APRIL 28, 2023

Final 2023 Energy Efficiency Forecast

INTRODUCTION

Acronyms

- ARA 3 — Third Annual Reconfiguration Auction (FCM)
- BCR — Benefit-Cost Ratio
- CSO — Capacity Supply Obligation (FCM)
- C&I — Commercial and Industrial
- CELT — 10-year forecast of Capacity, Energy, Loads and Transmission
- EE — Energy Efficiency
- EEFWG — Energy Efficiency Forecast Working Group
- FCA — Forward Capacity Auction
- FCM — Forward Capacity Market
- ICR — Installed Capacity Requirement
- PA — Program Administrator
- PDR — Passive Demand Resources
- R&L — Residential and Low Income
- RGGI — Regional Greenhouse Gas Initiative
- SBC — System Benefit Charge

Introduction

- This presentation contains the final Energy Efficiency (EE) forecast for the period 2023 through 2032
- 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 (PAs) and state regulatory agencies
- The EE forecast is updated annually and is incorporated into ISO New England's Forecast Report of Capacity, Energy, Loads, and Transmission (the CELT Report)

Introduction

Impacts

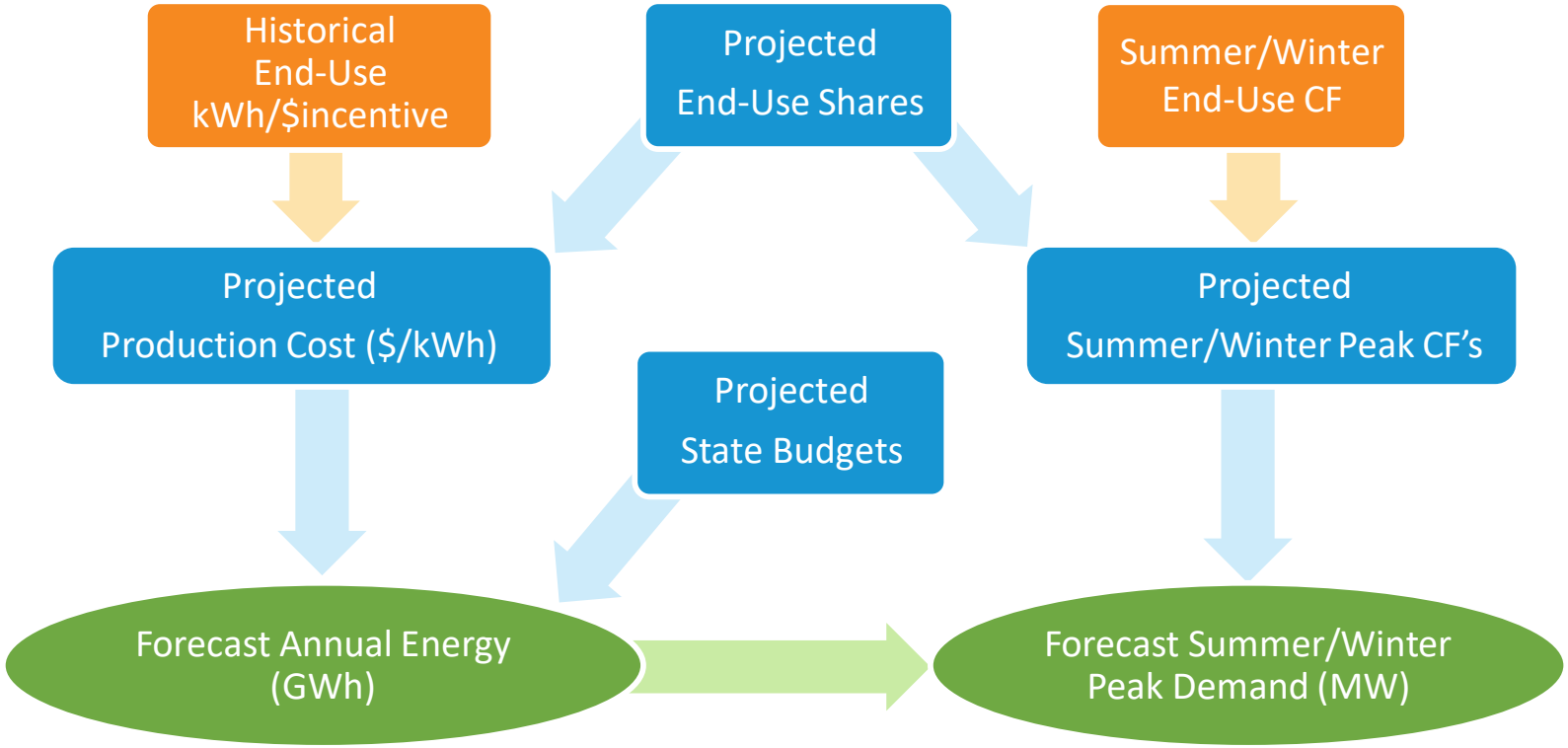
- The EE forecast is used in ISO studies including:
  - Long-term transmission planning studies
  - Economic planning studies
- The EE forecast is also used in the development of the net load forecast
- The EE forecast will not impact:
  - Installed Capacity Requirement (ICR)/Local Sourcing Requirement/Maximum Capacity Limit/Demand Curves
  - Forward Capacity Auctions (FCA)
  - Forward Capacity Market (FCM) related reliability studies (qualification, de-list bid reliability reviews)

MODEL METHODOLOGY

EE Forecast Methodology

Process Diagram

- The process below is followed separately for each sector using sector specific inputs in each of the orange blocks
  - Sectors include Residential and Low Income (R&L) and Commerciale and Industrial (C&I)
- Summer and winter peak savings are computed separately using season-specific coincidence factors



INPUT DATA AND ASSUMPTIONS

State End-Use Shares, Regional Coincidence Factors, and State Budgets

EE Forecast Input Data

- Historical end-use kWh/$incentive
  - source: PA provided data (2019-2021)
- Historical incentives as a % of total program costs
  - source: PA provided data (2019-2021)
- Projected end-use shares
  - Source: PA provided data
- Summer and winter end-use coincidence factors
  - Source: PA provided BCR models
- Annual inflation adjustment of 2.8%
  - Source: Moody's Economics
- Annual graduated escalation of costs of 1.25%
  - Source: Original graduated rate introduced during the 2017 EE forecast

End-Use Share Projections

- End-use shares by state and sector were compiled based on data provided by the PAs within each state
  - End-use shares shown on the following slides are based on energy
- Reporting of shares and end-uses varied within and across states
  - Projection timelines varied from a couple of years to the entire forecast horizon
  - Within a given state, some PAs may have had different shares for the same end-uses
- Where shares differed, shares from PAs within a state were averaged
- When only one PA provided a 10 year projection, that projection guided the shares
- In order to standardize end-uses across all states and PA's, the following aggregations were applied:
  - Residential "process" includes process, custom, food service, motors/drives, pool pumps, and appliances
  - Residential "HVAC" includes HVAC and building envelope
  - C&I "process" includes process and food service

