	105%	0.138	20,414,118	35
2014	857,984	863,025	2,093,423	412	275	3,142,634	115%	101%	99%	0.131	22,253,410	39
2015	902,490	926,779	2,375,192	390	333	2,784,155	123%	103%	129%	0.140	26,658,969	35
2016	984,622	912,277	2,465,462	370	355	2,572,930	117%	93%	128%	0.144	23,614,098	39
2017	1,042,235	894,105	2,532,331	353	347	2,573,479	119%	86%	125%	0.137	25,233,171	35
Avg 2014-2016	915,032	900,694	2,311,359	391	321	2,833,240	118%	99%	119%	0.138	24,175,492	37
Avg 2015-2017	976,449	911,054	2,457,662	371	345	2,643,521	119%	94%	127%	0.140	25,168,746	36
Massachusetts												
2012	508,987	400,607	980,105	409	125	3,198,050	88%	79%	75%	0.128	10,724,658	37
2013	499,584	438,951	1,116,236	393	160	2,737,910	93%	88%	93%	0.144	11,999,747	37
2014	511,262	518,438	1,246,950	416	166	3,119,041	110%	101%	103%	0.133	13,397,730	39
2015	523,663	545,060	1,396,513	390	195	2,788,155	116%	104%	129%	0.140	16,295,573	33
2016	588,032	537,413	1,475,270	364	224	2,397,873	110%	91%	128%	0.152	12,652,697	42
2017	584,643	541,581	1,487,372	364	200	2,701,962	108%	93%	111%	0.135	14,419,722	38
Avg 2014-2016	540,985	533,637	1,372,911	390	195	2,768,356	112%	99%	120%	0.142	14,115,333	38
Avg 2015-2017	565,446	541,351	1,453,052	373	207	2,629,330	111%	96%	123%	0.142	14,455,998	38
Connecticut*												
2012	120,177	121,826	308,428	395	40	3,032,738	131%	101%	124%	0.130	3,116,688	39
2013	97,955	121,612	271,480	448	33	3,648,317	139%	124%	130%	0.123	2,885,413	42
2014	174,992	176,459	377,073	468	50	3,507,071	103%	101%	106%	0.133	4,067,290	43
2015	181,980	179,351	411,055	436	64	2,816,838	108%	99%	113%	0.155	4,282,544	42
2016	199,205	199,188	427,036	466	59	3,396,595	107%	100%	110%	0.137	4,977,875	40
2017	191,244	158,917	457,866	347	64	2,469,681	120%	83%	127%	0.141	4,780,069	33
Avg 2014-2016	185,392	184,999	405,055	457	58	3,240,168	106%	100%	110%	0.142	4,442,569	42
Avg 2015-2017	190,810	179,152	431,986	417	62	2,894,371	111%	94%	117%	0.144	4,680,163	38
Rhode Island												
2012	61,246	48,870	119,666	408	20	2,504,009	93%	80%	82%	0.163	1,288,325	38
2013	64,179	61,547	149,033	413	25	2,453,415	104%	96%	123%	0.168	1,602,369	38
2014	73,766	74,537	193,613	385	24	3,161,426	107%	101%	59%	0.122	1,781,643	42
2015	86,326	84,400	214,512	393	27	3,069,598	116%	98%	112%	0.128	2,121,586	40
2016	88,468	73,867	213,865	345	27	2,722,154	107%	83%	105%	0.127	2,027,270	36
2017	141,104	83,715	232,023	361	32	2,602,619	115%	59%	127%	0.139	2,327,916	36
Avg 2014-2016	82,853	77,601	207,330	375	26	2,984,393	110%	94%	92%	0.126	1,976,833	39
Avg 2015-2017	105,299	80,660	220,134	367	29	2,798,123	113%	80%	115%	0.131	2,158,924	37

* CT 2017 budgets were not restated to reflect the impact of budget cuts, caused by the diversion of funds by the State of CT.

Program Data Summary

Period	Budget (\$1000's)	Total Costs (\$1000's)	Achieved Annual Energy (MWh)	Dollars per MWh	Achieved Summer Peak (MW)	Dollars per MW	% Energy Achieved	% Budget Spent	% Peak Achieved	Peak to Energy Ratio Achieved (MW/GWh)	Achieved Lifetime Energy (MWh)	Lifetime Dollars Per MWh
Maine												
2012	-	23,712	143,532	165	12	1,904,497	101%	-	114%	0.087	1,266,751	19
2013	-	24,279	141,978	171	15	1,603,990	-	-	-	0.107	2,043,036	12
2014	26,976	21,972	115,847	190	14	1,621,745	-	81%	-	0.117	1,014,155	22
2015	41,991	45,493	166,500	273	21	2,124,405	-	108%	-	0.129	1,499,177	30
2016	39,288	32,608	139,037	235	21	1,564,454	-	83%	-	0.150	1,518,286	21
2017	48,614	31,435	92,185	341	20	1,590,962	-	65%	-	0.214	1,119,512	28
Avg 2014-2016	36,085	33,358	140,461	232	19	1,770,201	-	91%	-	0.132	1,343,873	24
Avg 2015-2017	43,297	36,512	132,574	283	21	1,759,940	-	85%	-	0.164	1,378,992	27
Vermont												
2012	35,678	35,130	117,653	299	16	2,172,427	119%	98%	109%	0.137	1,320,789	27
2013	39,495	35,989	96,323	374	12	2,966,434	97%	91%	81%	0.126	1,119,186	32
2014	44,690	45,795	96,557	474	11	4,121,184	113%	102%	74%	0.115	1,141,386	40
2015	44,637	46,598	113,112	412	13	3,516,048	101%	104%	89%	0.117	1,457,163	32
2016	45,189	46,346	140,592	330	15	3,002,514	123%	103%	104%	0.110	1,484,990	31
2017	49,926	51,542	181,361	284	19	2,724,177	158%	103%	128%	0.104	1,565,673	33
Avg 2014-2016	44,839	46,246	116,754	405	13	3,546,582	112%	103%	89%	0.114	1,361,180	34
Avg 2015-2017	46,584	48,162	145,022	342	16	3,080,913	127%	103%	107%	0.110	1,502,609	32
New Hampshire												
2012	19,673	18,703	53,973	347	8	2,376,052	106%	95%	101%	0.146	666,868	28
2013	26,442	25,552	58,833	434	8	3,207,104	111%	97%	107%	0.135	764,368	33
2014	26,298	25,826	63,384	407	10	2,622,172	124%	98%	76%	0.155	851,207	30
2015	23,894	25,877	73,499	352	12	2,240,227	129%	108%	119%	0.157	1,002,926	26
2016	24,441	22,856	69,661	328	8	2,724,396	139%	94%	103%	0.120	952,980	24
2017	26,704	26,915	81,525	330	12	2,281,136	132%	101%	158%	0.145	1,020,279	26
Avg 2014-2016	24,878	24,853	68,848	363	10	2,528,932	131%	100%	99%	0.144	935,705	27
Avg 2015-2017	25,013	25,216	74,895	337	11	2,415,253	133%	101%	127%	0.141	992,062	25

FCM and RGGI Funds

RGGI Dollars (\$1000's) Applied to EE Annually

	New England	MA	CT	ME	RI	VT	NH
	32,589	20,254	9,769	-	-	-	2,566

FCM MW

	New England	MA	CT	ME	RI	VT	NH
2022	3,355	1,831	743	204	313	129	135

FCM Dollars (\$1000's, clearing price of \$3.80*)

	New England	MA	CT	ME	RI	VT	NH
2022	137,790	83,482	33,872	-	14,268	-	6,168

FCM Dollars for EE (\$1000's)

	New England	MA	CT	ME	RI	VT	NH
2020	162,353	98,301	39,448	-	16,964	-	7,641
2021	149,549	89,439	37,862	-	15,544	-	6,704
2022	137,790	83,482	33,872	-	14,268	-	6,168
2023	137,790	83,482	33,872	-	14,268	-	6,168
2024	137,790	83,482	33,872	-	14,268	-	6,168
2025	137,790	83,482	33,872	-	14,268	-	6,168
2026	137,790	83,482	33,872	-	14,268	-	6,168
2027	137,790	83,482	33,872	-	14,268	-	6,168
2028	137,790	83,482	33,872	-	14,268	-	6,168

* Auction clearing price for Rest-of-Pool



Energy Forecast

2018 CELT Energy Forecast (GWh)

	New England	MA	CT	ME	RI	VT	NH
2020	144,633	67,891	34,489	13,042	9,422	7,040	12,749
2021	146,010	68,675	34,707	13,195	9,488	7,090	12,855
2022	147,537	69,527	34,956	13,380	9,563	7,140	12,971
2023	149,099	70,401	35,209	13,576	9,636	7,188	13,089
2024	150,485	71,196	35,419	13,749	9,702	7,230	13,189
2025	151,766	71,935	35,604	13,909	9,771	7,270	13,277
2026	153,071	72,685	35,794	14,067	9,846	7,311	13,368
2027	154,365	73,422	35,981	14,222	9,926	7,353	13,461
2028	155,659	74,159	36,168	14,377	10,006	7,395	13,554

2018 CELT Energy Forecast - FCM Passive Demand Resources (GWh)

	New England	MA	CT	ME	RI	VT	NH
2020	123,301	55,886	30,518	11,513	7,479	6,000	11,905
2021	122,184	55,153	30,349	11,525	7,302	5,939	11,916
2022	123,711	56,005	30,598	11,710	7,377	5,989	12,032
2023	125,273	56,879	30,851	11,906	7,450	6,037	12,150
2024	126,659	57,674	31,061	12,079	7,516	6,079	12,250
2025	127,940	58,413	31,246	12,239	7,585	6,119	12,338
2026	129,245	59,163	31,436	12,397	7,660	6,160	12,429
2027	130,539	59,900	31,623	12,552	7,740	6,202	12,522
2028	131,833	60,637	31,810	12,707	7,820	6,244	12,615

Energy Forecast

SBC Eligible							
		MA	CT	ME	RI	VT	NH
		85.9%	94.7%	98.7%	100.0%	100.0%	100.0%
SBC Eligible 2018 Energy Forecast - FCM Passive Demand Resources (GWh)							
	New England	MA	CT	ME	RI	VT	NH
2020	113,654	48,006	28,901	11,363	7,479	6,000	11,905
2021	112,649	47,376	28,741	11,375	7,302	5,939	11,916
2022	114,040	48,108	28,976	11,558	7,377	5,989	12,032
2023	115,463	48,859	29,216	11,751	7,450	6,037	12,150
2024	116,724	49,542	29,415	11,922	7,516	6,079	12,250
2025	117,889	50,177	29,590	12,080	7,585	6,119	12,338
2026	119,076	50,821	29,770	12,236	7,660	6,160	12,429
2027	120,254	51,454	29,947	12,389	7,740	6,202	12,522
2028	121,432	52,087	30,124	12,542	7,820	6,244	12,615



Energy Sales and System Benefit Charge

Sales (GWh)							
	New England	MA	CT	ME	RI	VT	NH
2020	107,221	45,289	27,265	10,720	7,056	5,660	11,231
2021	106,273	44,695	27,114	10,731	6,889	5,603	11,242
2022	107,585	45,385	27,336	10,904	6,959	5,650	11,351
2023	108,928	46,093	27,562	11,086	7,028	5,695	11,462
2024	110,117	46,738	27,750	11,247	7,091	5,735	11,557
2025	111,216	47,337	27,915	11,396	7,156	5,773	11,640
2026	112,336	47,944	28,085	11,543	7,226	5,811	11,725
2027	113,447	48,542	28,252	11,688	7,302	5,851	11,813
2028	114,559	49,139	28,419	11,832	7,377	5,891	11,901
SBC Rate (\$/kWh)							
		MA	CT	ME	RI	VT	NH
		0.00250		-	0.01000	-	0.00373
SBC Dollars (\$1000's)							
	New England	MA	CT*	ME	RI	VT	NH
2020	239,294	113,222	-	-	84,180	-	41,892
2021	239,069	111,737	-	-	85,401	-	41,931
2022	249,010	113,463	-	-	93,208	-	42,339
2023	253,691	115,234	-	-	95,703	-	42,754
2024	257,863	116,844	-	-	97,913	-	43,106
2025	261,692	118,341	-	-	99,935	-	43,416
2026	265,403	119,861	-	-	101,806	-	43,736
2027	268,951	121,354	-	-	103,534	-	44,063
2028	272,326	122,847	-	-	105,089	-	44,391

