



Draft Final 2018 CELT ISO-NE and States Annual Energy and Seasonal Peak Forecasts

*NEPOOL Load Forecast Committee
Teleconference*

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Outline

- Introduction / Overview
- Energy Forecast (Region and States)
- Summer Peak Demand Forecast (Region and States)
- Winter Peak Demand Forecast (Region and States)
- Next Steps
- Appendix (State Energy and Demand 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

Categorization of Forecast Changes

- In general, changes reflected in the draft 2018 load forecast relative to the 2017 CELT can be divided into the following three components:
 1. Gross load forecast updates:
 - a) Updated macroeconomic forecast from Moody's
 - b) Updated historical data used to estimate gross load forecasts
 2. Changes to the EE forecast
 3. Changes to the BTM PV forecast



2018 Load Forecast Development Timeline

- Activities completed to date:
 - October 2017 – Received Moody’s Macroeconomic Forecast
 - November 2017 – Published Moody’s forecast to LFC website
 - https://www.iso-ne.com/static-assets/documents/2017/11/econ_variable_comp_2017fcst_vs_2016fcst.xlsx
 - November 16, 2017 – Moody’s presentation at Planning Advisory Committee (PAC)
 - https://www.iso-ne.com/static-assets/documents/2017/11/a3_moody_2017_economic_update.pdf
 - December 13, 2017 – Moody’s forecast, draft energy forecast, 2017 summer peak review
 - https://www.iso-ne.com/static-assets/documents/2017/12/2018_prelim_energy.pdf
 - February 7, 2018 – Draft of 2018 Annual Energy and Summer Peak Forecast presented to LFC
 - <https://www.iso-ne.com/static-assets/documents/2018/02/02.07.18.lfc.mtg.exhibit.pdf>
 - March 15, 2018 – Draft 2018 CELT ISO-NE Annual Energy and Summer Peak Forecast presented to PAC
 - https://www.iso-ne.com/static-assets/documents/2018/03/a3_draft_2018_celt_iso_ne_annual_energy_and_summer_peak_forecast.pdf
- LFC meetings
 - **TODAY** – 2018 CELT ISO-NE Annual Energy and Summer/Winter Peak Forecast, ISO-NE and states
 - July 2018 – Summer LFC meeting (date TBD)
- PAC meetings
 - April 26, 2018
- May 1, 2018 – Final forecast published in 2018 CELT report



2018 Gross Energy Forecast

- Energy models were estimated using annual energy from 1990-2017 (28 years)
- Energy models use the updated Moody's macroeconomic forecast published in October 2017
- The energy forecast is an input into the peak demand forecast
- Regional forecast model details and statistics will be posted on the Load Forecast website
 - File will be named “2018 Regional and State Energy & Peak Model Details.xlsx” and will be available at: <https://www.iso-ne.com/system-planning/system-forecasting/load-forecast>



2018 Draft Peak Demand Forecast

- Same peak demand model structure as 2017 CELT forecast
- Regional peak demand model was estimated with daily peaks from January 1, 2003 to January 31, 2018 (15 years)
 - July and August are combined for summer seasonal peak models
 - December and January are combined for winter seasonal peak models
- Regional forecast model details and statistics will be posted on the Load Forecast website
 - Refer to slide 6 for link & filename

Draft 2018 CELT Forecast Highlights

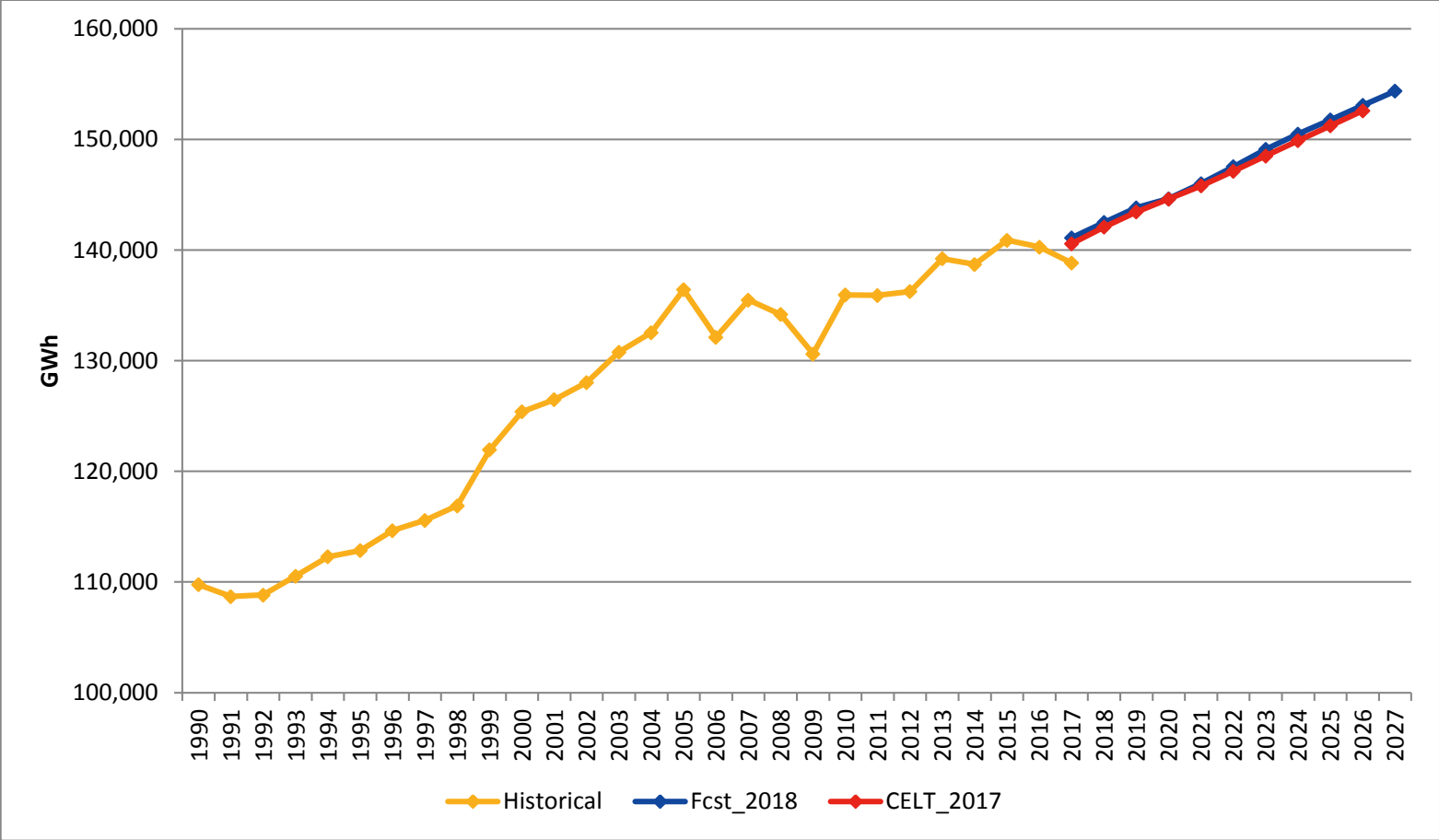
- Compared to 2017 CELT forecasts, changes reflected in the draft 2018 CELT include:
 - Macroeconomic outlook forecasts approximately the same economic growth in New England as last year
 - Gross load forecasts:
 - Annual energy is approximately 0.3% higher in 2026
 - Summer 50/50 is approximately 2.7% lower in 2026
 - Summer 90/10 is approximately 2.8% lower in 2026
 - The BTM PV forecast is approximately 0.4% lower in 2026
 - The EE summer forecast is approximately 12.9% higher in 2026
 - Net load forecasts
 - 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



GROSS AND NET ENERGY FORECASTS

New England and States

ISO-NE Gross Energy - Historical and Forecast

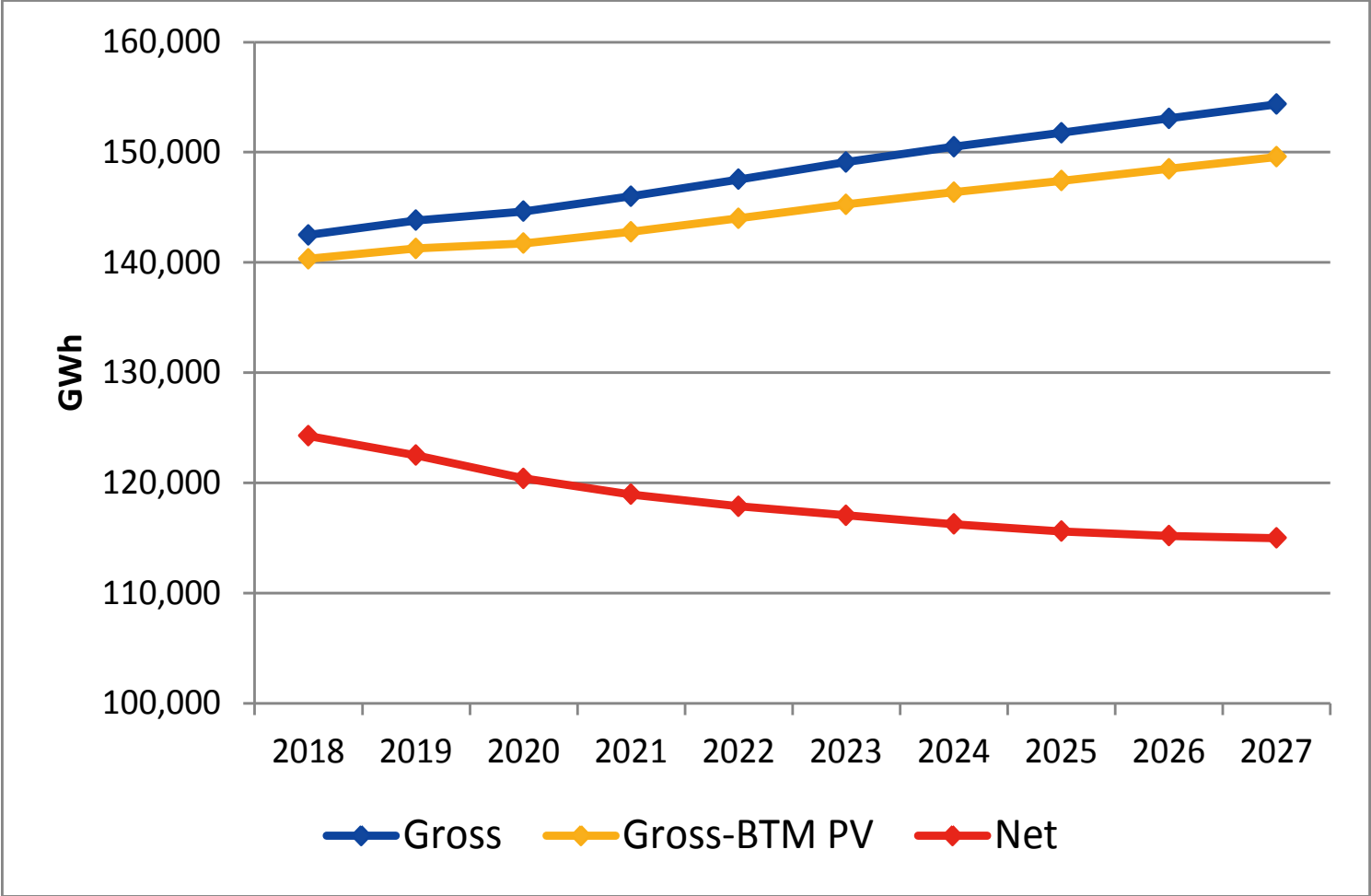


2018 (+0.3%, +410 GWh)

2022 (+0.3%, +411 GWh)

2026 (+0.3%, +479 GWh)

Draft 2018 CELT ISO-NE Energy Forecast



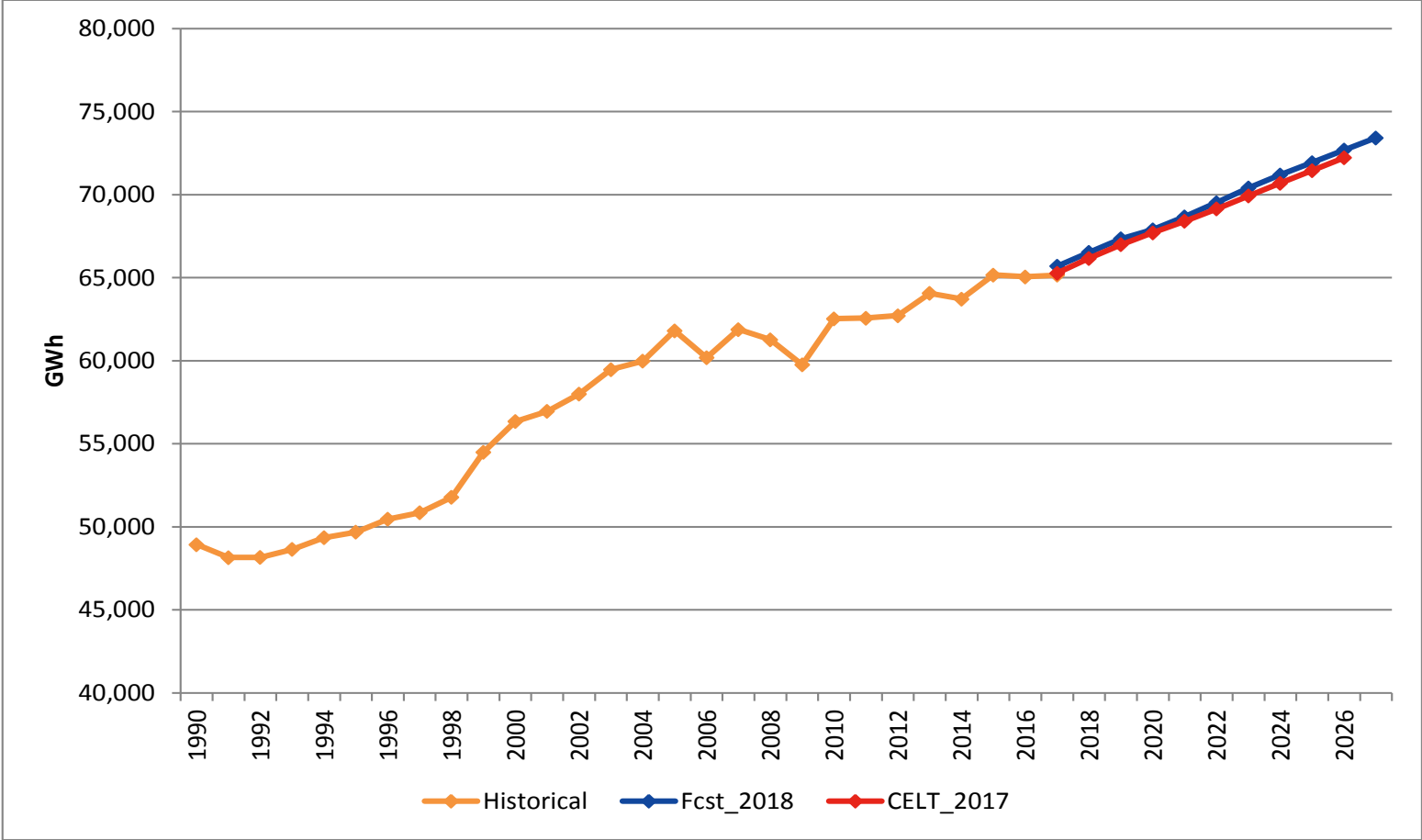
New England Forecast Comparison: Annual Energy

Draft 2018 CELT and 2017 CELT

| Draft 2018 CELT (GWh) | | | | | 2017 CELT (GWh) | | | | Change (GWh) | | | |
|-----------------------|---------|--------|--------|---------|-----------------|--------|--------|---------|--------------|--------|-------|--------|
| Year | Gross | BTM PV | EE | Net | Gross | BTM PV | EE | Net | Gross | BTM PV | EE | Net |
| 2018 | 142,488 | 2,162 | 16,074 | 124,252 | 142,078 | 2,373 | 13,279 | 126,426 | 410 | -211 | 2,795 | -2,174 |
| 2019 | 143,820 | 2,558 | 18,764 | 122,498 | 143,447 | 2,800 | 14,911 | 125,736 | 373 | -242 | 3,853 | -3,238 |
| 2020 | 144,634 | 2,906 | 21,332 | 120,395 | 144,611 | 3,133 | 17,038 | 124,440 | 23 | -227 | 4,294 | -4,045 |
| 2021 | 146,009 | 3,233 | 23,827 | 118,949 | 145,799 | 3,381 | 19,441 | 122,977 | 210 | -148 | 4,386 | -4,028 |
| 2022 | 147,538 | 3,540 | 26,128 | 117,870 | 147,127 | 3,609 | 21,659 | 121,859 | 411 | -69 | 4,469 | -3,989 |
| 2023 | 149,100 | 3,834 | 28,228 | 117,039 | 148,507 | 3,830 | 23,683 | 120,994 | 593 | 4 | 4,545 | -3,955 |
| 2024 | 150,485 | 4,115 | 30,121 | 116,249 | 149,884 | 4,027 | 25,508 | 120,349 | 601 | 88 | 4,613 | -4,100 |
| 2025 | 151,766 | 4,361 | 31,811 | 115,594 | 151,233 | 4,185 | 27,137 | 119,911 | 533 | 176 | 4,674 | -4,317 |
| 2026 | 153,072 | 4,575 | 33,302 | 115,196 | 152,593 | 4,338 | 28,575 | 119,680 | 479 | 237 | 4,727 | -4,484 |
| 2027 | 154,364 | 4,783 | 34,601 | 114,981 | | | | | | | | |

Gross Energy - Historical and Forecast

Massachusetts



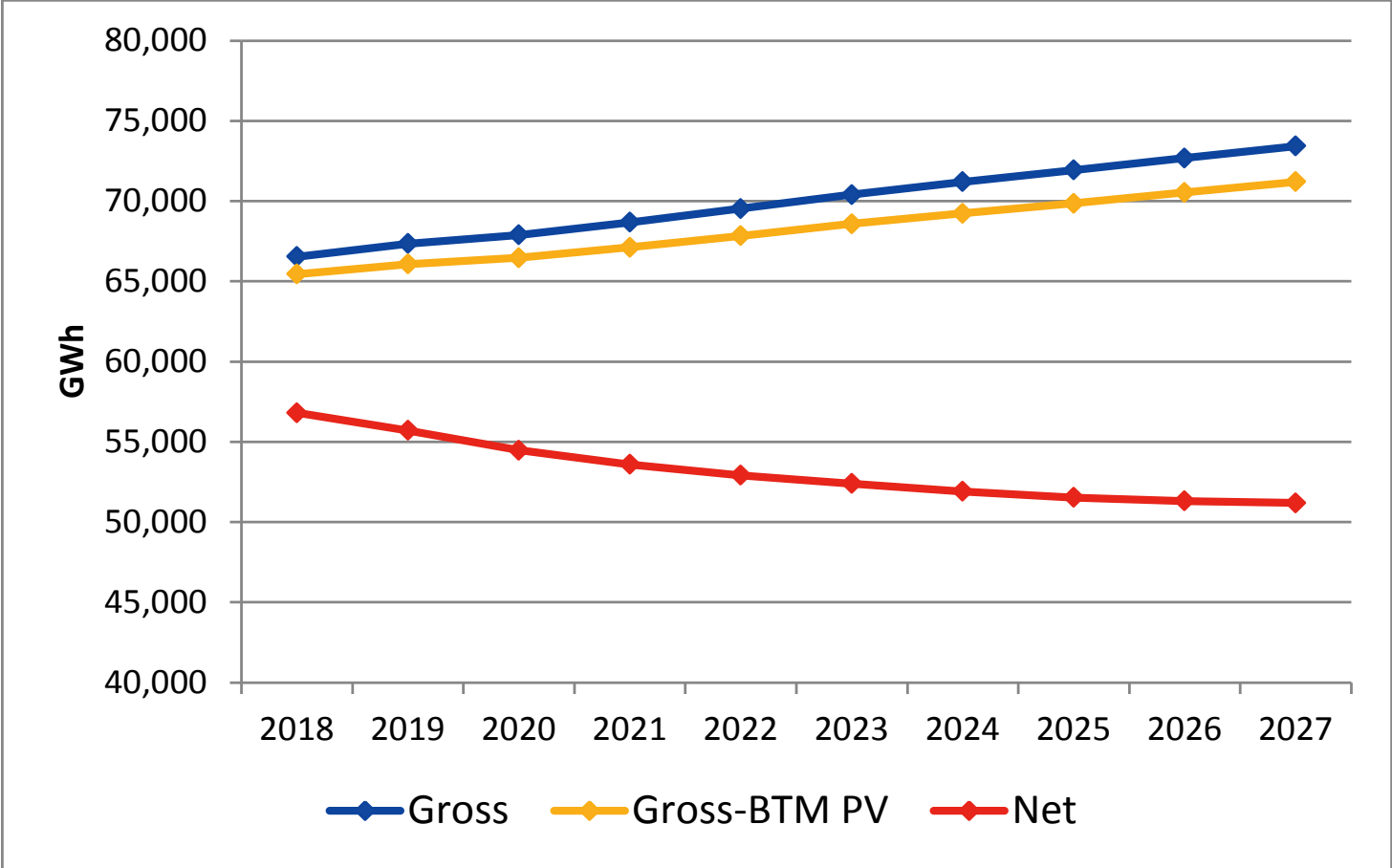
2018 (+0.6%, +369 GWh)

2022 (+0.5%, +380 GWh)

2026 (+0.6%, +458 GWh)

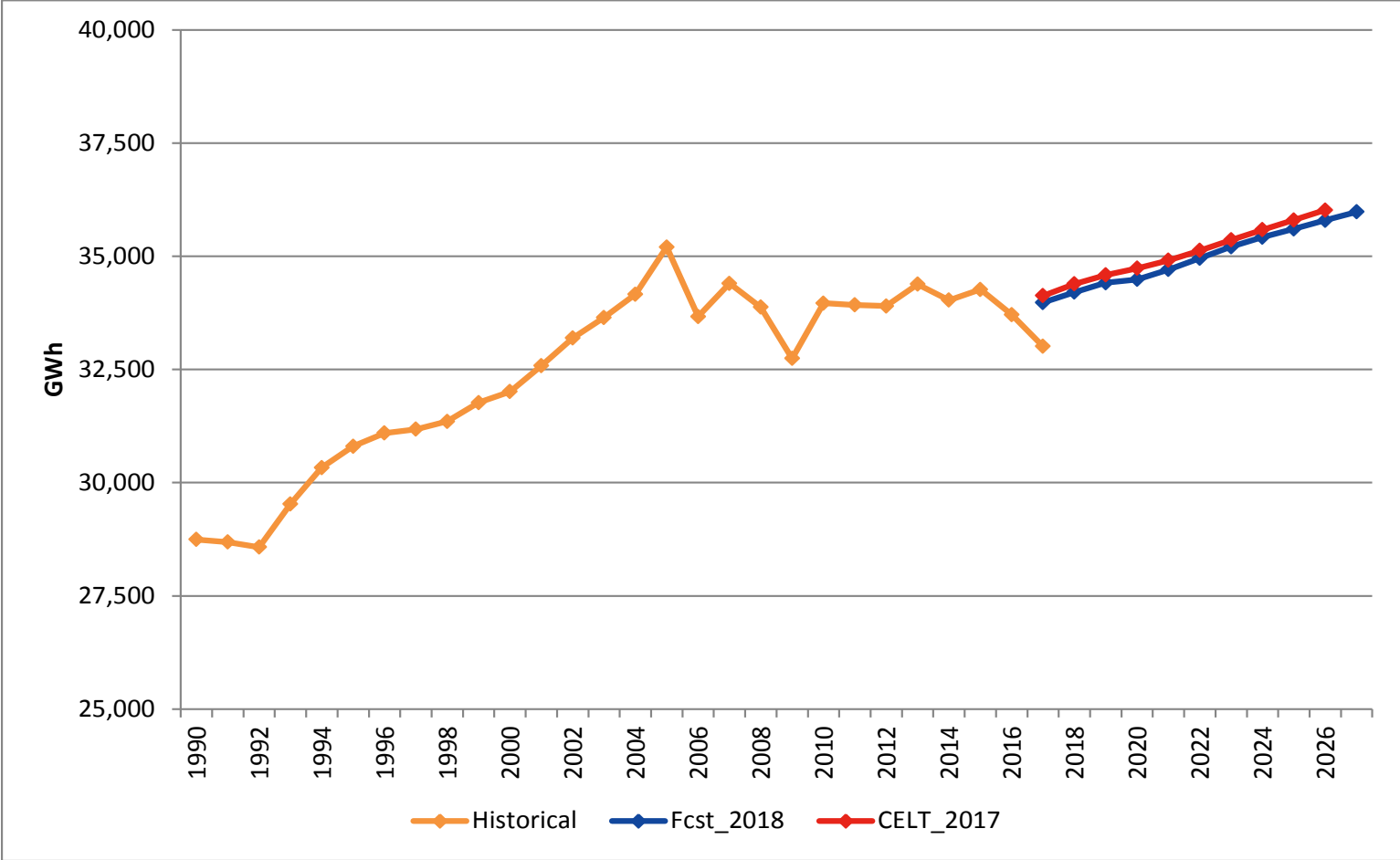
Draft 2018 CELT Energy Forecast

Massachusetts



Gross Energy - Historical and Forecast

Connecticut



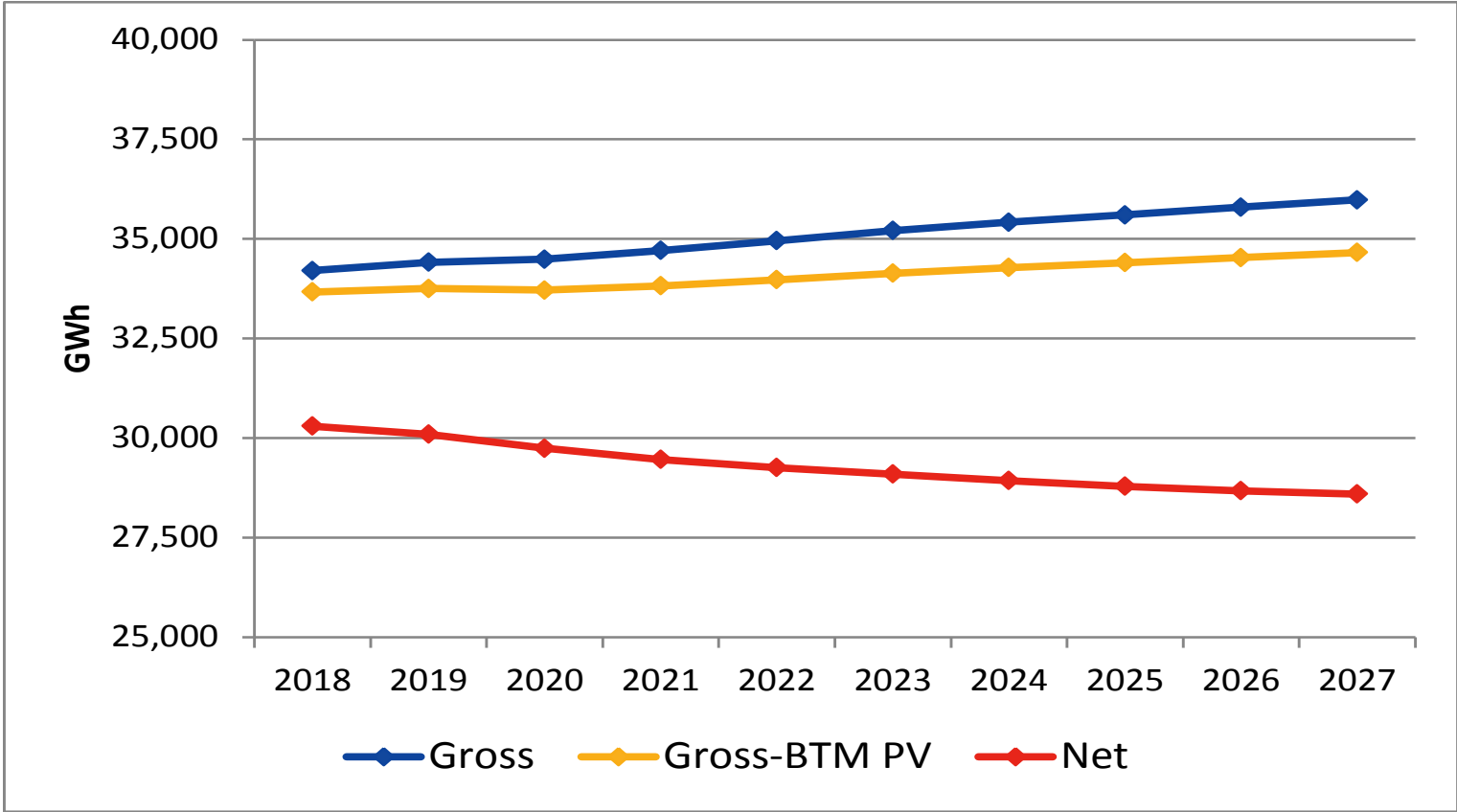
2018 (-0.5%, -185 GWh)

2022 (-0.5%, -173 GWh)

2026 (-0.6%, -223 GWh)

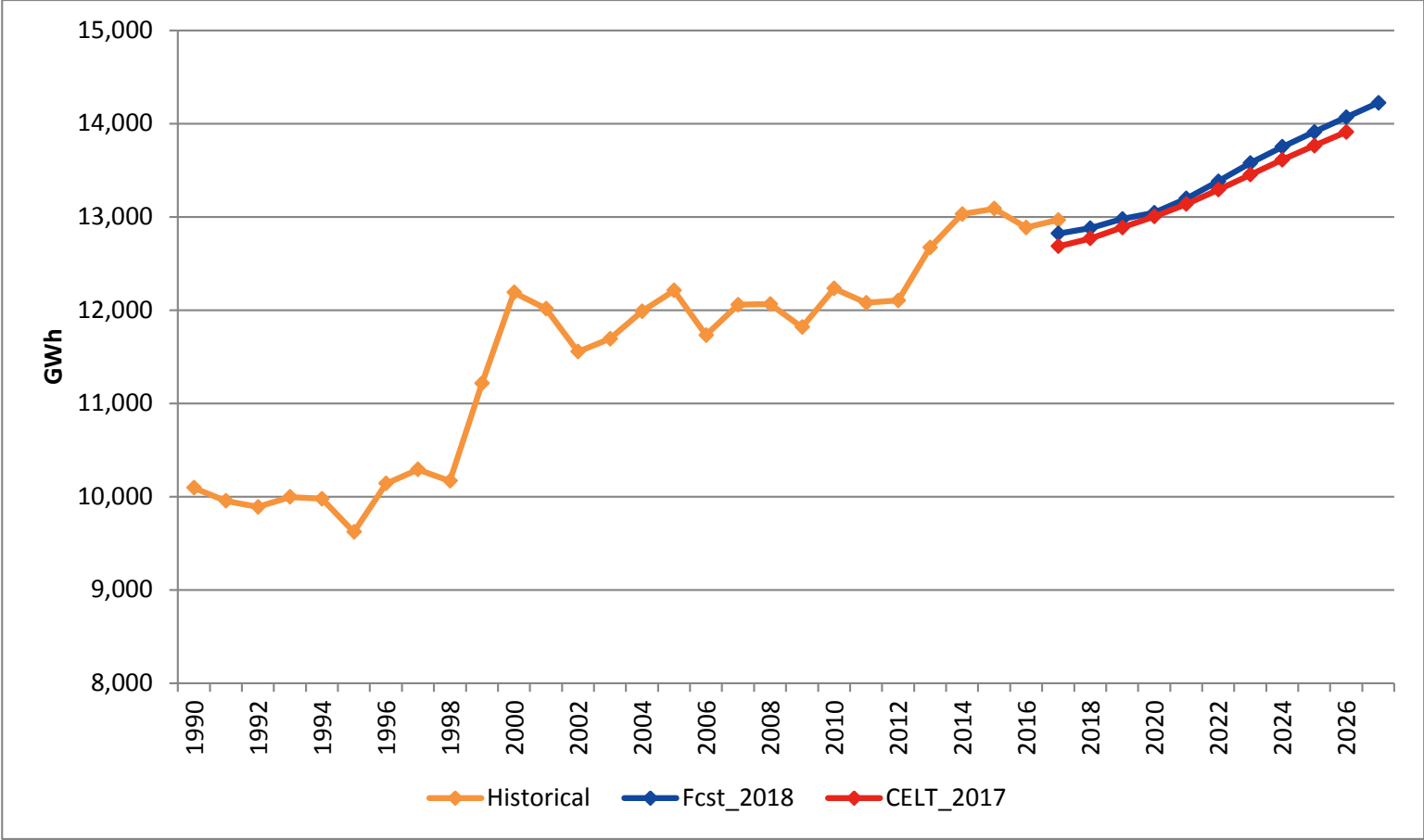
Draft 2018 CELT Energy Forecast

Connecticut



Gross Energy - Historical and Forecast

Maine



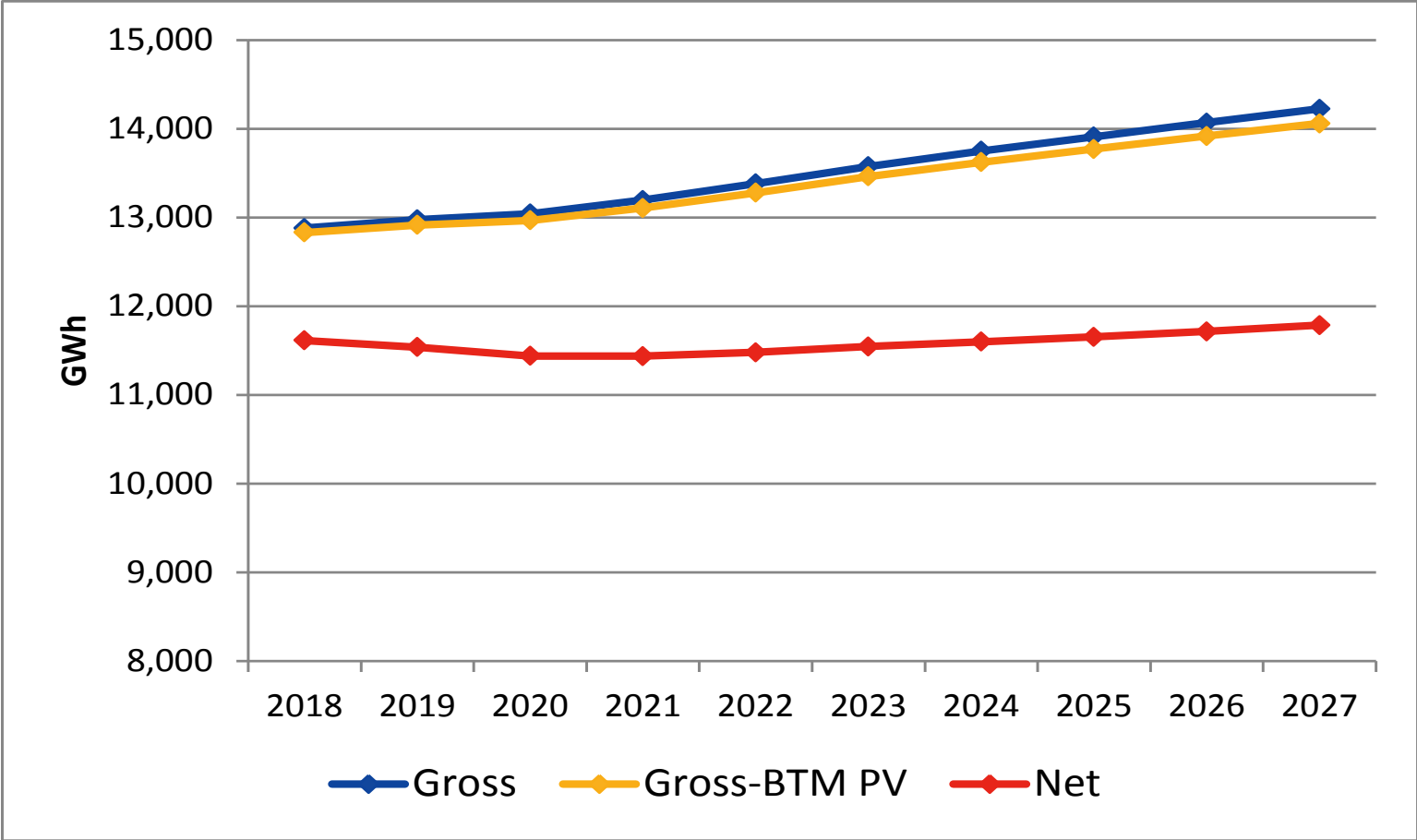
2018 (+0.9%, +110 GWh)

2022 (+0.7%, +90 GWh)

2026 (+1.1%, +157 GWh)