Residential & Low Income End-Use Shares

MA, CT, and RI

Massachusetts										
End-Use	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**
HVAC	66%	68%	69%	69%	69%	69%	69%	69%	69%	69%
Process	26%	24%	24%	24%	24%	24%	24%	24%	24%	24%
Hot Water	6%	7%	7%	7%	7%	7%	7%	7%	7%	7%
Lighting	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%
Refrigeration	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%
Connecticut										
End-Use	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**
HVAC	23%	50%	65%	65%	65%	65%	65%	65%	65%	65%
Process	44%	17%	17%	17%	17%	17%	17%	17%	17%	17%
Hot Water	8%	11%	11%	11%	11%	11%	11%	11%	11%	11%
Lighting	18%	15%	0%	0%	0%	0%	0%	0%	0%	0%
Refrigeration	8%	7%	7%	7%	7%	7%	7%	7%	7%	7%
Rhode Island										
End-Use	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**
HVAC	43%	49%	49%	49%	49%	49%	49%	49%	49%	49%
Process	27%	31%	31%	31%	31%	31%	31%	31%	31%	31%
Hot Water	2%	3%	3%	3%	3%	3%	3%	3%	3%	3%
Lighting	14%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Refrigeration	15%	17%	17%	17%	17%	17%	17%	17%	17%	17%

Residential & Low Income End-Use Shares

VT, NH, and ME

Vermont										
End-Use	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**
HVAC	29%	40%	43%	46%	47%	48%	50%	50%	52%	53%
Process	20%	25%	25%	25%	25%	25%	25%	27%	26%	26%
Hot Water	16%	4%	4%	4%	4%	4%	4%	4%	4%	4%
Lighting	34%	29%	26%	24%	23%	21%	19%	17%	15%	14%
Refrigeration	1%	2%	2%	2%	2%	2%	2%	3%	3%	3%
New Hampshire										
End-Use	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**
HVAC	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%
Process	7%	7%	7%	7%	7%	7%	7%	7%	7%	7%
Hot Water	21%	22%	22%	22%	22%	22%	22%	22%	22%	22%
Lighting	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Refrigeration	10%	11%	11%	11%	11%	11%	11%	11%	11%	11%
Maine										
End-Use	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**
HVAC	1%	2%	2%	3%	3%	3%	3%	3%	3%	3%
Process	4%	7%	9%	11%	11%	11%	11%	11%	11%	11%
Hot Water	33%	51%	69%	86%	86%	86%	86%	86%	86%	86%
Lighting	62%	41%	21%	0%	0%	0%	0%	0%	0%	0%

Commercial & Industrial End-Use Shares

MA, CT, and RI

Massachusetts										
End-Use	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**
Compressed Air	2%	2%	3%	4%	4%	4%	4%	4%	4%	4%
Custom Measures	11%	12%	19%	22%	23%	24%	24%	24%	24%	24%
Hot Water	0%	0%	0%	1%	1%	1%	1%	1%	1%	1%
HVAC	17%	20%	28%	33%	35%	37%	37%	37%	37%	37%
Lighting	54%	47%	23%	11%	6%	0%	0%	0%	0%	0%
Motors/Drives	5%	5%	7%	8%	9%	9%	9%	9%	9%	9%
Process	6%	7%	10%	12%	13%	13%	13%	13%	13%	13%
Refrigeration	6%	6%	9%	10%	11%	12%	12%	12%	12%	12%
Connecticut										
End-Use	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**
HVAC	9%	9%	19%	27%	35%	35%	35%	35%	35%	35%
Lighting	64%	63%	46%	37%	31%	31%	31%	31%	31%	31%
Motors/Drives	2%	2%	4%	4%	5%	5%	5%	5%	5%	5%
Process	23%	23%	26%	26%	28%	28%	28%	28%	28%	28%
Refrigeration	2%	2%	6%	6%	1%	1%	1%	1%	1%	1%
Rhode Island										
End-Use	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**
Compressed Air	7%	11%	25%	25%	25%	25%	25%	25%	25%	25%
Hot Water	<1%	<1%	1%	1%	1%	1%	1%	1%	1%	1%
Process	6%	9%	20%	20%	20%	20%	20%	20%	20%	20%
HVAC	10%	16%	35%	35%	35%	35%	35%	35%	35%	35%
Lighting	72%	56%	0%	0%	0%	0%	0%	0%	0%	0%
Motors/Drives	3%	5%	10%	10%	10%	10%	10%	10%	10%	10%
Refrigeration	3%	4%	9%	9%	9%	9%	9%	9%	9%	9%

Commercial & Industrial End-Use Shares

VT, NH, and ME

Vermont										
End-Use	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**
Hot Water	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%
HVAC	14%	14%	14%	14%	15%	15%	16%	16%	17%	17%
Lighting	50%	49%	48%	48%	45%	44%	41%	38%	34%	31%
Motors/Drives	8%	8%	8%	8%	9%	9%	9%	9%	10%	10%
Process	14%	15%	15%	15%	16%	17%	17%	20%	22%	24%
Refrigeration	14%	15%	15%	15%	15%	15%	16%	16%	17%	17%
New Hampshire										
End-Use	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**
Custom Measures	5%	6%	7%	9%	14%	17%	19%	19%	19%	19%
HVAC	6%	7%	9%	11%	17%	21%	23%	23%	23%	23%
Lighting	78%	71%	65%	59%	34%	18%	9%	9%	9%	9%
Process	4%	6%	7%	8%	13%	16%	18%	18%	18%	18%
Compressed Air	5%	6%	7%	9%	14%	17%	19%	19%	19%	19%
Motors/Drives	1%	1%	1%	2%	3%	3%	4%	4%	4%	4%
Refrigeration	2%	2%	3%	3%	5%	6%	7%	7%	7%	7%
Maine										
End-Use	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**
Compressed Air	8%	12%	16%	20%	24%	24%	24%	24%	24%	24%
Custom Measures	3%	4%	6%	7%	9%	9%	9%	9%	9%	9%
HVAC	30%	37%	43%	49%	56%	56%	56%	56%	56%	56%
Lighting	58%	47%	35%	24%	12%	12%	12%	12%	12%	12%

End-Use Starting kWh/$Incentive

Source: PA Supplied Data (2019-2021)

Residential & Low Income	
End-Use	**kWh/$Incentive**
HVAC	0.31
Water Heating	1.72
Lighting	3.33
Refrigeration	1.51
Process	2.33