* CT SBC funding is discontinued beginning in 2020

Impacts of New EE on Revenue Streams

Lost SBC Dollars (\$1000's)

	New England	MA	CT	ME	RI	VT	NH
2023	11,970	6,913	-	-	4,225	-	831
2024	16,919	9,765	-	-	5,977	-	1,177
2025	21,184	12,218	-	-	7,491	-	1,475
2026	24,797	14,292	-	-	8,777	-	1,728
2027	27,808	16,018	-	-	9,851	-	1,940
2028	30,277	17,429	-	-	10,734	-	2,114

New FCM Dollars (\$1000's)

	New England	MA	CT	ME	RI	VT	NH
2023	11,970	6,913	-	-	4,225	-	831
2024	16,919	9,765	-	-	5,977	-	1,177
2025	21,184	12,218	-	-	7,491	-	1,475
2026	24,797	14,292	-	-	8,777	-	1,728
2027	27,808	16,018	-	-	9,851	-	1,940
2028	30,277	17,429	-	-	10,734	-	2,114

Policy Dollars and Total Budgets

Policy Dollars (\$1000's)*							
	New England	MA	CT	ME	RI	VT	NH
2020	741,797	487,372	154,186	46,010	-	54,229	-
2021	740,532	486,361	152,943	46,071	-	55,156	-
2022	739,766	484,764	152,943	46,212	-	55,847	-
2023	733,553	477,800	152,943	46,212	-	56,598	-
2024	728,268	471,643	152,943	46,212	-	57,470	-
2025	725,238	466,236	152,943	46,212	-	59,847	-
2026	721,204	461,409	152,943	46,212	-	60,639	-
2027	717,206	457,166	152,943	46,212	-	60,885	-
2028	715,915	453,423	152,943	46,212	-	63,336	-
Total Budget Dollars (\$1000's)							
	New England	MA	CT	ME	RI	VT	NH
2020	1,176,033	719,149	203,403	46,010	101,143	54,229	52,099
2021	1,161,738	707,791	200,574	46,071	100,945	55,156	51,201
2022	1,166,809	707,791	198,990	46,212	106,580	55,847	51,389
2023	1,172,091	707,791	201,128	46,212	108,275	56,598	52,087
2024	1,176,937	707,791	202,995	46,212	109,781	57,470	52,688
2025	1,182,856	707,791	204,599	46,212	111,195	59,847	53,213
2026	1,186,859	707,791	205,951	46,212	112,550	60,639	53,716
2027	1,190,003	707,791	207,074	46,212	113,846	60,885	54,196
2028	1,195,024	707,791	207,990	46,212	115,046	63,336	54,648

* Policy dollars are funds not from SBC, RGGI, or FCM revenues. Policy dollars are present in states that set the SBC rate based on budget alone (VT and ME) and states that have a surcharge to cover the balance of the total budget (MA and CT). MA is adjusted to reflect a lower portion of budget coming from SBC due to higher FCM revenue.

Production Costs and Peak-to-Energy Ratio

Production Cost Multiplier (includes inflation)						
	MA	CT	ME	RI	VT	NH
2018	1.025	1.025	1.025	1.025	1.025	1.025
2019	1.045	1.045	1.045	1.045	1.045	1.045
2020	1.065	1.065	1.065	1.065	1.065	1.065
2021	1.085	1.085	1.085	1.085	1.085	1.085
2022	1.105	1.105	1.105	1.105	1.105	1.105
2023	1.125	1.125	1.125	1.125	1.125	1.125
2024	1.145	1.145	1.145	1.145	1.145	1.145
2025	1.165	1.165	1.165	1.165	1.165	1.165
2026	1.185	1.185	1.185	1.185	1.185	1.185
2027	1.205	1.205	1.205	1.205	1.205	1.205
2028	1.225	1.225	1.225	1.225	1.225	1.225
Production Cost (\$/MWh)						
	MA	CT	ME	RI	VT	NH
2018	382	427	290	376	350	345
2019	399	446	303	393	366	361
2020	425	475	323	418	390	384
2021	462	516	350	454	423	417
2022	510	570	387	501	468	461
2023	574	641	435	564	526	518
2024	657	734	498	646	602	593
2025	765	855	581	752	702	691
2026	907	1,013	688	891	832	819
2027	1,093	1,221	829	1,074	1,002	987
2028	1,339	1,496	1,016	1,316	1,228	1,209
Peak-to-Energy Ratio (MW/GWh)						
	MA	CT	ME	RI	VT	NH
	0.142	0.144	0.164	0.131	0.110	0.141

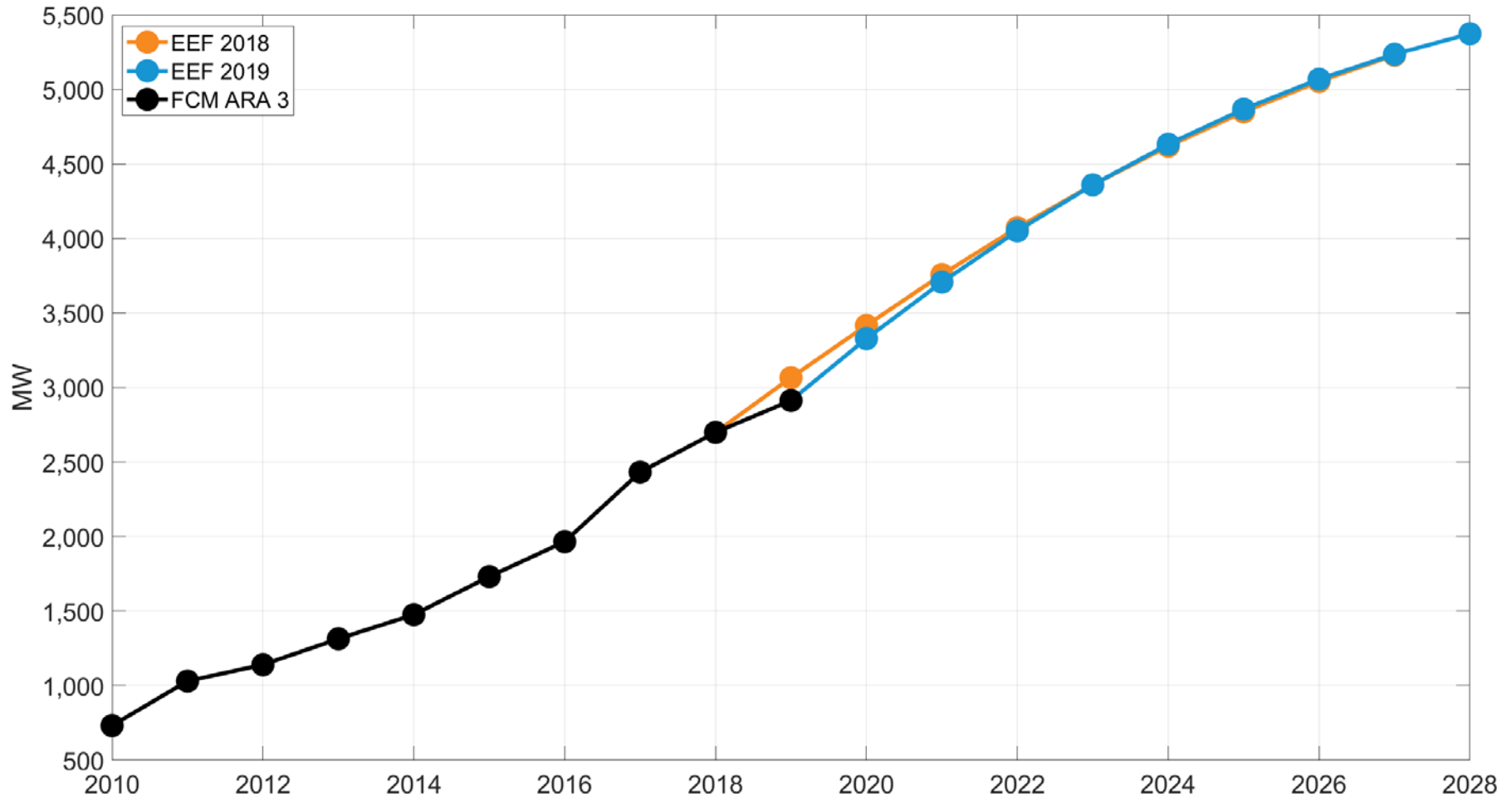
FINAL FORECAST

New England



New England

Energy Efficiency on Summer Peak

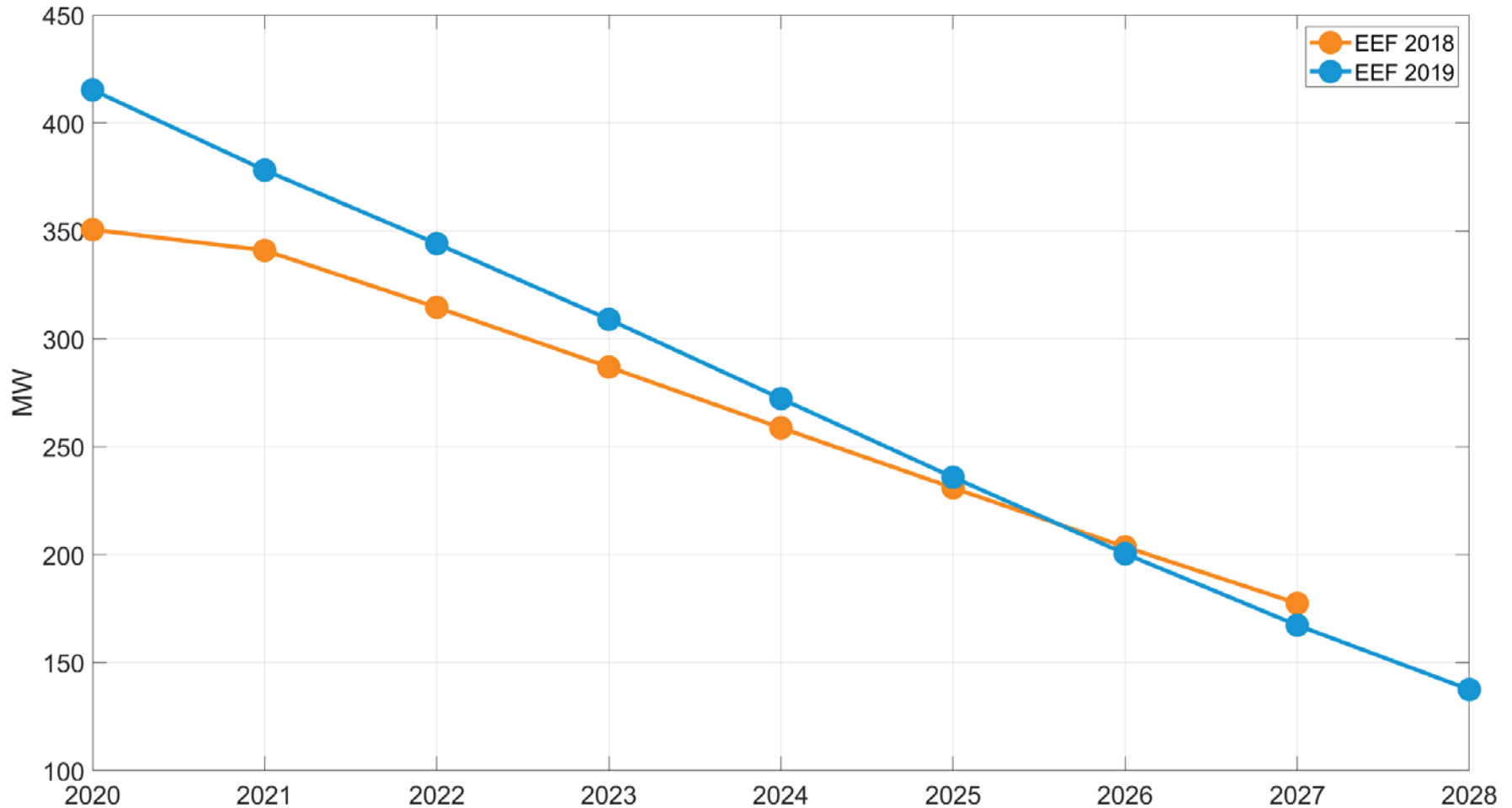


Energy and Summer Peak EE Forecast

Energy Savings (GWh)							
	New England	MA	CT	ME	RI	VT	NH
2020	2,944	1,792	454	151	256	147	144
2021	2,682	1,626	412	139	236	138	130
2022	2,441	1,474	370	127	225	127	118
2023	2,193	1,323	333	113	204	114	107
2024	1,933	1,166	293	98	180	101	94
2025	1,675	1,008	254	84	157	90	82
2026	1,424	856	215	71	134	77	70
2027	1,189	715	180	59	112	64	58
2028	977	586	147	48	93	55	48
Total 2020-2028	17,457	10,547	2,658	891	1,597	914	850
Average	1,940	1,172	295	99	177	102	94
Demand Savings (MW)							
	New England	MA	CT	ME	RI	VT	NH
2020	415	255	65	25	34	16	20
2021	378	231	59	23	31	15	18
2022	344	210	53	21	30	14	17
2023	309	188	48	18	27	13	15
2024	272	166	42	16	24	11	13
2025	236	143	37	14	21	10	11
2026	200	122	31	12	18	9	10
2027	167	102	26	10	15	7	8
2028	138	83	21	8	12	6	7
Total 2020-2028	2,460	1,500	383	146	210	101	120
Average	273	167	43	16	23	11	13