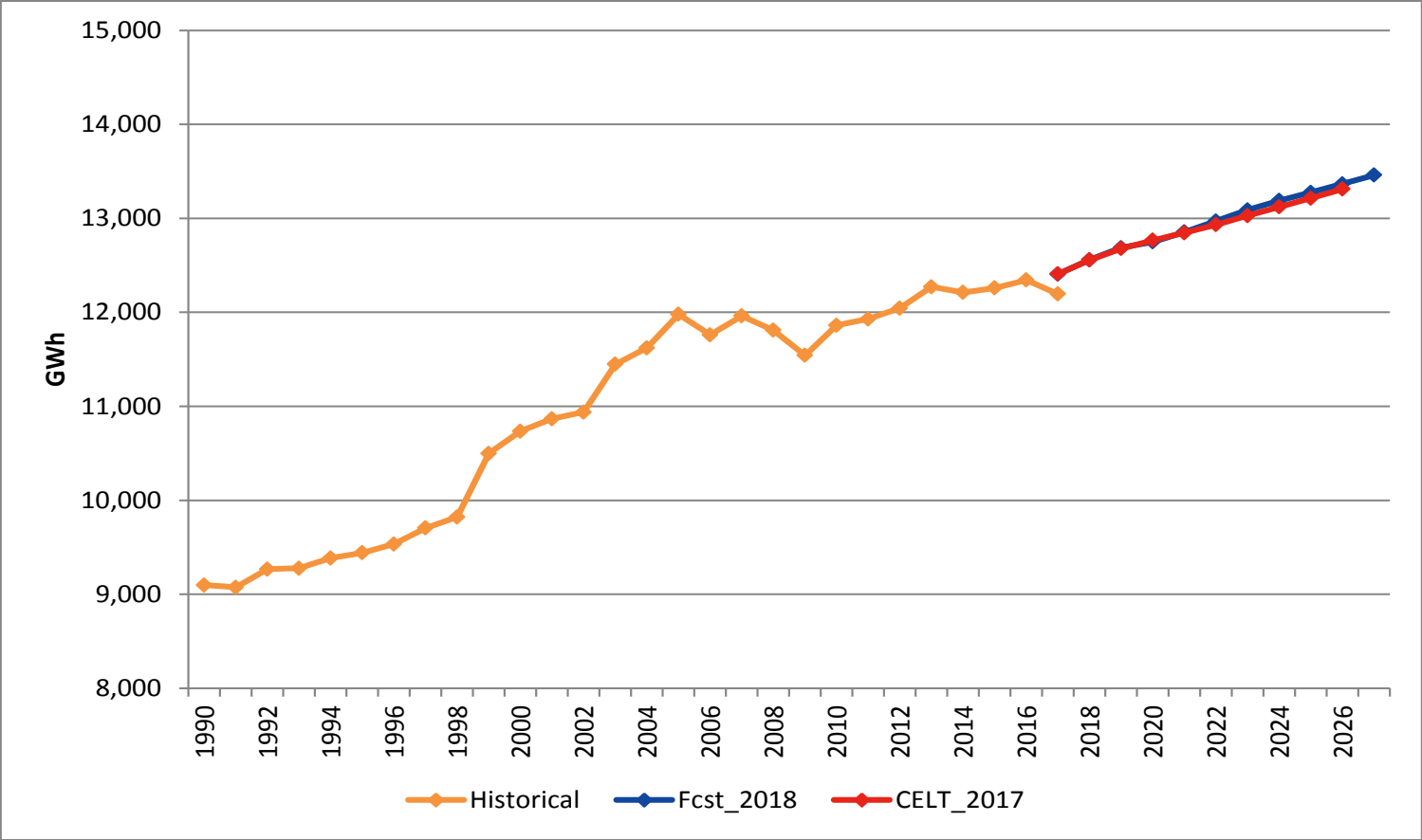
Draft 2018 CELT Energy Forecast

Maine



Gross Energy - Historical and Forecast

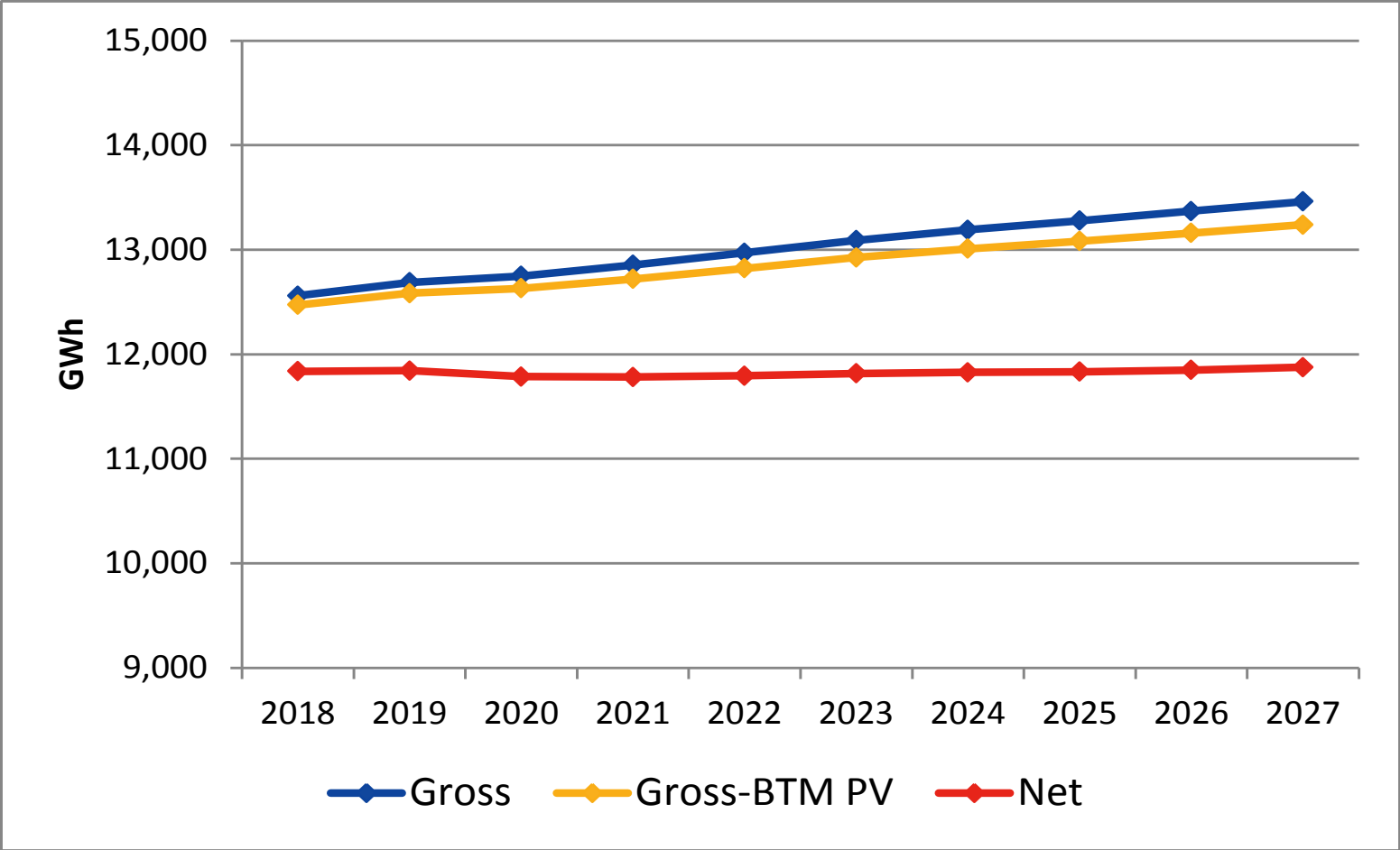
New Hampshire



2018 (+0.0%, +2 GWh) 2022 (+0.3%, +38 GWh) 2026 (+0.4%, +57 GWh)

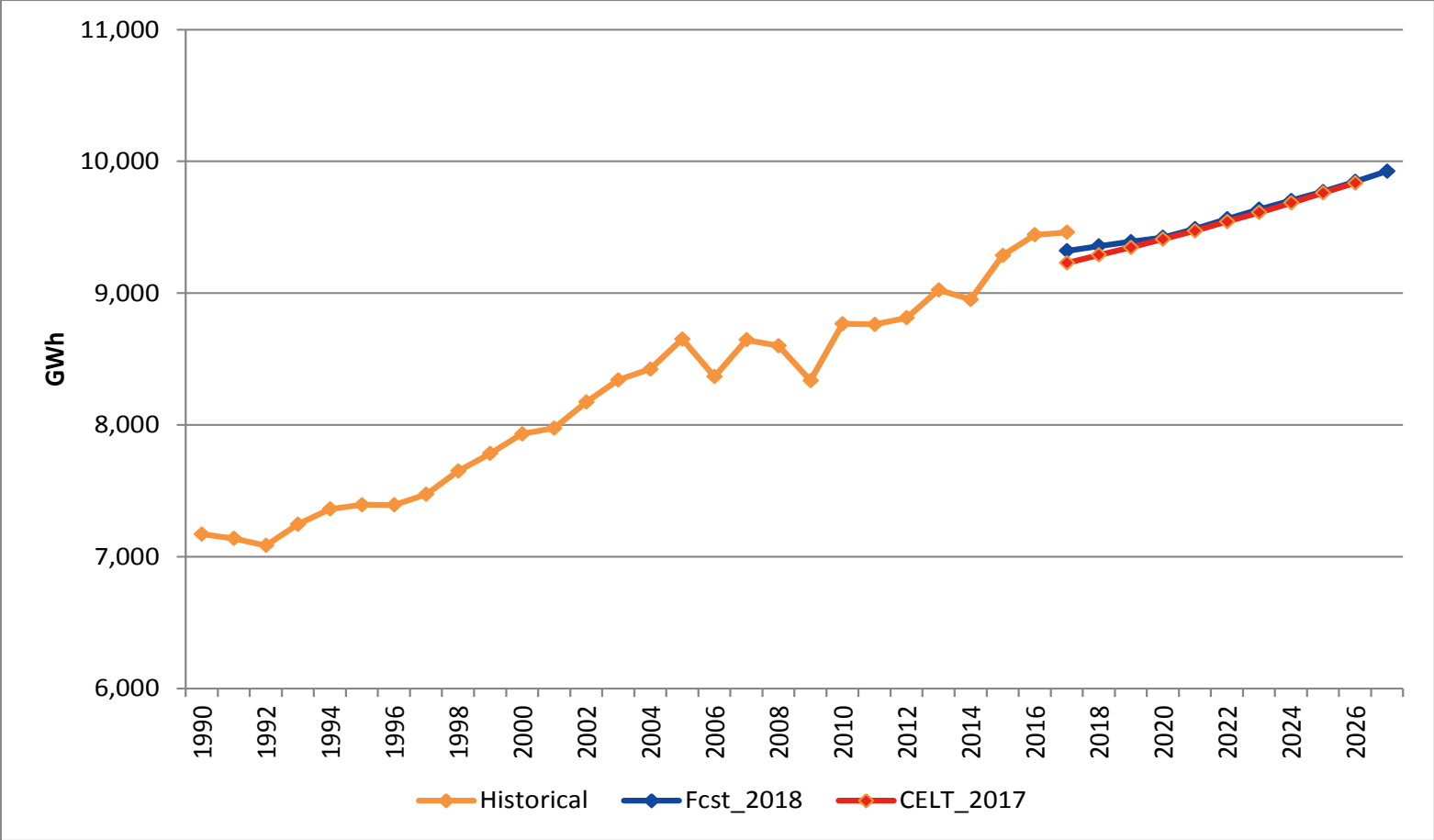
Draft 2018 CELT Energy Forecast

New Hampshire



Gross Energy - Historical and Forecast

Rhode Island



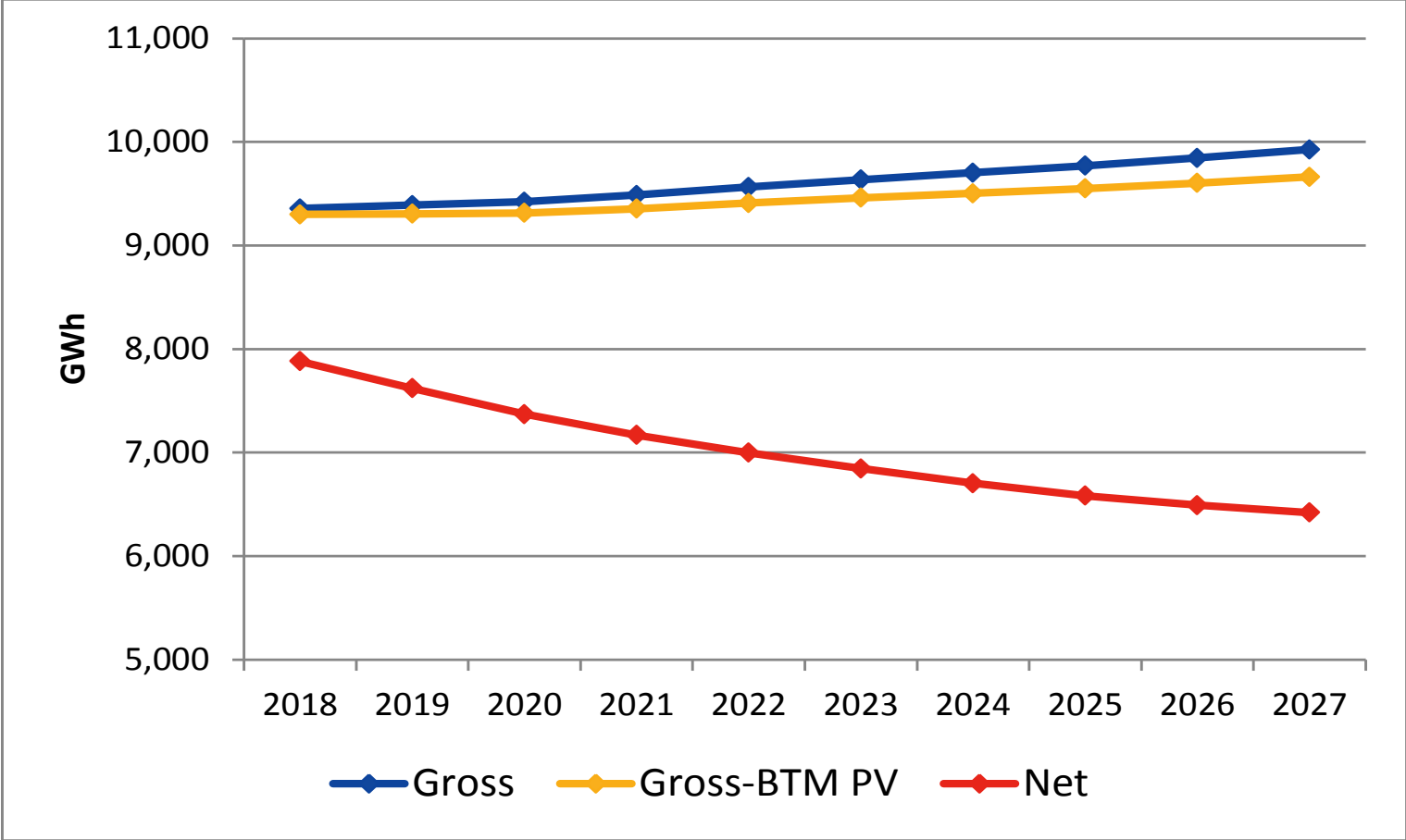
2018 (+0.7%, +682 GWh)

2022 (+0.2%, +21 GWh)

2026 (+0.1%, +10 GWh)

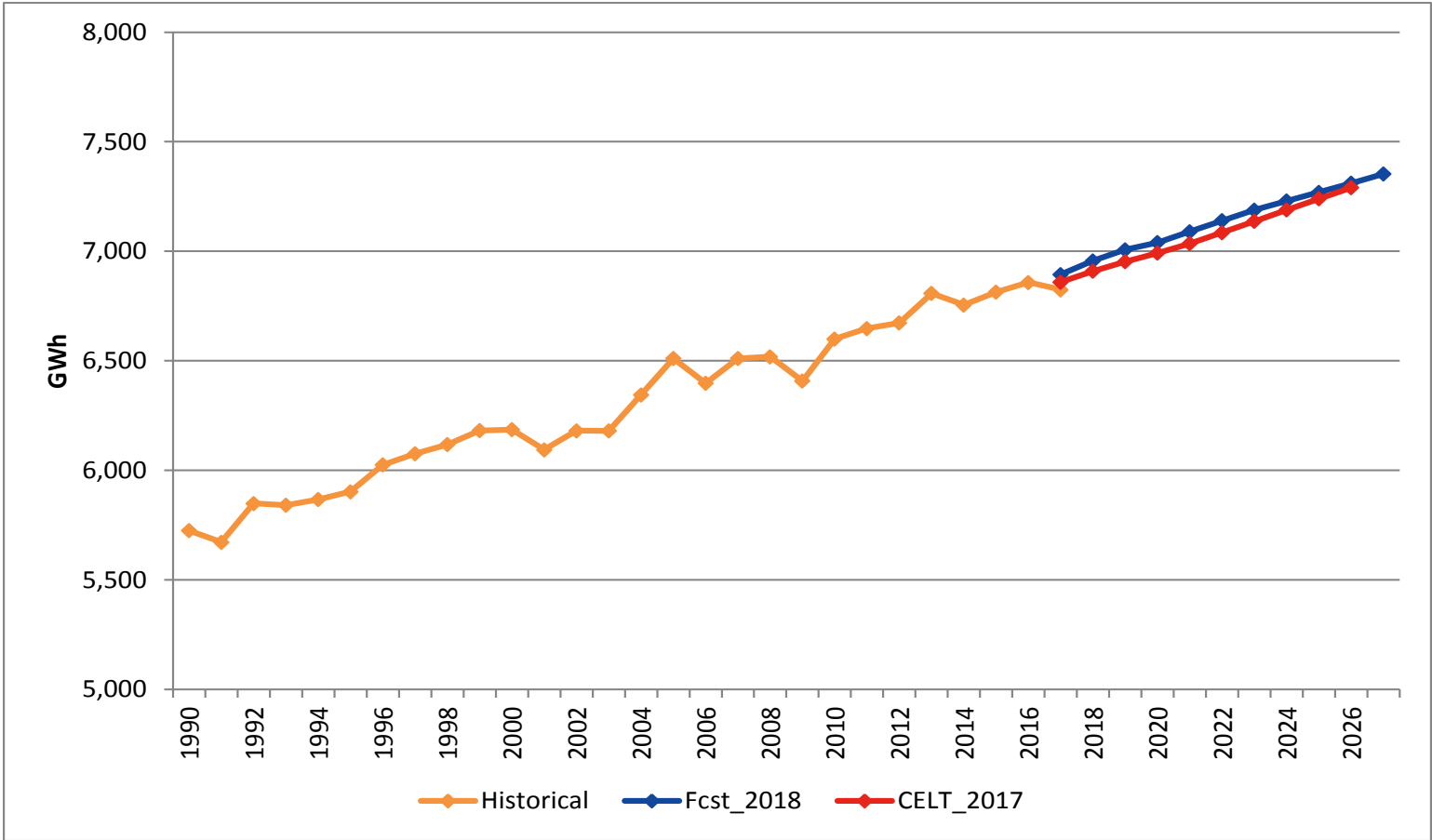
Draft 2018 CELT Energy Forecast

Rhode Island



Gross Energy - Historical and Forecast

Vermont



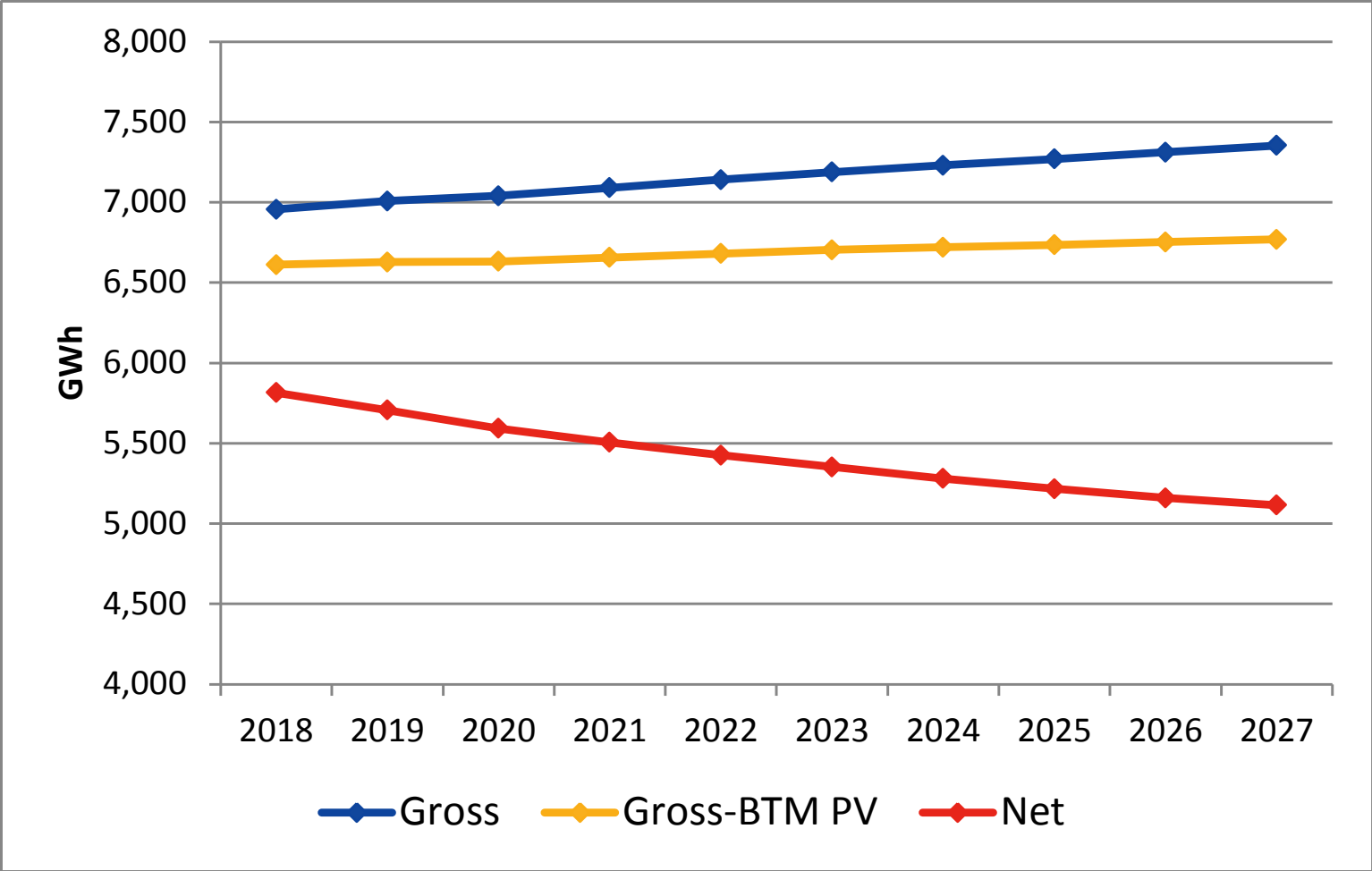
2018 (+0.7%, +47 GWh)

2022 (+0.8%, +55 GWh)

2026 (+0.3%, +20 GWh)

Draft 2018 CELT Energy Forecast

Vermont

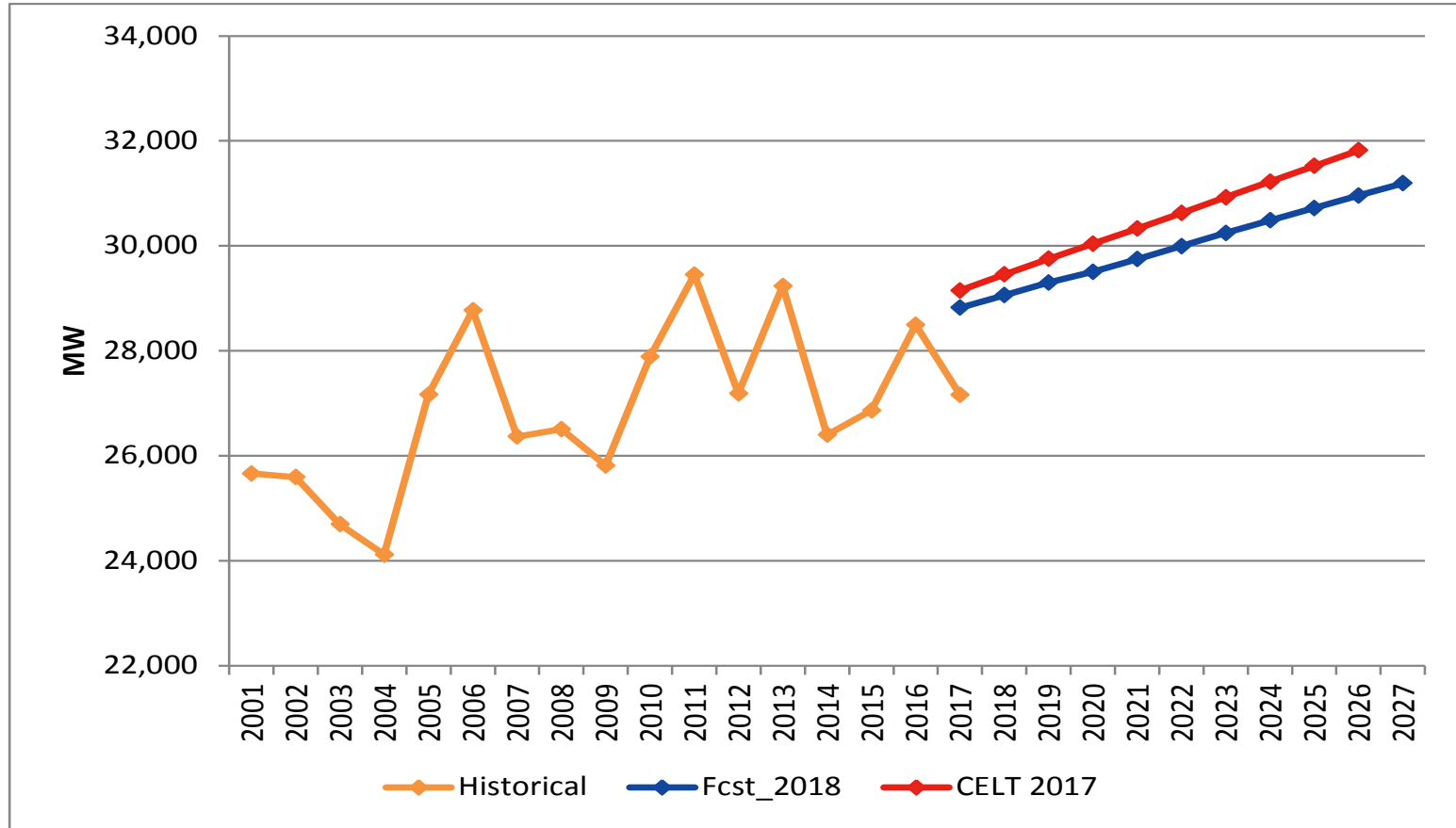


2018 SUMMER PEAK DEMAND FORECAST

New England and States

Draft 2018 CELT Gross Summer 50/50 Peak Demand Forecast

New England



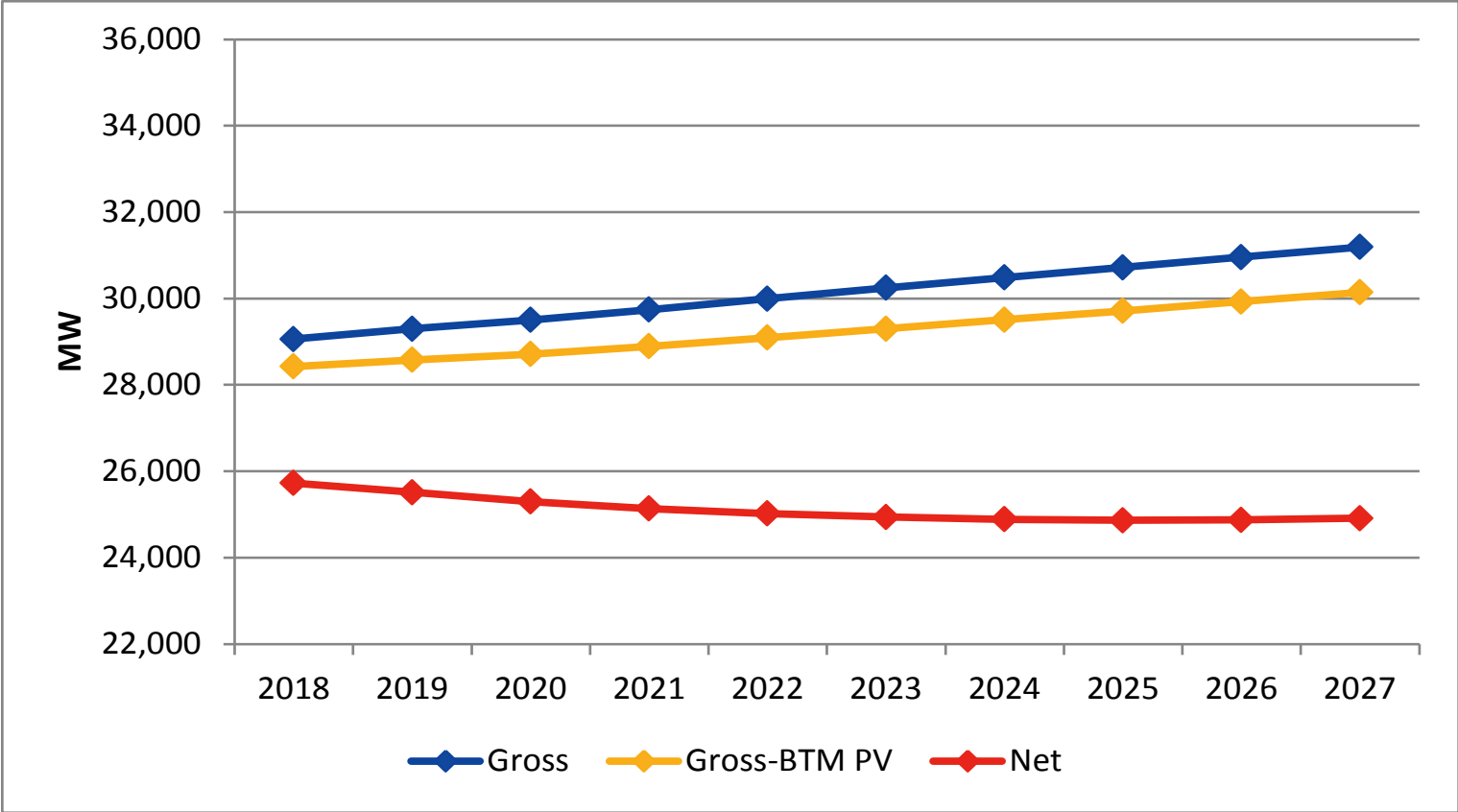
2018 (-1.3%, -394 MW)

2022 (-2.1%, -629 MW)

2026 (-2.7%, -863 MW)

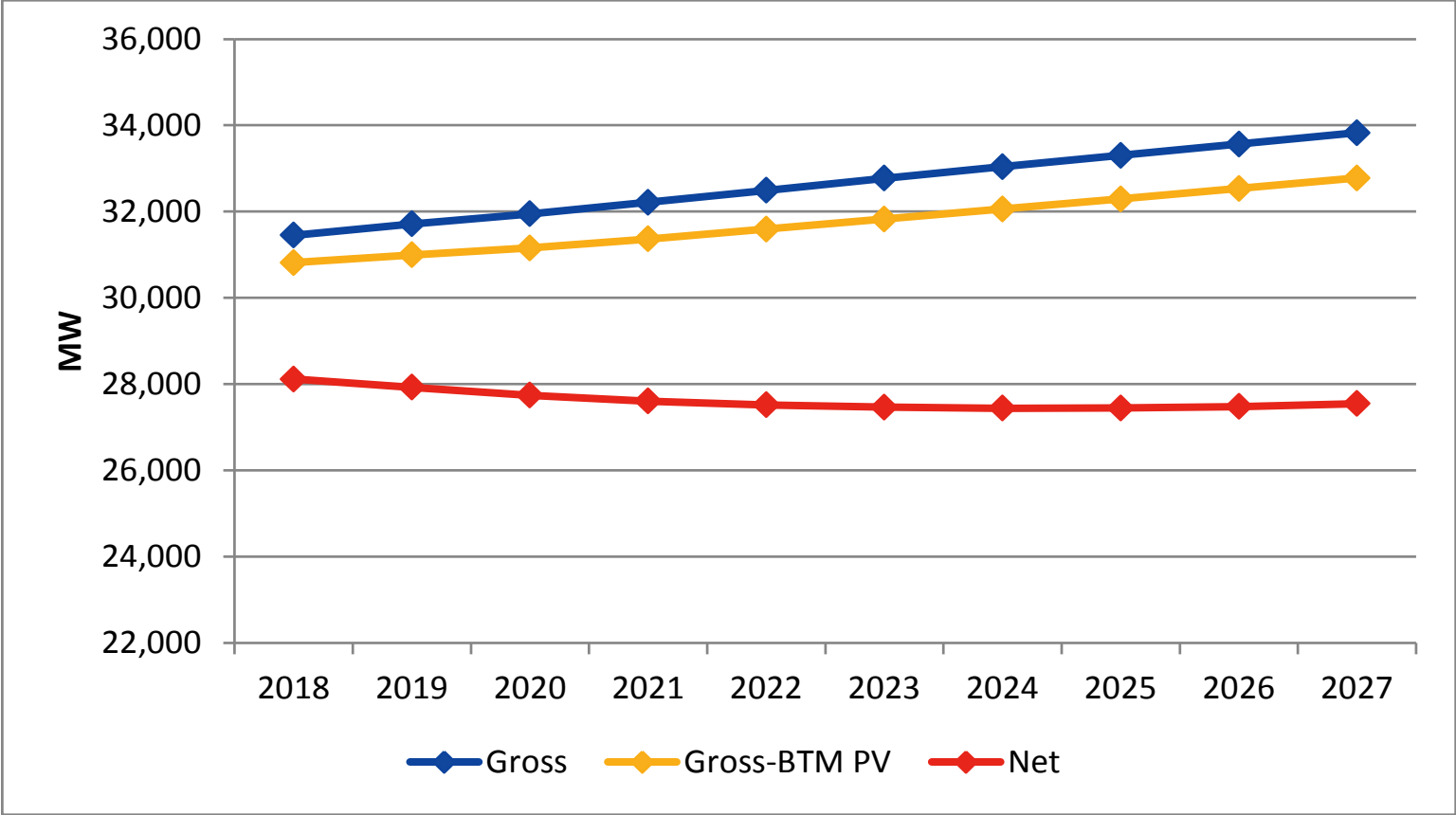
Draft 2018 CELT Summer 50/50 Peak Demand Forecast

New England



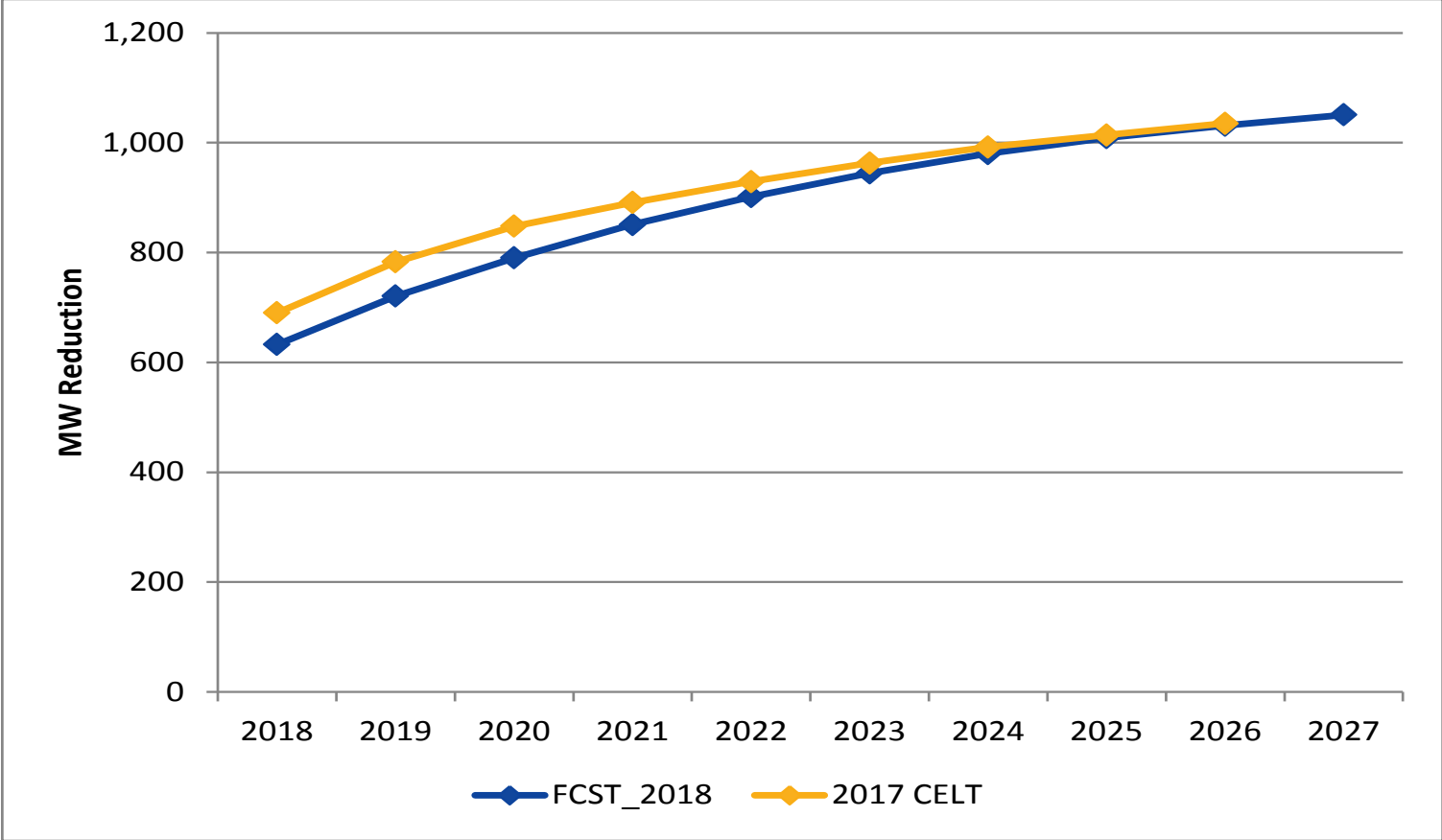
Draft 2018 CELT Summer 90/10 Peak Demand Forecast