Commercial & Industrial	
End-Use	**kWh/$Incentive**
HVAC	1.97
Water Heating	0.56
Lighting	2.94
Refrigeration	2.24
Process	2.50
Compressed Air	3.54
Motors/Drives	2.83
Custom	4.12

End-Use Coincidence Factors

Source: PA Supplied BCR Models (Current State Plans)

Residential & Low Income		
End-Use	**Summer Coincidence Factor (MW/GWh)**	**Winter Coincidence Factor (MW/GWh)**
HVAC	0.559	0.464
Water Heating	0.128	0.173
Lighting	0.152	0.208
Refrigeration	0.135	0.286
Process	0.146	0.217

Commercial & Industrial		
End-Use	**Summer Coincidence Factor (MW/GWh)**	**Winter Coincidence Factor (MW/GWh)**
HVAC	0.504	0.338
Water Heating	0.103	0.120
Lighting	0.154	0.166
Refrigeration	0.100	0.098
Process	0.114	0.103
Compressed Air	0.217	0.179
Motors/Drives	0.193	0.217
Custom	0.156	0.182

State EE Budgets

Source: State EE Budget Administrators

Total R&L Budget Dollars ($1000's)							
	NE	MA	CT	ME	RI	VT	NH
2023	561,616	367,466	65,483	14,251	69,675	20,262	24,479
2024	614,279	409,895	74,464	13,801	69,675	21,965	24,479
2025	620,276	409,895	79,186	14,059	69,675	22,982	24,479
2026	619,474	409,895	78,273	14,059	69,675	23,093	24,479
2027	618,252	409,895	76,889	14,059	69,675	23,255	24,479
2028	618,489	409,895	76,674	14,059	69,675	23,707	24,479
2029	617,705	409,895	75,414	14,059	69,675	24,183	24,479
2030	618,037	409,895	75,414	14,059	69,675	24,515	24,479
2031	618,712	409,895	75,418	14,059	69,675	25,186	24,479
2032	619,769	409,895	75,418	14,059	69,675	26,243	24,479

Total C&I Budget Dollars ($1000's)							
	NE	MA	CT	ME	RI	VT	NH
2023	458,593	259,733	106,978	9,782	21,253	24,589	36,258
2024	461,043	263,874	102,522	9,758	21,253	27,378	36,258
2025	472,661	263,874	113,103	9,519	21,253	28,654	36,258
2026	472,985	263,874	113,174	9,519	21,253	28,907	36,258
2027	473,560	263,874	113,433	9,519	21,253	29,223	36,258
2028	472,627	263,874	111,860	9,519	21,253	29,863	36,258
2029	472,543	263,874	111,240	9,519	21,253	30,399	36,258
2030	470,429	263,874	108,755	9,519	21,253	30,770	36,258
2031	468,242	263,874	105,808	9,519	21,253	31,530	36,258
2032	469,434	263,874	105,808	9,519	21,253	32,722	36,258

Total Budget Dollars ($1000's)							
	NE	MA	CT	ME	RI	VT	NH
2023	1,020,209	627,199	172,461	24,033	90,928	44,851	60,737
2024	1,075,322	673,769	176,986	23,559	90,928	49,343	60,737
2025	1,092,937	673,769	192,289	23,578	90,928	51,636	60,737
2026	1,092,459	673,769	191,447	23,578	90,928	52,000	60,737
2027	1,091,812	673,769	190,322	23,578	90,928	52,478	60,737
2028	1,091,116	673,769	188,534	23,578	90,928	53,570	60,737
2029	1,090,248	673,769	186,654	23,578	90,928	54,582	60,737
2030	1,088,466	673,769	184,169	23,578	90,928	55,285	60,737
2031	1,086,954	673,769	181,226	23,578	90,928	56,716	60,737
2032	1,089,203	673,769	181,226	23,578	90,928	58,965	60,737

State EE Production Costs

Source: End-use shares applied to end-use production costs

R&L Production Costs ($/MWh)						
	MA	CT	ME	RI	VT	NH
2023	3,125	1,500	595	2,305	1,704	3,028
2024	3,454	2,727	725	2,744	2,252	3,223
2025	3,724	3,600	878	2,924	2,548	3,434
2026	4,015	3,881	1,059	3,152	1,867	3,702
2027	4,378	4,232	1,155	3,437	3,189	4,037
2028	4,829	4,668	1,274	3,791	3,582	4,453
2029	5,387	5,207	1,421	4,229	4,110	4,967
2030	6,077	5,873	1,603	4,770	4,681	5,603
2031	6,930	6,698	1,828	5,440	5,509	6,390
2032	7,991	7,723	2,108	6,272	6,457	7,367

C&I Production Costs ($/MWh)						
	MA	CT	ME	RI	VT	NH
2023	516	516	532	502	541	482
2024	551	544	571	546	569	510
2025	608	613	619	548	608	547
2026	669	684	679	698	656	593
2027	737	765	753	761	719	661
2028	823	844	831	840	797	738
2029	918	941	927	937	894	830
2030	1,036	1,062	1,045	1,057	1,014	936
2031	1,181	1,211	1,192	1,205	1,165	1,068
2032	1,362	1,396	1,375	1,390	1,353	1,231

Weighted Production Costs ($/MWh)						
	MA	CT	ME	RI	VT	NH
2023	1,015	687	572	1,246	787	732
2024	1,127	819	654	1,421	851	769
2025	1,239	933	761	1,595	922	832
2026	1,358	1,029	873	1,716	1,000	893
2027	1,491	1,147	943	1,894	1,093	996
2028	1,664	1,265	1,072	2,097	1,218	1,104
2029	1,856	1,403	1,179	2,331	1,365	1,240
2030	2,092	1,601	1,310	2,598	1,536	1,412
2031	2,381	1,831	1,474	3,031	1,772	1,598
2032	2,750	2,107	1,684	3,497	2,106	1,841

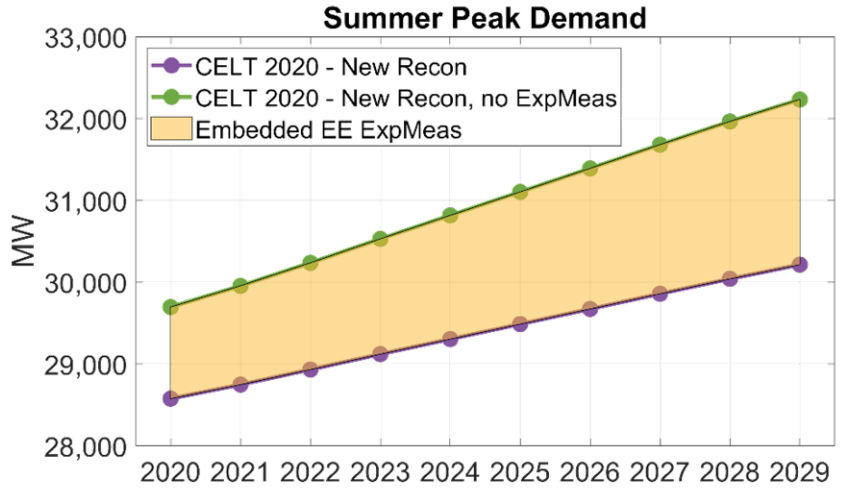
ACCOUNTING FOR EMBEDDED EXPIRING MEASURES