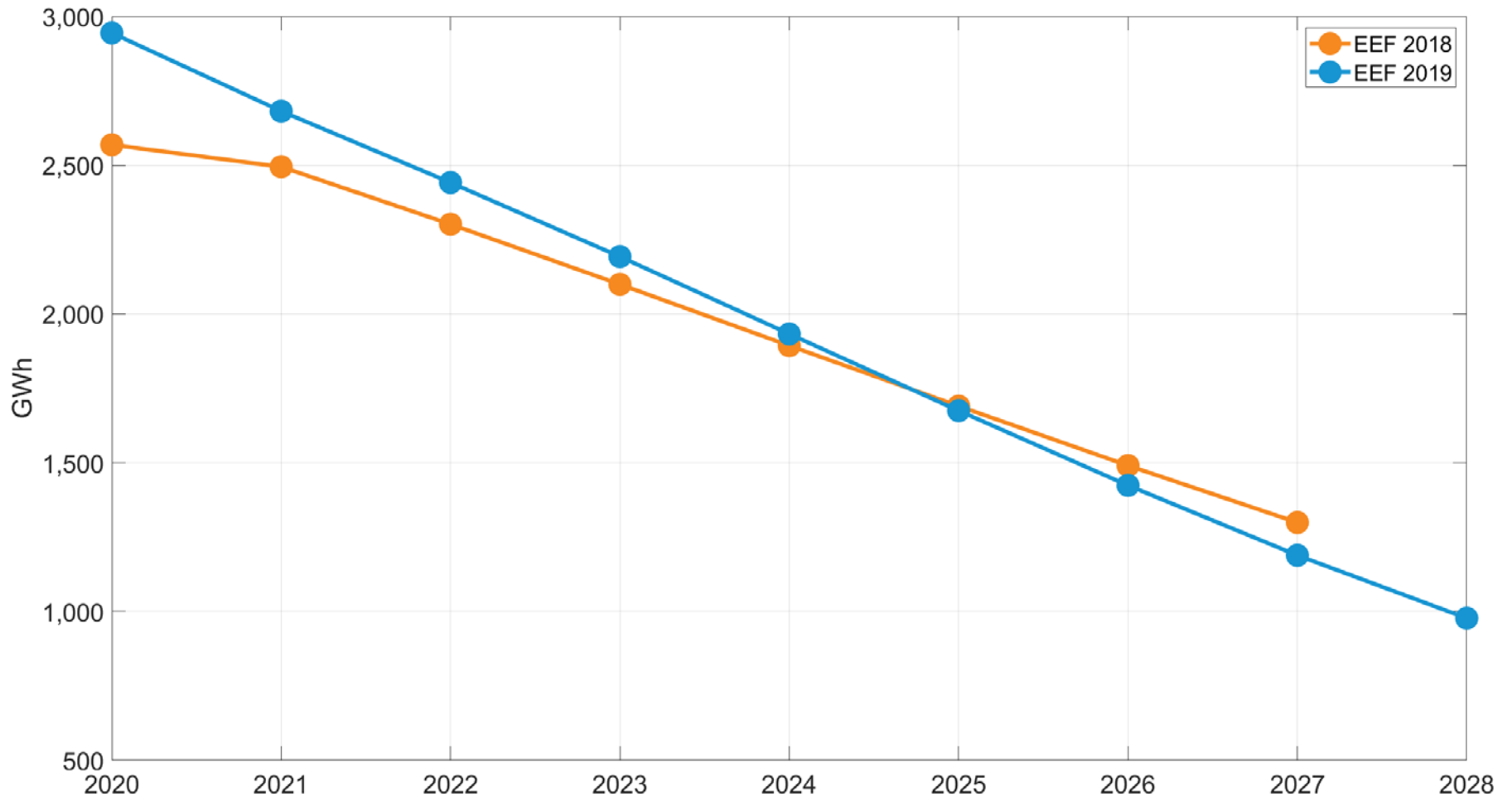
New England

Energy Efficiency on Summer Peak



New England

Energy Efficiency on Annual Energy



EE Forecast Comparison

PA Average Production Cost (\$/MWh)							
		MA	CT	ME	RI	VT	NH
2018 EE Forecast		392	457	232	375	411	363
2019 EE Forecast		373	417	283	367	342	337
PA Average Peak-to-Energy Ratio (MW/GWh)							
		MA	CT	ME	RI	VT	NH
2018 EE Forecast		0.139	0.142	0.132	0.126	0.114	0.144
2019 EE Forecast		0.142	0.144	0.164	0.131	0.110	0.141
Total EE Dollars (1000s)							
	New England	MA	CT	ME	RI	VT	NH
2018 EE Forecast							
Total 2019-2027	10,519,771	6,440,682	1,832,627	355,446	991,660	514,582	384,774
Average	1,168,863	715,631	203,625	39,494	110,184	57,176	42,753
2019 EE Forecast							
Total 2020-2028	10,608,350	6,381,474	1,832,704	415,565	979,362	524,007	475,238
Average	1,178,706	709,053	203,634	46,174	108,818	58,223	52,804
Summer Peak Impacts (MW)							
	New England	MA	CT	ME	RI	VT	NH
2018 EE Forecast							
Total 2019-2027	2,531	1,577	382	139	229	98	105
Average	281	175	42	15	25	11	12
2019 EE Forecast							
Total 2020-2028	2,460	1,500	383	146	210	101	120
Average	273	167	43	16	23	11	13