New England



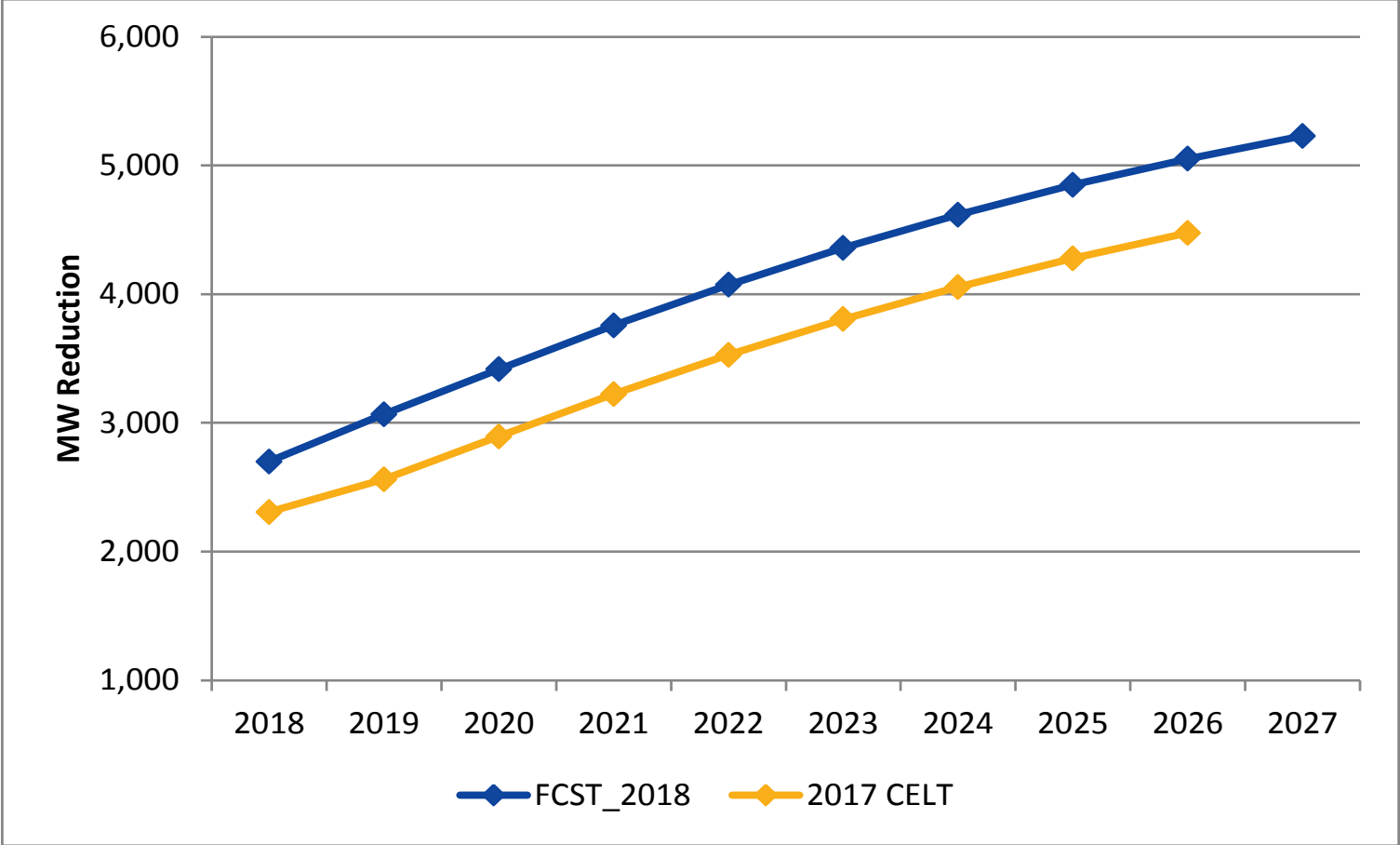
Draft 2018 CELT Summer BTM PV Forecast

New England



Draft 2018 CELT Summer EE Forecast

New England



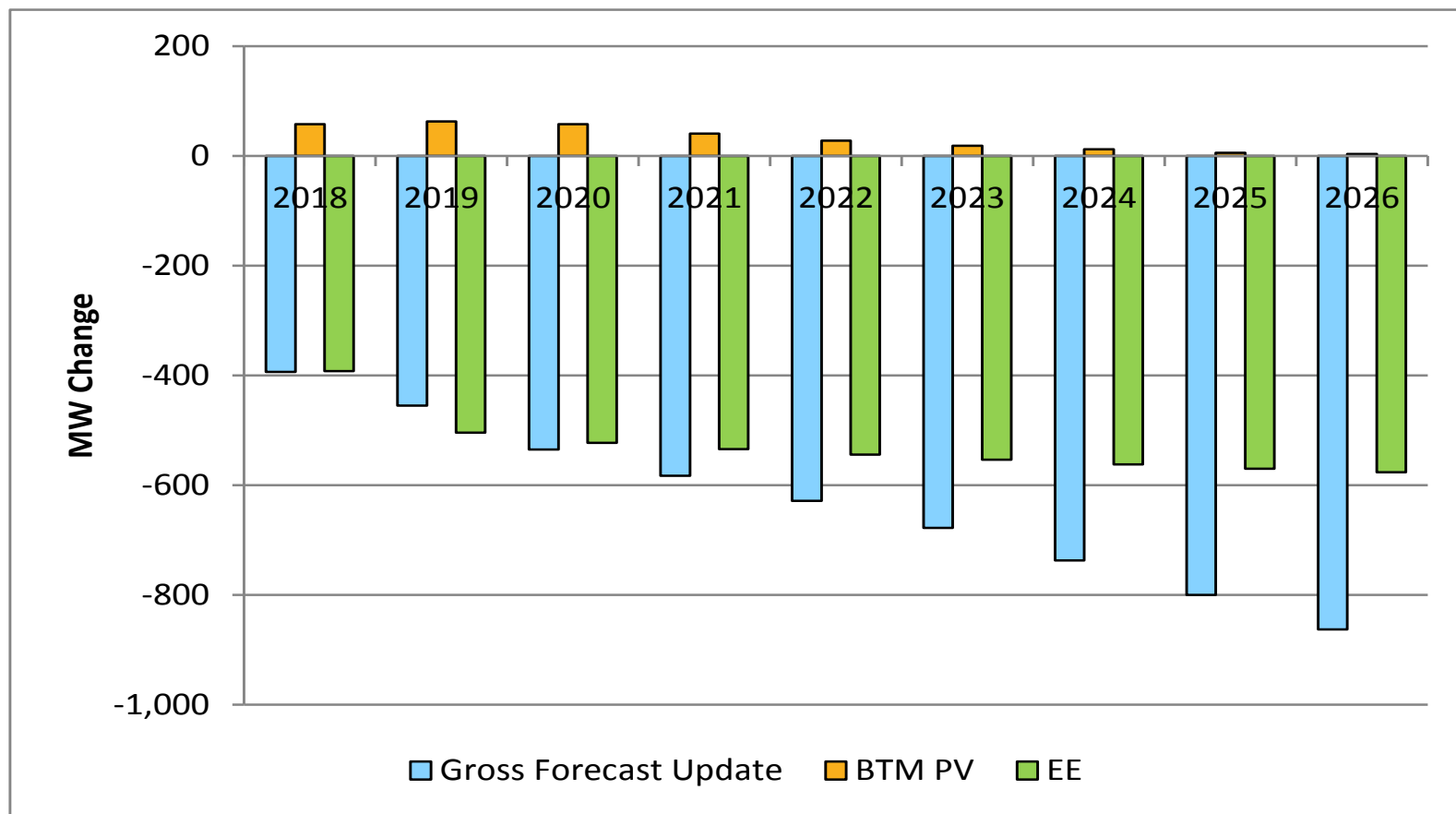
New England Forecast Comparison: Summer Demand

Draft 2018 CELT and 2017 CELT

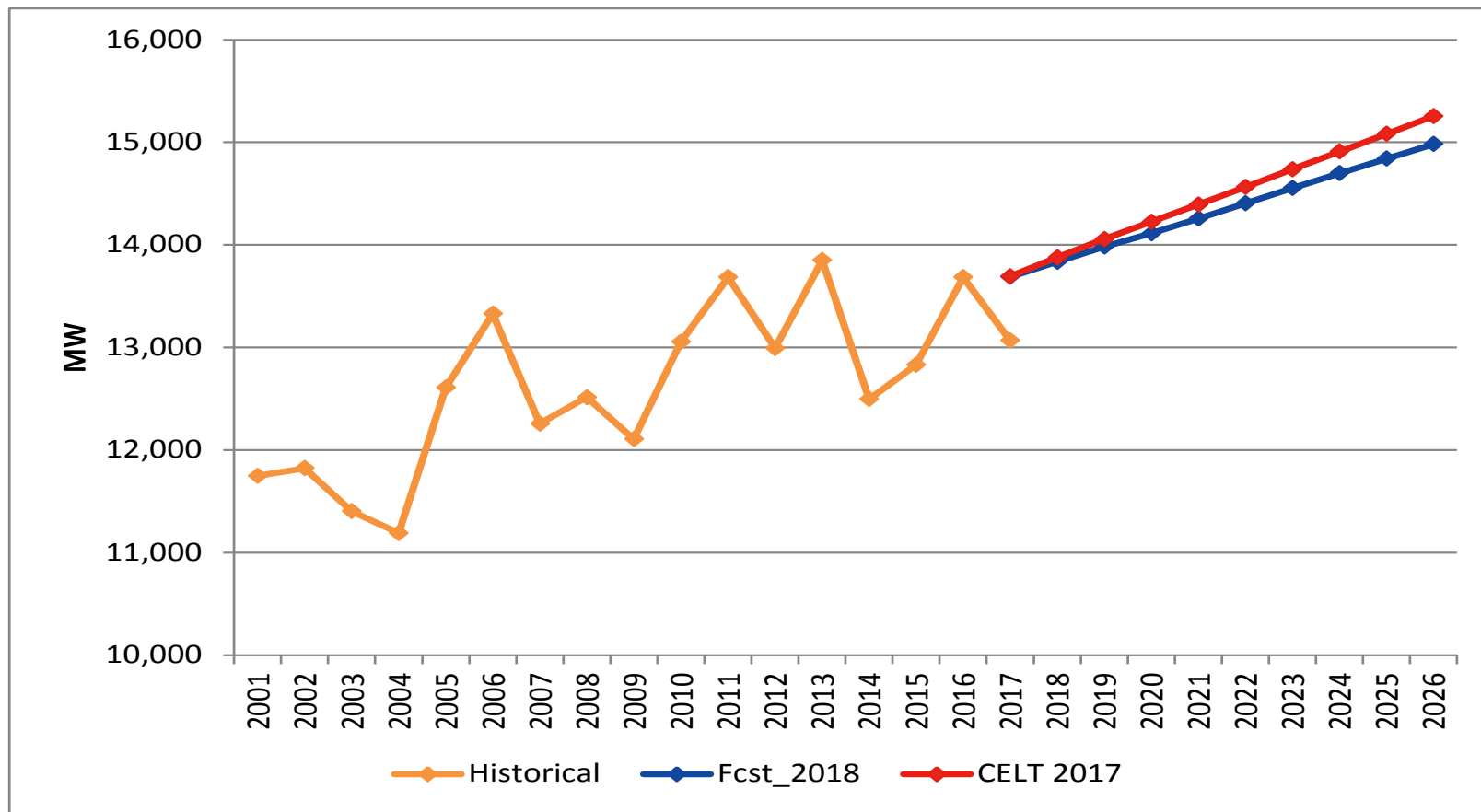
| Year | 2018 CELT (MW) | | | | | | 2017 CELT (MW) | | | | | | Change (MW) | | | | | |
|------|----------------|--------|--------|------|--------|--------|----------------|--------|--------|-------|--------|--------|-------------|-------|--------|-----|--------|--------|
| | Gross | | BTM PV | EE | Net | | Gross | | BTM PV | EE | Net | | Gross | | BTM PV | EE | Net | |
| | 50/50 | 90/10 | | | 50/50 | 90/10 | 50/50 | 90/10 | | | 50/50 | 90/10 | 50/50 | 90/10 | | | 50/50 | 90/10 |
| 2018 | 29,060 | 31,451 | 633 | 2699 | 25,729 | 28,120 | 29,454 | 31,873 | 690 | 2,306 | 26,458 | 28,877 | -394 | -422 | -57 | 393 | -729 | -757 |
| 2019 | 29,298 | 31,716 | 721 | 3066 | 25,512 | 27,930 | 29,753 | 32,209 | 783 | 2,561 | 26,409 | 28,865 | -455 | -493 | -62 | 505 | -897 | -935 |
| 2020 | 29,504 | 31,950 | 790 | 3416 | 25,298 | 27,743 | 30,039 | 32,531 | 848 | 2,893 | 26,298 | 28,790 | -535 | -581 | -58 | 523 | -1,000 | -1,047 |
| 2021 | 29,744 | 32,217 | 851 | 3757 | 25,136 | 27,609 | 30,327 | 32,855 | 891 | 3,223 | 26,213 | 28,741 | -583 | -638 | -40 | 534 | -1,077 | -1,132 |
| 2022 | 29,994 | 32,494 | 901 | 4072 | 25,021 | 27,521 | 30,623 | 33,188 | 929 | 3,527 | 26,167 | 28,732 | -629 | -694 | -28 | 545 | -1,146 | -1,211 |
| 2023 | 30,245 | 32,773 | 945 | 4359 | 24,942 | 27,469 | 30,923 | 33,525 | 963 | 3,805 | 26,155 | 28,757 | -678 | -752 | -18 | 554 | -1,213 | -1,288 |
| 2024 | 30,486 | 33,041 | 980 | 4617 | 24,889 | 27,443 | 31,223 | 33,861 | 992 | 4,055 | 26,176 | 28,814 | -737 | -820 | -12 | 562 | -1,287 | -1,371 |
| 2025 | 30,721 | 33,303 | 1009 | 4848 | 24,864 | 27,446 | 31,521 | 34,196 | 1,014 | 4,278 | 26,229 | 28,904 | -800 | -893 | -5 | 570 | -1,365 | -1,458 |
| 2026 | 30,957 | 33,566 | 1031 | 5052 | 24,874 | 27,483 | 31,820 | 34,531 | 1,035 | 4,475 | 26,310 | 29,021 | -863 | -965 | -4 | 577 | -1,436 | -1,538 |
| 2027 | 31,192 | 33,828 | 1051 | 5229 | 24,912 | 27,548 | | | | | | | | | | | | |

Change in Summer Peak Net Load by Component

Draft 2018 CELT and 2017 CELT



2018 CELT Gross Summer 50/50 Peak Demand Forecast Massachusetts



2018 (-0.3%, -41 MW)

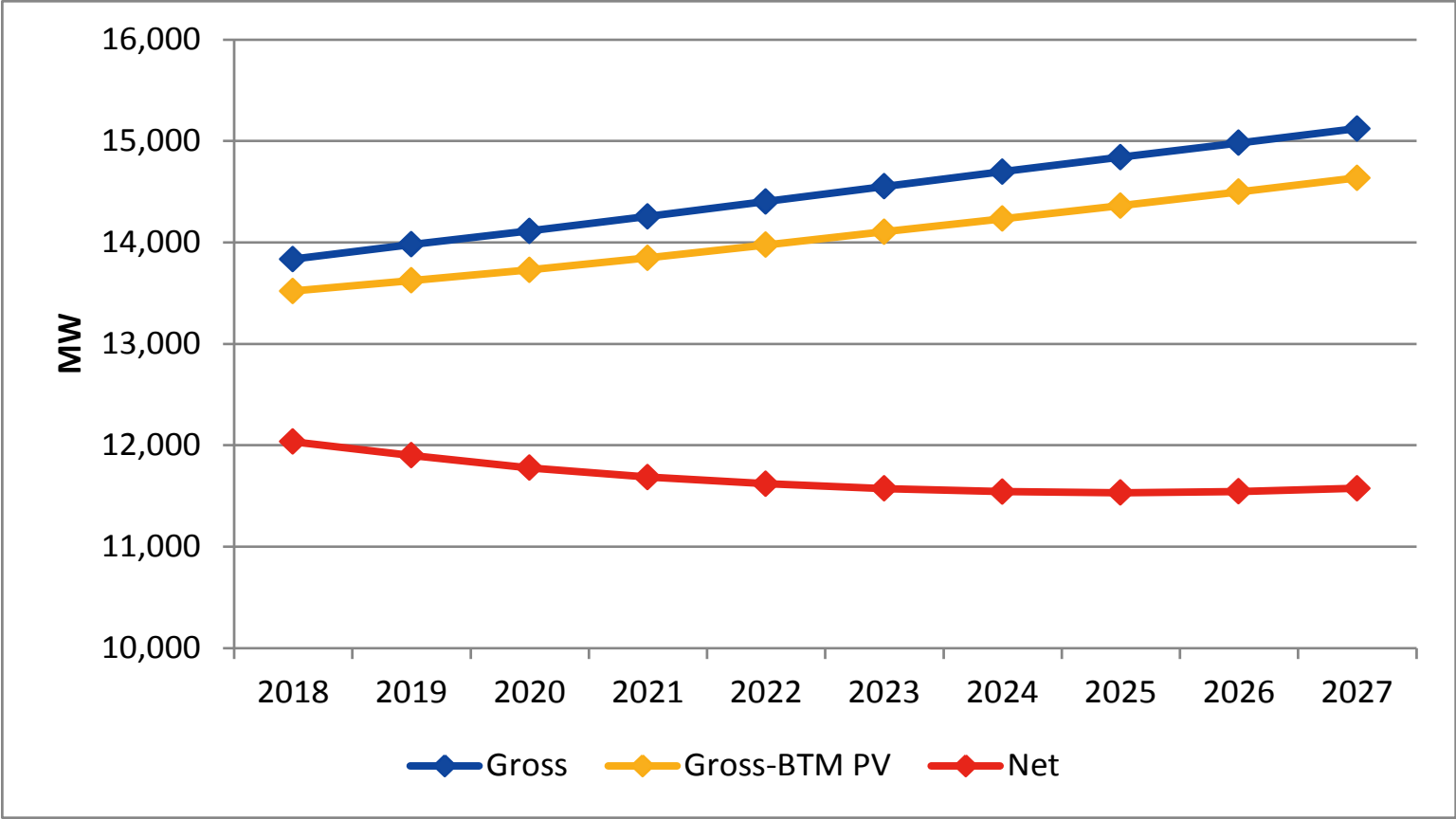
2022 (-1.1%, -158 MW)

2026 (-1.8%, -272 MW)



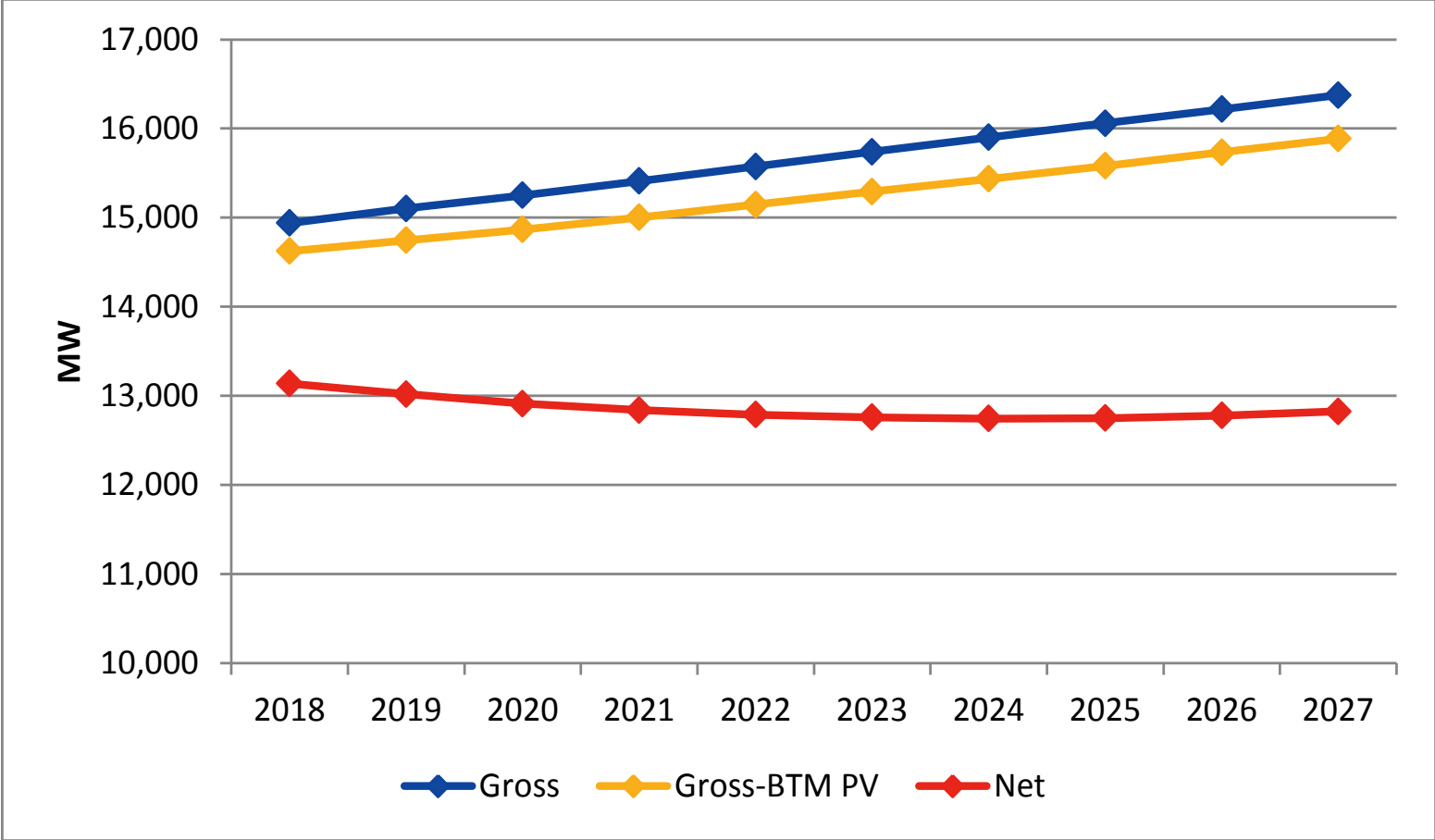
Draft 2018 CELT Summer 50/50 Peak Demand Forecast

Massachusetts

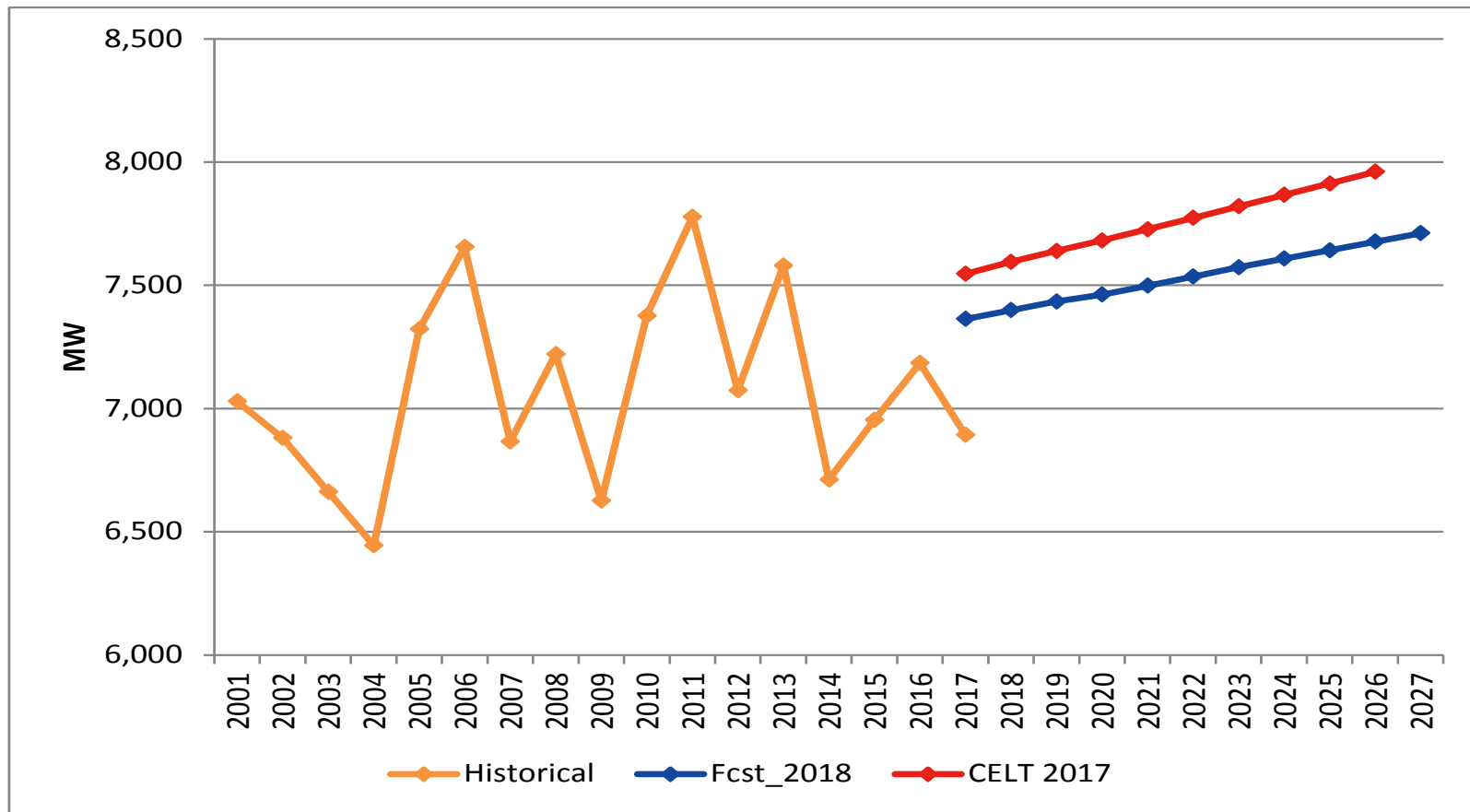


Draft 2018 CELT Summer 90/10 Peak Demand Forecast

Massachusetts



2017 CELT Gross Summer 50/50 Peak Demand Forecast Connecticut



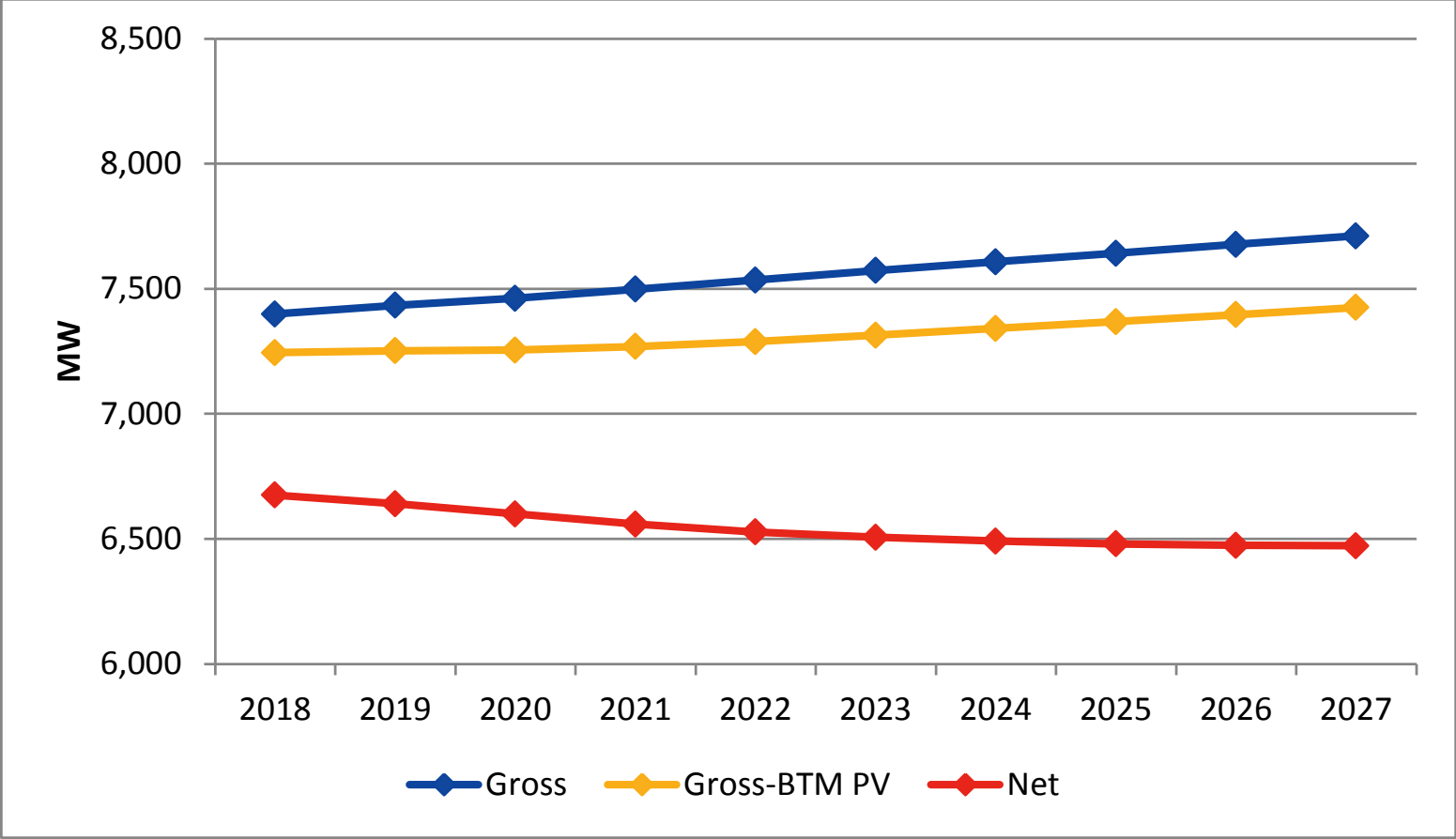
2018 (-2.6%, -195 MW)

2022 (-3.0%, -237 MW)

2026 (-3.5%, -282 MW)

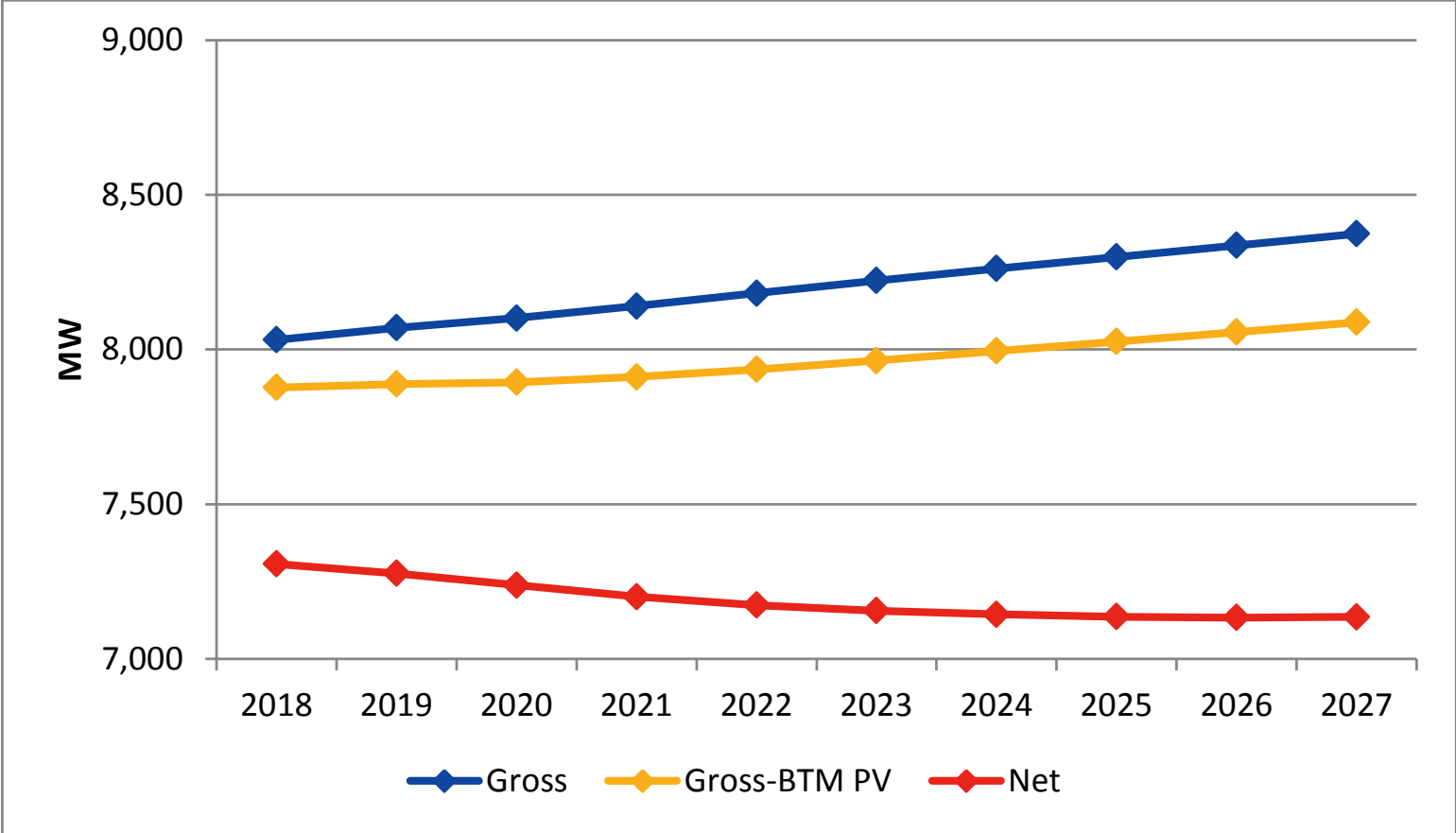
Draft 2018 CELT Summer 50/50 Peak Demand Forecast