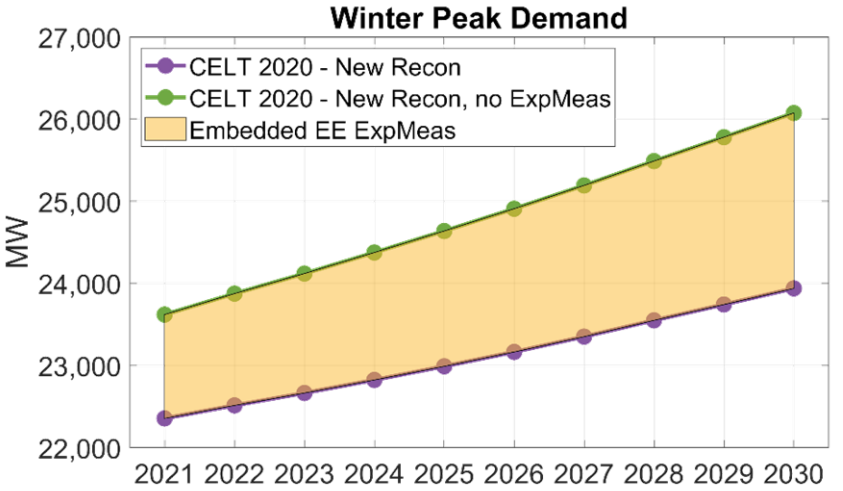
Accounting for Embedded Expiring Measures

- Expiring measures become embedded as load reductions in the gross load forecast
- Accounting for EE measure expiration in the gross load forecast reconstitution methodology results in a gross load forecast with a lower slope (i.e., less gross load growth over time)
- The EE forecast works in tandem with the gross load forecast
- As a result, the EE forecast should be a projection of EE net of the cumulative impacts of expiring measures embedded in the gross load forecast
  - Impacts are appropriately captured in the reconstitution trend line that serves as the first four years of the EE forecast
  - Embedded expiring measures must be accounted for in the years beyond the most recent FCA's Capacity Commitment Period (CCP), years 5-10 of the EE forecast
  - An overview of how expiring measures embedded in the load forecast are accounted for in the EE forecast was provided at the December 7, 2020 EEFWG meeting
- The EE forecast is a projection of EE described as follows:
  - The trend line of market-facing EE reflected in the new reconstitution up through the most recent FCA's CCP
  - A forecast of market-facing EE that will further reduce load beyond the most recent FCA's CCP

Accounting for Embedded Expiring Measures

- To determine the amount of EE expiring measures embedded as load reductions in the gross load forecast
  1. Use the new reconstitution methodology to recreate the historical reconstitution that reflects no EE measure expiration
     - I.e., the most recent FCA CSOs plus all cumulative EE expiring measures up through the most recent FCA's CCP
  2. Use this reconstitution to develop a gross load forecast that reflects no EE measure expiration
  3. The differences between this version of the gross load forecast and the actual gross load forecast are the amount of expiring measures embedded over the forecast horizon
- An example of the estimated embedded expiring measures is shown for CELT 2020 in the adjacent plots

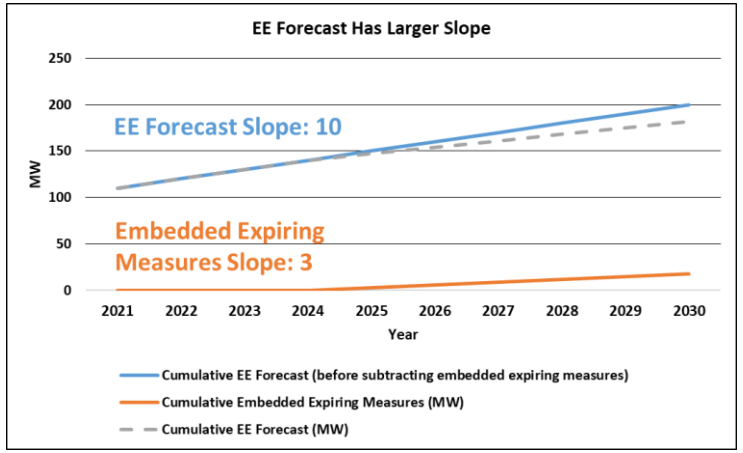




Accounting for Embedded Expiring Measures

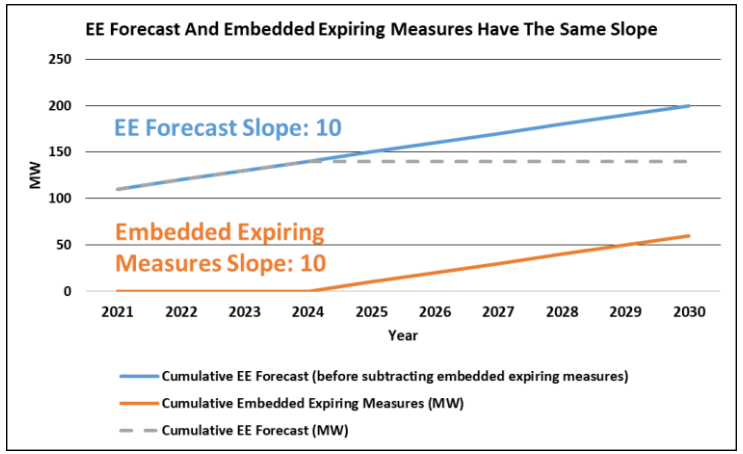
Examples Illustrating Possible Impacts Of Accounting

EE Forecast Grows Faster Than Embedded Expiring Measures			
Year	Cumulative EE Forecast (before subtracting embedded expiring measures) (MW)	Cumulative Embedded Expiring Measures (MW)	Cumulative EE Forecast (MW)
2021	110	0	110
2022	120	0	120
2023	130	0	130
2024	140	0	140
2025	150	3	147
2026	160	6	154
2027	170	9	161
2028	180	12	168
2029	190	15	175
2030	200	18	182