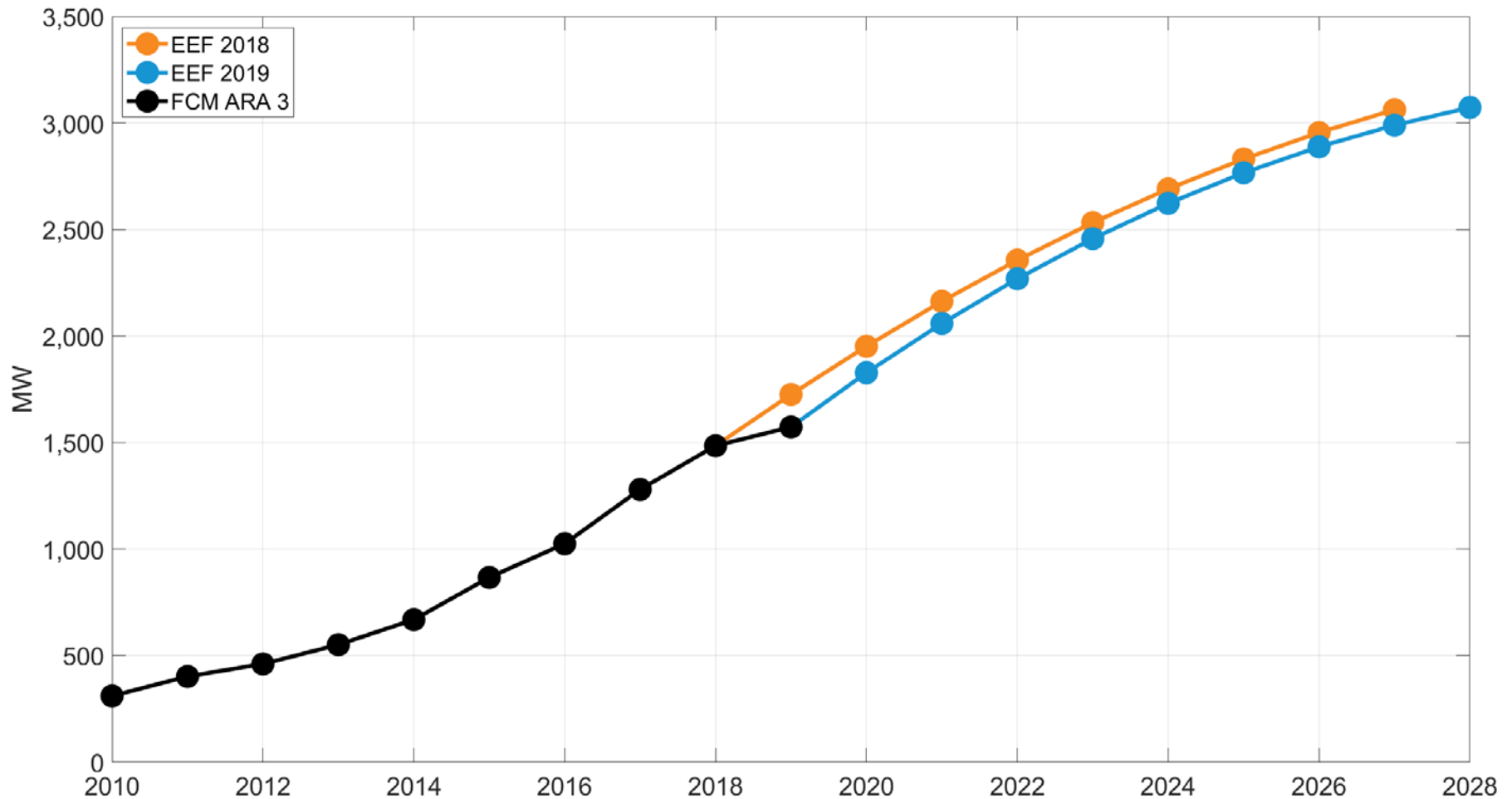
FINAL FORECAST

States



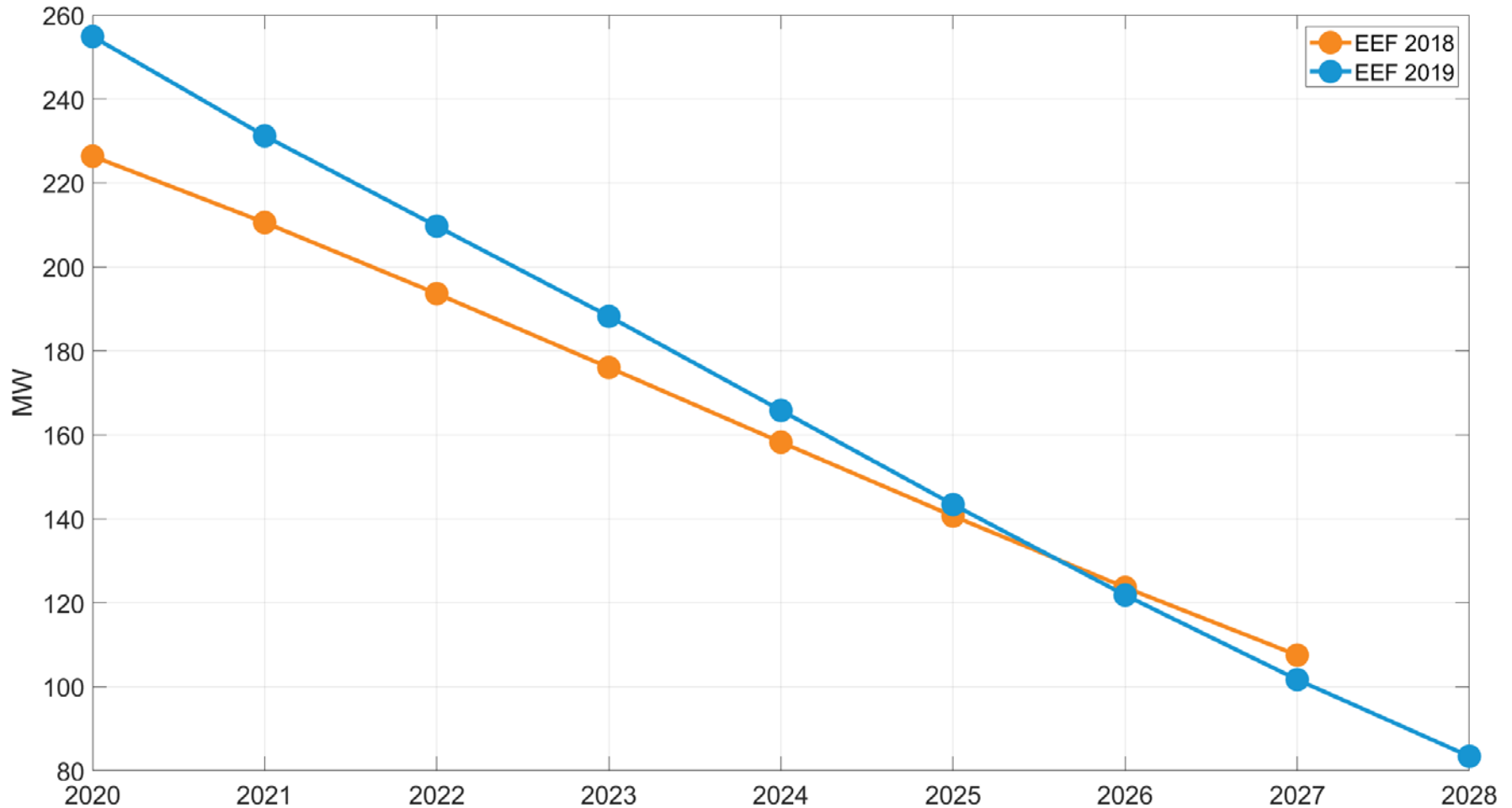
Massachusetts

Energy Efficiency on Summer Peak



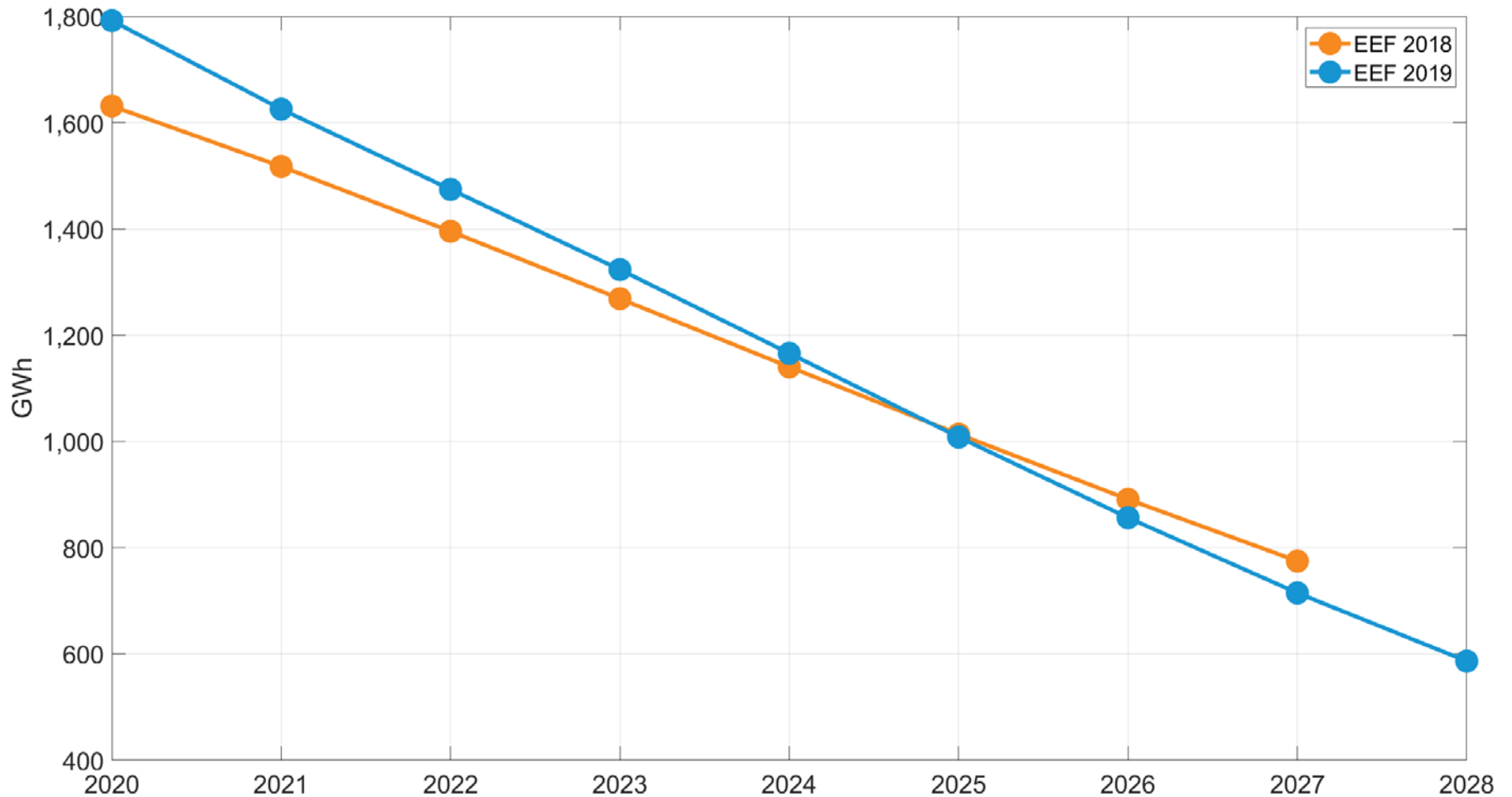
Massachusetts

Energy Efficiency on Summer Peak



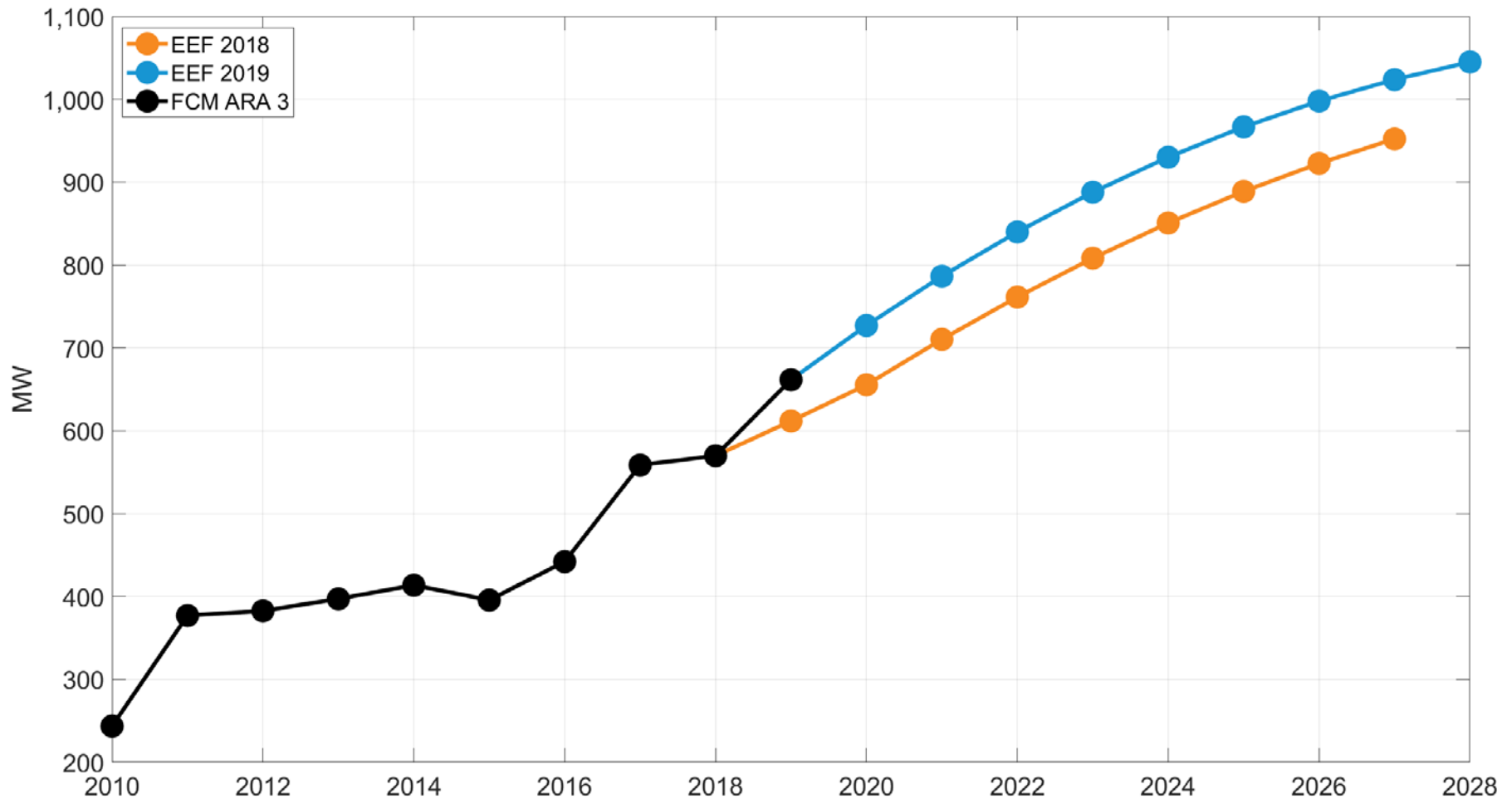
Massachusetts