Connecticut



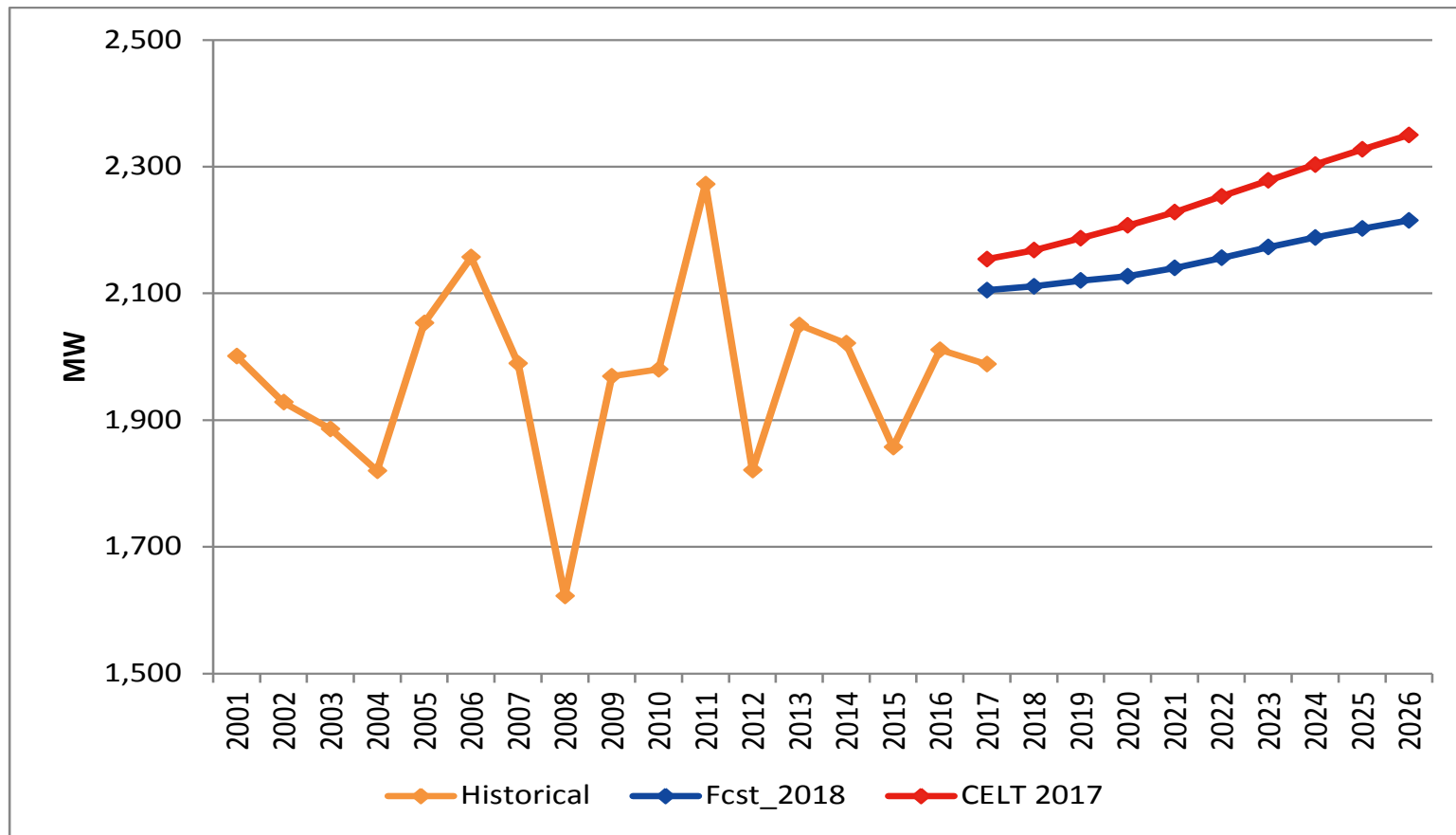
Draft 2018 CELT Summer 90/10 Peak Demand Forecast

Connecticut



2018 CELT Gross Summer 50/50 Peak Demand Forecast

Maine



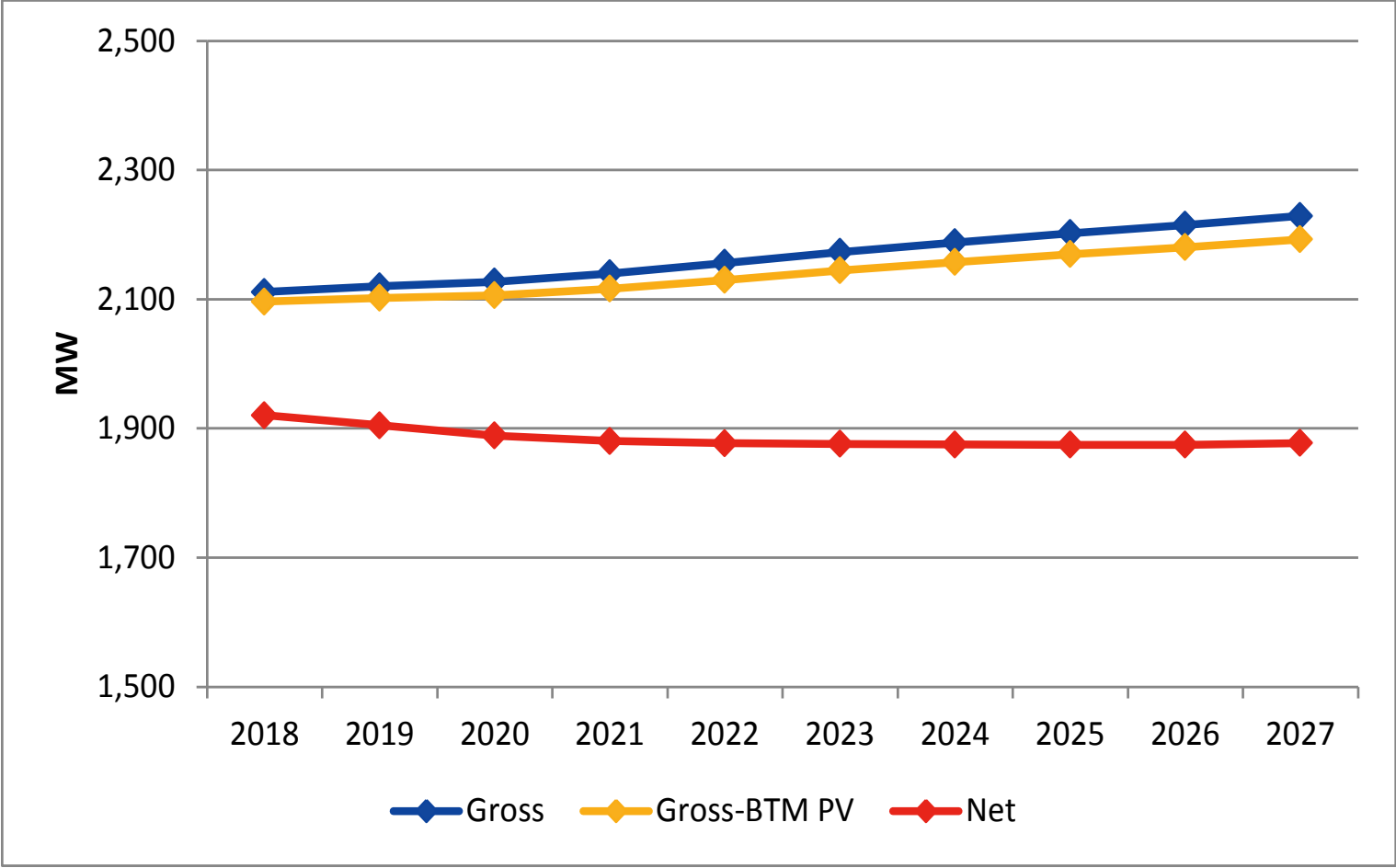
2018 (-2.3%, -49 MW)

2022 (-4.3%, -97 MW)

2026 (-5.7%, -134 MW)

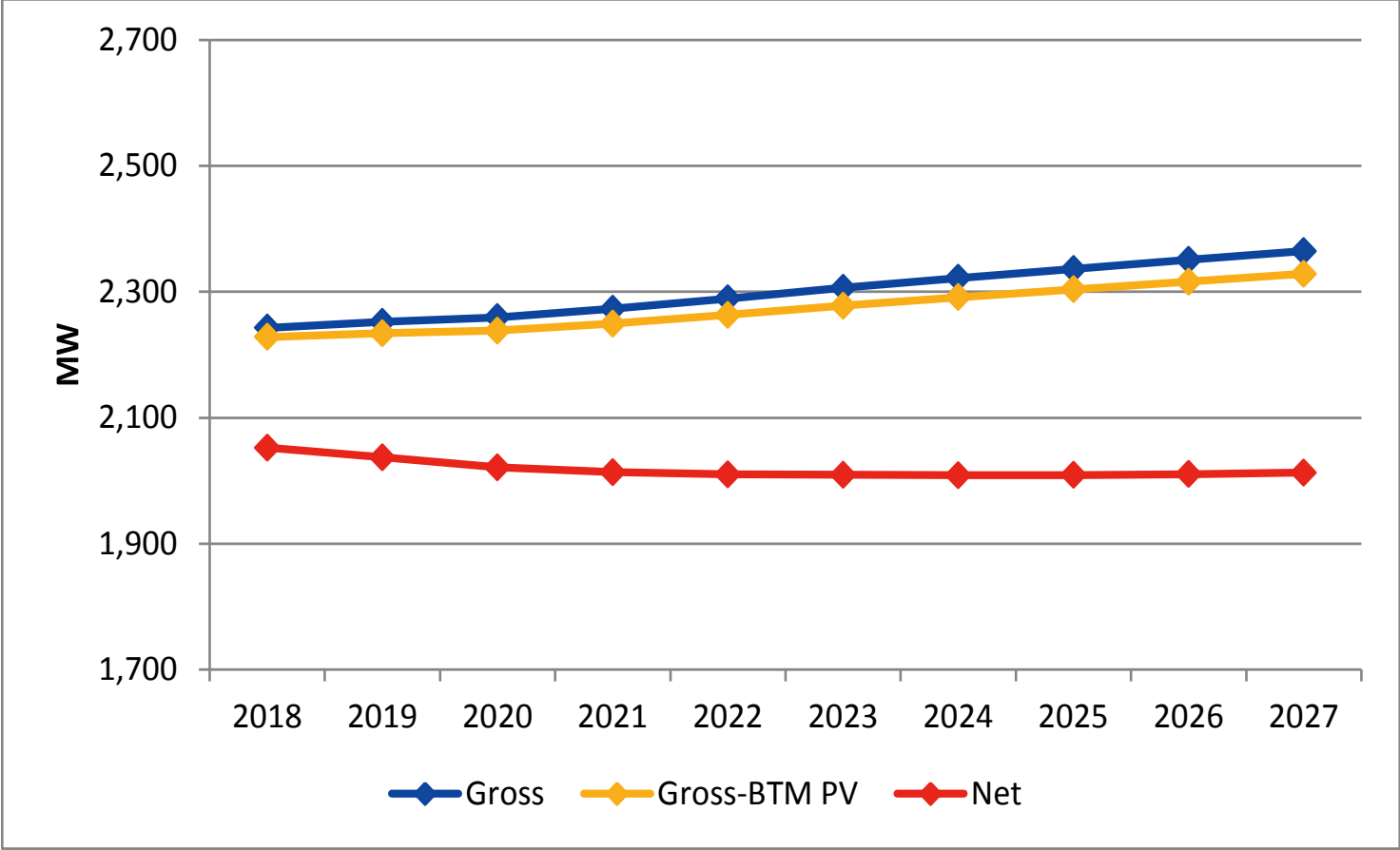
Draft 2018 CELT Summer 50/50 Peak Demand Forecast

Maine



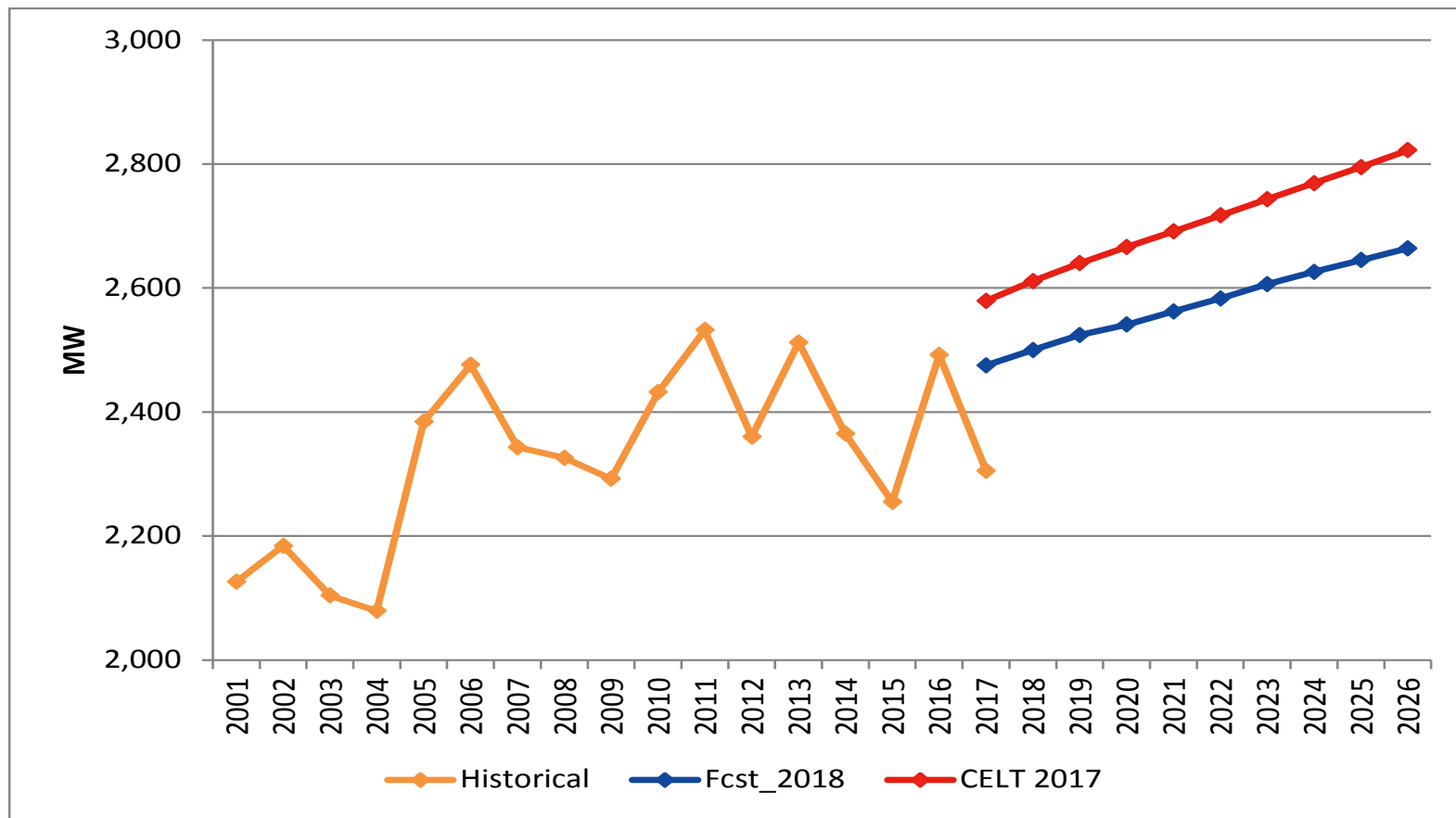
Draft 2018 CELT Summer 90/10 Peak Demand Forecast

Maine



2018 CELT Gross Summer 50/50 Peak Demand Forecast

New Hampshire



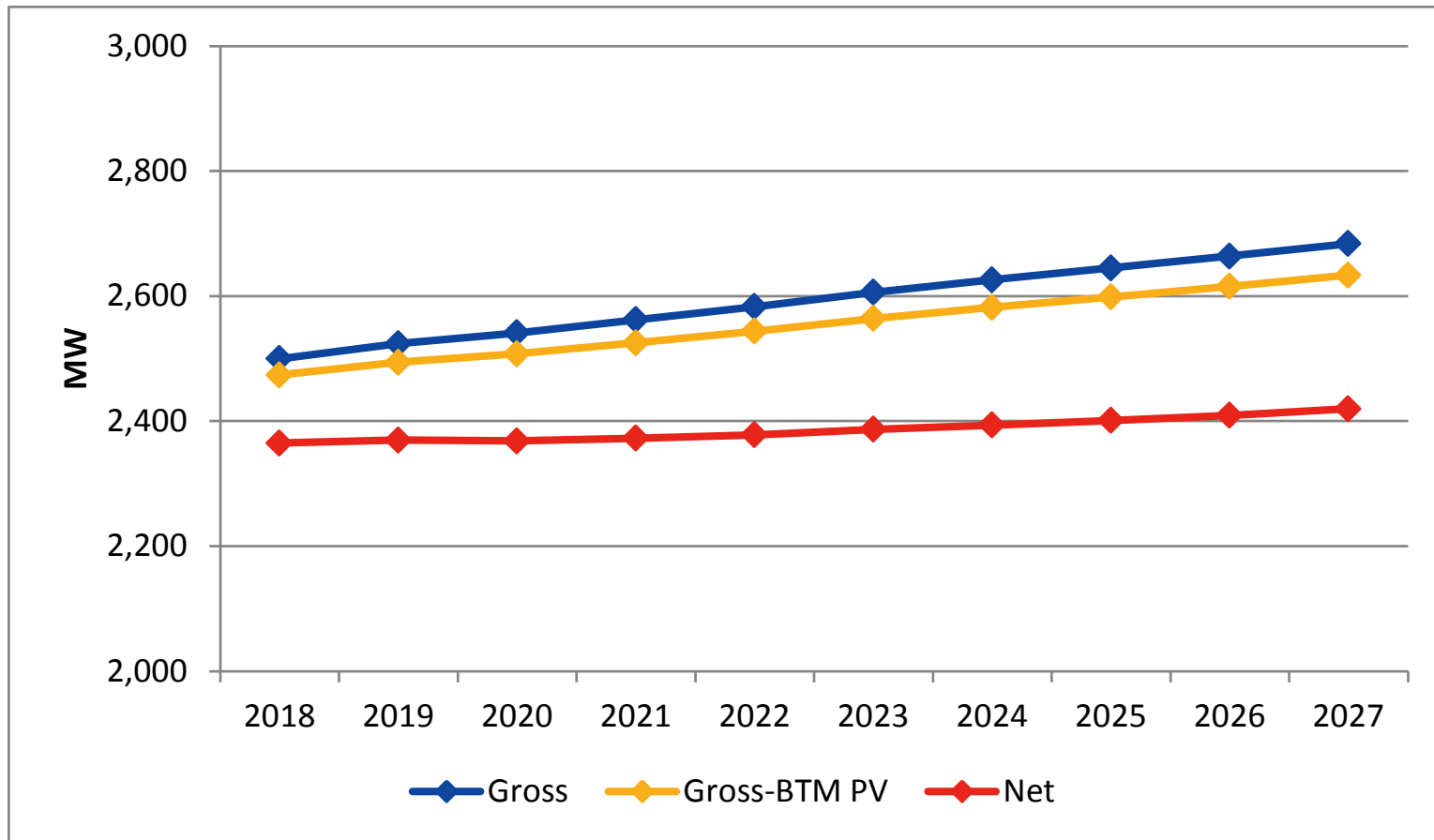
2018 (-4.2%, -110 MW)

2022 (-4.9%, -133 MW)

2026 (-5.6%, -158 MW)

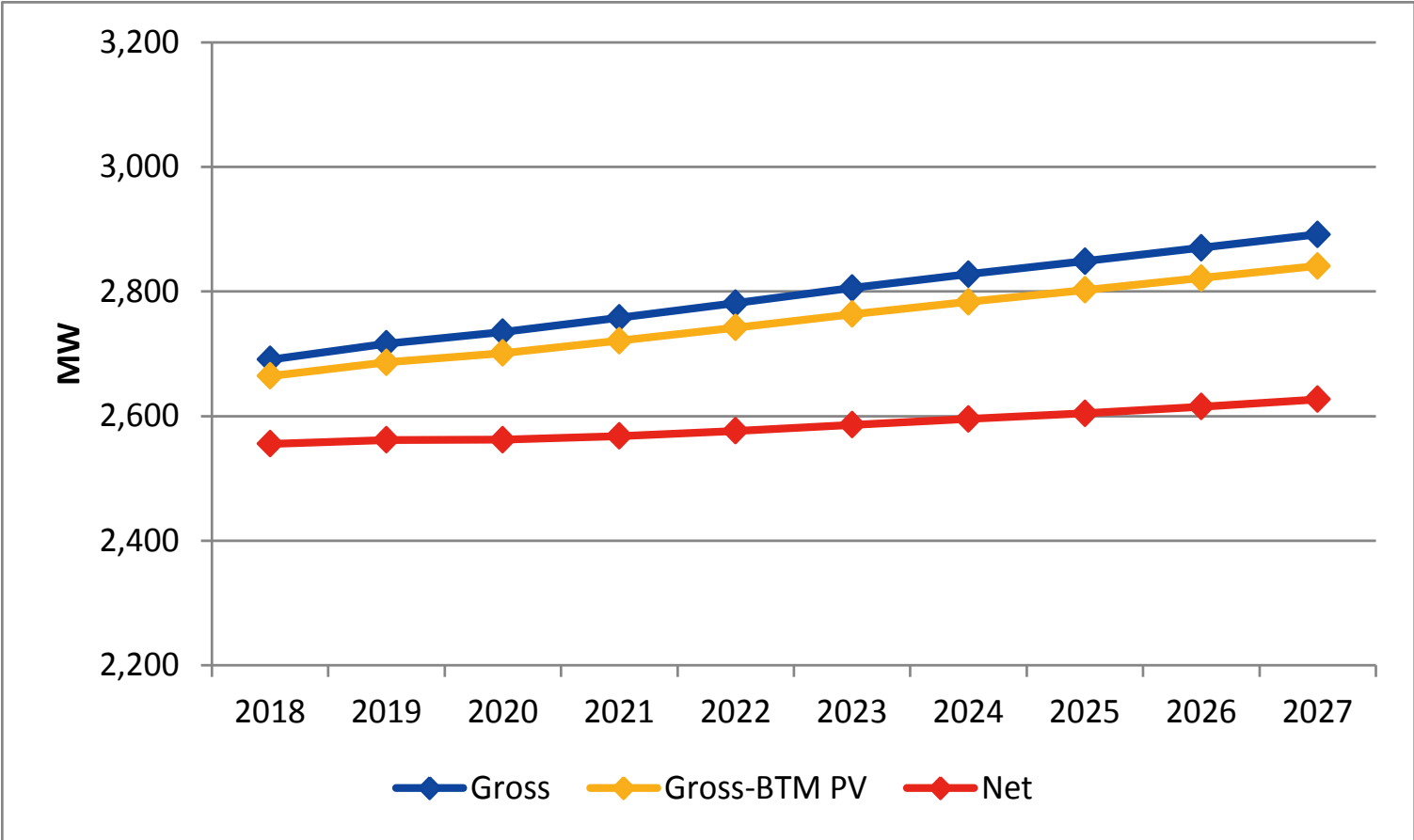
Draft 2018 CELT Summer 50/50 Peak Demand Forecast

New Hampshire



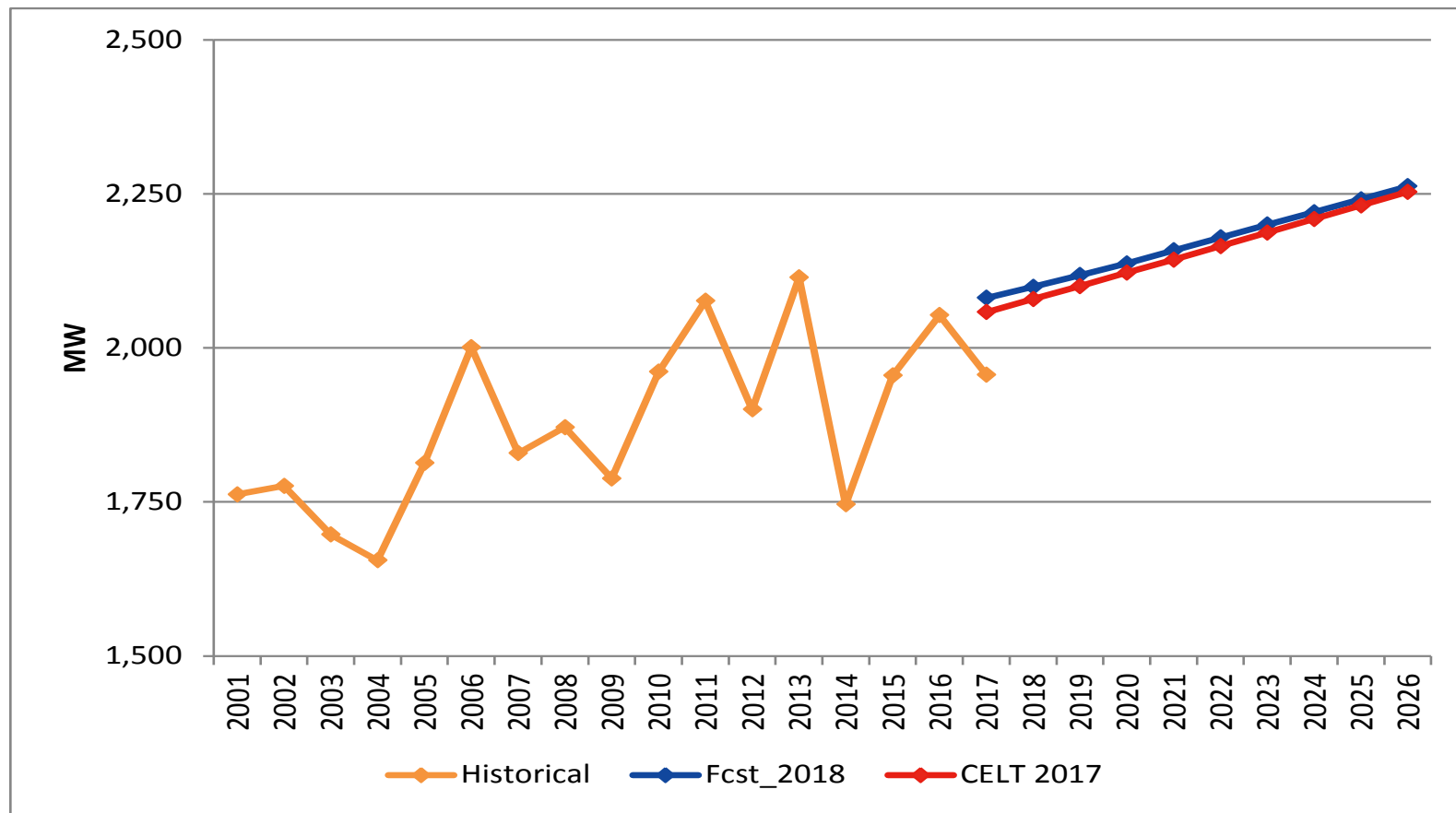
Draft 2018 CELT Summer 90/10 Peak Demand Forecast

New Hampshire



2018 CELT Gross Summer 50/50 Peak Demand Forecast

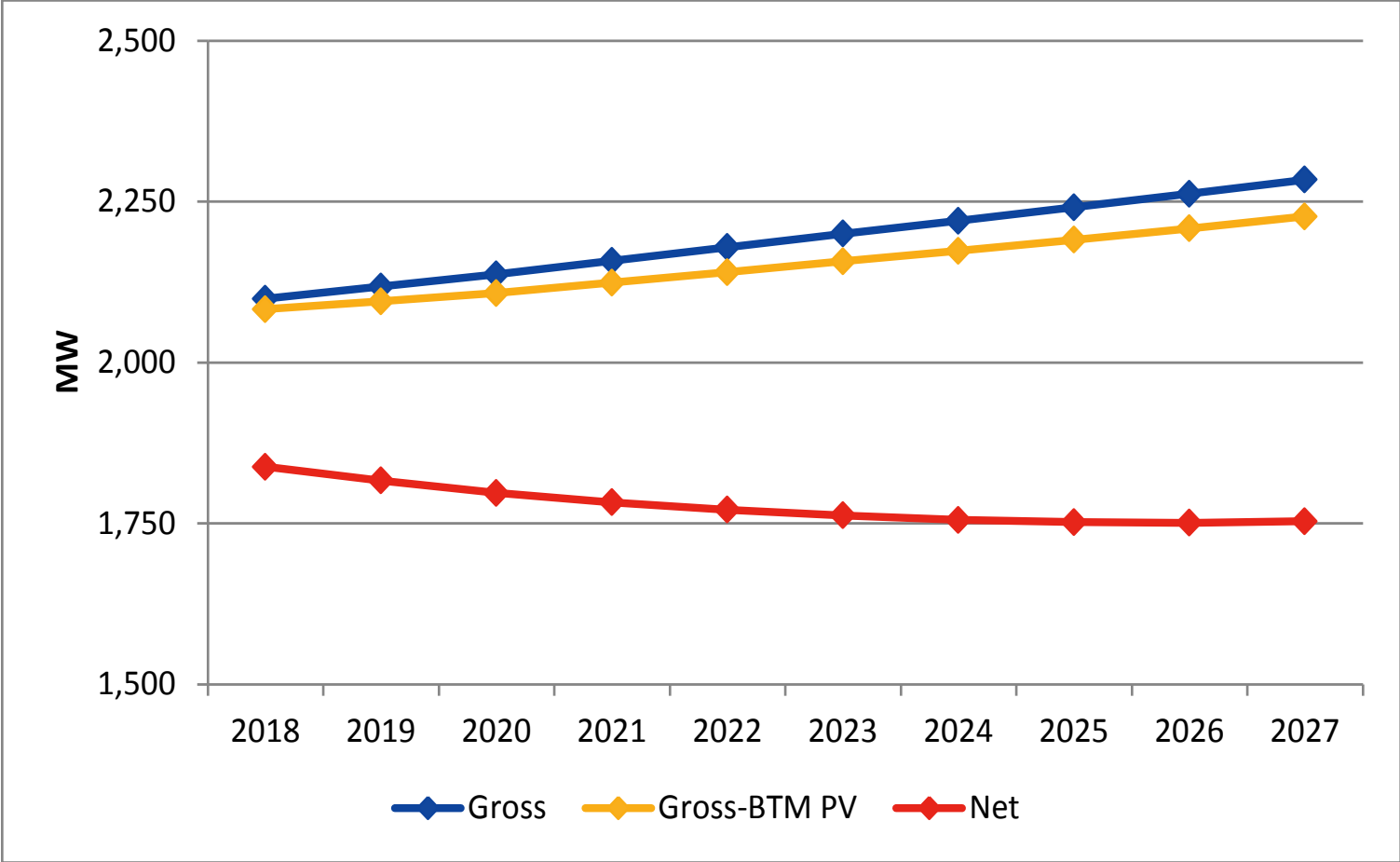
Rhode Island



2018 (1.0%, 20 MW) 2022 (0.6%, 14 MW) 2026 (0.4%, 9 MW)

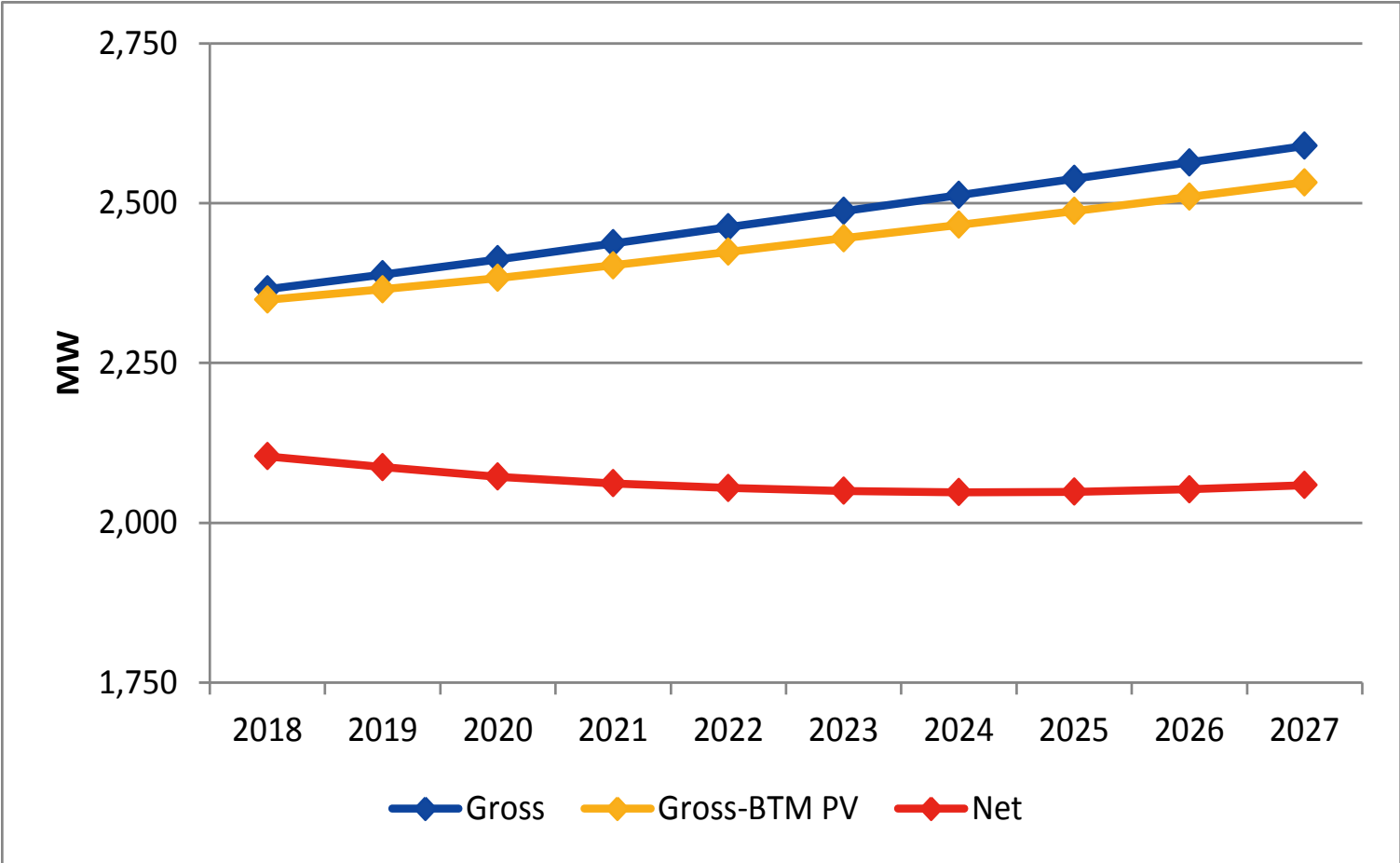
Draft 2018 CELT Summer 50/50 Peak Demand Forecast