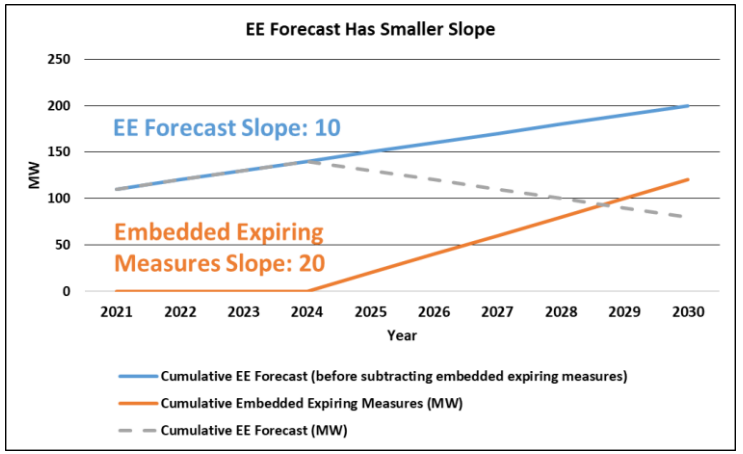
EE forecast grows faster than embedded expiring measures, resulting in an EE forecast that ***increases***

EE Forecast and Embedded Expiring Measures Grow at the Same Rate			
Year	Cumulative EE Forecast (before subtracting embedded expiring measures) (MW)	Cumulative Embedded Expiring Measures (MW)	Cumulative EE Forecast (MW)
2021	110	0	110
2022	120	0	120
2023	130	0	130
2024	140	0	140
2025	150	10	140
2026	160	20	140
2027	170	30	140
2028	180	40	140
2029	190	50	140
2030	200	60	140



EE forecast grows at the same rate as the embedded expiring measures, resulting in an EE forecast that is ***flat***

EE Forecast Grows Slower Than Embedded Expiring Measures			
Year	Cumulative EE Forecast (before subtracting embedded expiring measures) (MW)	Cumulative Embedded Expiring Measures (MW)	Cumulative EE Forecast (MW)
2021	110	0	110
2022	120	0	120
2023	130	0	130
2024	140	0	140
2025	150	20	130
2026	160	40	120
2027	170	60	110
2028	180	80	100
2029	190	100	90
2030	200	120	80



EE forecast grows slower than embedded expiring measures, resulting in an EE forecast that ***decreases***

FINAL 2023 EE FORECAST

Annual Energy, Summer Peak, and Winter Peak Savings

2023 EE Forecast (Before Removal of Embedded Expiring Measures)

Incremental Annual Energy, Summer Peak, and Winter Peak Savings

Annual Energy Savings (GWh)							
	NE	CT	MA	ME	NH	RI	VT
2023	697	185	328	51	44	55	34
2024	697	185	328	51	44	55	34
2025	697	185	328	51	44	55	34
2026	697	185	328	51	44	55	34
2027	800	166	452	25	61	48	48
2028	719	149	405	22	55	44	44
2029	644	133	363	20	49	39	40
2030	569	115	322	18	43	35	36
2031	498	99	283	16	38	30	32
2032	432	86	245	14	33	26	28
Total (2023-2032)	6,450	1,488	3,382	319	455	442	364

Summer Peak Demand Savings (MW)							
	NE	CT	MA	ME	NH	RI	VT
2023	116	33	54	8	7	9	5
2024	116	33	54	8	7	9	5
2025	116	33	54	8	7	9	5
2026	116	33	54	8	7	9	5
2027	229	47	137	6	14	15	10
2028	211	42	126	6	13	14	10
2029	189	38	113	5	12	12	9
2030	168	33	100	5	11	11	8
2031	145	28	87	4	10	9	7
2032	125	24	76	3	8	8	6
Total (2023-2032)	1,531	344	855	61	96	105	70

Winter Peak Demand Savings (MW)							
	NE	CT	MA	ME	NH	RI	VT
2023	105	26	51	8	7	8	5
2024	105	26	51	8	7	8	5
2025	105	26	51	8	7	8	5
2026	105	26	51	8	7	8	5
2027	194	38	114	6	13	13	10
2028	176	34	104	5	12	12	9
2029	157	30	93	5	10	11	8
2030	137	26	82	4	9	9	7
2031	121	23	72	4	8	8	6
2032	106	20	63	3	7	7	6
Total (2023-2032)	1,311	275	732	59	87	92	66

Final 2023 EE Forecast (Net of embedded Expiring Measures)

Incremental Annual Energy, Summer Peak, and Winter Peak Savings

Annual Energy Savings (GWh)							
	NE	**CT**	**MA**	**ME**	**NH**	**RI**	**VT**
2023	697	185	328	51	44	55	34
2024	697	185	328	51	44	55	34
2025	697	185	328	51	44	55	34
2026	697	185	328	51	44	55	34
2027	141	60	80	-31	34	-15	13
2028	61	43	34	-34	28	-19	9
2029	-158	11	-93	-50	14	-39	-1
2030	-235	-7	-134	-53	9	-44	-6
2031	-306	-23	-173	-55	3	-48	-10
2032	-371	-36	-211	-57	-2	-52	-13
Total (2023-2032)	1,920	788	815	-76	262	3	128

Summer Peak Demand Savings (MW)							
	NE	CT	MA	ME	NH	RI	VT
2023	116	33	54	8	7	9	5
2024	116	33	54	8	7	9	5
2025	116	33	54	8	7	9	5
2026	116	33	54	8	7	9	5
2027	72	16	49	-5	9	1	2
2028	53	11	38	-5	8	0	1
2029	30	6	25	-6	7	-2	0
2030	8	2	12	-7	5	-3	-1
2031	-13	-3	0	-7	4	-5	-2
2032	-32	-7	-12	-8	3	-6	-2
Total (2023-2032)	582	157	328	-6	64	21	18

Winter Peak Demand Savings (MW)							
	NE	CT	MA	ME	NH	RI	VT
2023	105	26	51	8	7	8	5
2024	105	26	51	8	7	8	5
2025	105	26	51	8	7	8	5
2026	105	26	51	8	7	8	5
2027	118	38	67	-4	7	3	7
2028	101	34	57	-4	6	2	6
2029	82	30	45	-5	5	1	6
2030	65	26	36	-5	4	-1	5
2031	46	23	25	-6	2	-2	4
2032	31	20	16	-6	1	-3	3
Total (2023-2032)	863	275	450	2	53	32	51