Energy Efficiency on Annual Energy



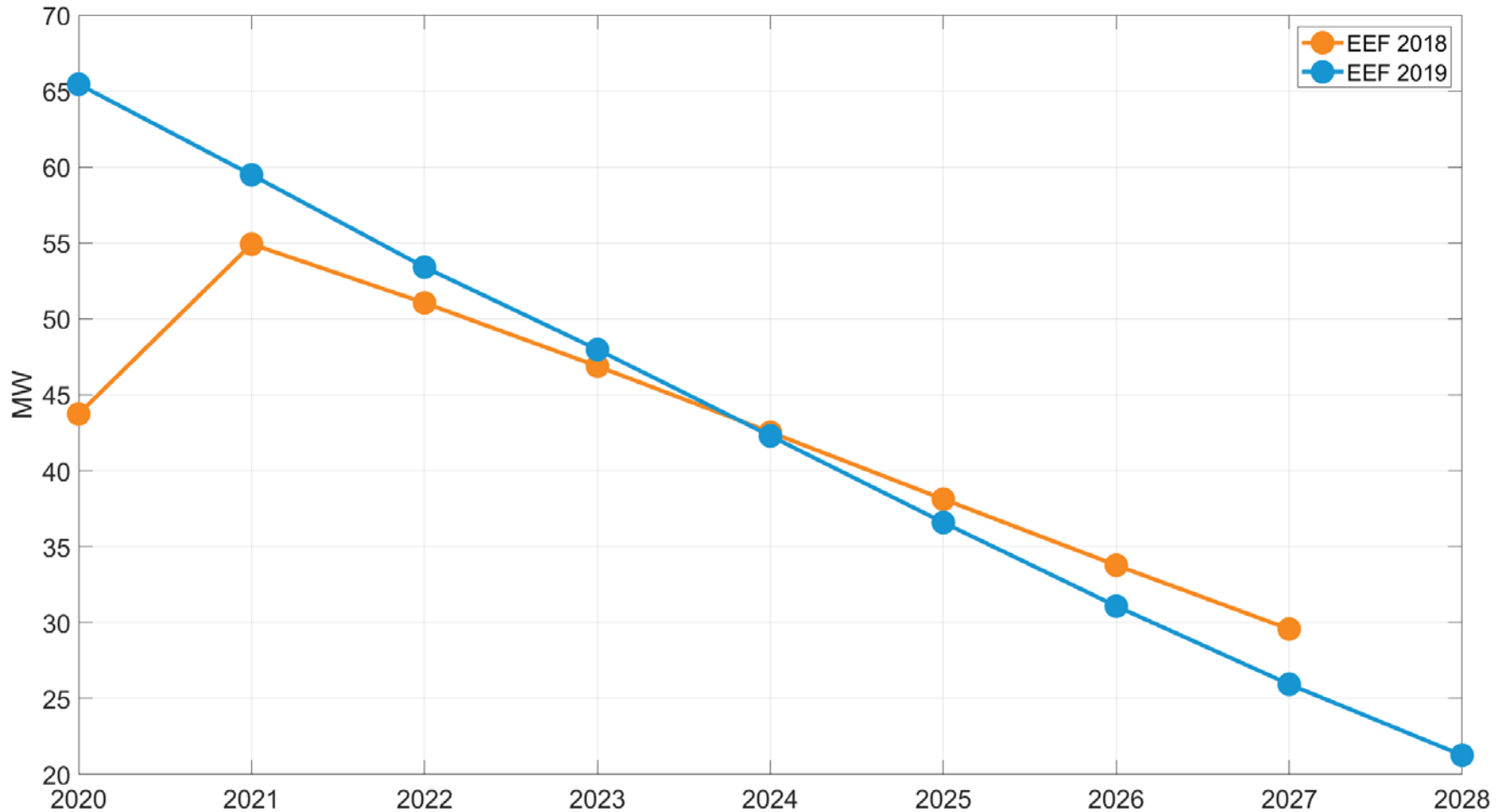
Connecticut

Energy Efficiency on Summer Peak



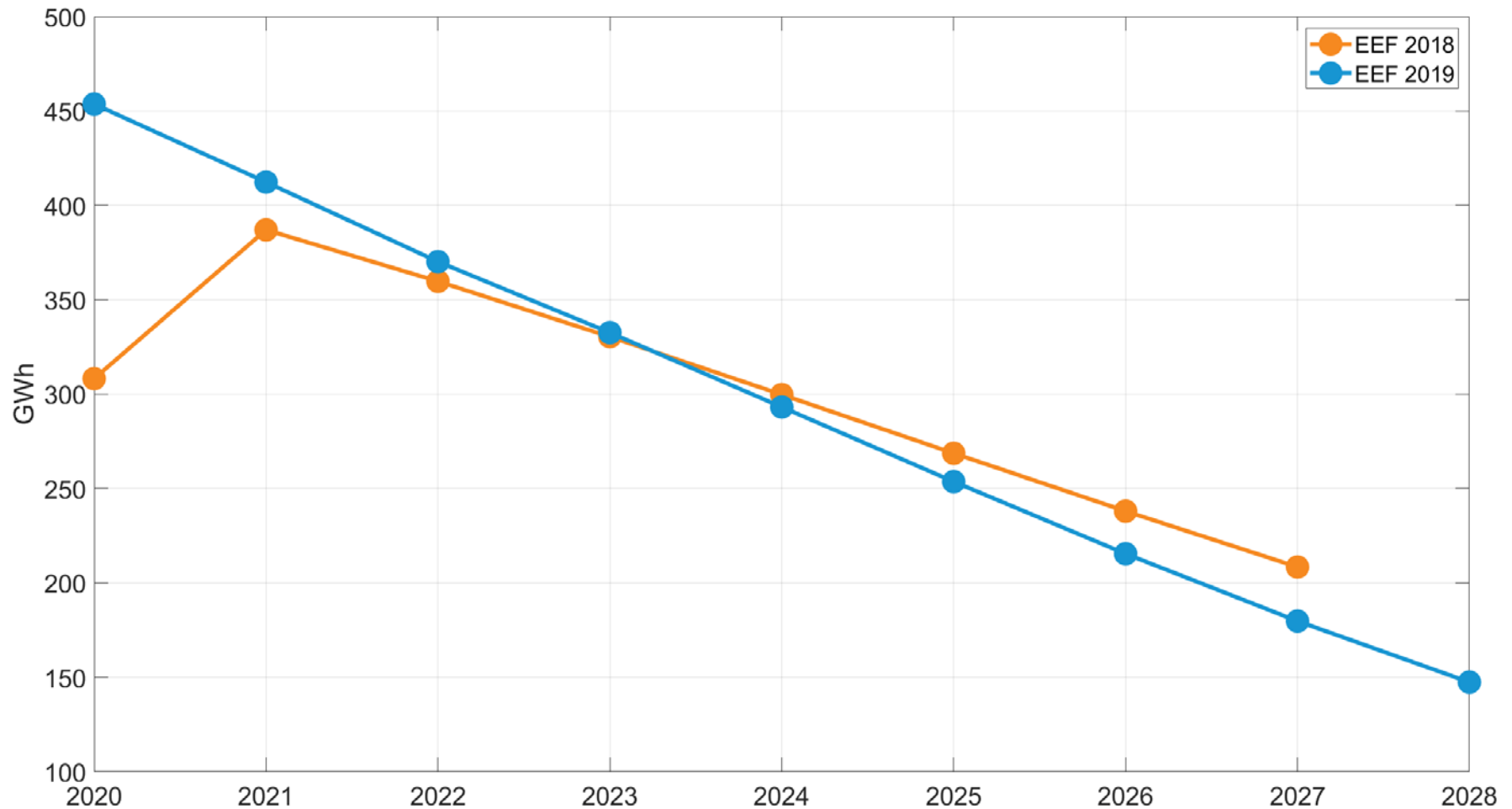
Connecticut

Energy Efficiency on Summer Peak



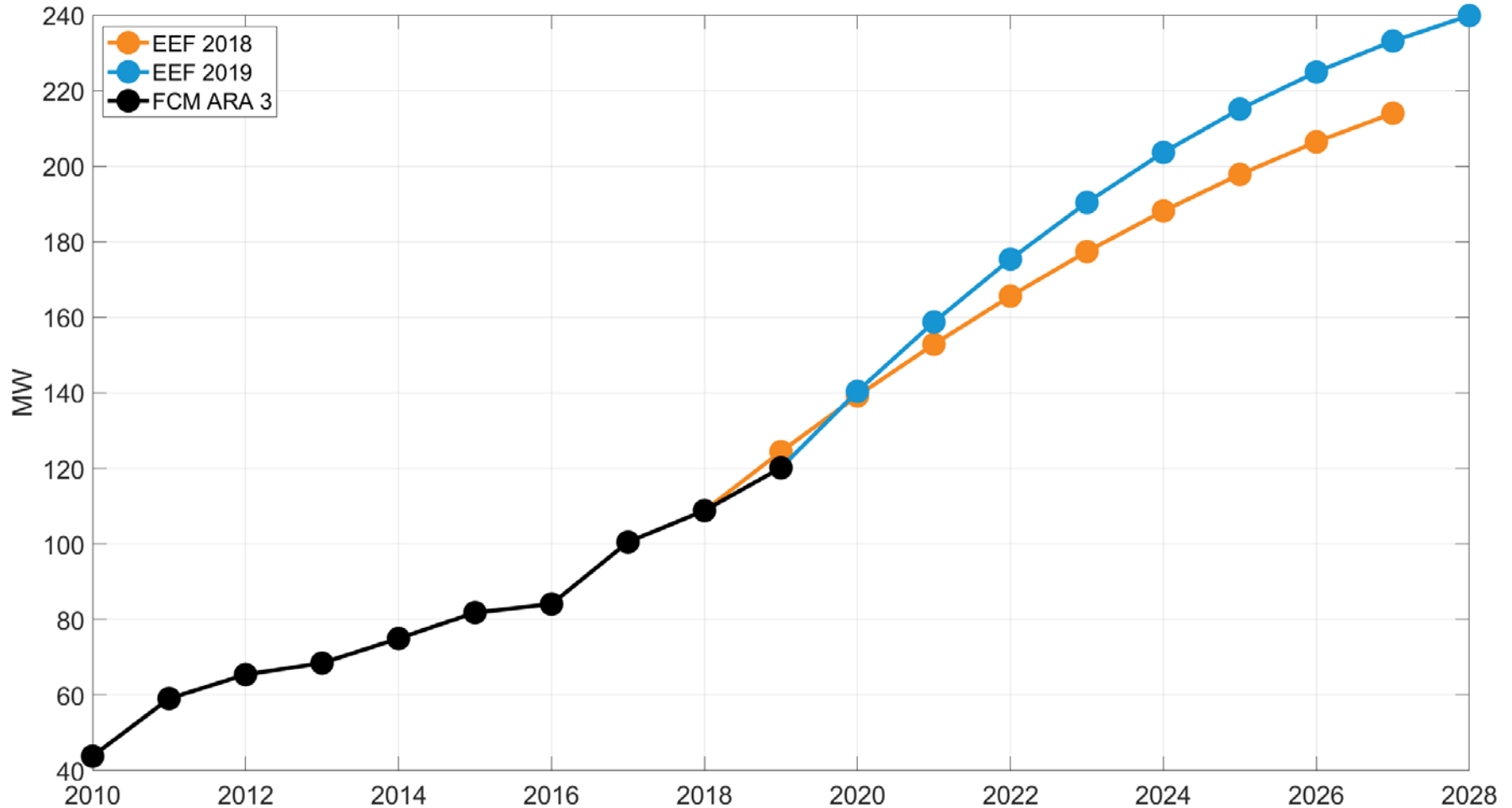
Connecticut

Energy Efficiency on Annual Energy



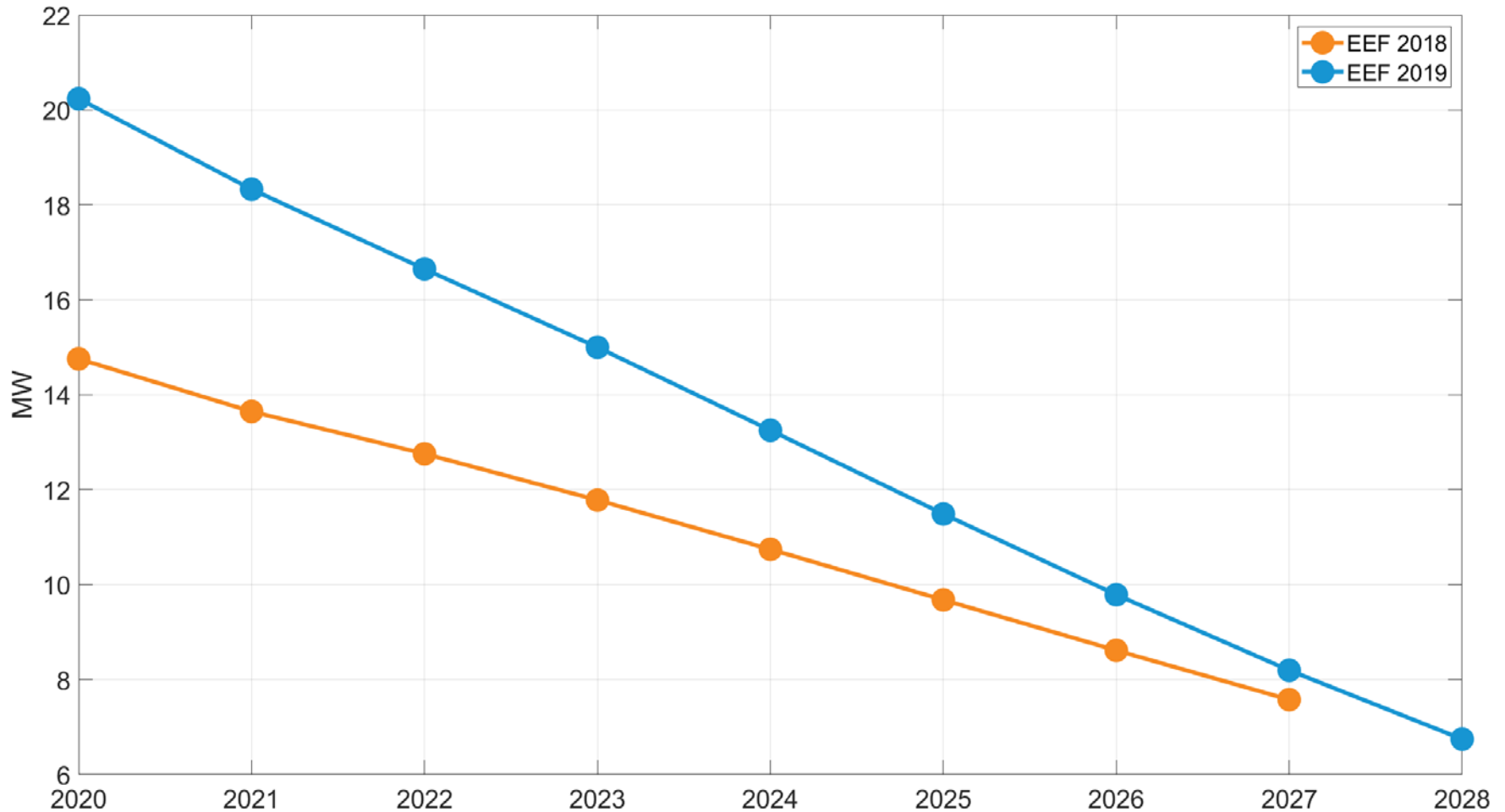