Rhode Island

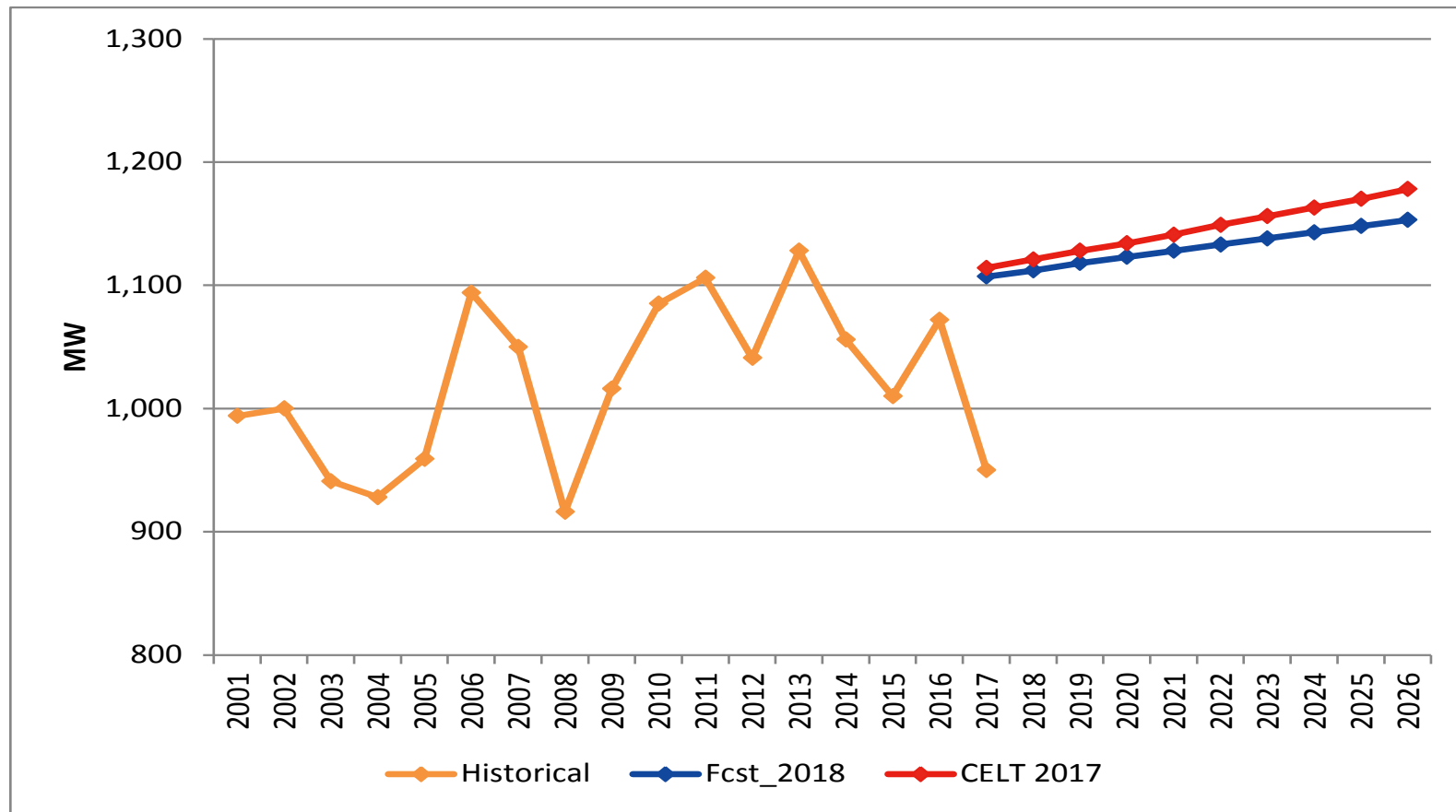


Draft 2018 CELT Summer 90/10 Peak Demand Forecast

Rhode Island



2018 CELT Gross Summer 50/50 Peak Demand Forecast Vermont



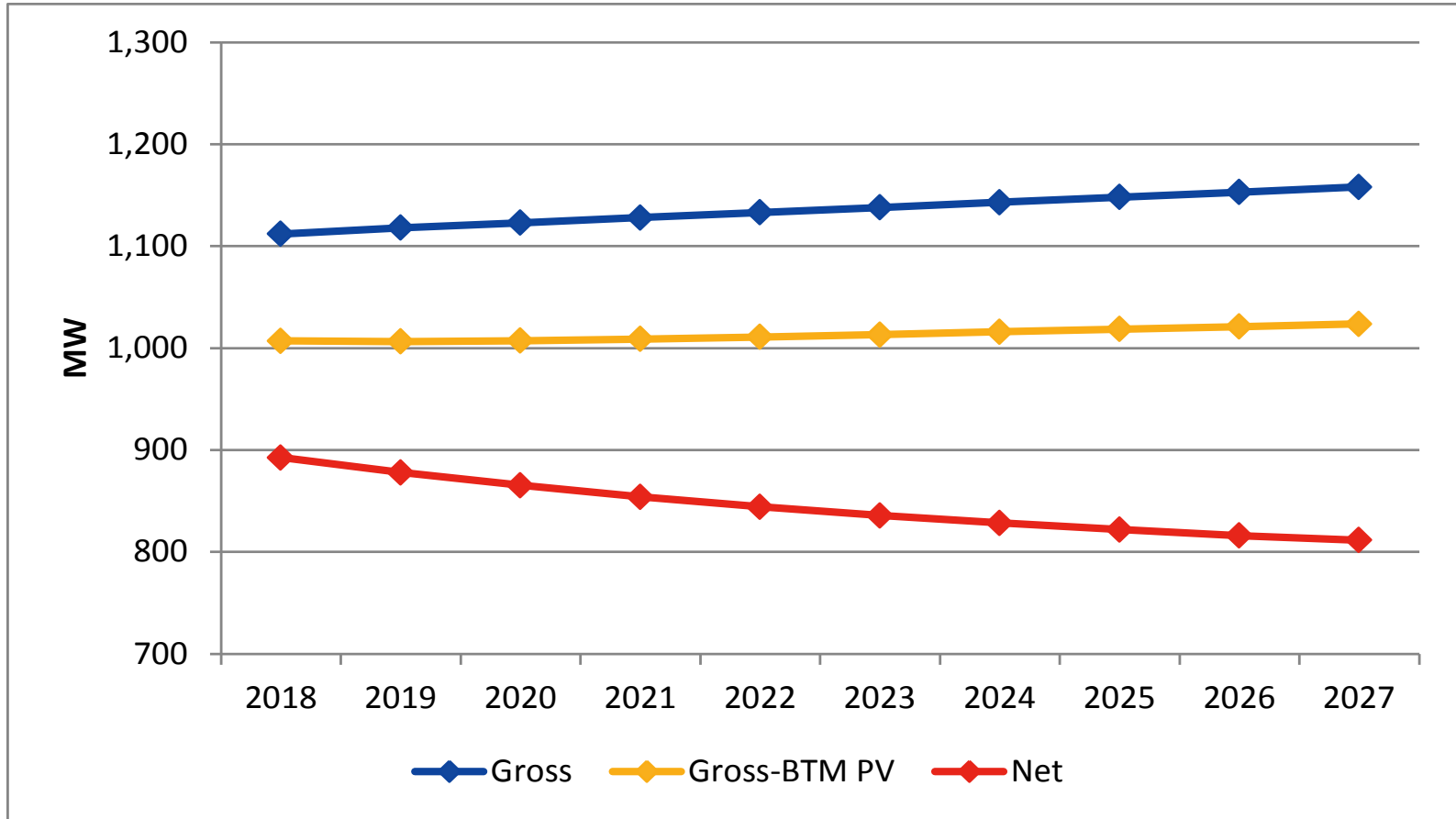
2018 (-0.7%, -8 MW)

2022 (-1.4%, -16 MW)

2026 (-2.1%, -25 MW)

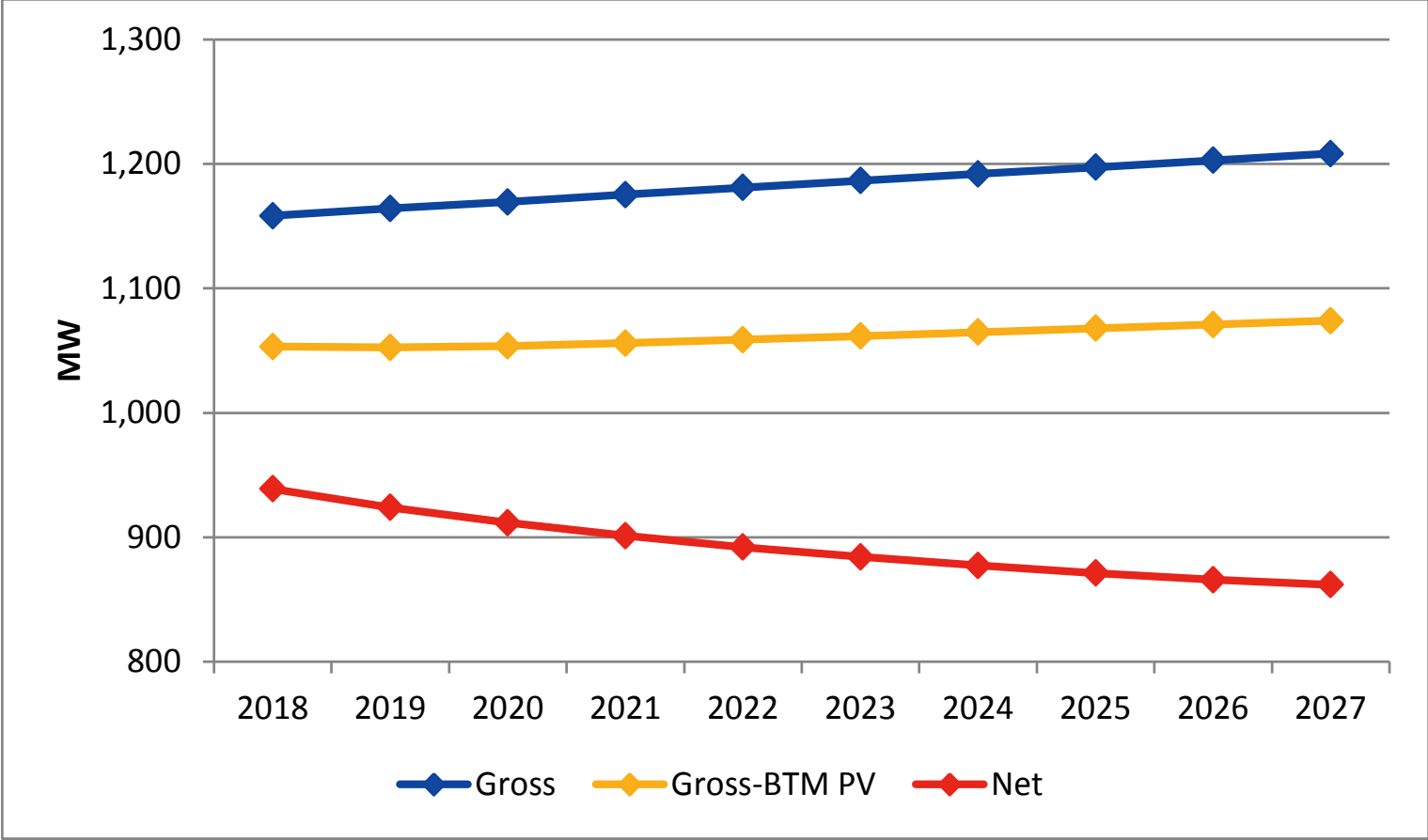
Draft 2018 CELT Summer 50/50 Peak Demand Forecast

Vermont



Draft 2018 CELT Summer 90/10 Peak Demand Forecast

Vermont

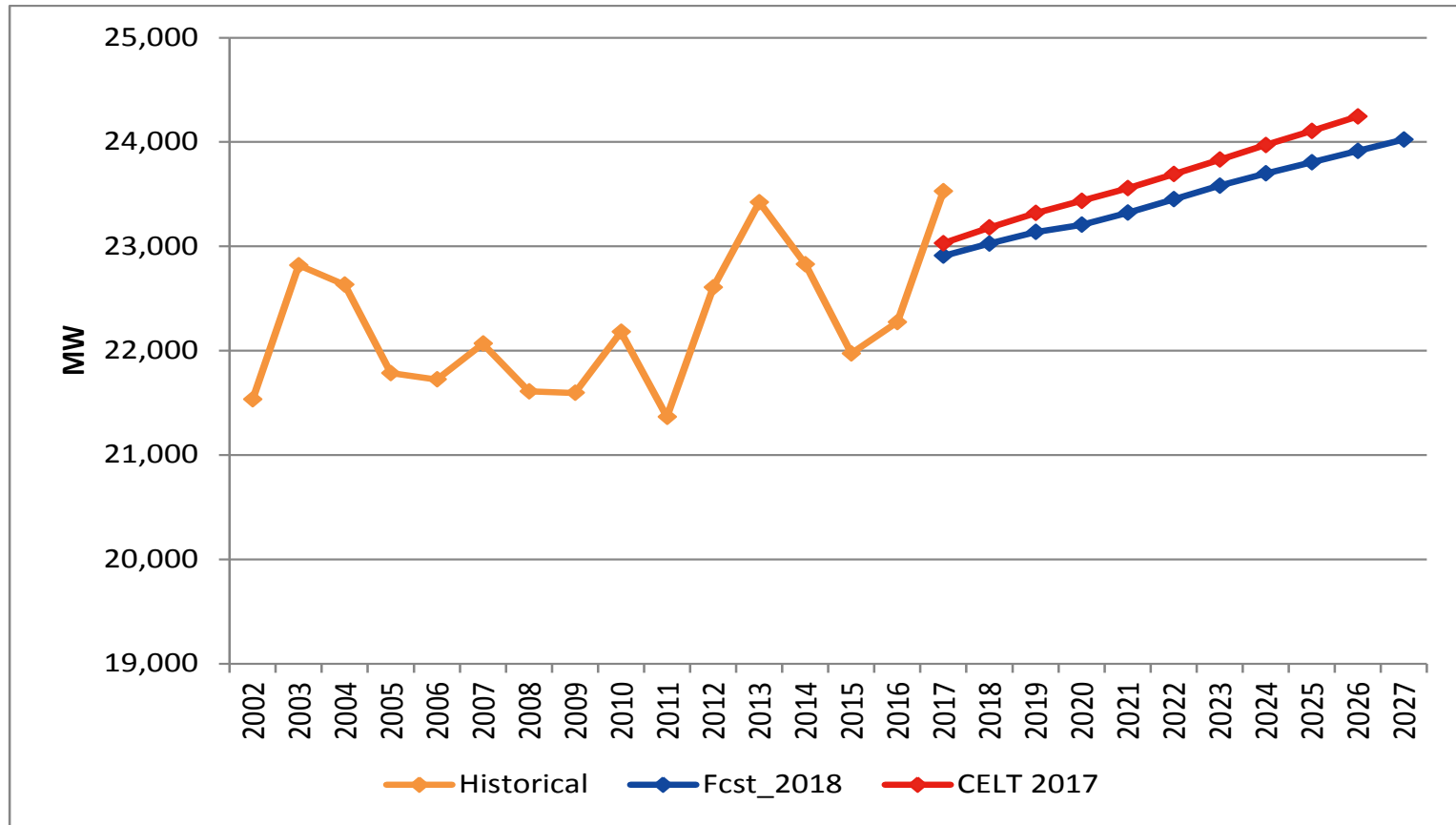


2018 WINTER PEAK DEMAND FORECAST

New England and States

2017 CELT Gross Winter 50/50 Peak Demand Forecast

New England



2018 (-0.7%, -154 MW)

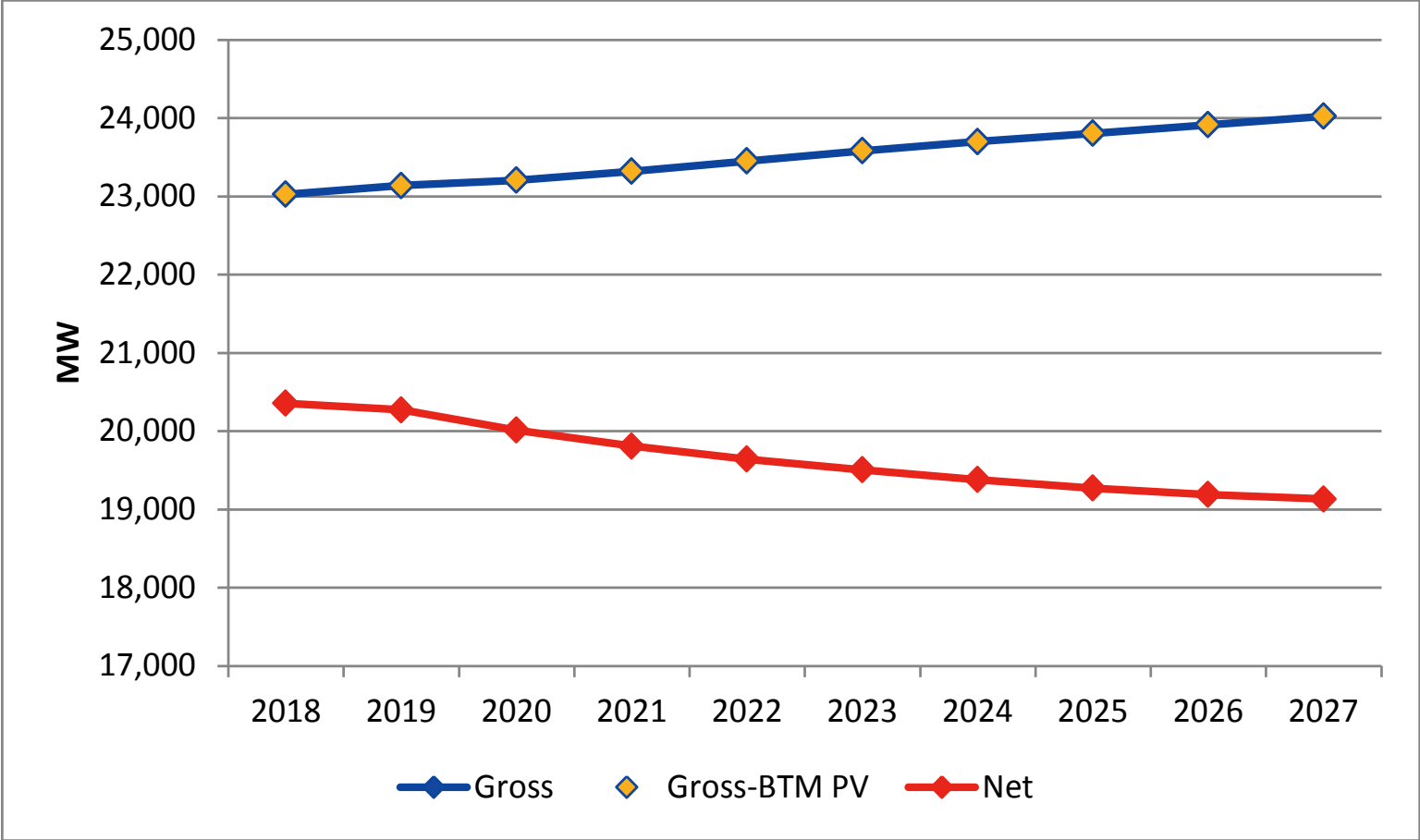
2022 (-1.0%, -241 MW)

2026 (-1.4%, -329 MW)



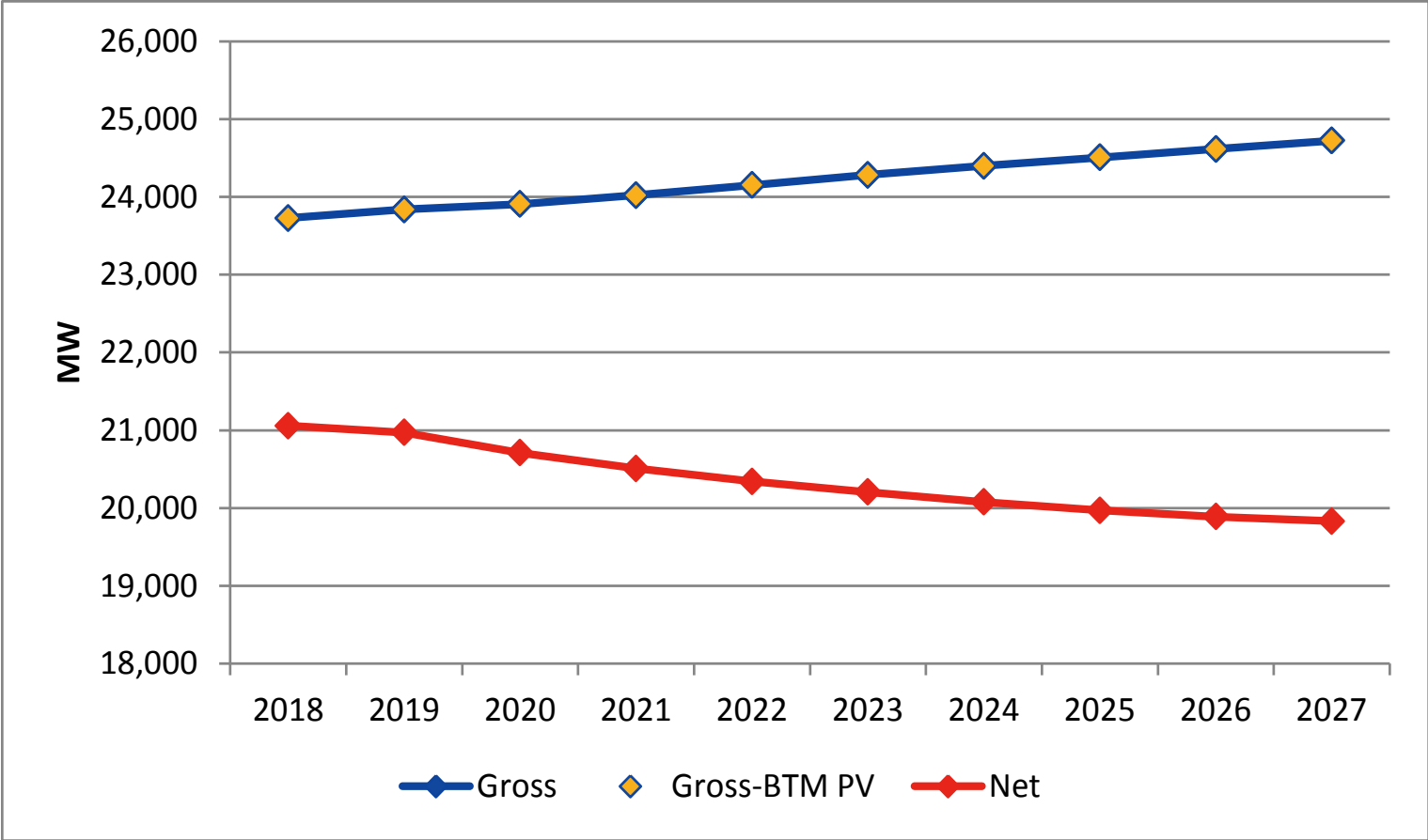
Draft 2018 CELT Winter 50/50 Peak Demand Forecast

New England



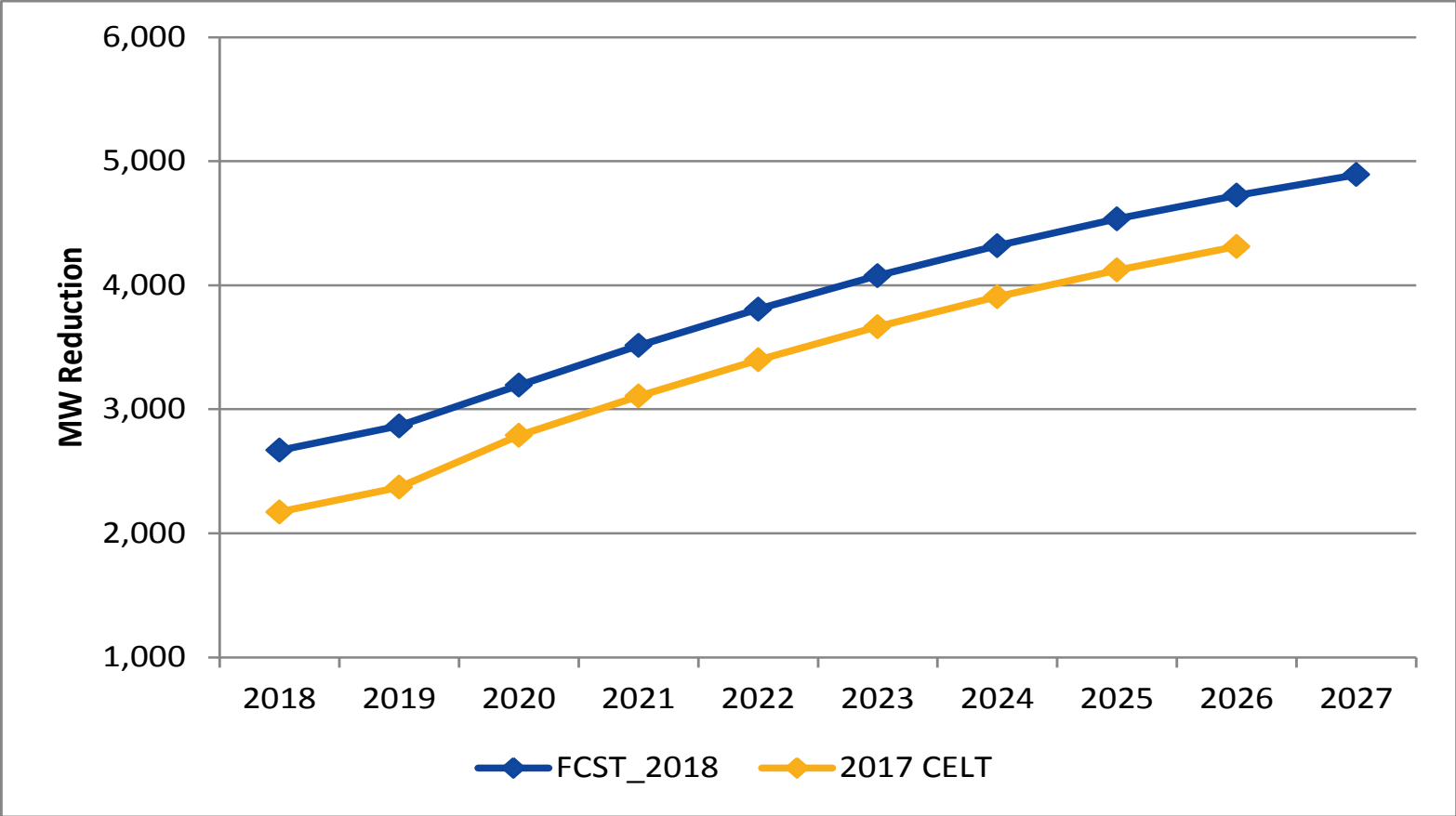
Draft 2018 CELT Winter 90/10 Peak Demand Forecast

New England



Draft 2018 CELT Winter EE Forecast

New England



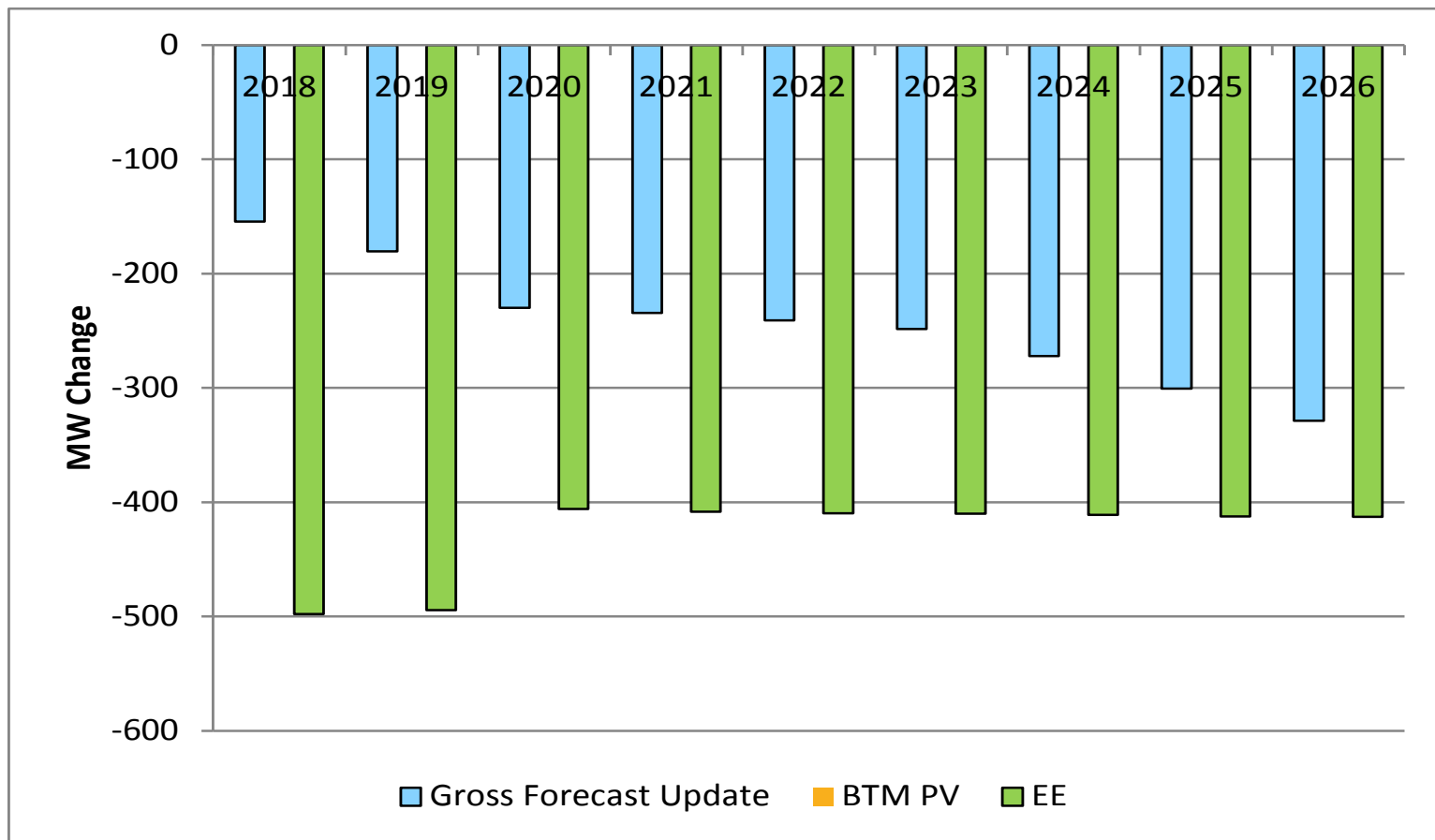
New England Forecast Comparison: Winter Demand

Draft 2018 CELT and 2017 CELT

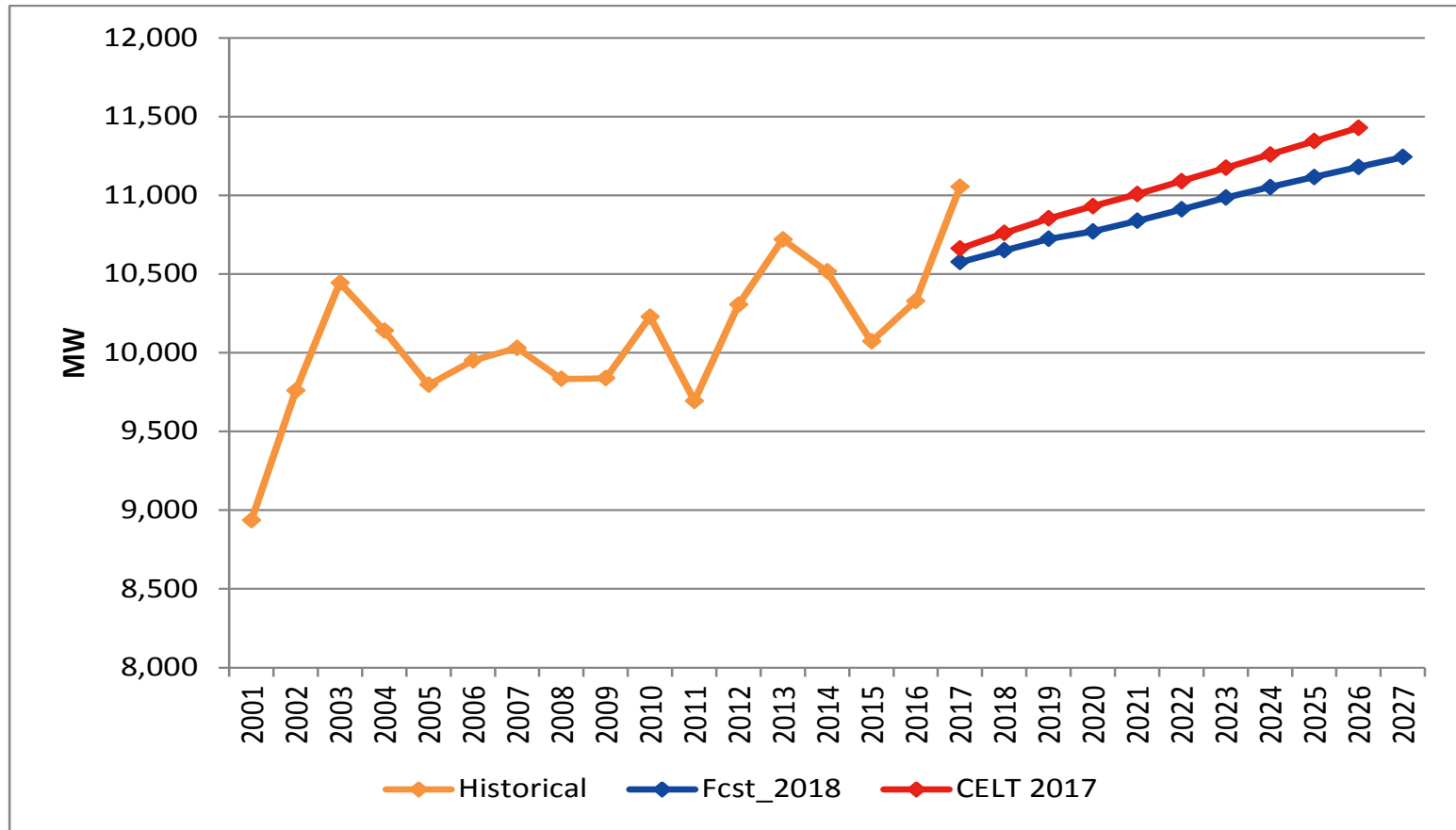
| 2018 CELT (MW) | | | | | | | 2017 CELT (MW) | | | | | | Change (MW) | | | | | |
|----------------|-------------|-------------|--------|------|-----------|-----------|----------------|-------------|--------|-------|-----------|-----------|-------------|-------------|--------|-----|-----------|-----------|
| Year | Gross 50/50 | Gross 90/10 | BTM PV | EE | Net 50/50 | Net 90/10 | Gross 50/50 | Gross 90/10 | BTM PV | EE | Net 50/50 | Net 90/10 | Gross 50/50 | Gross 90/10 | BTM PV | EE | Net 50/50 | Net 90/10 |
| 2018 | 23,026 | 23,725 | 0 | 2669 | 20,357 | 21,057 | 23,180 | 23,878 | 0 | 2,171 | 21,009 | 21,707 | -154 | -153 | 0 | 498 | -652 | -650 |
| 2019 | 23,138 | 23,837 | 0 | 2865 | 20,272 | 20,972 | 23,318 | 24,017 | 0 | 2,371 | 20,947 | 21,646 | -180 | -180 | 0 | 494 | -675 | -674 |
| 2020 | 23,206 | 23,906 | 0 | 3194 | 20,012 | 20,712 | 23,436 | 24,135 | 0 | 2,788 | 20,648 | 21,347 | -230 | -229 | 0 | 406 | -636 | -635 |
| 2021 | 23,322 | 24,021 | 0 | 3513 | 19,808 | 20,508 | 23,556 | 24,255 | 0 | 3,105 | 20,451 | 21,150 | -234 | -234 | 0 | 408 | -643 | -642 |
| 2022 | 23,450 | 24,150 | 0 | 3808 | 19,642 | 20,342 | 23,691 | 24,389 | 0 | 3,398 | 20,293 | 20,991 | -241 | -239 | 0 | 410 | -651 | -649 |
| 2023 | 23,581 | 24,281 | 0 | 4076 | 19,505 | 20,205 | 23,830 | 24,529 | 0 | 3,666 | 20,164 | 20,863 | -249 | -248 | 0 | 410 | -659 | -658 |
| 2024 | 23,698 | 24,397 | 0 | 4318 | 19,380 | 20,079 | 23,970 | 24,668 | 0 | 3,907 | 20,063 | 20,761 | -272 | -271 | 0 | 411 | -683 | -682 |
| 2025 | 23,805 | 24,505 | 0 | 4534 | 19,271 | 19,971 | 24,106 | 24,805 | 0 | 4,122 | 19,984 | 20,683 | -301 | -300 | 0 | 412 | -713 | -712 |
| 2026 | 23,915 | 24,615 | 0 | 4725 | 19,190 | 19,890 | 24,244 | 24,942 | 0 | 4,312 | 19,932 | 20,630 | -329 | -327 | 0 | 413 | -742 | -740 |
| 2027 | 24,024 | 24,723 | 0 | 4891 | 19,133 | 19,833 | | | | | | | | | | | | |

Change in Winter Peak Net Load by Component

Draft 2018 CELT and 2017 CELT



2018 CELT Gross Winter 50/50 Peak Demand Forecast Massachusetts



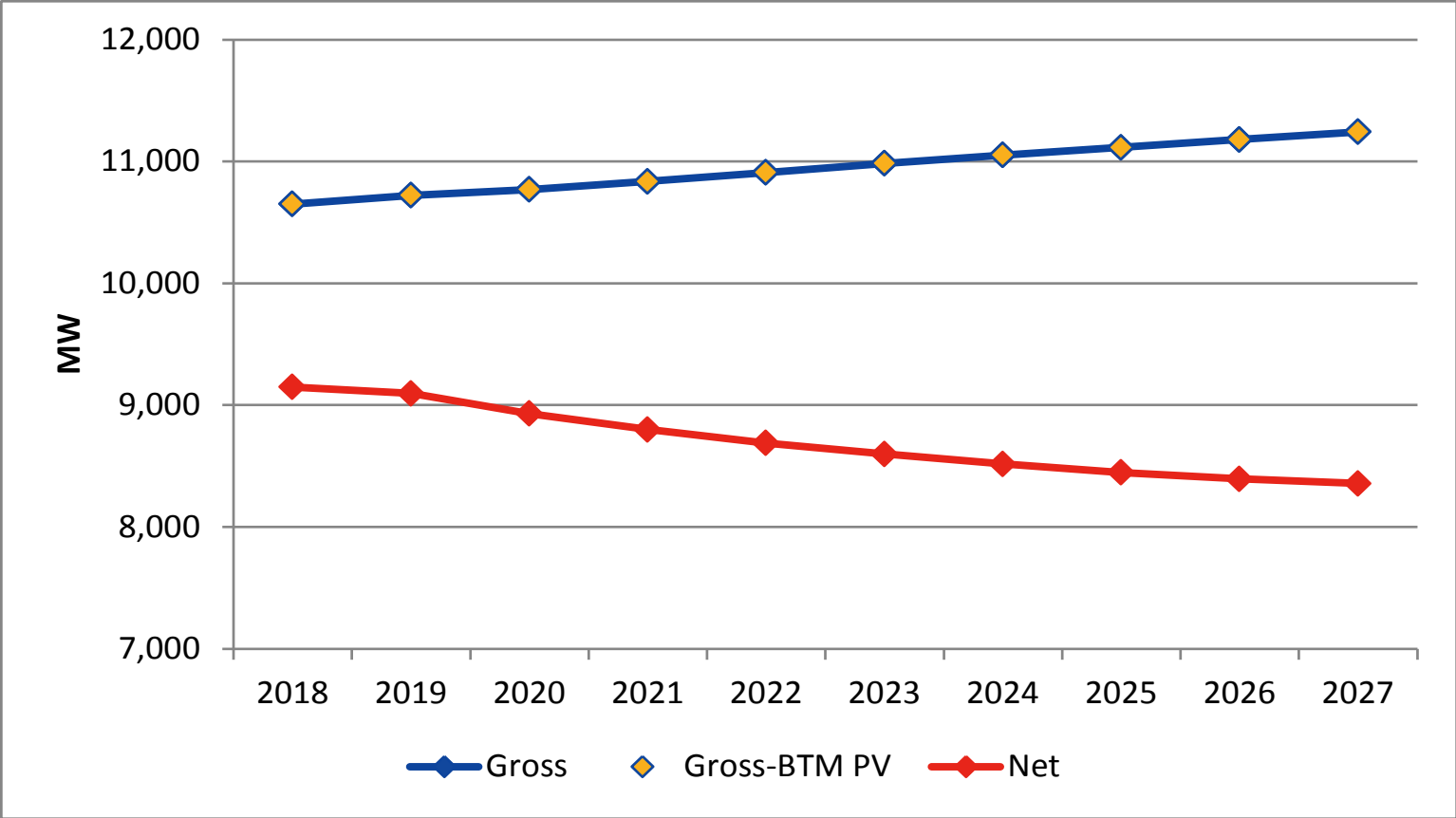
2018 (-1.0%, -108 MW)