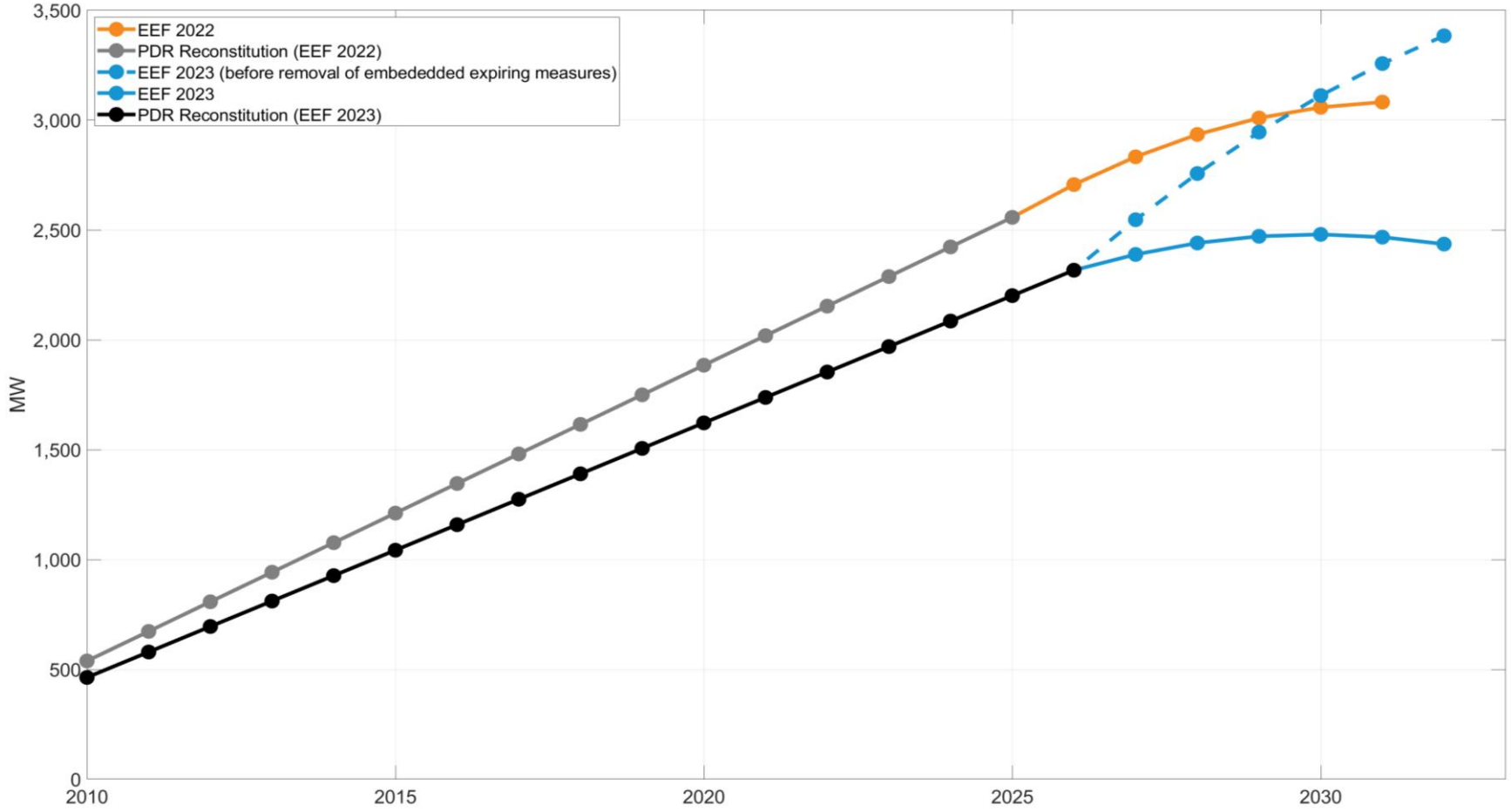
EE Forecast Comparison

Final 2022 EE Forecast Vs. Final 2023 EE Forecast

Total EE Dollars (1000s)	NE	MA	CT	ME	RI	VT	NH
2022 EE Forecast							
Total (2022-2031)	11,519,566	6,980,305	1,891,562	357,374	1,118,750	534,765	636,810
2023 EE Forecast							
Total (2023-2032)	10,818,726	6,691,120	1,845,314	236,216	909,280	529,426	607,370
Energy Savings (GWh)	**NE**	**MA**	**CT**	**ME**	**RI**	**VT**	**NH**
2022 EE Forecast							
Total (2022-2031)	4,517	2,196	1,283	72	416	241	317
2023 EE Forecast							
Total (2023-2032)	1,920	815	788	-76	3	128	262
Summer Peak Savings (MW)	**NE**	**MA**	**CT**	**ME**	**RI**	**VT**	**NH**
2022 EE Forecast							
Total (2022-2031)	1,061	631	220	17	81	33	82
2023 EE Forecast							
Total (2023-2032)	582	328	157	-6	21	18	64
Winter Peak Savings (MW)	**NE**	**MA**	**CT**	**ME**	**RI**	**VT**	**NH**
2022 EE Forecast							
Total (2022-2031)	1,132	608	317	14	70	64	61
2023 EE Forecast							
Total (2023-2032)	863	450	275	2	32	51	53