New Hampshire

Energy Efficiency on Summer Peak



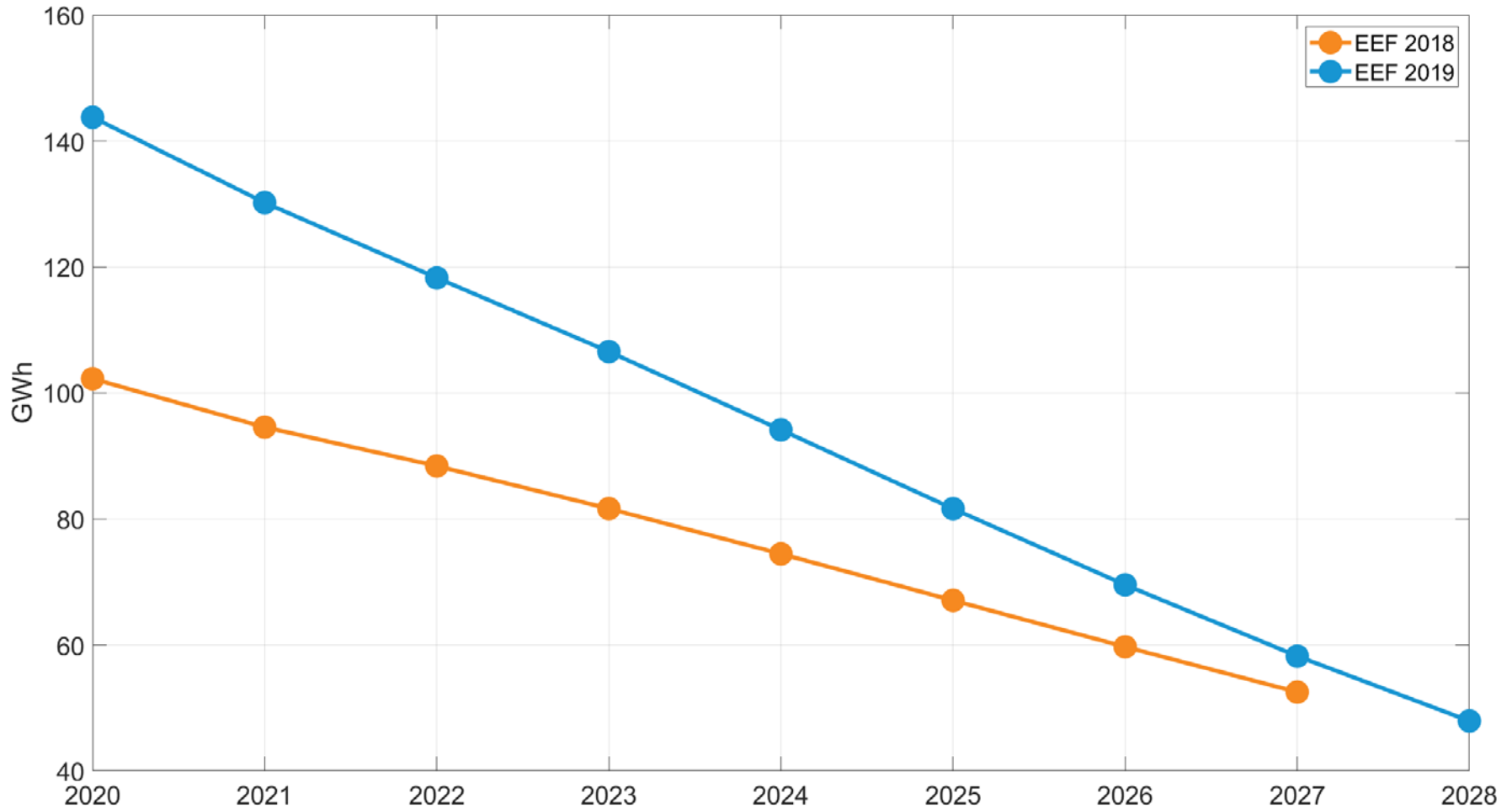
New Hampshire

Energy Efficiency on Summer Peak



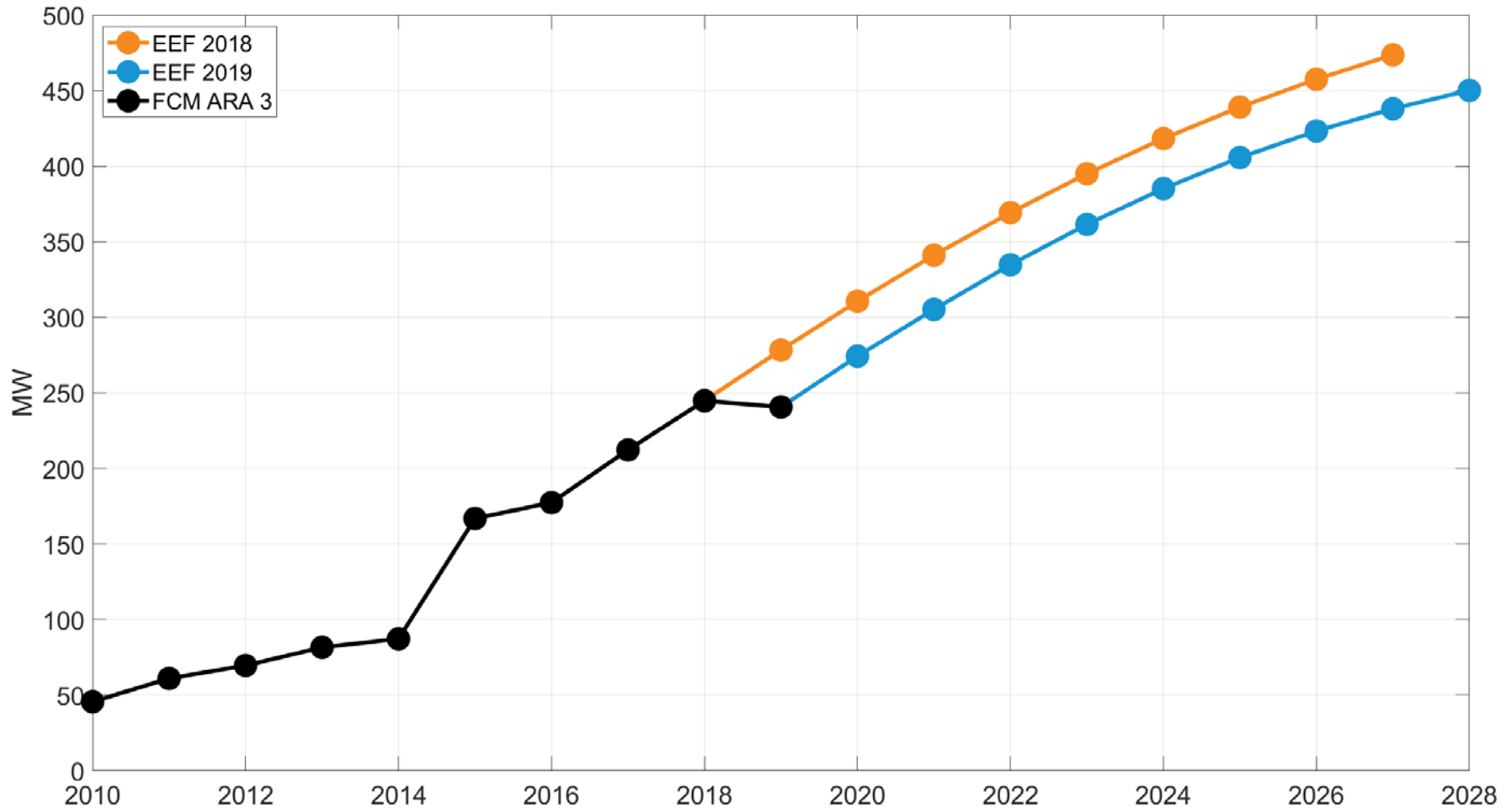
New Hampshire

Energy Efficiency on Annual Energy



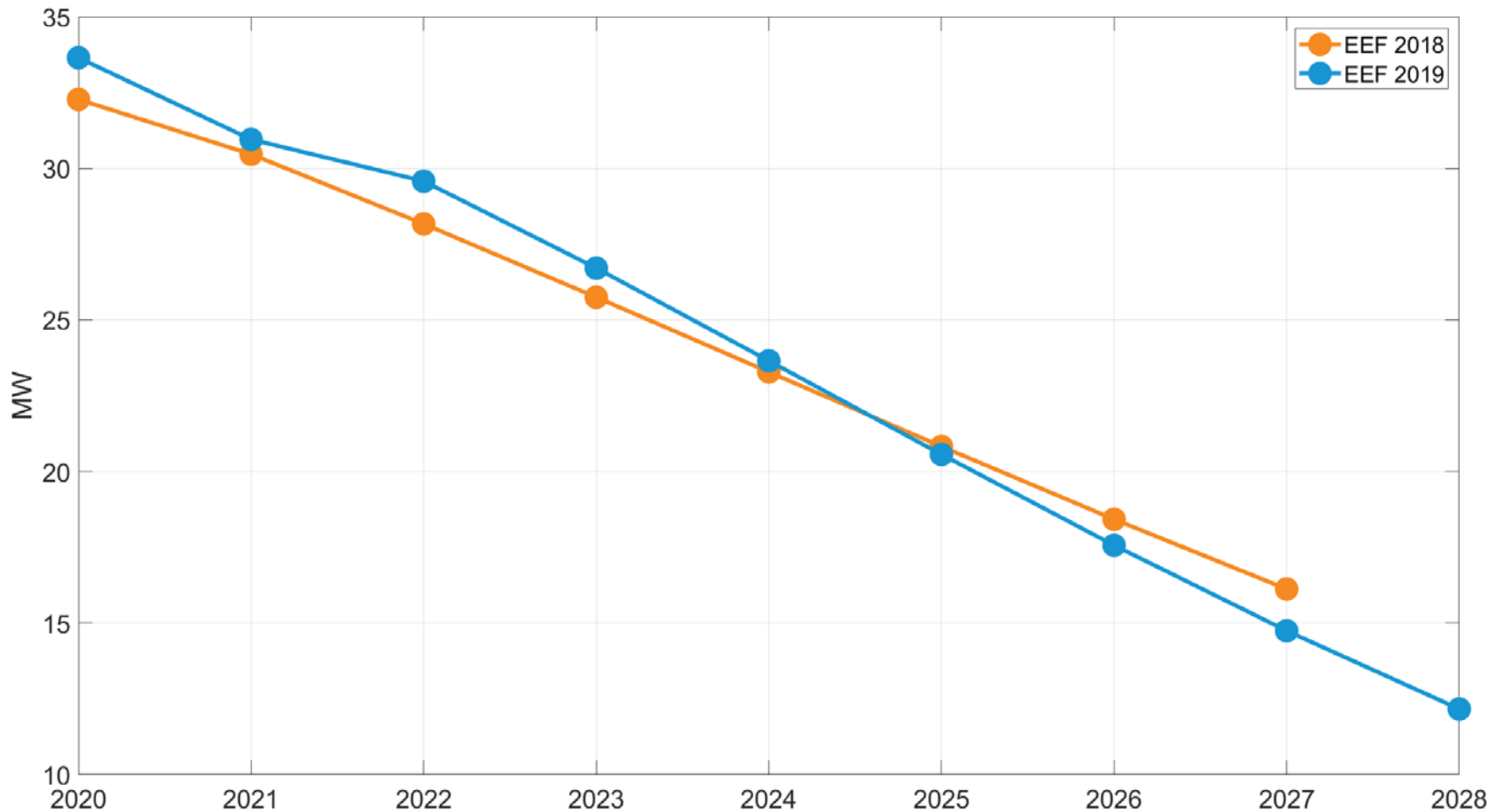
Rhode Island