2022 (-1.6%, -178 MW)

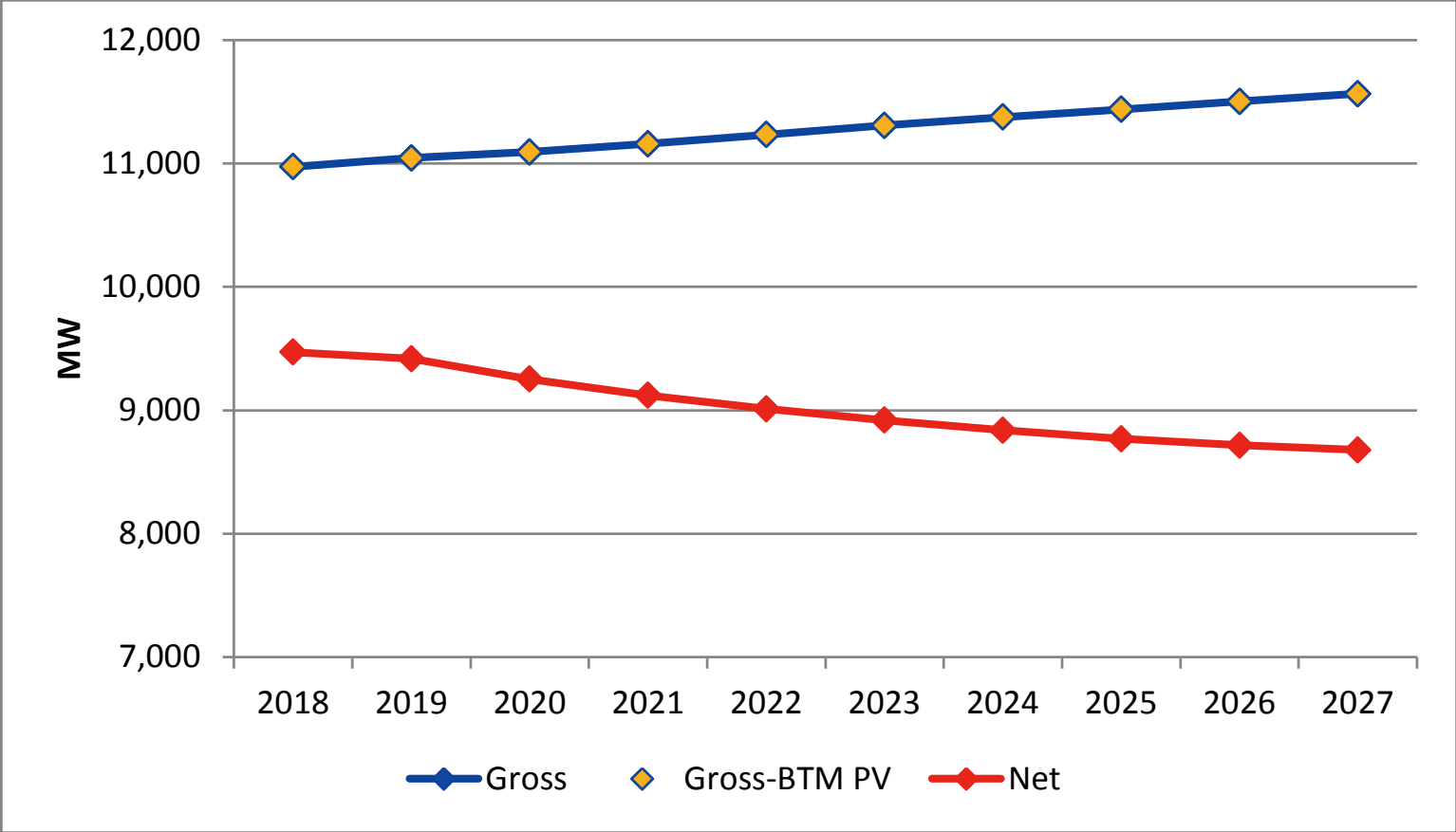
2026 (-2.2%, -248 MW)

Draft 2018 CELT Winter 50/50 Peak Demand Forecast

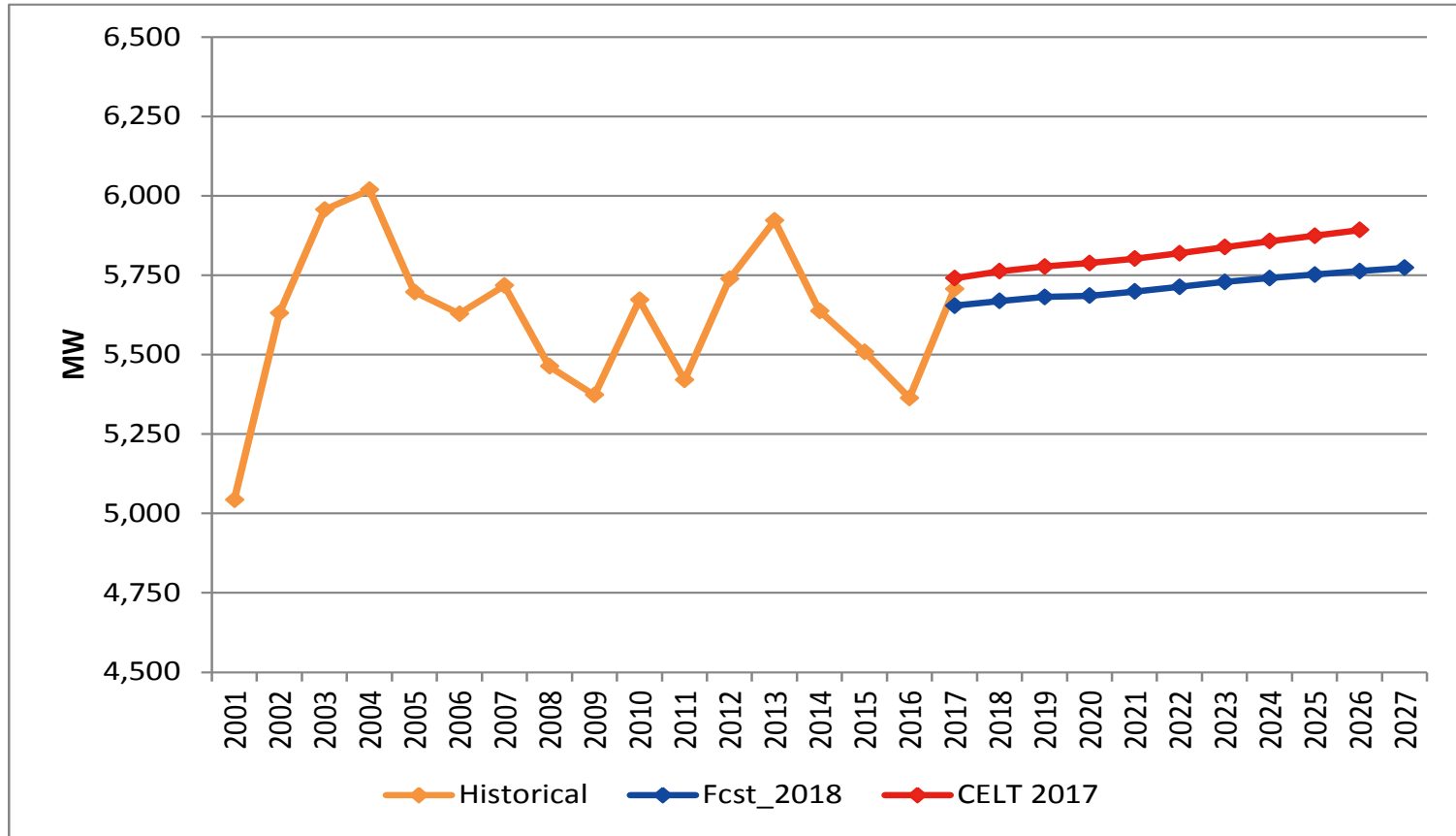
Massachusetts



Draft 2018 CELT Winter 90/10 Peak Demand Forecast *Massachusetts*



2018 CELT Gross Winter 50/50 Peak Demand Forecast Connecticut



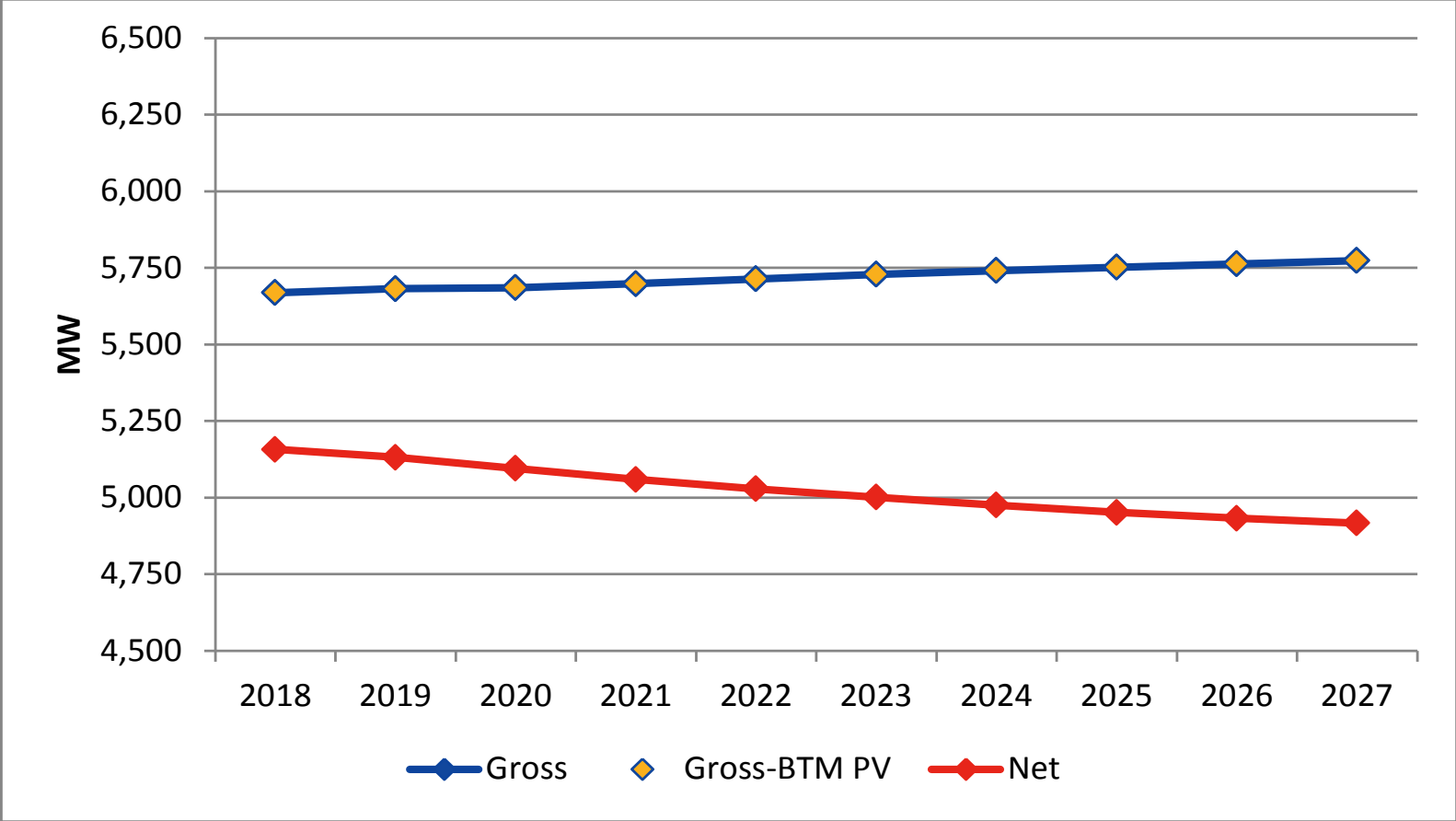
2018 (-1.6%, -93 MW)

2022 (-1.8%, -105 MW)

2026 (-2.2%, -129 MW)

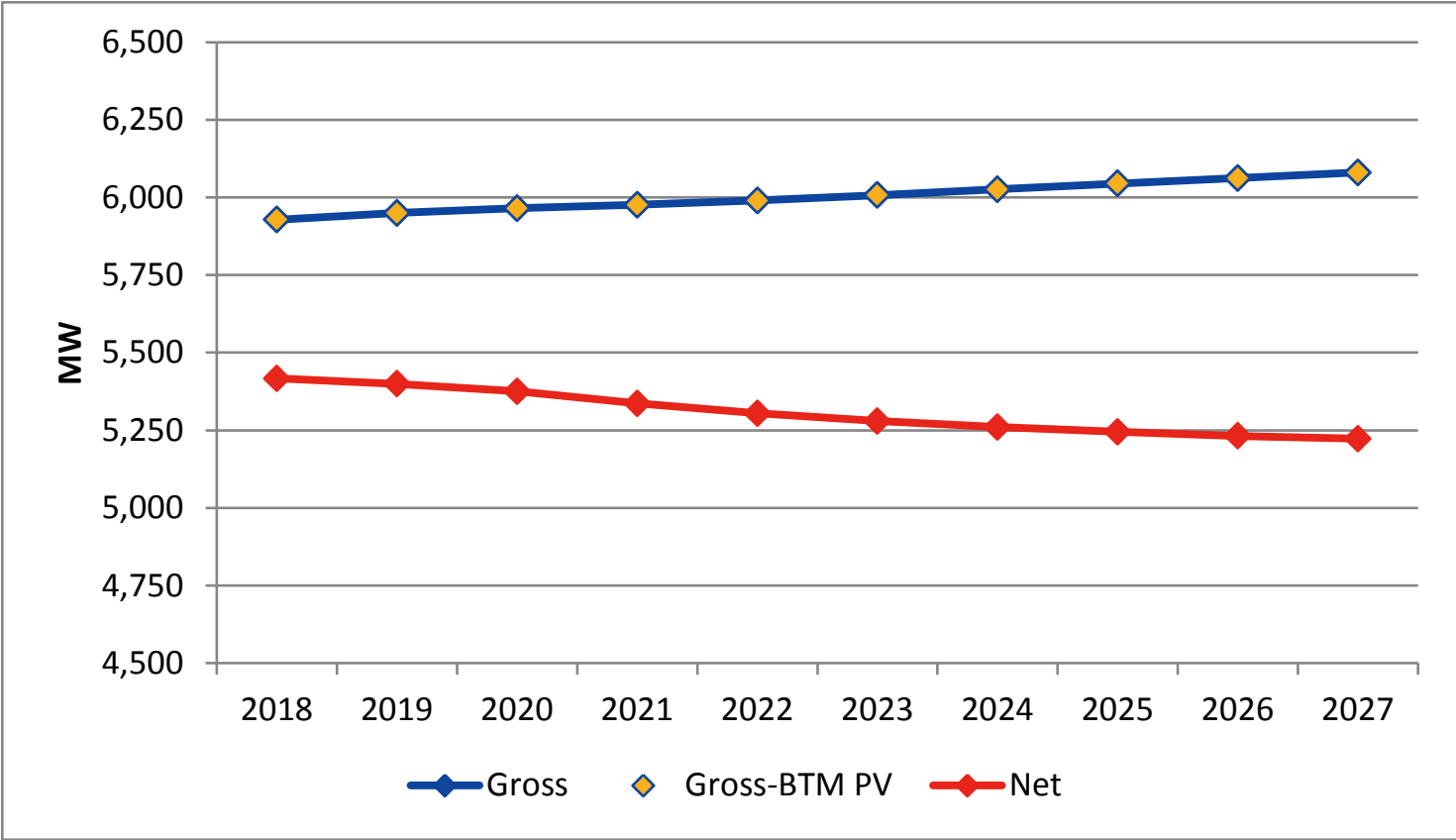
Draft 2018 CELT Winter 50/50 Peak Demand Forecast

Connecticut



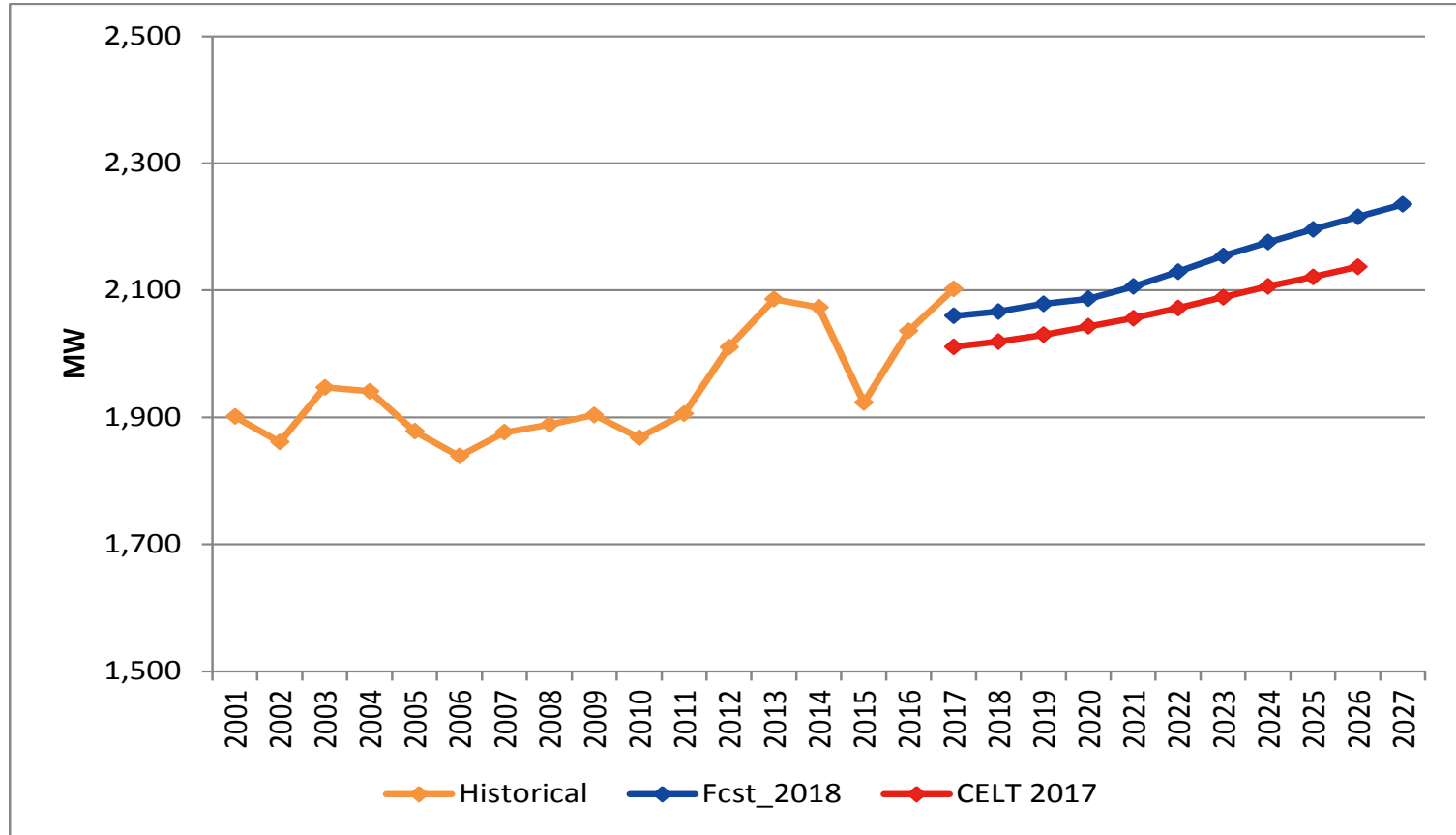
Draft 2018 CELT Winter 90/10 Peak Demand Forecast

Connecticut



2018 CELT Gross Winter 50/50 Peak Demand Forecast

Maine



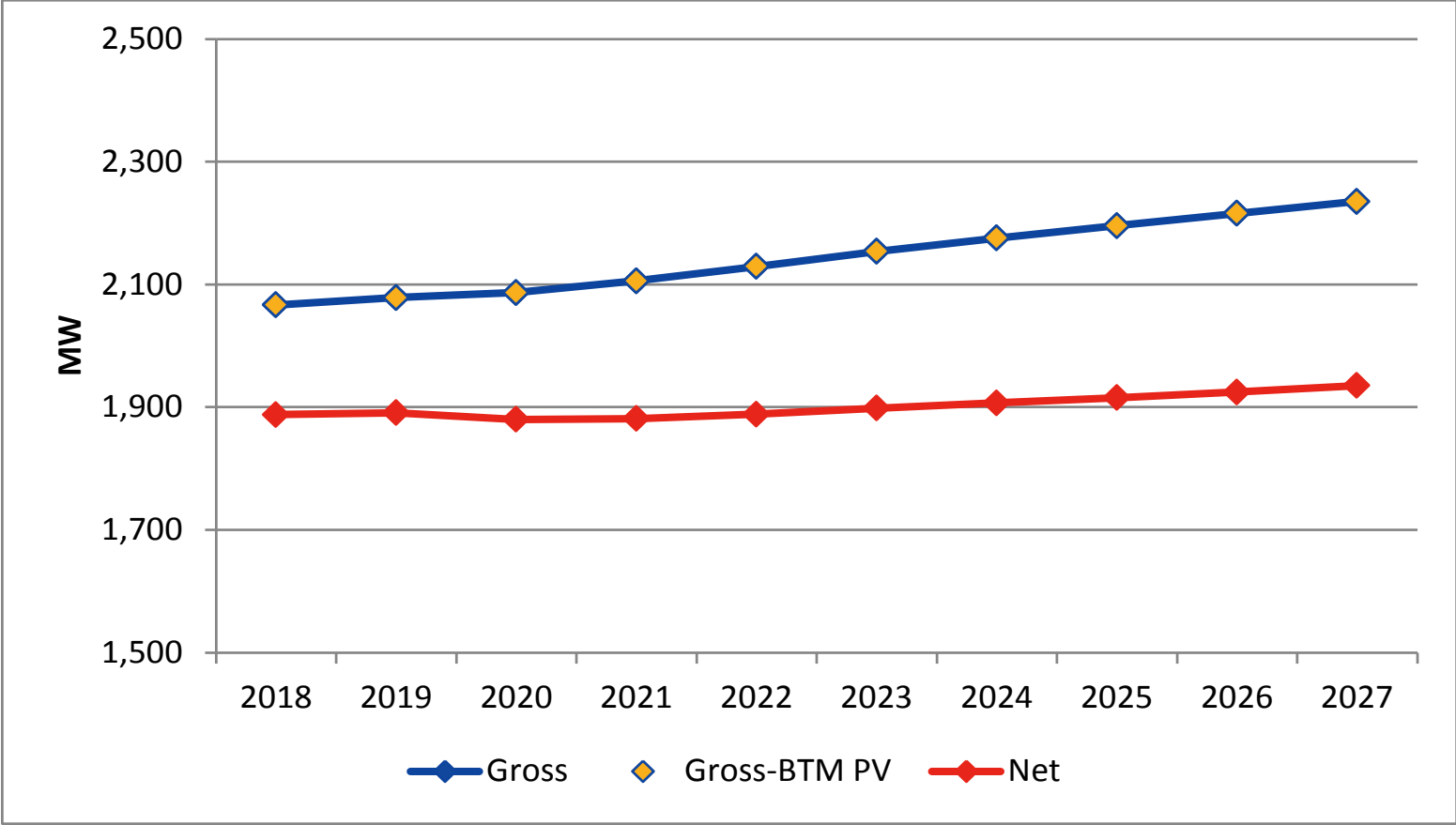
2018 (+2.4%, +48 MW)

2022 (+2.8%, +57 MW)

2026 (+3.7%, +79 MW)

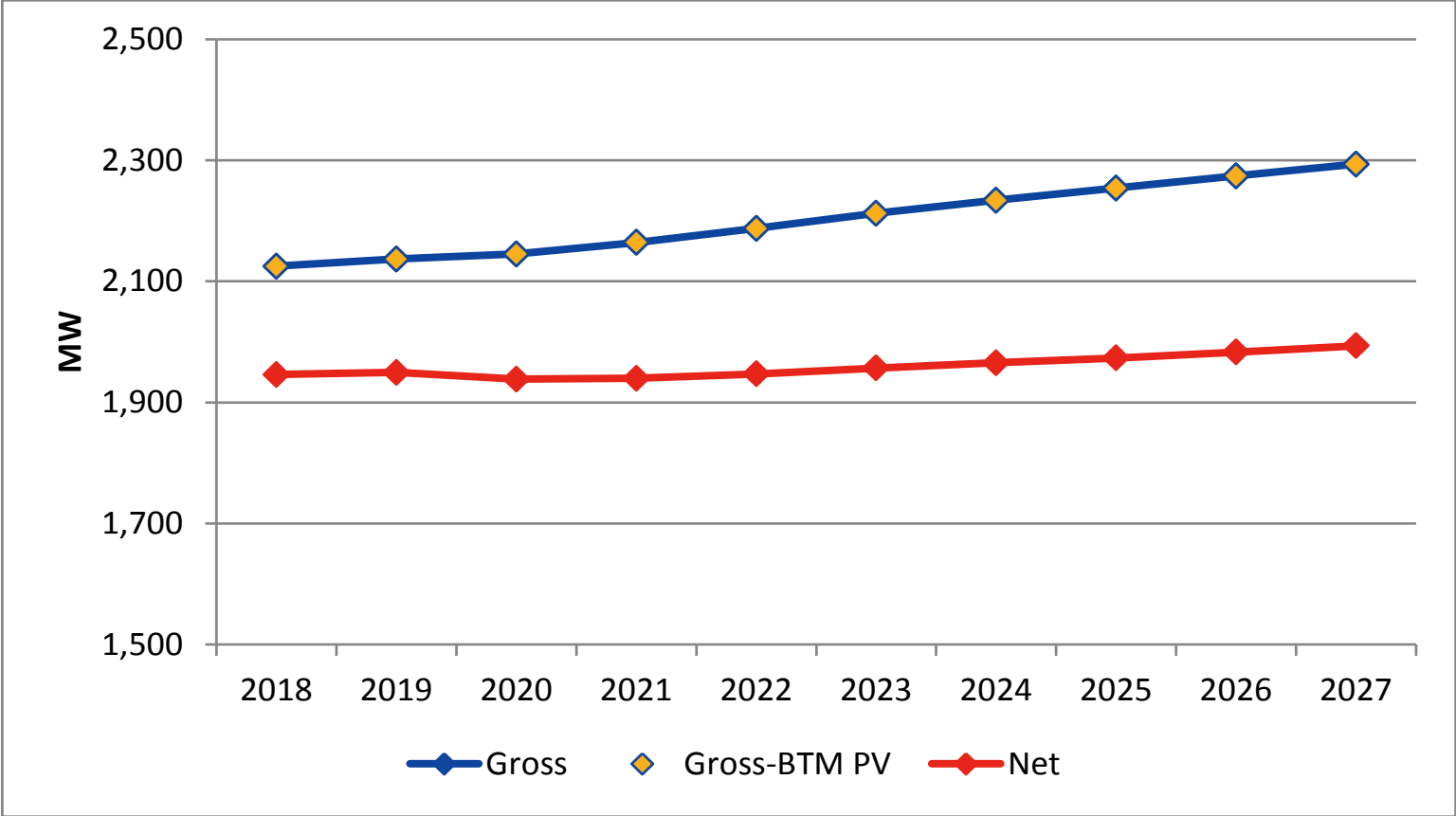
Draft 2018 CELT Winter 50/50 Peak Demand Forecast

Maine



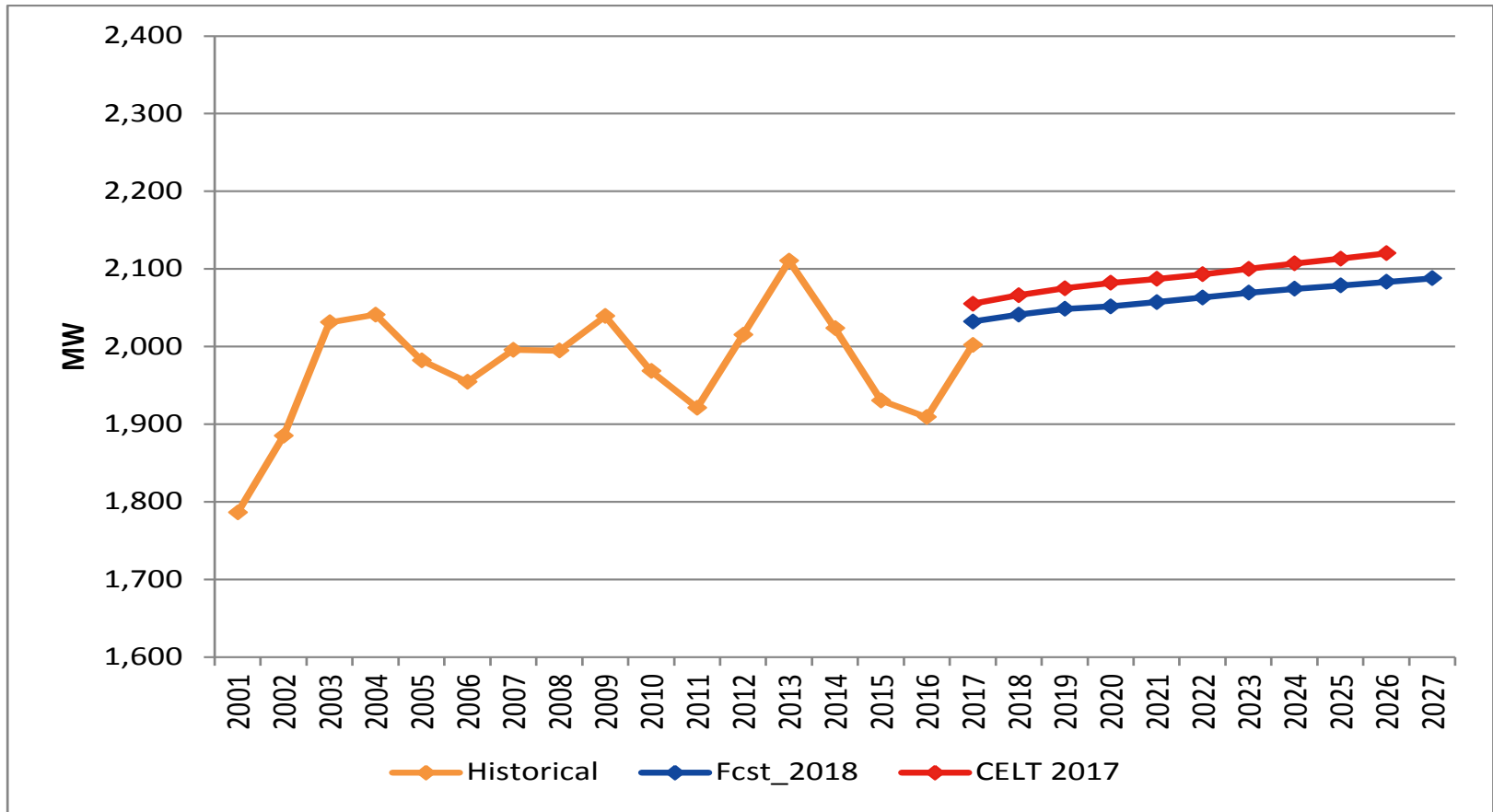
Draft 2018 CELT Winter 90/10 Peak Demand Forecast

Maine



2018 CELT Gross Winter 50/50 Peak Demand Forecast

New Hampshire



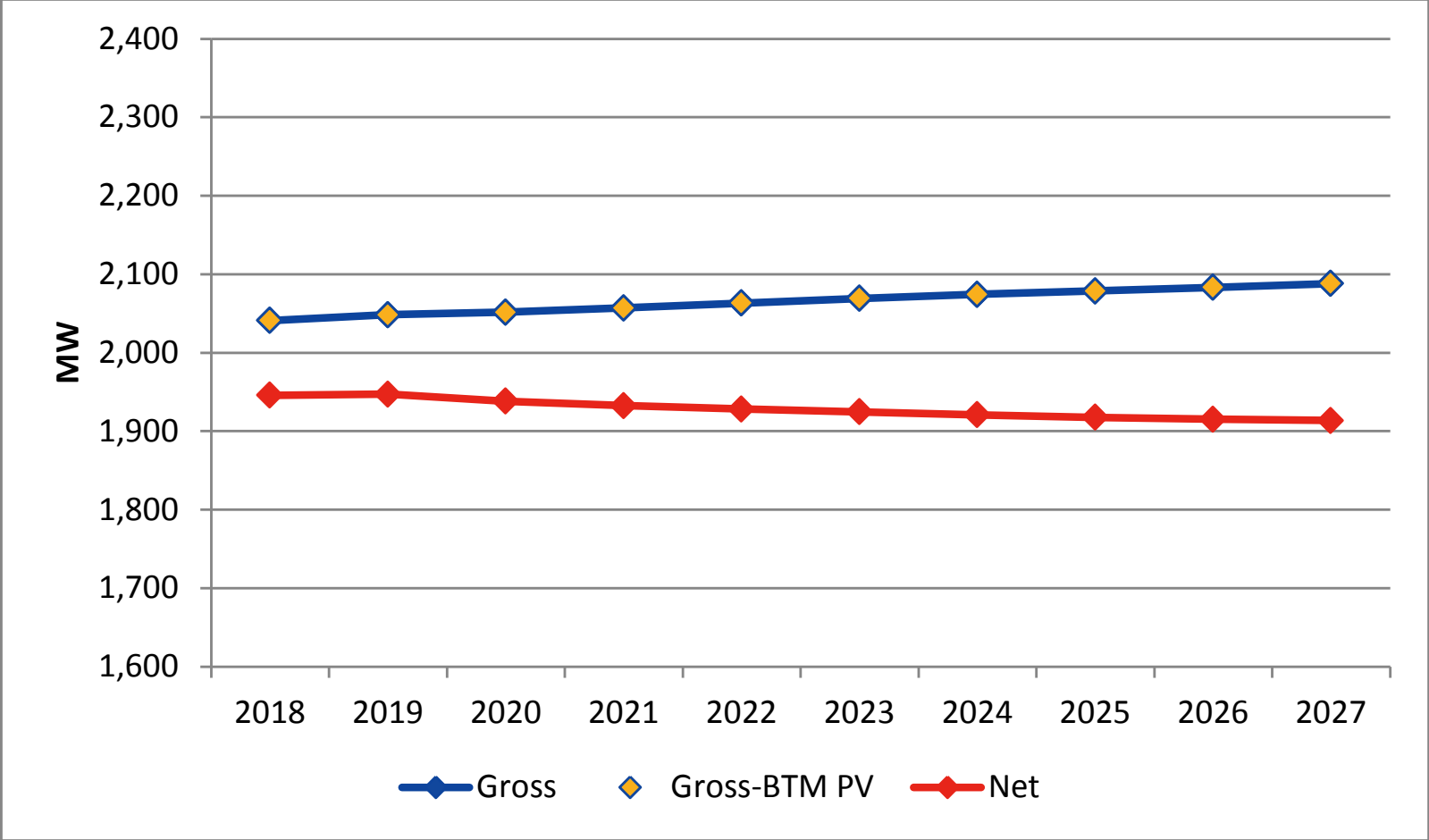
2018 (-1.2%, -25 MW)

2022 (-1.4%, -30 MW)

2026 (-1.7%, -37 MW)