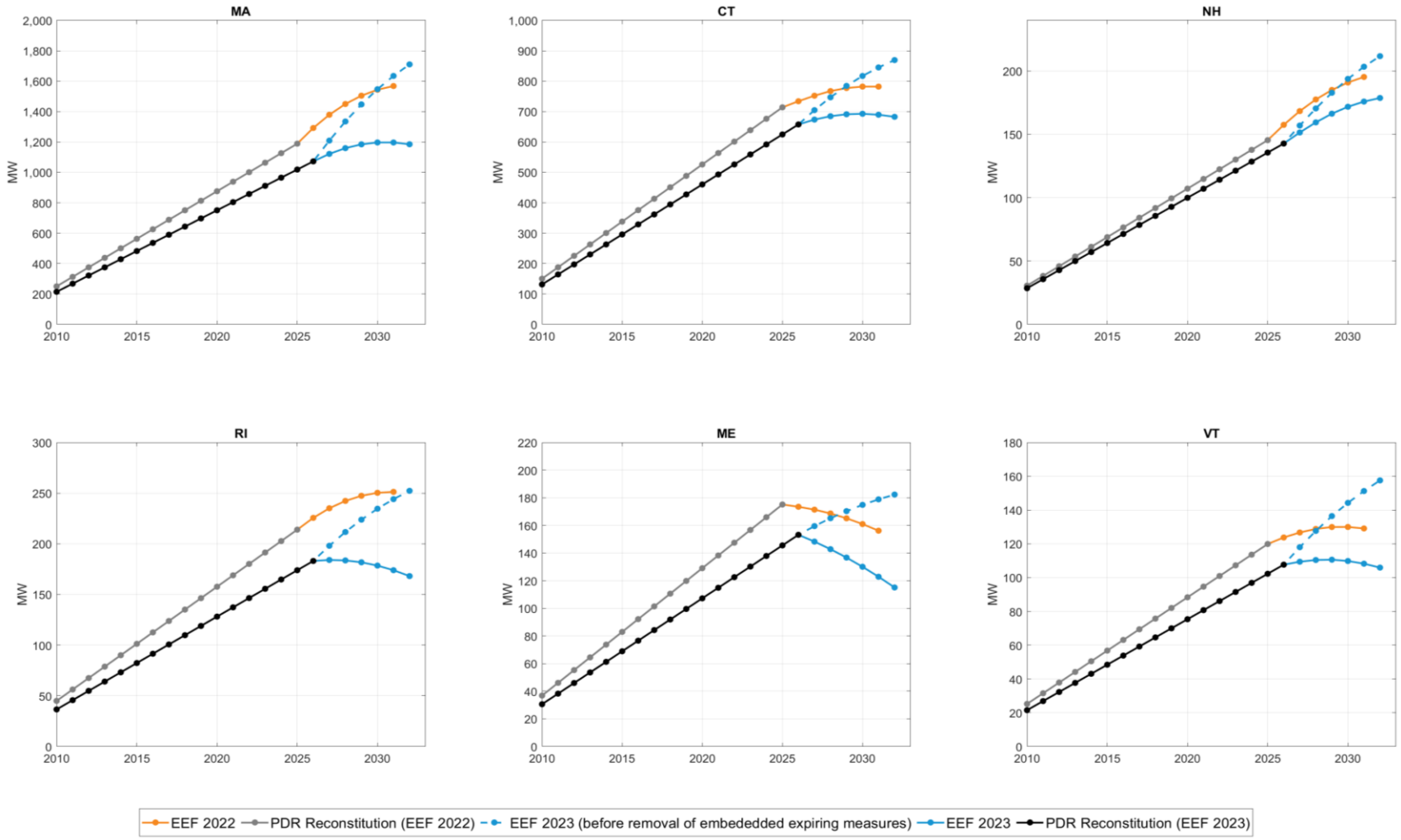
Energy Efficiency on Summer Peak

New England



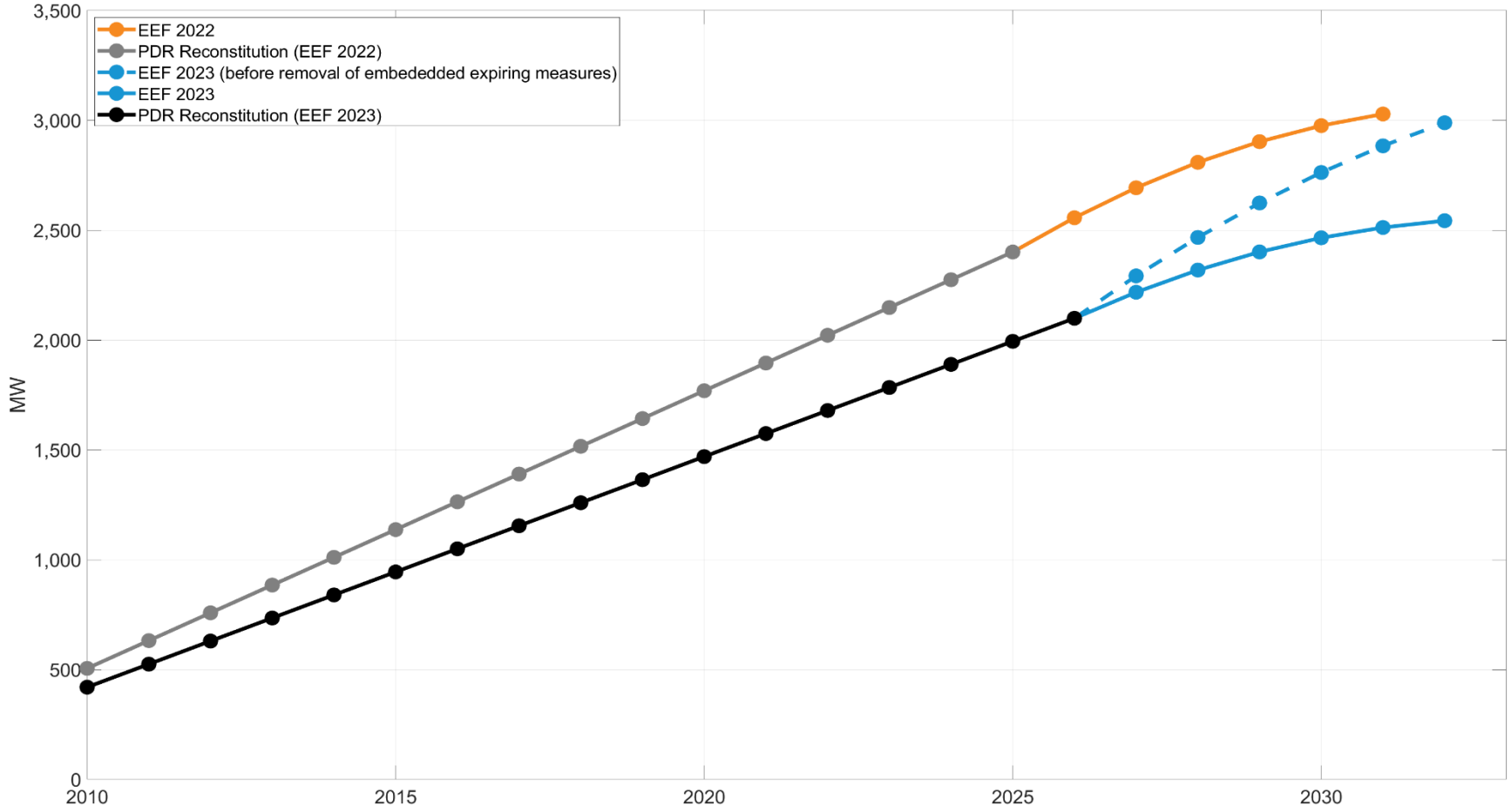
Energy Efficiency on Summer Peak

States



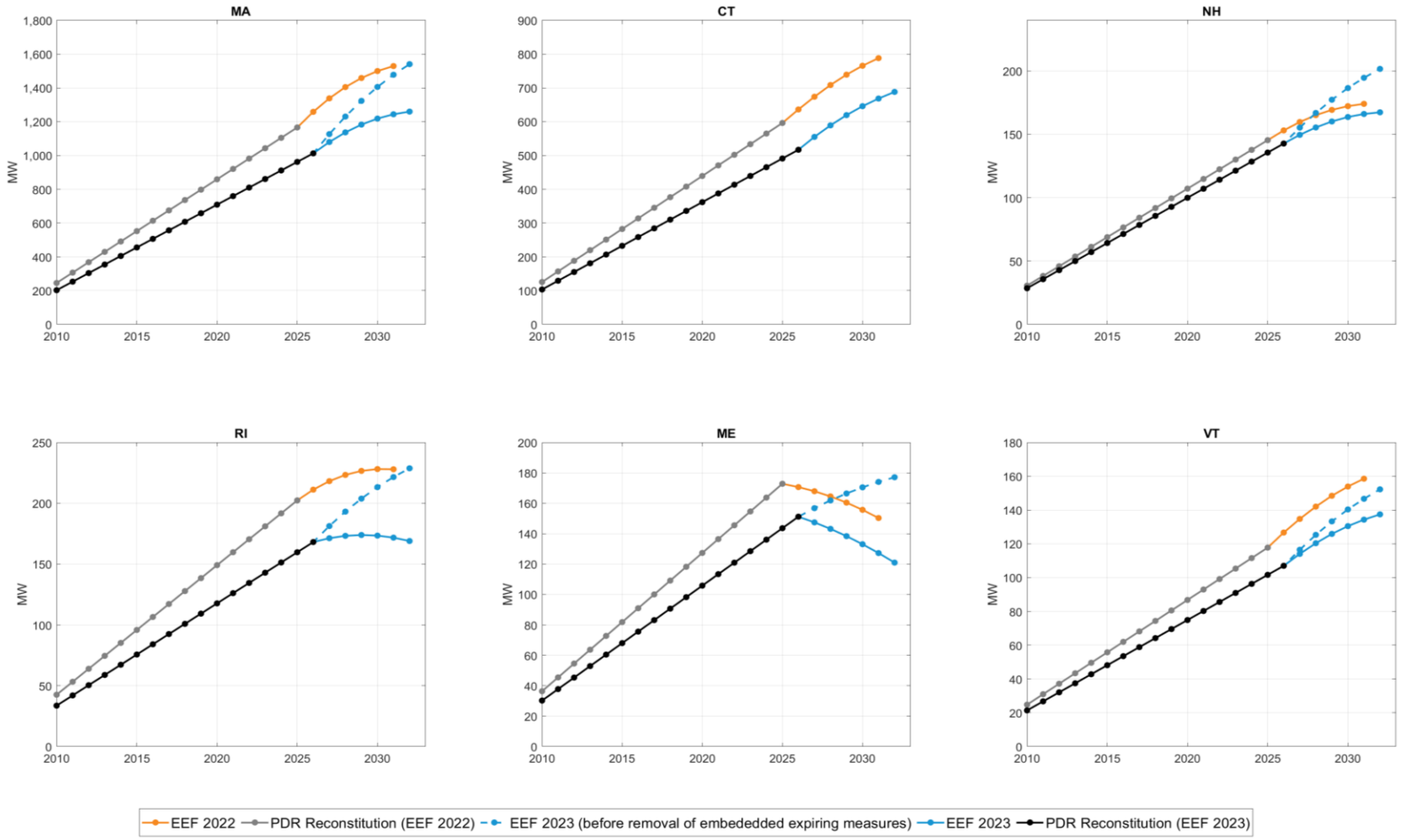