Energy Efficiency on Summer Peak



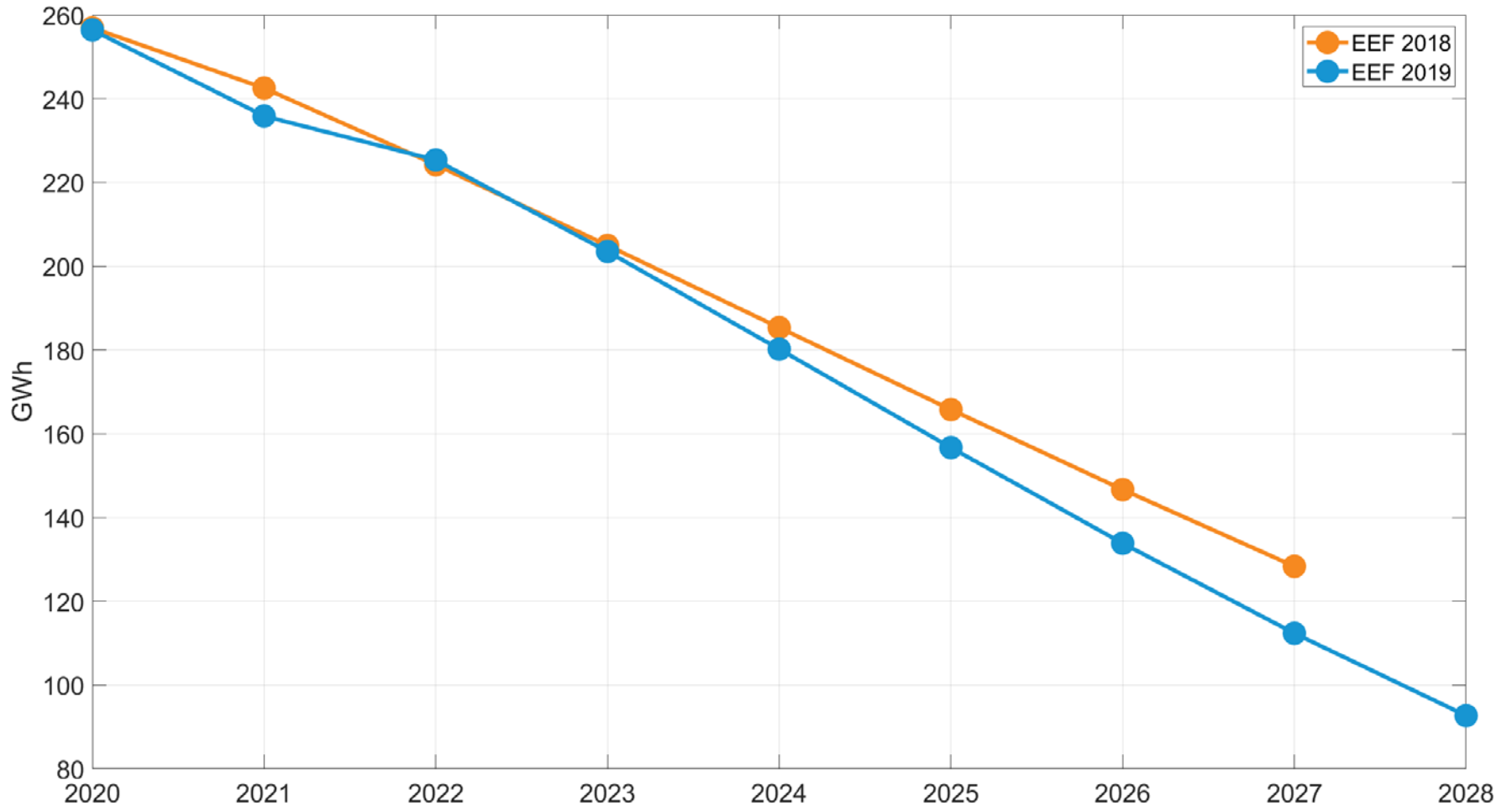
Rhode Island

Energy Efficiency on Summer Peak



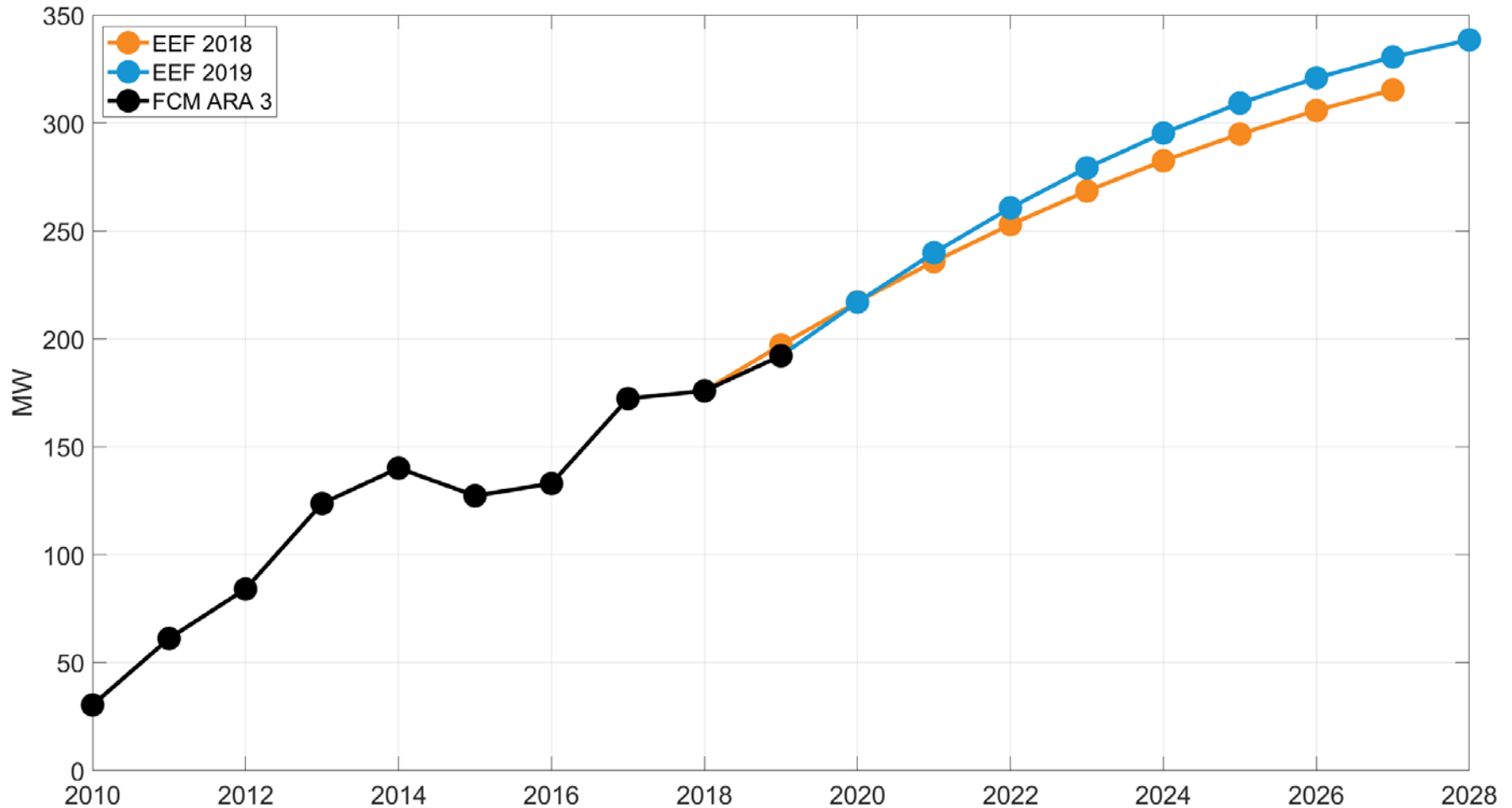
Rhode Island

Energy Efficiency on Annual Energy



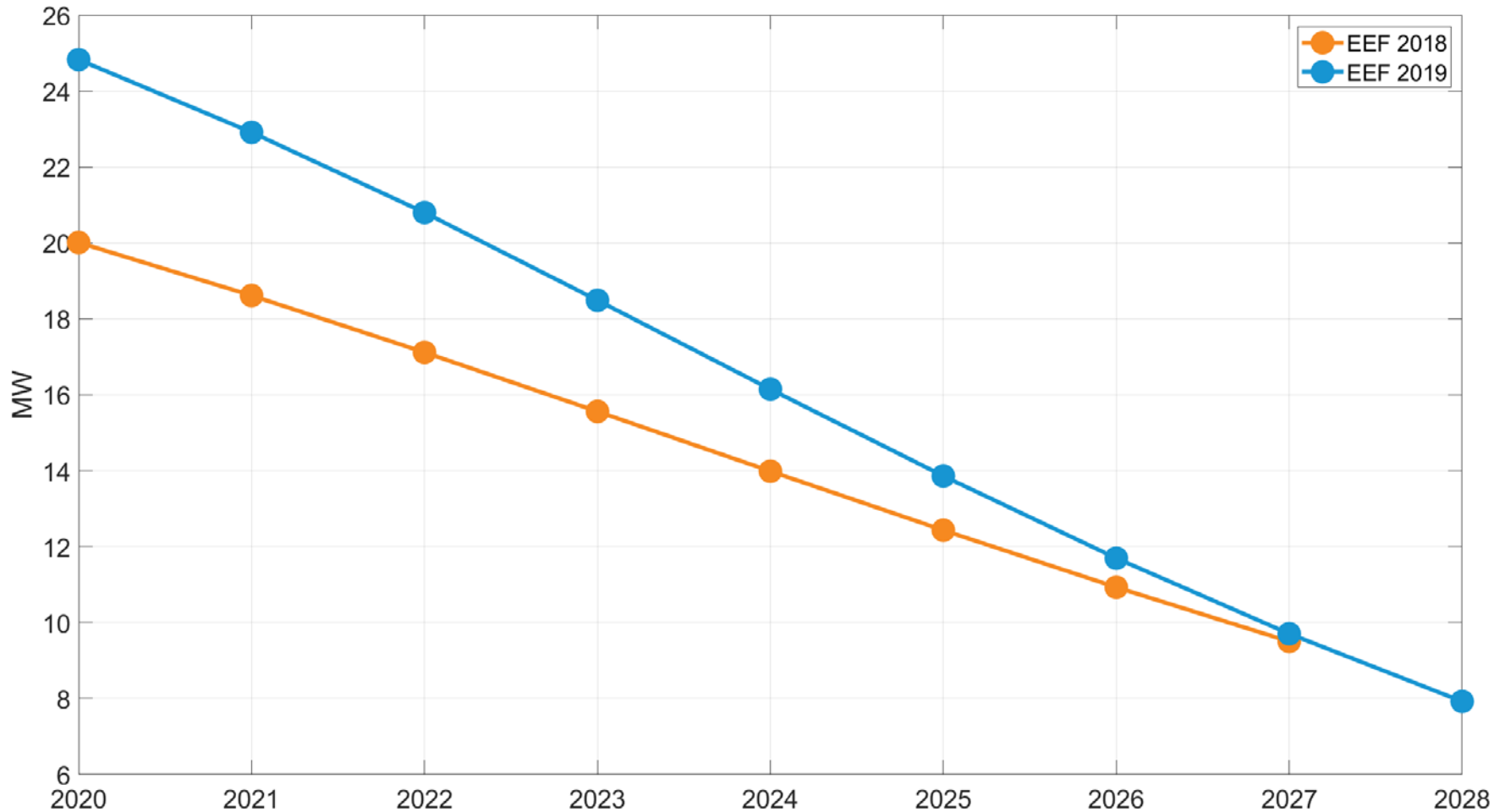
Maine

Energy Efficiency on Summer Peak



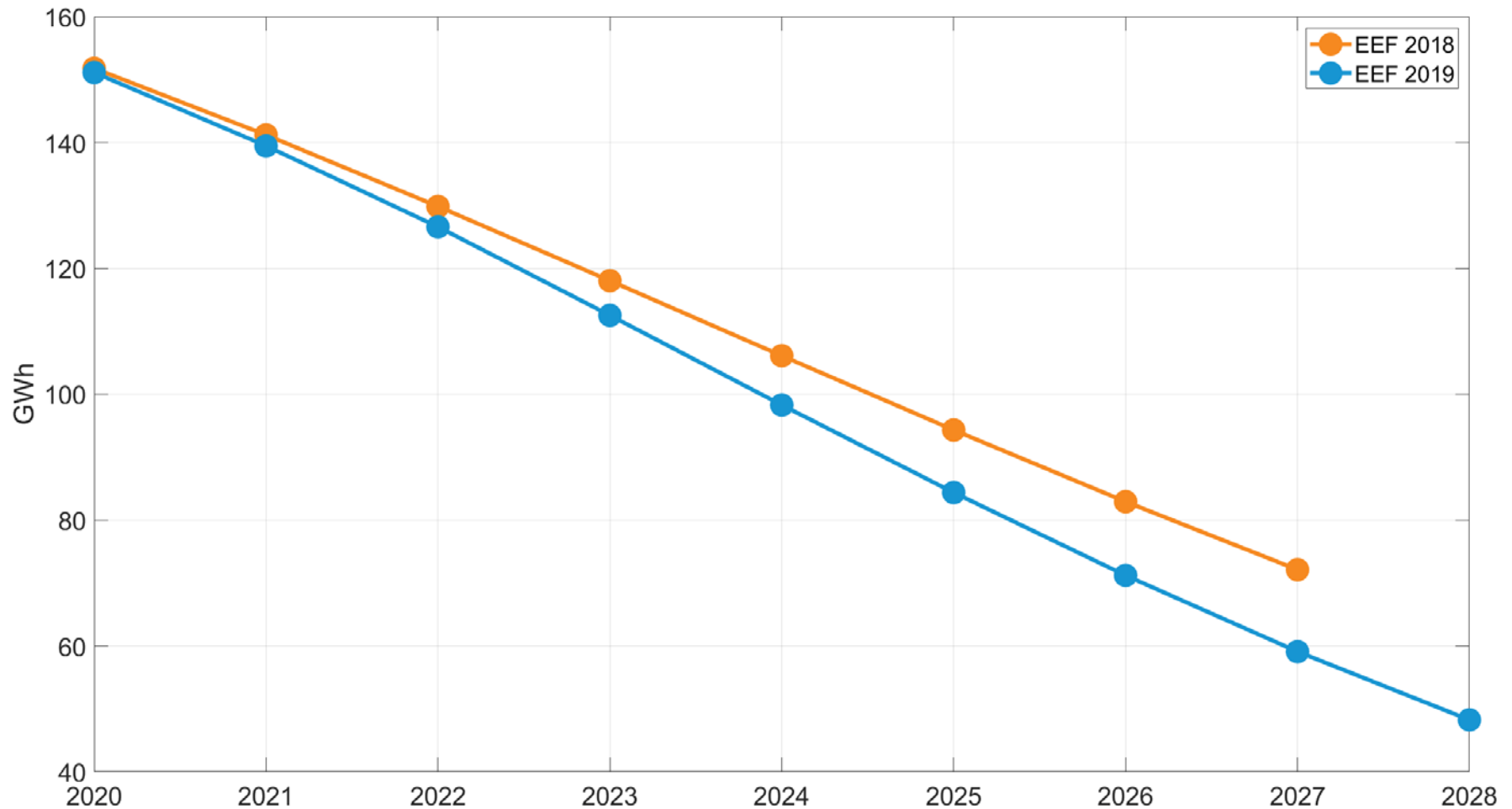