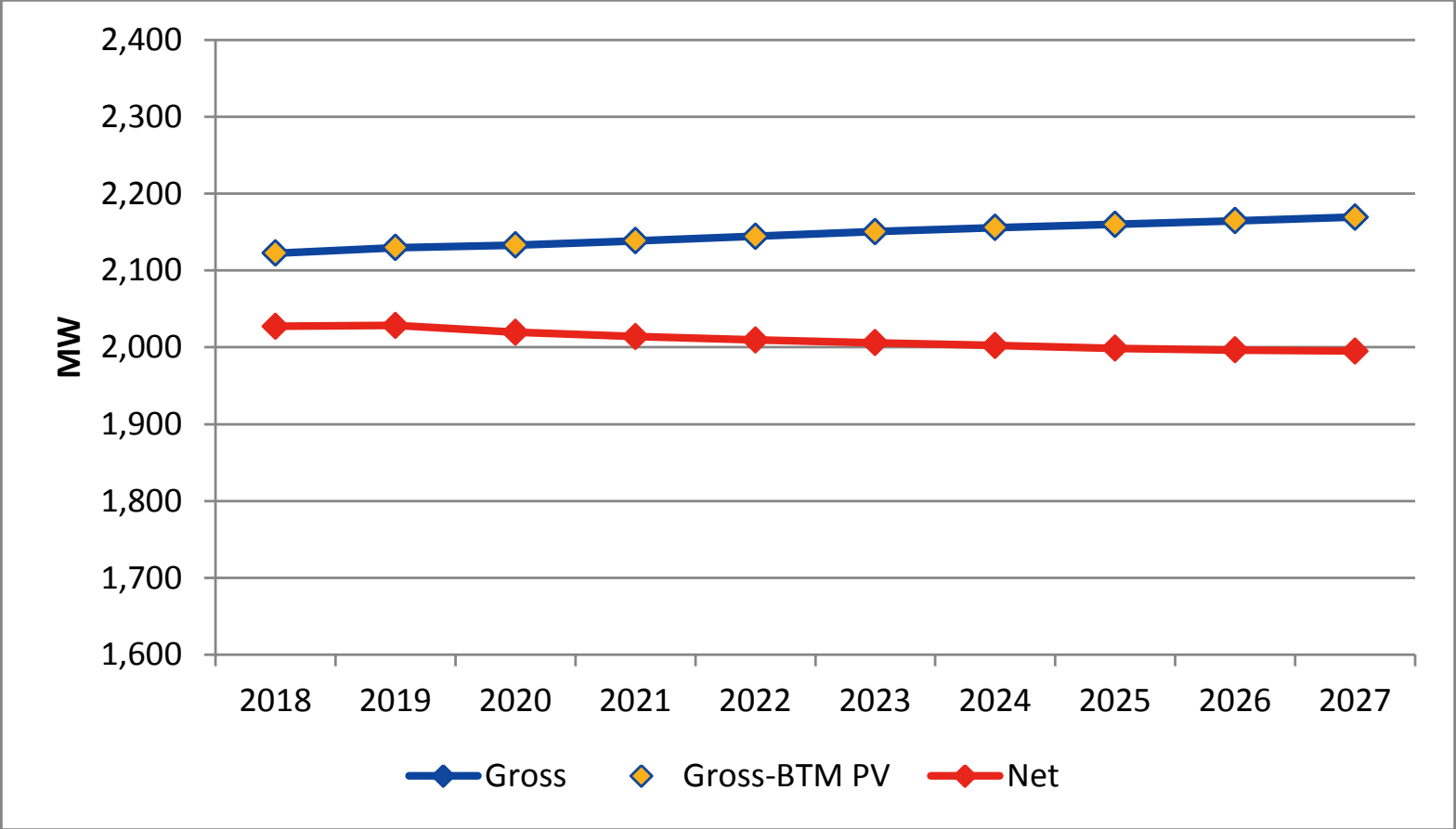
Draft 2018 CELT Winter 50/50 Peak Demand Forecast

New Hampshire

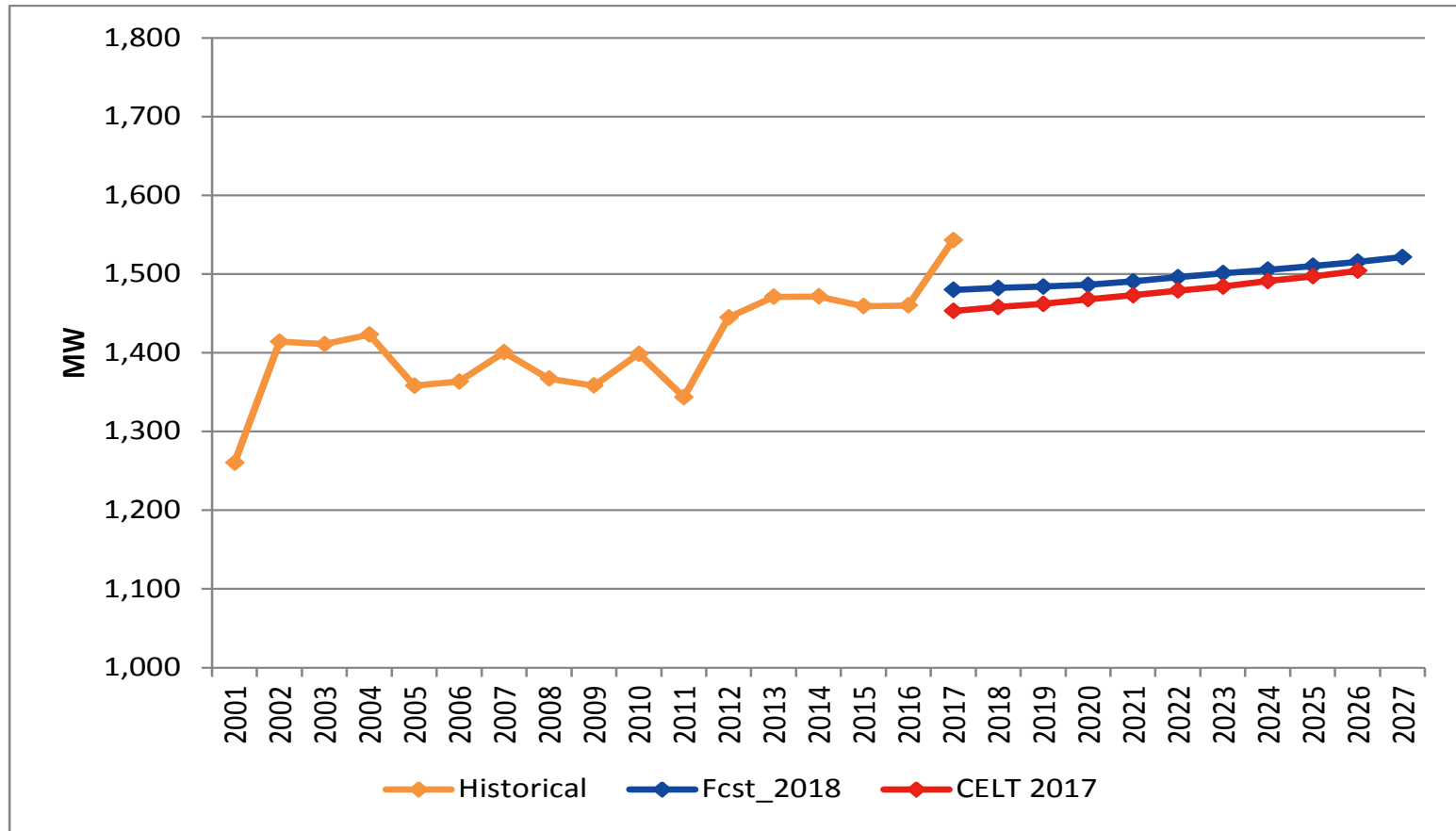


Draft 2018 CELT Winter 90/10 Peak Demand Forecast

New Hampshire



2018 CELT Gross Winter 50/50 Peak Demand Forecast Rhode Island



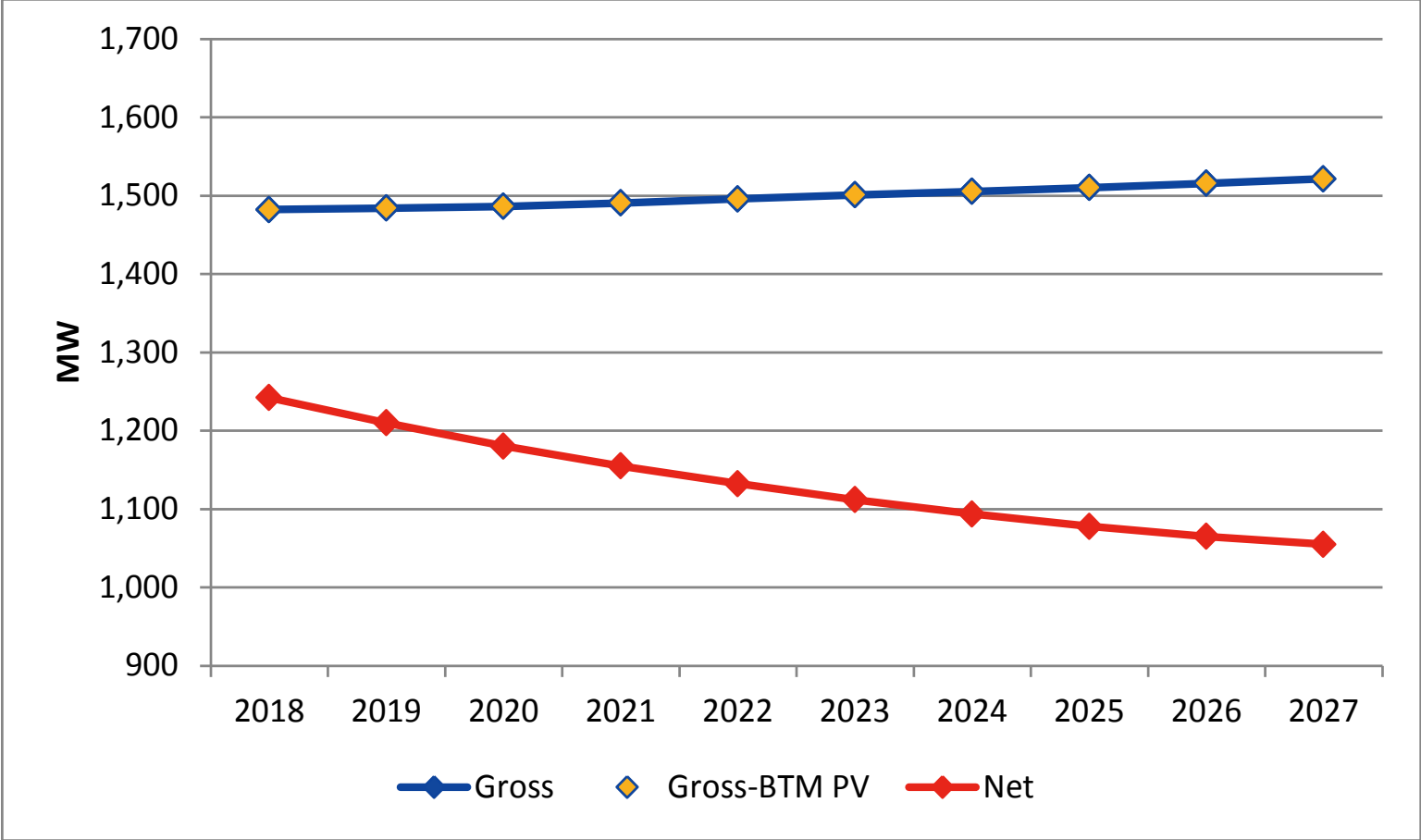
2018 (+1.7%, +24 MW)

2022 (+1.2%, +17 MW)

2026 (+0.8%, +12 MW)

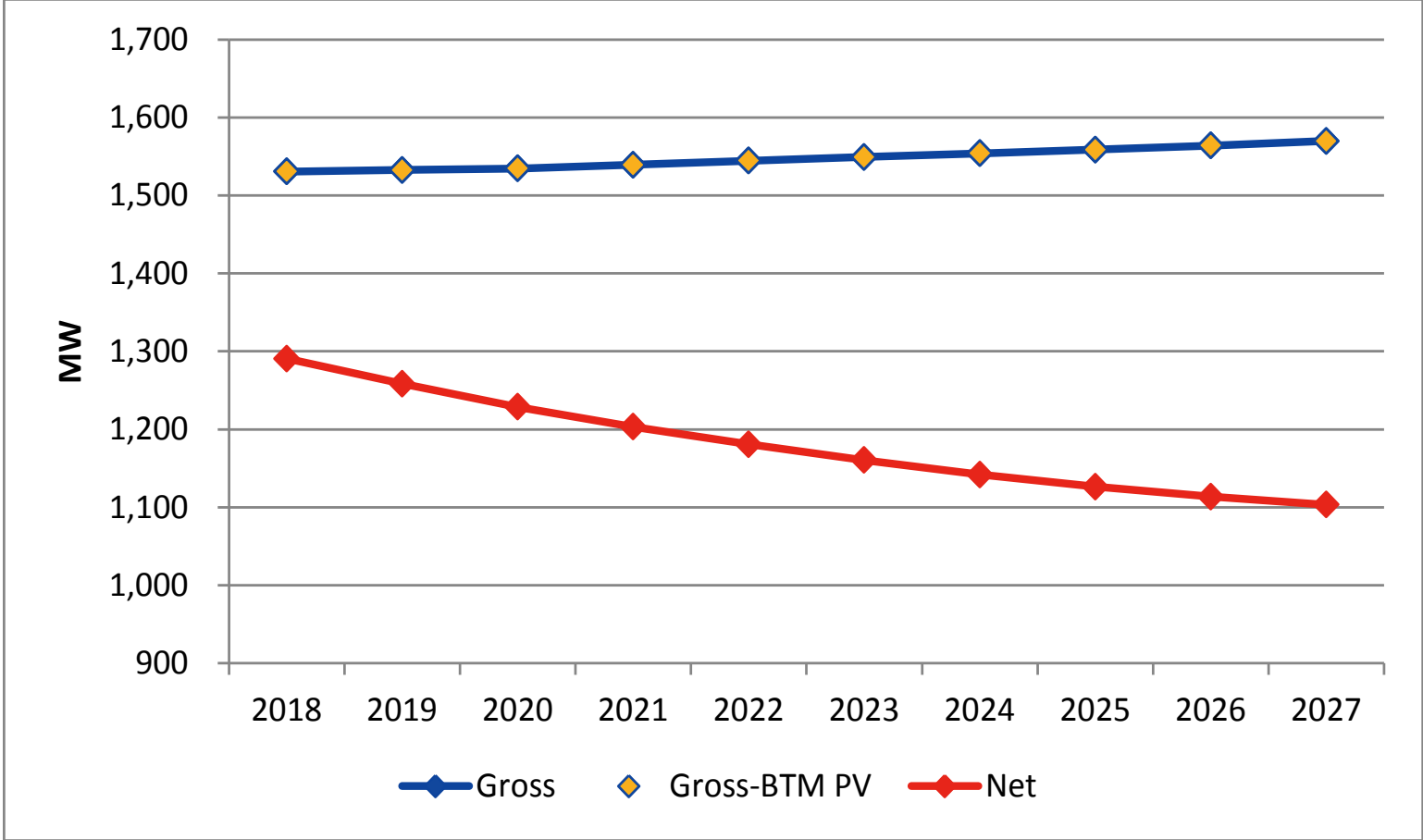
Draft 2018 CELT Winter 50/50 Peak Demand Forecast

Rhode Island

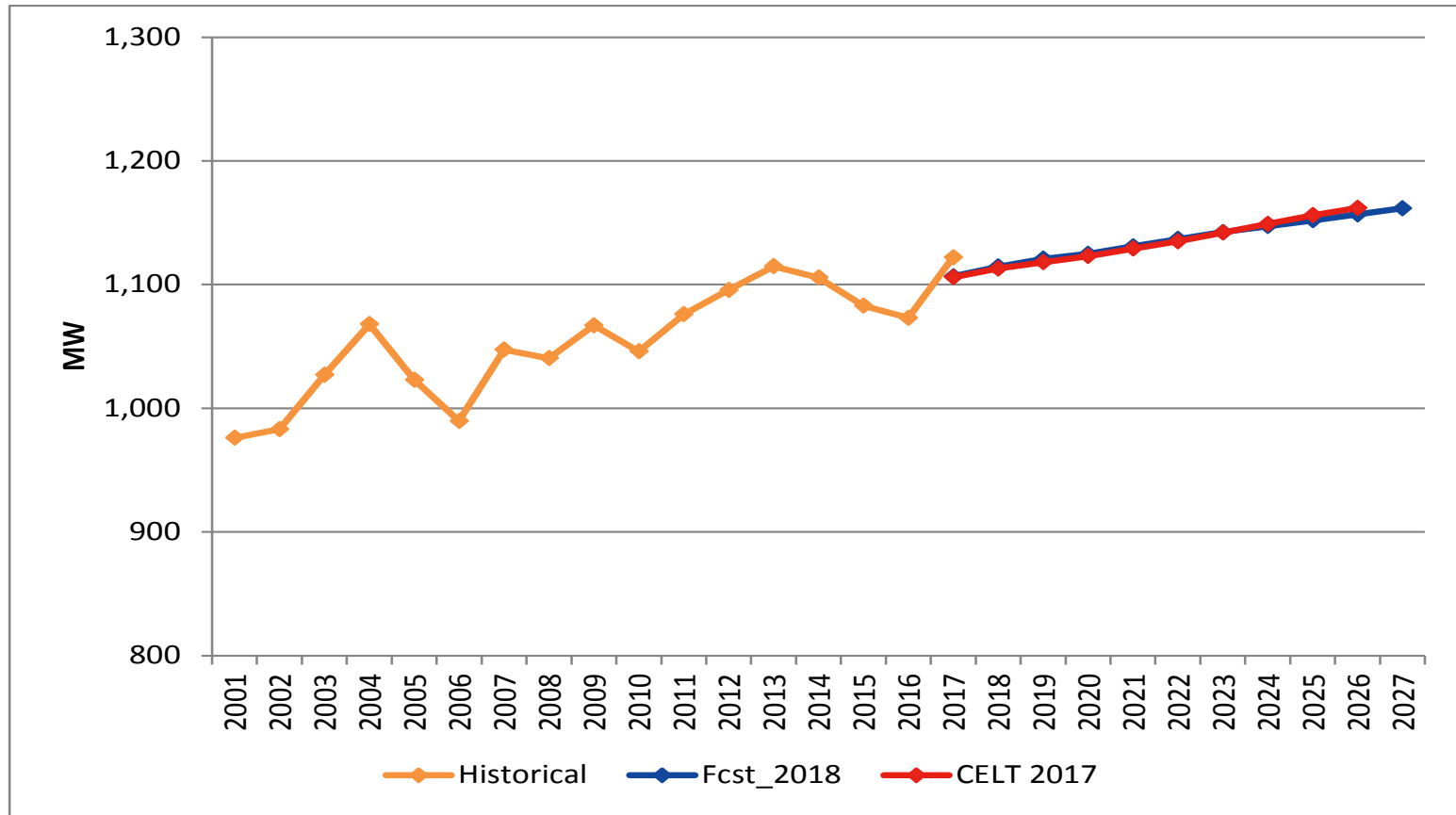


Draft 2018 CELT Winter 90/10 Peak Demand Forecast

Rhode Island



2018 CELT Gross Winter 50/50 Peak Demand Forecast Vermont



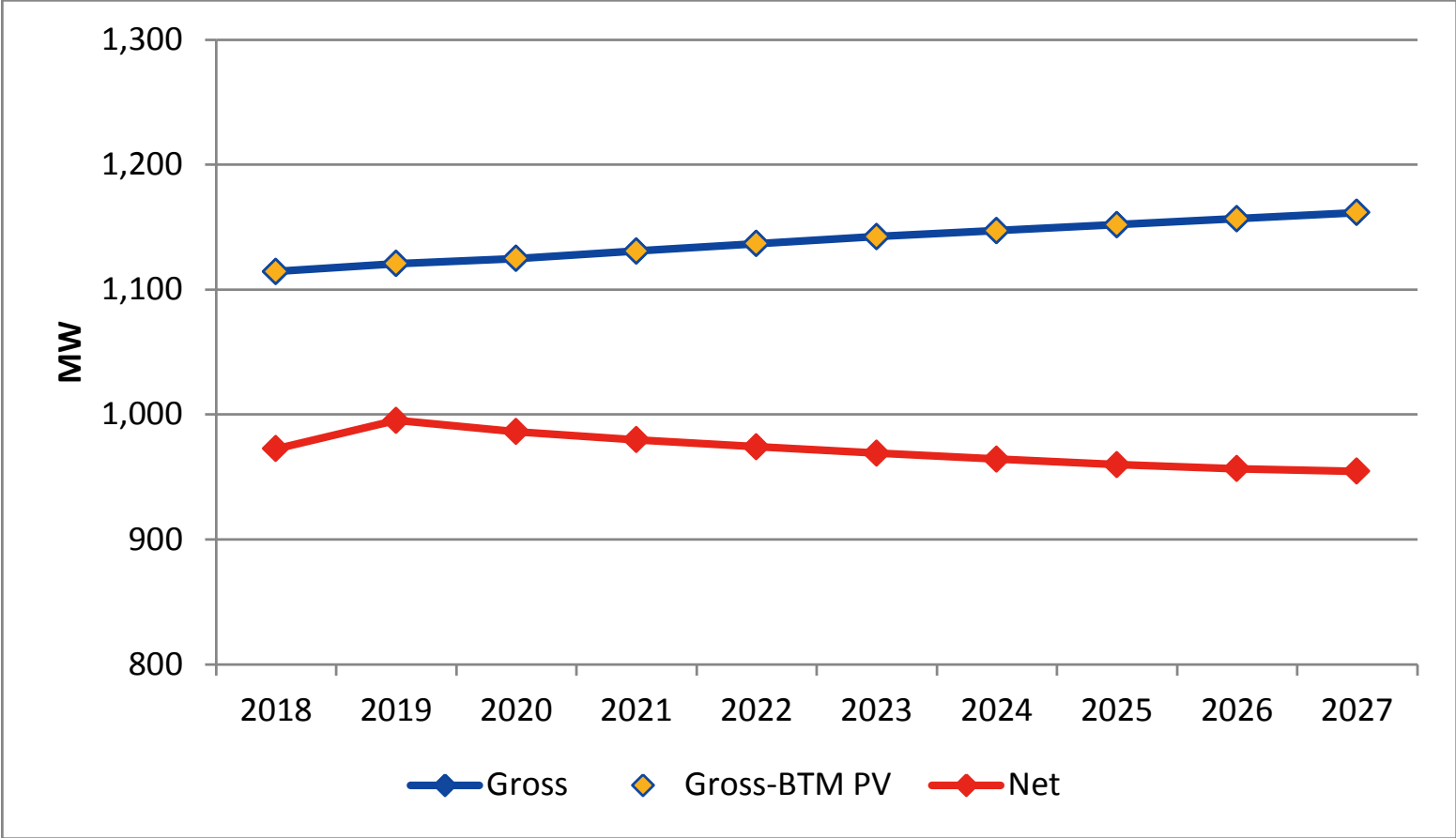
2018 (+0.1%, +1 MW)

2022 (+0.2%, +2 MW)

2026 (-0.4%, -5 MW)

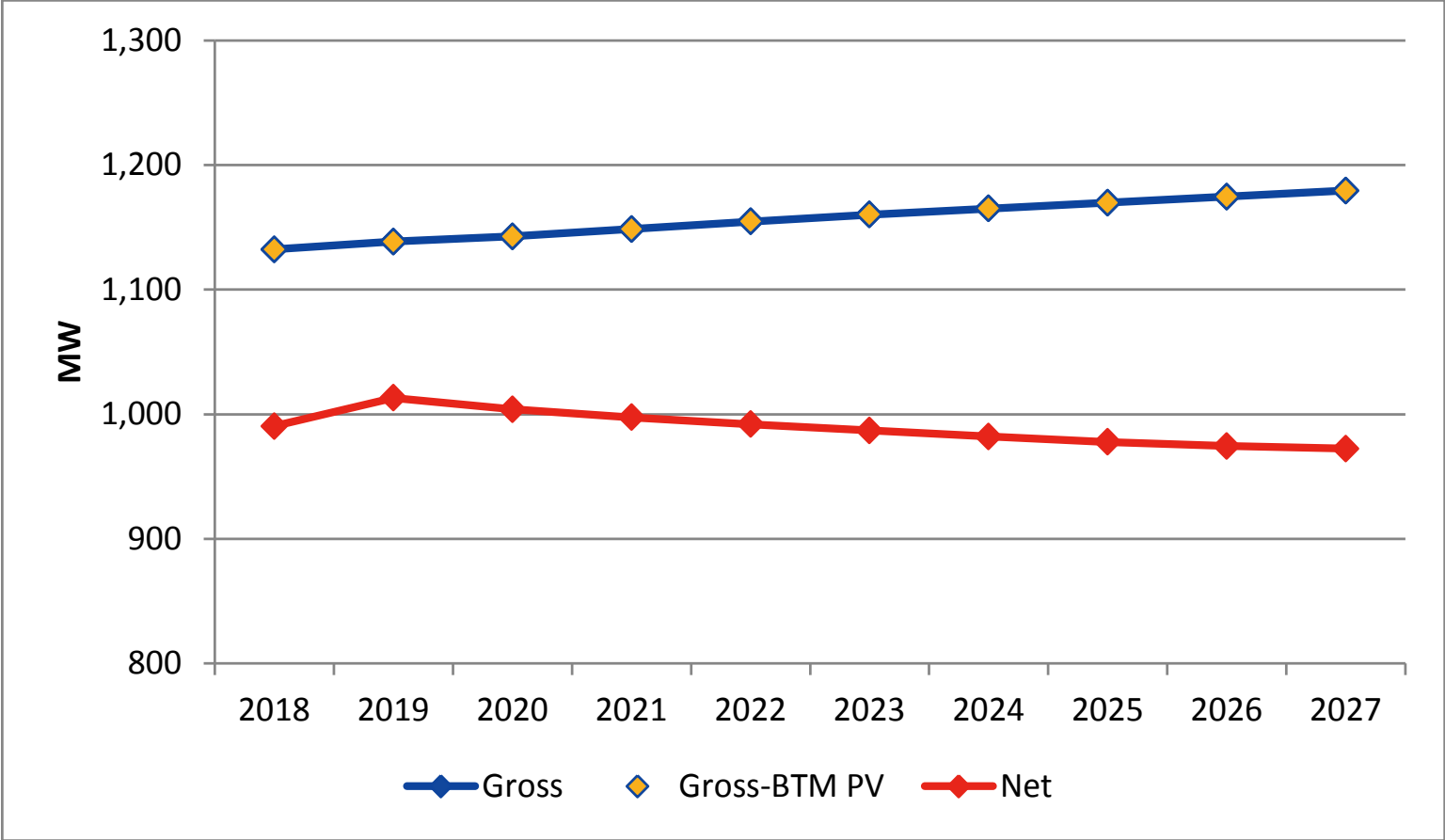
Draft 2018 CELT Winter 50/50 Peak Demand Forecast

Vermont



Draft 2018 CELT Winter 90/10 Peak Demand Forecast

Vermont



Next Steps

- The final forecast will be published as part of the 2018 CELT by May 1st
- ISO encourages LFC members to suggest topics of interest for the summer LFC meeting in July

Questions



APPENDIX

Energy and Demand Tables by State

Massachusetts Forecast Comparison: Annual Energy

Draft 2018 CELT and 2017 CELT

| Draft 2018 CELT (GWh) | | | | | 2017 CELT (GWh) | | | | Change (GWh) | | | |
|-----------------------|--------|--------|--------|--------|-----------------|--------|--------|--------|--------------|--------|-------|--------|
| Year | Gross | BTM PV | EE | Net | Gross | BTM PV | EE | Net | Gross | BTM PV | EE | Net |
| 2018 | 66,532 | 1,085 | 8,640 | 56,807 | 66,163 | 1,262 | 7,017 | 57,884 | 369 | -177 | 1,623 | -1,077 |
| 2019 | 67,347 | 1,272 | 10,374 | 55,701 | 66,996 | 1,434 | 7,941 | 57,621 | 351 | -162 | 2,433 | -1,920 |
| 2020 | 67,891 | 1,418 | 12,005 | 54,468 | 67,706 | 1,557 | 9,269 | 56,880 | 185 | -139 | 2,736 | -2,412 |
| 2021 | 68,675 | 1,556 | 13,522 | 53,596 | 68,400 | 1,677 | 10,716 | 56,007 | 274 | -121 | 2,806 | -2,411 |
| 2022 | 69,527 | 1,691 | 14,918 | 52,919 | 69,147 | 1,793 | 12,046 | 55,308 | 380 | -102 | 2,872 | -2,390 |
| 2023 | 70,401 | 1,824 | 16,186 | 52,391 | 69,919 | 1,906 | 13,255 | 54,758 | 482 | -82 | 2,931 | -2,367 |
| 2024 | 71,196 | 1,960 | 17,327 | 51,909 | 70,691 | 1,997 | 14,342 | 54,352 | 505 | -37 | 2,985 | -2,443 |
| 2025 | 71,935 | 2,070 | 18,340 | 51,525 | 71,453 | 2,051 | 15,308 | 54,094 | 483 | 19 | 3,032 | -2,569 |
| 2026 | 72,685 | 2,148 | 19,231 | 51,306 | 72,227 | 2,102 | 16,158 | 53,967 | 458 | 46 | 3,073 | -2,662 |
| 2027 | 73,422 | 2,222 | 20,006 | 51,193 | | | | | | | | |

Massachusetts Forecast Comparison: Summer Demand

Draft 2018 CELT and 2017 CELT

| 2018 CELT (MW) | | | | | | | 2017 CELT (MW) | | | | | | Change (MW) | | | | | |
|----------------|-------------|-------------|--------|------|-----------|-----------|----------------|-------------|--------|-------|-----------|-----------|-------------|-------------|--------|-----|-----------|-----------|
| Year | Gross 50/50 | Gross 90/10 | BTM PV | EE | Net 50/50 | Net 90/10 | Gross 50/50 | Gross 90/10 | BTM PV | EE | Net 50/50 | Net 90/10 | Gross 50/50 | Gross 90/10 | BTM PV | EE | Net 50/50 | Net 90/10 |
| 2018 | 13,836 | 14,951 | 316 | 1485 | 12,035 | 13,150 | 13,877 | 14,936 | 367 | 1,077 | 12,433 | 13,492 | -41 | 15 | -51 | 408 | -398 | -342 |
| 2019 | 13,982 | 15,114 | 356 | 1726 | 11,900 | 13,032 | 14,056 | 15,133 | 400 | 1,233 | 12,423 | 13,500 | -74 | -19 | -44 | 493 | -523 | -468 |
| 2020 | 14,113 | 15,261 | 384 | 1952 | 11,777 | 12,925 | 14,225 | 15,321 | 421 | 1,388 | 12,416 | 13,512 | -112 | -60 | -37 | 564 | -639 | -587 |
| 2021 | 14,257 | 15,422 | 408 | 2163 | 11,687 | 12,851 | 14,392 | 15,506 | 442 | 1,533 | 12,417 | 13,531 | -135 | -84 | -34 | 630 | -730 | -680 |
| 2022 | 14,405 | 15,586 | 429 | 2356 | 11,620 | 12,801 | 14,563 | 15,696 | 462 | 1,669 | 12,432 | 13,565 | -158 | -110 | -33 | 687 | -812 | -764 |
| 2023 | 14,555 | 15,751 | 448 | 2532 | 11,575 | 12,771 | 14,736 | 15,887 | 480 | 1,795 | 12,461 | 13,612 | -181 | -136 | -32 | 737 | -886 | -841 |
| 2024 | 14,699 | 15,913 | 465 | 2690 | 11,544 | 12,757 | 14,909 | 16,079 | 492 | 1,913 | 12,504 | 13,674 | -210 | -166 | -27 | 777 | -960 | -917 |
| 2025 | 14,841 | 16,071 | 477 | 2831 | 11,533 | 12,762 | 15,081 | 16,269 | 497 | 2,022 | 12,562 | 13,750 | -240 | -198 | -20 | 809 | -1,029 | -988 |
| 2026 | 14,983 | 16,229 | 483 | 2955 | 11,546 | 12,792 | 15,255 | 16,462 | 501 | 2,123 | 12,631 | 13,838 | -272 | -233 | -18 | 832 | -1,085 | -1,046 |
| 2027 | 15,125 | 16,387 | 487 | 3062 | 11,576 | 12,838 | | | | | | | | | | | | |



Massachusetts Forecast Comparison: Winter Demand

Draft 2018 CELT and 2017 CELT

| 2018 CELT (MW) | | | | | | | 2017 CELT (MW) | | | | | | Change (MW) | | | | | |
|----------------|----------------|----------------|--------|-------|--------------|--------------|----------------|----------------|--------|-------|--------------|--------------|----------------|----------------|--------|-----|--------------|--------------|
| Year | Gross 50/50 | Gross 90/10 | BTM PV | EE | Net 50/50 | Net 90/10 | Gross 50/50 | Gross 90/10 | BTM PV | EE | Net 50/50 | Net 90/10 | Gross 50/50 | Gross 90/10 | BTM PV | EE | Net 50/50 | Net 90/10 |
| 2018 | 10,652 | 10,973 | 0 | 1,502 | 9,150 | 9,471 | 10,760 | 11,086 | 0 | 1,153 | 9,607 | 9,933 | -108 | -113 | 0 | 349 | -457 | -462 |
| 2019 | 10,723 | 11,044 | 0 | 1,626 | 9,097 | 9,418 | 10,853 | 11,178 | 0 | 1,272 | 9,581 | 9,906 | -130 | -134 | 0 | 354 | -484 | -488 |
| 2020 | 10,771 | 11,092 | 0 | 1,840 | 8,931 | 9,252 | 10,931 | 11,257 | 0 | 1,547 | 9,384 | 9,710 | -160 | -165 | 0 | 293 | -453 | -458 |
| 2021 | 10,838 | 11,159 | 0 | 2,038 | 8,800 | 9,121 | 11,007 | 11,333 | 0 | 1,742 | 9,265 | 9,591 | -169 | -174 | 0 | 296 | -465 | -470 |
| 2022 | 10,911 | 11,232 | 0 | 2,221 | 8,690 | 9,011 | 11,089 | 11,415 | 0 | 1,921 | 9,168 | 9,494 | -178 | -183 | 0 | 300 | -478 | -483 |
| 2023 | 10,985 | 11,307 | 0 | 2,387 | 8,599 | 8,920 | 11,174 | 11,500 | 0 | 2,084 | 9,090 | 9,416 | -189 | -193 | 0 | 303 | -491 | -496 |
| 2024 | 11,053 | 11,374 | 0 | 2,536 | 8,517 | 8,839 | 11,259 | 11,585 | 0 | 2,231 | 9,028 | 9,354 | -206 | -211 | 0 | 305 | -511 | -515 |
| 2025 | 11,116 | 11,437 | 0 | 2,668 | 8,448 | 8,769 | 11,343 | 11,668 | 0 | 2,361 | 8,982 | 9,307 | -227 | -231 | 0 | 307 | -534 | -538 |
| 2026 | 11,180 | 11,502 | 0 | 2,785 | 8,395 | 8,717 | 11,428 | 11,753 | 0 | 2,475 | 8,953 | 9,278 | -248 | -251 | 0 | 310 | -558 | -561 |
| 2027 | 11,243 | 11,564 | 0 | 2,886 | 8,357 | 8,678 | | | | | | | | | | | | |

Connecticut Forecast Comparison: Annual Energy

Draft 2018 CELT and 2017 CELT

| Draft 2018 CELT (GWh) | | | | | 2017 CELT (GWh) | | | | | Change (GWh) | | | |
|-----------------------|--------|--------|-------|--------|-----------------|--------|-------|--------|-------|--------------|-----|--------|--|
| Year | Gross | BTM PV | EE | Net | Gross | BTM PV | EE | Net | Gross | BTM PV | EE | Net | |
| 2018 | 34,206 | 539 | 3,367 | 30,300 | 34,390 | 612 | 2,428 | 31,350 | -185 | -73 | 939 | -1,050 | |
| 2019 | 34,412 | 657 | 3,663 | 30,093 | 34,587 | 789 | 2,970 | 30,828 | -175 | -132 | 693 | -735 | |
| 2020 | 34,489 | 775 | 3,971 | 29,743 | 34,733 | 928 | 3,607 | 30,198 | -244 | -153 | 364 | -455 | |
| 2021 | 34,707 | 886 | 4,358 | 29,462 | 34,909 | 995 | 4,038 | 29,876 | -203 | -109 | 320 | -414 | |
| 2022 | 34,956 | 984 | 4,718 | 29,254 | 35,128 | 1,054 | 4,439 | 29,635 | -173 | -70 | 279 | -381 | |
| 2023 | 35,209 | 1,069 | 5,048 | 29,091 | 35,359 | 1,112 | 4,807 | 29,440 | -150 | -43 | 241 | -349 | |
| 2024 | 35,419 | 1,139 | 5,348 | 28,932 | 35,586 | 1,167 | 5,141 | 29,278 | -167 | -28 | 207 | -346 | |
| 2025 | 35,604 | 1,202 | 5,616 | 28,786 | 35,802 | 1,221 | 5,440 | 29,141 | -197 | -19 | 176 | -355 | |
| 2026 | 35,794 | 1,265 | 5,854 | 28,675 | 36,018 | 1,273 | 5,705 | 29,040 | -223 | -8 | 149 | -365 | |
| 2027 | 35,981 | 1,325 | 6,063 | 28,593 | | | | | | | | | |