Energy Efficiency on Winter Peak

New England



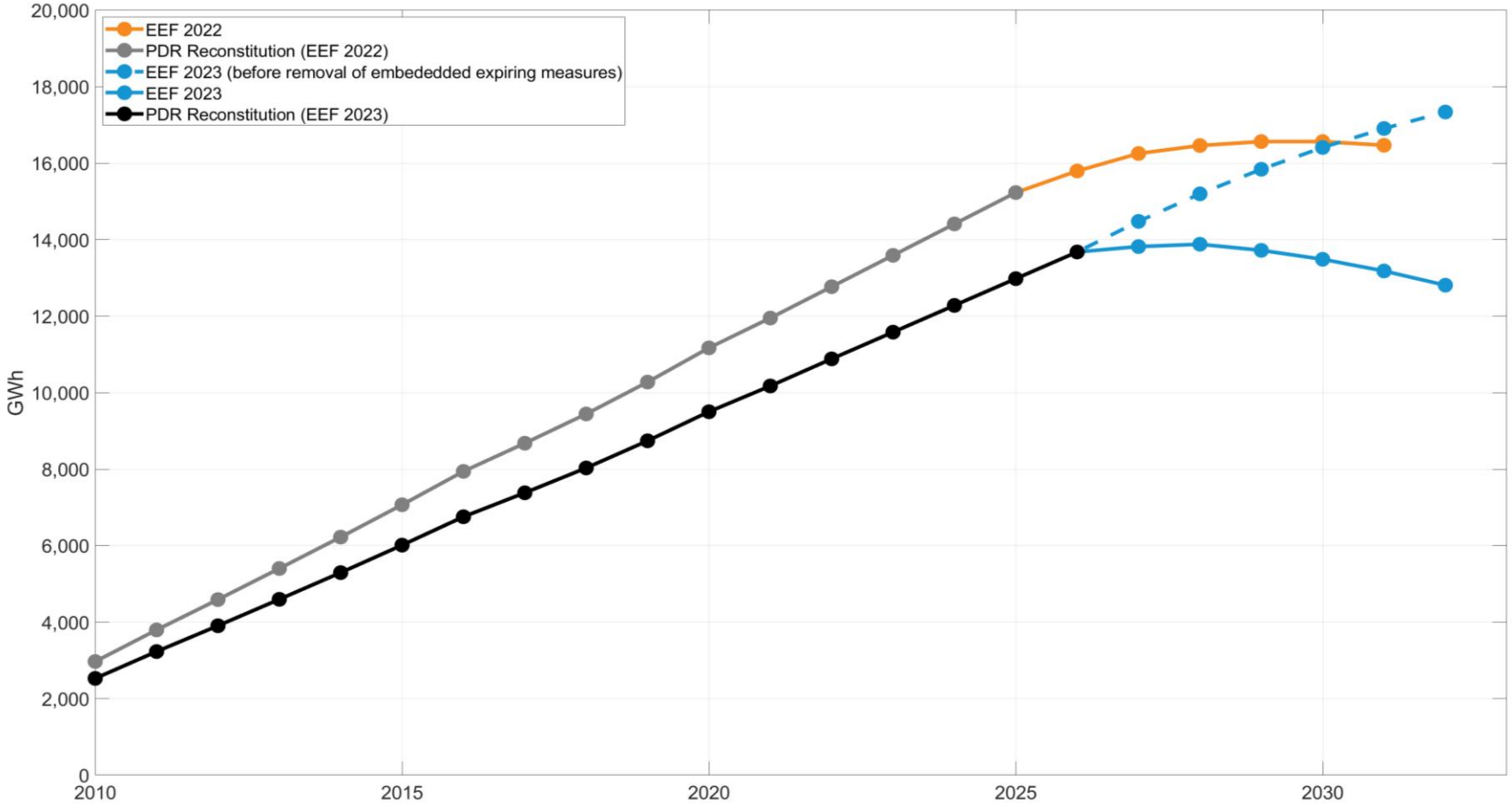
Energy Efficiency on Winter Peak

States



Energy Efficiency on Annual Energy

New England



Energy Efficiency on Annual Energy

States