Maine

Energy Efficiency on Summer Peak



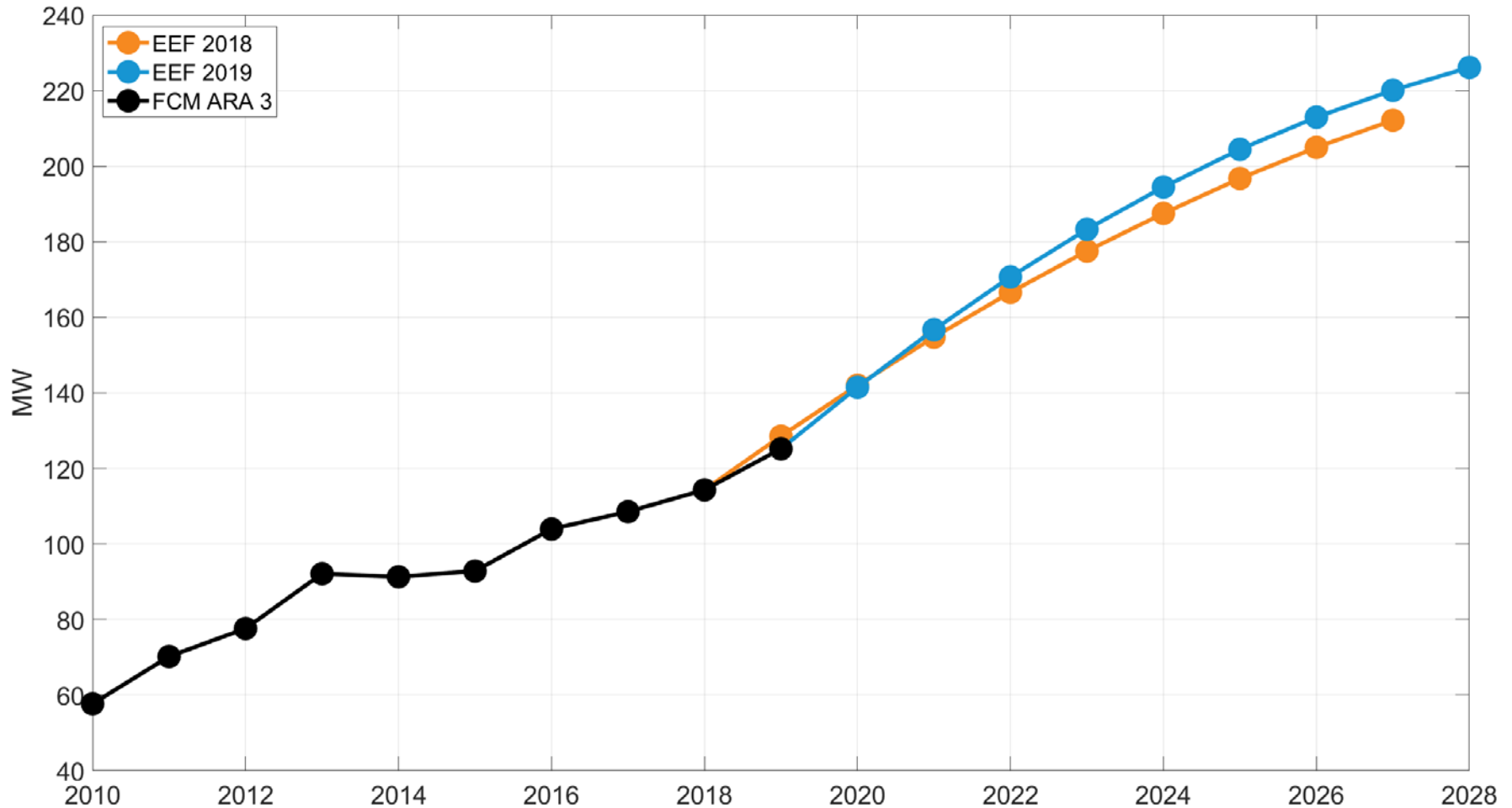
Maine

Energy Efficiency on Annual Energy



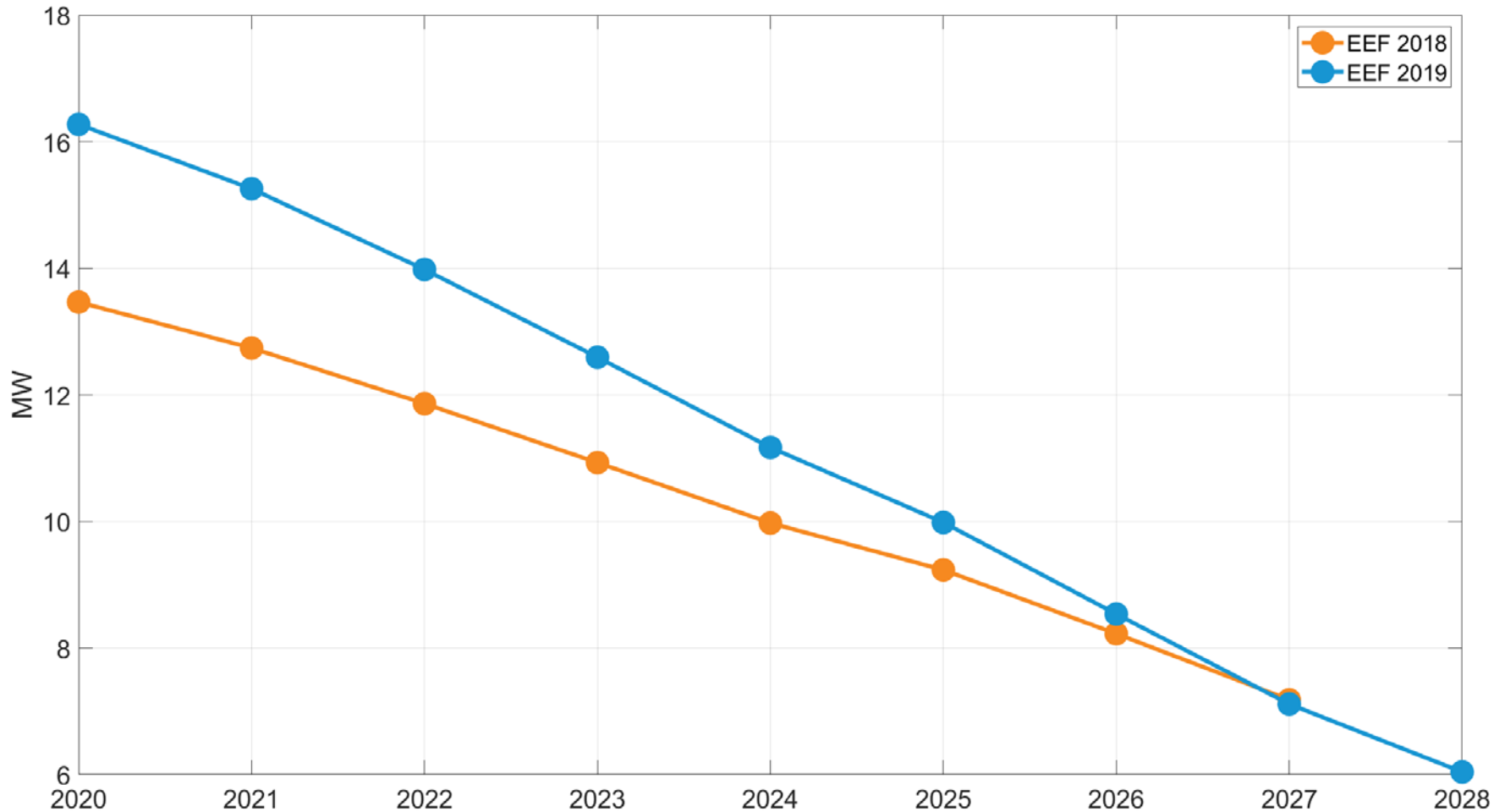
Vermont

Energy Efficiency on Summer Peak



Vermont

Energy Efficiency on Summer Peak



Vermont

Energy Efficiency on Annual Energy