Connecticut Forecast Comparison: Summer Demand

Draft 2018 CELT and 2017 CELT

| 2018 CELT (MW) | | | | | | | 2017 CELT (MW) | | | | | | Change (MW) | | | | | |
|----------------|-------------|-------------|--------|-----|-----------|-----------|----------------|-------------|--------|-----|-----------|-----------|-------------|-------------|--------|-----|-----------|-----------|
| Year | Gross 50/50 | Gross 90/10 | BTM PV | EE | Net 50/50 | Net 90/10 | Gross 50/50 | Gross 90/10 | BTM PV | EE | Net 50/50 | Net 90/10 | Gross 50/50 | Gross 90/10 | BTM PV | EE | Net 50/50 | Net 90/10 |
| 2018 | 7,400 | 8,037 | 155 | 570 | 6,676 | 7,313 | 7,595 | 8,276 | 178 | 459 | 6,958 | 7,639 | -195 | -239 | -23 | 111 | -282 | -326 |
| 2019 | 7,435 | 8,076 | 182 | 612 | 6,642 | 7,283 | 7,639 | 8,327 | 221 | 533 | 6,885 | 7,573 | -204 | -251 | -39 | 79 | -243 | -290 |
| 2020 | 7,463 | 8,107 | 207 | 655 | 6,600 | 7,245 | 7,682 | 8,377 | 251 | 643 | 6,788 | 7,483 | -219 | -270 | -44 | 12 | -188 | -238 |
| 2021 | 7,499 | 8,146 | 229 | 710 | 6,559 | 7,207 | 7,727 | 8,429 | 262 | 702 | 6,763 | 7,465 | -228 | -283 | -33 | 8 | -204 | -258 |
| 2022 | 7,536 | 8,188 | 246 | 761 | 6,529 | 7,180 | 7,773 | 8,482 | 271 | 756 | 6,746 | 7,455 | -237 | -294 | -25 | 5 | -217 | -275 |
| 2023 | 7,574 | 8,229 | 259 | 808 | 6,507 | 7,162 | 7,820 | 8,536 | 280 | 807 | 6,733 | 7,449 | -246 | -307 | -21 | 1 | -226 | -287 |
| 2024 | 7,609 | 8,268 | 266 | 851 | 6,492 | 7,151 | 7,867 | 8,590 | 287 | 853 | 6,727 | 7,450 | -258 | -322 | -21 | -2 | -235 | -299 |
| 2025 | 7,643 | 8,305 | 273 | 889 | 6,481 | 7,143 | 7,913 | 8,643 | 296 | 894 | 6,723 | 7,453 | -270 | -338 | -23 | -5 | -242 | -310 |
| 2026 | 7,678 | 8,343 | 280 | 923 | 6,475 | 7,140 | 7,960 | 8,696 | 304 | 930 | 6,726 | 7,462 | -282 | -353 | -24 | -7 | -251 | -322 |
| 2027 | 7,712 | 8,381 | 286 | 952 | 6,473 | 7,142 | | | | | | | | | | | | |



Connecticut Forecast Comparison: Winter Demand

Draft 2018 CELT and 2017 CELT

| 2018 CELT (MW) | | | | | | | 2017 CELT (MW) | | | | | | Change (MW) | | | | | |
|----------------|----------------|----------------|--------|-----|--------------|--------------|----------------|----------------|--------|-----|--------------|--------------|----------------|----------------|--------|-----|--------------|--------------|
| Year | Gross 50/50 | Gross 90/10 | BTM PV | EE | Net 50/50 | Net 90/10 | Gross 50/50 | Gross 90/10 | BTM PV | EE | Net 50/50 | Net 90/10 | Gross 50/50 | Gross 90/10 | BTM PV | EE | Net 50/50 | Net 90/10 |
| 2018 | 5,669 | 5,842 | 0 | 511 | 5,158 | 5,331 | 5,762 | 5,950 | 0 | 423 | 5,339 | 5,527 | -93 | -108 | 0 | 88 | -181 | -196 |
| 2019 | 5,682 | 5,855 | 0 | 550 | 5,132 | 5,305 | 5,777 | 5,965 | 0 | 495 | 5,282 | 5,470 | -95 | -110 | 0 | 55 | -150 | -165 |
| 2020 | 5,686 | 5,859 | 0 | 590 | 5,096 | 5,269 | 5,788 | 5,976 | 0 | 634 | 5,154 | 5,342 | -102 | -117 | 0 | -44 | -58 | -73 |
| 2021 | 5,699 | 5,872 | 0 | 639 | 5,059 | 5,233 | 5,802 | 5,990 | 0 | 692 | 5,110 | 5,298 | -103 | -118 | 0 | -53 | -51 | -65 |
| 2022 | 5,714 | 5,887 | 0 | 685 | 5,029 | 5,202 | 5,819 | 6,007 | 0 | 746 | 5,073 | 5,261 | -105 | -120 | 0 | -61 | -44 | -59 |
| 2023 | 5,729 | 5,902 | 0 | 727 | 5,002 | 5,175 | 5,838 | 6,026 | 0 | 796 | 5,042 | 5,230 | -109 | -124 | 0 | -69 | -40 | -55 |
| 2024 | 5,741 | 5,915 | 0 | 766 | 4,976 | 5,149 | 5,857 | 6,045 | 0 | 841 | 5,016 | 5,204 | -116 | -130 | 0 | -75 | -40 | -55 |
| 2025 | 5,752 | 5,925 | 0 | 800 | 4,952 | 5,125 | 5,874 | 6,062 | 0 | 881 | 4,993 | 5,181 | -122 | -137 | 0 | -81 | -41 | -56 |
| 2026 | 5,763 | 5,936 | 0 | 830 | 4,933 | 5,106 | 5,892 | 6,080 | 0 | 917 | 4,975 | 5,163 | -129 | -144 | 0 | -87 | -42 | -57 |
| 2027 | 5,774 | 5,947 | 0 | 857 | 4,917 | 5,090 | | | | | | | | | | | | |

Maine Forecast Comparison: Annual Energy

Draft 2018 CELT and 2017 CELT

| Draft 2018 CELT (GWh) | | | | | 2017 CELT (GWh) | | | | | Change (GWh) | | | |
|-----------------------|--------|--------|-------|--------|-----------------|--------|-------|--------|-------|--------------|-----|------|--|
| Year | Gross | BTM PV | EE | Net | Gross | BTM PV | EE | Net | Gross | BTM PV | EE | Net | |
| 2018 | 12,878 | 50 | 1,216 | 11,613 | 12,768 | 42 | 1,226 | 11,500 | 110 | 8 | -10 | 113 | |
| 2019 | 12,976 | 63 | 1,377 | 11,536 | 12,885 | 51 | 1,263 | 11,571 | 91 | 12 | 114 | -35 | |
| 2020 | 13,042 | 77 | 1,529 | 11,437 | 13,003 | 60 | 1,178 | 11,765 | 40 | 17 | 351 | -328 | |
| 2021 | 13,195 | 90 | 1,670 | 11,436 | 13,137 | 68 | 1,330 | 11,739 | 59 | 22 | 340 | -303 | |
| 2022 | 13,380 | 102 | 1,800 | 11,478 | 13,291 | 76 | 1,469 | 11,746 | 90 | 26 | 331 | -267 | |
| 2023 | 13,576 | 115 | 1,918 | 11,543 | 13,453 | 84 | 1,596 | 11,773 | 123 | 31 | 322 | -229 | |
| 2024 | 13,749 | 127 | 2,024 | 11,598 | 13,611 | 92 | 1,710 | 11,809 | 138 | 35 | 314 | -211 | |
| 2025 | 13,909 | 139 | 2,118 | 11,651 | 13,763 | 99 | 1,812 | 11,852 | 146 | 40 | 306 | -201 | |
| 2026 | 14,067 | 152 | 2,201 | 11,715 | 13,910 | 107 | 1,901 | 11,902 | 157 | 45 | 300 | -188 | |
| 2027 | 14,222 | 164 | 2,273 | 11,785 | | | | | | | | | |

Maine Forecast Comparison: Summer Demand

Draft 2018 CELT and 2017 CELT

| 2018 CELT (MW) | | | | | | | 2017 CELT (MW) | | | | | | Change (MW) | | | | | |
|----------------|----------------|----------------|--------|-----|--------------|--------------|----------------|----------------|--------|-----|--------------|--------------|----------------|----------------|--------|----|--------------|--------------|
| Year | Gross 50/50 | Gross 90/10 | BTM PV | EE | Net 50/50 | Net 90/10 | Gross 50/50 | Gross 90/10 | BTM PV | EE | Net 50/50 | Net 90/10 | Gross 50/50 | Gross 90/10 | BTM PV | EE | Net 50/50 | Net 90/10 |
| 2018 | 2,111 | 2,244 | 15 | 176 | 1,921 | 2,054 | 2,168 | 2,308 | 12 | 181 | 1,975 | 2,115 | -57 | -64 | 3 | -5 | -54 | -61 |
| 2019 | 2,120 | 2,254 | 18 | 197 | 1,905 | 2,039 | 2,187 | 2,328 | 14 | 183 | 1,990 | 2,131 | -67 | -74 | 4 | 14 | -85 | -92 |
| 2020 | 2,127 | 2,261 | 21 | 217 | 1,889 | 2,023 | 2,207 | 2,349 | 16 | 155 | 2,036 | 2,178 | -80 | -88 | 5 | 62 | -147 | -155 |
| 2021 | 2,140 | 2,275 | 24 | 236 | 1,881 | 2,015 | 2,228 | 2,371 | 18 | 172 | 2,038 | 2,181 | -88 | -96 | 6 | 64 | -157 | -166 |
| 2022 | 2,156 | 2,291 | 26 | 253 | 1,877 | 2,012 | 2,253 | 2,397 | 20 | 189 | 2,044 | 2,188 | -97 | -106 | 6 | 64 | -167 | -176 |
| 2023 | 2,173 | 2,308 | 28 | 268 | 1,876 | 2,011 | 2,278 | 2,423 | 21 | 204 | 2,053 | 2,198 | -105 | -115 | 7 | 64 | -177 | -187 |
| 2024 | 2,188 | 2,323 | 31 | 282 | 1,875 | 2,011 | 2,303 | 2,449 | 23 | 217 | 2,063 | 2,209 | -115 | -126 | 8 | 65 | -188 | -198 |
| 2025 | 2,202 | 2,338 | 32 | 295 | 1,874 | 2,011 | 2,327 | 2,473 | 24 | 229 | 2,074 | 2,220 | -125 | -135 | 8 | 66 | -200 | -209 |
| 2026 | 2,216 | 2,352 | 34 | 306 | 1,875 | 2,012 | 2,350 | 2,498 | 26 | 240 | 2,084 | 2,232 | -134 | -146 | 8 | 66 | -209 | -220 |
| 2027 | 2,229 | 2,366 | 36 | 315 | 1,878 | 2,015 | | | | | | | | | | | | |

Maine Forecast Comparison: Winter Demand

Draft 2018 CELT and 2017 CELT

| 2018 CELT (MW) | | | | | | | 2017 CELT (MW) | | | | | | Change (MW) | | | | | |
|----------------|----------------|----------------|--------|-----|--------------|--------------|----------------|----------------|--------|-----|--------------|--------------|----------------|----------------|--------|----|--------------|--------------|
| Year | Gross 50/50 | Gross 90/10 | BTM PV | EE | Net 50/50 | Net 90/10 | Gross 50/50 | Gross 90/10 | BTM PV | EE | Net 50/50 | Net 90/10 | Gross 50/50 | Gross 90/10 | BTM PV | EE | Net 50/50 | Net 90/10 |
| 2018 | 2,067 | 2,125 | 0 | 179 | 1,888 | 1,946 | 2,019 | 2,075 | 0 | 171 | 1,848 | 1,904 | 48 | 50 | 0 | 8 | 40 | 42 |
| 2019 | 2,079 | 2,137 | 0 | 188 | 1,891 | 1,949 | 2,030 | 2,087 | 0 | 194 | 1,836 | 1,893 | 49 | 50 | 0 | -6 | 55 | 56 |
| 2020 | 2,087 | 2,145 | 0 | 207 | 1,880 | 1,938 | 2,043 | 2,099 | 0 | 183 | 1,860 | 1,916 | 44 | 46 | 0 | 24 | 20 | 22 |
| 2021 | 2,106 | 2,164 | 0 | 224 | 1,882 | 1,940 | 2,056 | 2,113 | 0 | 198 | 1,858 | 1,915 | 50 | 51 | 0 | 26 | 24 | 25 |
| 2022 | 2,129 | 2,187 | 0 | 241 | 1,889 | 1,947 | 2,072 | 2,129 | 0 | 211 | 1,861 | 1,918 | 57 | 58 | 0 | 30 | 28 | 29 |
| 2023 | 2,154 | 2,212 | 0 | 255 | 1,899 | 1,957 | 2,089 | 2,146 | 0 | 224 | 1,865 | 1,922 | 65 | 66 | 0 | 31 | 34 | 35 |
| 2024 | 2,176 | 2,234 | 0 | 269 | 1,907 | 1,965 | 2,106 | 2,162 | 0 | 235 | 1,871 | 1,927 | 70 | 72 | 0 | 34 | 36 | 38 |
| 2025 | 2,196 | 2,254 | 0 | 281 | 1,915 | 1,974 | 2,121 | 2,178 | 0 | 246 | 1,875 | 1,932 | 75 | 76 | 0 | 35 | 40 | 42 |
| 2026 | 2,216 | 2,274 | 0 | 291 | 1,925 | 1,983 | 2,137 | 2,193 | 0 | 256 | 1,881 | 1,937 | 79 | 81 | 0 | 35 | 44 | 46 |
| 2027 | 2,235 | 2,293 | 0 | 300 | 1,935 | 1,993 | | | | | | | | | | | | |

New Hampshire Forecast Comparison: Annual Energy

Draft 2018 CELT and 2017 CELT

| Draft 2018 CELT (GWh) | | | | | 2017 CELT (GWh) | | | | | Change (GWh) | | | |
|-----------------------|--------|--------|-------|--------|-----------------|--------|-------|--------|-------|--------------|-----|------|--|
| Year | Gross | BTM PV | EE | Net | Gross | BTM PV | EE | Net | Gross | BTM PV | EE | Net | |
| 2018 | 12,559 | 88 | 634 | 11,837 | 12,557 | 93 | 583 | 11,881 | 1 | -5 | 51 | -44 | |
| 2019 | 12,688 | 104 | 742 | 11,842 | 12,679 | 106 | 620 | 11,953 | 9 | -2 | 122 | -111 | |
| 2020 | 12,749 | 120 | 844 | 11,785 | 12,767 | 115 | 706 | 11,946 | -18 | 5 | 138 | -161 | |
| 2021 | 12,855 | 135 | 939 | 11,781 | 12,845 | 124 | 774 | 11,947 | 9 | 11 | 165 | -167 | |
| 2022 | 12,971 | 150 | 1,027 | 11,794 | 12,933 | 132 | 839 | 11,962 | 38 | 18 | 188 | -168 | |
| 2023 | 13,089 | 165 | 1,109 | 11,816 | 13,028 | 141 | 899 | 11,988 | 62 | 24 | 210 | -172 | |
| 2024 | 13,189 | 180 | 1,183 | 11,826 | 13,122 | 149 | 953 | 12,020 | 67 | 31 | 230 | -194 | |
| 2025 | 13,277 | 194 | 1,251 | 11,832 | 13,215 | 156 | 1,002 | 12,057 | 61 | 38 | 249 | -225 | |
| 2026 | 13,368 | 208 | 1,310 | 11,849 | 13,311 | 164 | 1,046 | 12,101 | 57 | 44 | 264 | -251 | |
| 2027 | 13,461 | 223 | 1,363 | 11,875 | | | | | | | | | |

New Hampshire Forecast Comparison: Summer Demand

Draft 2018 CELT and 2017 CELT

| 2018 CELT (MW) | | | | | | | 2017 CELT (MW) | | | | | | Change (MW) | | | | | |
|----------------|----------------|----------------|--------|-----|--------------|--------------|----------------|----------------|--------|-----|--------------|--------------|----------------|----------------|--------|----|--------------|--------------|
| Year | Gross 50/50 | Gross 90/10 | BTM PV | EE | Net 50/50 | Net 90/10 | Gross 50/50 | Gross 90/10 | BTM PV | EE | Net 50/50 | Net 90/10 | Gross 50/50 | Gross 90/10 | BTM PV | EE | Net 50/50 | Net 90/10 |
| 2018 | 2,501 | 2,693 | 26 | 109 | 2,366 | 2,558 | 2,611 | 2,830 | 27 | 102 | 2,482 | 2,701 | -110 | -137 | -1 | 7 | -116 | -143 |
| 2019 | 2,524 | 2,718 | 30 | 124 | 2,370 | 2,564 | 2,640 | 2,863 | 30 | 109 | 2,501 | 2,724 | -116 | -145 | 0 | 15 | -131 | -160 |
| 2020 | 2,541 | 2,737 | 34 | 139 | 2,368 | 2,564 | 2,666 | 2,892 | 31 | 127 | 2,508 | 2,734 | -125 | -155 | 3 | 12 | -140 | -170 |
| 2021 | 2,562 | 2,760 | 37 | 153 | 2,373 | 2,571 | 2,691 | 2,921 | 33 | 137 | 2,521 | 2,751 | -129 | -161 | 4 | 16 | -148 | -180 |
| 2022 | 2,584 | 2,783 | 39 | 166 | 2,379 | 2,578 | 2,717 | 2,951 | 34 | 146 | 2,537 | 2,771 | -133 | -168 | 5 | 20 | -158 | -193 |
| 2023 | 2,606 | 2,807 | 42 | 177 | 2,387 | 2,588 | 2,743 | 2,980 | 35 | 155 | 2,553 | 2,790 | -137 | -173 | 7 | 22 | -166 | -202 |
| 2024 | 2,626 | 2,830 | 44 | 188 | 2,394 | 2,598 | 2,769 | 3,010 | 37 | 163 | 2,569 | 2,810 | -143 | -180 | 7 | 25 | -175 | -212 |
| 2025 | 2,645 | 2,851 | 46 | 198 | 2,401 | 2,607 | 2,795 | 3,040 | 38 | 171 | 2,586 | 2,831 | -150 | -189 | 8 | 27 | -185 | -224 |
| 2026 | 2,664 | 2,872 | 48 | 206 | 2,409 | 2,617 | 2,822 | 3,070 | 39 | 177 | 2,606 | 2,854 | -158 | -198 | 9 | 29 | -197 | -237 |
| 2027 | 2,684 | 2,894 | 50 | 214 | 2,420 | 2,630 | | | | | | | | | | | | |

New Hampshire Forecast Comparison: Winter Demand

Draft 2018 CELT and 2017 CELT

| 2018 CELT (MW) | | | | | | | 2017 CELT (MW) | | | | | | Change (MW) | | | | | |
|----------------|----------------|----------------|--------|-----|--------------|--------------|----------------|----------------|--------|-----|--------------|--------------|----------------|----------------|--------|----|--------------|--------------|
| Year | Gross 50/50 | Gross 90/10 | BTM PV | EE | Net 50/50 | Net 90/10 | Gross 50/50 | Gross 90/10 | BTM PV | EE | Net 50/50 | Net 90/10 | Gross 50/50 | Gross 90/10 | BTM PV | EE | Net 50/50 | Net 90/10 |
| 2018 | 2,041 | 2,123 | 0 | 95 | 1,946 | 2,027 | 2,066 | 2,153 | 0 | 83 | 1,983 | 2,070 | -25 | -30 | 0 | 12 | -37 | -43 |
| 2019 | 2,049 | 2,130 | 0 | 101 | 1,947 | 2,028 | 2,075 | 2,162 | 0 | 89 | 1,986 | 2,073 | -26 | -32 | 0 | 12 | -39 | -45 |
| 2020 | 2,052 | 2,133 | 0 | 113 | 1,938 | 2,020 | 2,082 | 2,168 | 0 | 102 | 1,980 | 2,066 | -30 | -35 | 0 | 11 | -42 | -46 |
| 2021 | 2,057 | 2,138 | 0 | 125 | 1,933 | 2,014 | 2,087 | 2,174 | 0 | 110 | 1,977 | 2,064 | -30 | -36 | 0 | 15 | -44 | -50 |
| 2022 | 2,063 | 2,144 | 0 | 135 | 1,928 | 2,010 | 2,093 | 2,180 | 0 | 118 | 1,975 | 2,062 | -30 | -36 | 0 | 17 | -47 | -52 |
| 2023 | 2,069 | 2,151 | 0 | 145 | 1,925 | 2,006 | 2,100 | 2,187 | 0 | 125 | 1,975 | 2,062 | -31 | -36 | 0 | 20 | -50 | -56 |
| 2024 | 2,074 | 2,156 | 0 | 153 | 1,921 | 2,002 | 2,107 | 2,193 | 0 | 132 | 1,975 | 2,061 | -33 | -37 | 0 | 21 | -54 | -59 |
| 2025 | 2,079 | 2,160 | 0 | 161 | 1,918 | 1,999 | 2,113 | 2,200 | 0 | 138 | 1,975 | 2,062 | -34 | -40 | 0 | 23 | -57 | -63 |
| 2026 | 2,083 | 2,165 | 0 | 168 | 1,915 | 1,996 | 2,120 | 2,207 | 0 | 143 | 1,977 | 2,064 | -37 | -42 | 0 | 25 | -62 | -68 |
| 2027 | 2,088 | 2,169 | 0 | 174 | 1,914 | 1,995 | | | | | | | | | | | | |



Rhode Island Forecast Comparison: Annual Energy

Draft 2018 CELT and 2017 CELT

| Draft 2018 CELT (GWh) | | | | | 2017 CELT (GWh) | | | | Change (GWh) | | | |
|-----------------------|-------|--------|-------|-------|-----------------|--------|-------|-------|--------------|--------|-----|------|
| Year | Gross | BTM PV | EE | Net | Gross | BTM PV | EE | Net | Gross | BTM PV | EE | Net |
| 2018 | 9,357 | 57 | 1,420 | 7,881 | 9,290 | 53 | 1,170 | 8,067 | 68 | 4 | 250 | -186 |
| 2019 | 9,390 | 83 | 1,687 | 7,620 | 9,347 | 75 | 1,311 | 7,961 | 43 | 8 | 376 | -341 |
| 2020 | 9,422 | 109 | 1,943 | 7,370 | 9,410 | 95 | 1,549 | 7,766 | 13 | 14 | 394 | -396 |
| 2021 | 9,488 | 132 | 2,186 | 7,170 | 9,472 | 110 | 1,737 | 7,625 | 15 | 22 | 449 | -456 |
| 2022 | 9,563 | 154 | 2,410 | 6,999 | 9,542 | 118 | 1,909 | 7,515 | 21 | 36 | 501 | -516 |
| 2023 | 9,636 | 177 | 2,615 | 6,845 | 9,611 | 124 | 2,064 | 7,423 | 25 | 53 | 551 | -579 |
| 2024 | 9,702 | 199 | 2,800 | 6,703 | 9,685 | 130 | 2,204 | 7,351 | 18 | 69 | 596 | -648 |
| 2025 | 9,771 | 221 | 2,966 | 6,584 | 9,760 | 137 | 2,327 | 7,296 | 11 | 84 | 639 | -712 |
| 2026 | 9,846 | 243 | 3,113 | 6,490 | 9,836 | 143 | 2,436 | 7,257 | 10 | 100 | 677 | -766 |
| 2027 | 9,926 | 264 | 3,241 | 6,420 | | | | | | | | |

Rhode Island Forecast Comparison: Summer Demand

Draft 2018 CELT and 2017 CELT

| 2018 CELT (MW) | | | | | | | 2017 CELT (MW) | | | | | | Change (MW) | | | | | |
|----------------|----------------|----------------|--------|-----|--------------|--------------|----------------|----------------|--------|-----|--------------|--------------|----------------|----------------|--------|----|--------------|--------------|
| Year | Gross 50/50 | Gross 90/10 | BTM PV | EE | Net 50/50 | Net 90/10 | Gross 50/50 | Gross 90/10 | BTM PV | EE | Net 50/50 | Net 90/10 | Gross 50/50 | Gross 90/10 | BTM PV | EE | Net 50/50 | Net 90/10 |
| 2018 | 2,099 | 2,367 | 16 | 245 | 1,838 | 2,106 | 2,079 | 2,338 | 15 | 204 | 1,860 | 2,119 | 20 | 29 | 1 | 41 | -22 | -13 |
| 2019 | 2,118 | 2,390 | 23 | 278 | 1,817 | 2,089 | 2,100 | 2,364 | 21 | 227 | 1,852 | 2,116 | 18 | 26 | 2 | 51 | -35 | -27 |
| 2020 | 2,137 | 2,414 | 29 | 311 | 1,797 | 2,074 | 2,122 | 2,391 | 26 | 267 | 1,829 | 2,098 | 15 | 23 | 3 | 44 | -32 | -24 |
| 2021 | 2,158 | 2,439 | 34 | 341 | 1,783 | 2,064 | 2,143 | 2,418 | 29 | 293 | 1,821 | 2,096 | 15 | 21 | 5 | 48 | -38 | -32 |
| 2022 | 2,179 | 2,464 | 39 | 369 | 1,771 | 2,056 | 2,165 | 2,445 | 30 | 317 | 1,818 | 2,098 | 14 | 19 | 9 | 52 | -47 | -42 |
| 2023 | 2,200 | 2,490 | 43 | 395 | 1,762 | 2,052 | 2,187 | 2,472 | 31 | 339 | 1,817 | 2,102 | 13 | 18 | 12 | 56 | -55 | -50 |
| 2024 | 2,220 | 2,515 | 47 | 418 | 1,755 | 2,050 | 2,209 | 2,499 | 32 | 358 | 1,819 | 2,109 | 11 | 16 | 15 | 60 | -64 | -59 |
| 2025 | 2,241 | 2,540 | 50 | 439 | 1,752 | 2,051 | 2,231 | 2,526 | 33 | 375 | 1,823 | 2,118 | 10 | 14 | 17 | 64 | -71 | -67 |
| 2026 | 2,262 | 2,566 | 54 | 457 | 1,751 | 2,054 | 2,253 | 2,553 | 34 | 391 | 1,828 | 2,128 | 9 | 13 | 20 | 66 | -77 | -74 |
| 2027 | 2,284 | 2,592 | 57 | 474 | 1,753 | 2,061 | | | | | | | | | | | | |

Rhode Island Forecast Comparison: Winter Demand

Draft 2018 CELT and 2017 CELT

| 2018 CELT (MW) | | | | | | | 2017 CELT (MW) | | | | | | Change (MW) | | | | | |
|----------------|-------------|-------------|--------|-----|-----------|-----------|----------------|-------------|--------|-----|-----------|-----------|-------------|-------------|--------|----|-----------|-----------|
| Year | Gross 50/50 | Gross 90/10 | BTM PV | EE | Net 50/50 | Net 90/10 | Gross 50/50 | Gross 90/10 | BTM PV | EE | Net 50/50 | Net 90/10 | Gross 50/50 | Gross 90/10 | BTM PV | EE | Net 50/50 | Net 90/10 |
| 2018 | 1,482 | 1,531 | 0 | 240 | 1,242 | 1,291 | 1,458 | 1,484 | 0 | 198 | 1,260 | 1,286 | 24 | 47 | 0 | 42 | -18 | 5 |
| 2019 | 1,484 | 1,533 | 0 | 274 | 1,210 | 1,258 | 1,462 | 1,489 | 0 | 218 | 1,244 | 1,271 | 22 | 44 | 0 | 56 | -34 | -13 |
| 2020 | 1,486 | 1,535 | 0 | 306 | 1,180 | 1,229 | 1,468 | 1,494 | 0 | 268 | 1,200 | 1,226 | 18 | 41 | 0 | 38 | -20 | 3 |
| 2021 | 1,491 | 1,539 | 0 | 336 | 1,155 | 1,203 | 1,473 | 1,499 | 0 | 295 | 1,178 | 1,204 | 18 | 40 | 0 | 41 | -23 | -1 |
| 2022 | 1,496 | 1,544 | 0 | 364 | 1,132 | 1,181 | 1,479 | 1,505 | 0 | 319 | 1,160 | 1,186 | 17 | 39 | 0 | 45 | -28 | -5 |
| 2023 | 1,501 | 1,549 | 0 | 389 | 1,112 | 1,160 | 1,484 | 1,511 | 0 | 341 | 1,143 | 1,170 | 17 | 38 | 0 | 48 | -31 | -10 |
| 2024 | 1,506 | 1,554 | 0 | 412 | 1,094 | 1,142 | 1,491 | 1,517 | 0 | 360 | 1,131 | 1,157 | 15 | 37 | 0 | 52 | -37 | -15 |
| 2025 | 1,510 | 1,559 | 0 | 432 | 1,078 | 1,126 | 1,497 | 1,523 | 0 | 378 | 1,119 | 1,145 | 13 | 36 | 0 | 54 | -41 | -19 |
| 2026 | 1,516 | 1,564 | 0 | 450 | 1,065 | 1,114 | 1,504 | 1,530 | 0 | 393 | 1,111 | 1,137 | 12 | 34 | 0 | 57 | -46 | -23 |
| 2027 | 1,521 | 1,570 | 0 | 466 | 1,055 | 1,103 | | | | | | | | | | | | |

Vermont Forecast Comparison: Annual Energy

Draft 2018 CELT and 2017 CELT

| Draft 2018 CELT (GWh) | | | | | 2017 CELT (GWh) | | | | | Change (GWh) | | | |
|-----------------------|-------|--------|-------|-------|-----------------|--------|-------|-------|-------|--------------|-----|------|--|
| Year | Gross | BTM PV | EE | Net | Gross | BTM PV | EE | Net | Gross | BTM PV | EE | Net | |
| 2018 | 6,956 | 345 | 797 | 5,815 | 6,910 | 311 | 855 | 5,744 | 47 | 34 | -58 | 71 | |
| 2019 | 7,007 | 380 | 922 | 5,706 | 6,953 | 345 | 806 | 5,802 | 55 | 35 | 116 | -96 | |
| 2020 | 7,040 | 408 | 1,040 | 5,593 | 6,992 | 377 | 729 | 5,886 | 48 | 31 | 311 | -293 | |
| 2021 | 7,090 | 434 | 1,151 | 5,505 | 7,035 | 407 | 847 | 5,781 | 55 | 27 | 304 | -276 | |
| 2022 | 7,140 | 459 | 1,255 | 5,426 | 7,085 | 435 | 958 | 5,692 | 55 | 24 | 297 | -267 | |
| 2023 | 7,188 | 484 | 1,351 | 5,353 | 7,137 | 464 | 1,062 | 5,611 | 51 | 20 | 289 | -258 | |
| 2024 | 7,230 | 510 | 1,439 | 5,281 | 7,189 | 492 | 1,158 | 5,539 | 40 | 18 | 281 | -258 | |
| 2025 | 7,270 | 535 | 1,519 | 5,216 | 7,240 | 521 | 1,248 | 5,471 | 30 | 14 | 271 | -255 | |
| 2026 | 7,311 | 559 | 1,592 | 5,160 | 7,291 | 549 | 1,330 | 5,412 | 20 | 10 | 262 | -252 | |
| 2027 | 7,353 | 584 | 1,654 | 5,115 | | | | | | | | | |

Vermont Forecast Comparison: Summer Demand

Draft 2018 CELT and 2017 CELT

| 2018 CELT (MW) | | | | | | | 2017 CELT (MW) | | | | | | Change (MW) | | | | | |
|----------------|----------------|----------------|--------|-----|--------------|--------------|----------------|----------------|--------|-----|--------------|--------------|----------------|----------------|--------|-----|--------------|--------------|
| Year | Gross 50/50 | Gross 90/10 | BTM PV | EE | Net 50/50 | Net 90/10 | Gross 50/50 | Gross 90/10 | BTM PV | EE | Net 50/50 | Net 90/10 | Gross 50/50 | Gross 90/10 | BTM PV | EE | Net 50/50 | Net 90/10 |
| 2018 | 1,113 | 1,159 | 105 | 114 | 894 | 940 | 1,121 | 1,166 | 90 | 126 | 905 | 950 | -8 | -7 | 15 | -12 | -11 | -10 |
| 2019 | 1,118 | 1,165 | 112 | 129 | 878 | 925 | 1,128 | 1,174 | 96 | 120 | 912 | 958 | -10 | -9 | 16 | 9 | -34 | -33 |
| 2020 | 1,123 | 1,170 | 116 | 142 | 865 | 912 | 1,134 | 1,182 | 102 | 98 | 934 | 982 | -11 | -12 | 14 | 44 | -69 | -70 |
| 2021 | 1,128 | 1,176 | 119 | 155 | 854 | 902 | 1,141 | 1,190 | 107 | 112 | 922 | 971 | -13 | -14 | 12 | 43 | -68 | -69 |
| 2022 | 1,133 | 1,182 | 122 | 167 | 844 | 893 | 1,149 | 1,198 | 112 | 125 | 912 | 961 | -16 | -16 | 10 | 42 | -68 | -68 |
| 2023 | 1,138 | 1,187 | 125 | 178 | 836 | 885 | 1,156 | 1,206 | 117 | 137 | 902 | 952 | -18 | -19 | 8 | 41 | -66 | -67 |
| 2024 | 1,143 | 1,193 | 127 | 187 | 828 | 878 | 1,163 | 1,214 | 121 | 149 | 893 | 944 | -20 | -21 | 6 | 38 | -65 | -66 |
| 2025 | 1,148 | 1,198 | 129 | 197 | 822 | 872 | 1,170 | 1,223 | 126 | 160 | 884 | 937 | -22 | -25 | 3 | 37 | -62 | -65 |
| 2026 | 1,153 | 1,204 | 132 | 205 | 816 | 867 | 1,178 | 1,231 | 131 | 169 | 878 | 931 | -25 | -27 | 1 | 36 | -62 | -64 |
| 2027 | 1,158 | 1,209 | 134 | 212 | 812 | 863 | | | | | | | | | | | | |

Vermont Forecast Comparison: Winter Demand

Draft 2018 CELT and 2017 CELT

| 2018 CELT (MW) | | | | | | | 2017 CELT (MW) | | | | | | Change (MW) | | | | | |
|----------------|-------------|-------------|--------|-----|-----------|-----------|----------------|-------------|--------|-----|-----------|-----------|-------------|-------------|--------|----|-----------|-----------|
| Year | Gross 50/50 | Gross 90/10 | BTM PV | EE | Net 50/50 | Net 90/10 | Gross 50/50 | Gross 90/10 | BTM PV | EE | Net 50/50 | Net 90/10 | Gross 50/50 | Gross 90/10 | BTM PV | EE | Net 50/50 | Net 90/10 |
| 2018 | 1,115 | 1,132 | 0 | 142 | 973 | 990 | 1,113 | 1,130 | 0 | 119 | 994 | 1,011 | 2 | 2 | 0 | 23 | -21 | -21 |
| 2019 | 1,121 | 1,139 | 0 | 125 | 995 | 1,013 | 1,118 | 1,136 | 0 | 114 | 1,004 | 1,022 | 3 | 3 | 0 | 11 | -9 | -9 |
| 2020 | 1,125 | 1,143 | 0 | 139 | 986 | 1,004 | 1,123 | 1,141 | 0 | 98 | 1,025 | 1,043 | 2 | 2 | 0 | 41 | -39 | -39 |
| 2021 | 1,131 | 1,149 | 0 | 151 | 980 | 998 | 1,129 | 1,146 | 0 | 112 | 1,017 | 1,034 | 2 | 3 | 0 | 39 | -37 | -36 |
| 2022 | 1,137 | 1,155 | 0 | 163 | 974 | 992 | 1,135 | 1,153 | 0 | 125 | 1,010 | 1,028 | 2 | 2 | 0 | 38 | -36 | -36 |
| 2023 | 1,142 | 1,160 | 0 | 173 | 969 | 987 | 1,142 | 1,160 | 0 | 137 | 1,005 | 1,023 | 0 | 0 | 0 | 36 | -36 | -36 |
| 2024 | 1,147 | 1,165 | 0 | 183 | 964 | 982 | 1,149 | 1,166 | 0 | 149 | 1,000 | 1,017 | -2 | -1 | 0 | 34 | -36 | -35 |
| 2025 | 1,152 | 1,170 | 0 | 192 | 960 | 978 | 1,156 | 1,173 | 0 | 160 | 996 | 1,013 | -4 | -3 | 0 | 32 | -36 | -35 |
| 2026 | 1,157 | 1,175 | 0 | 200 | 957 | 974 | 1,162 | 1,180 | 0 | 169 | 993 | 1,011 | -5 | -5 | 0 | 31 | -36 | -37 |
| 2027 | 1,162 | 1,179 | 0 | 207 | 955 | 972 | | | | | | | | | | | | |