

THE STATE OF NEW HAMPSHIRE
BEFORE THE
NEW HAMPSHIRE PUBLIC UTILITIES COMMISSION

DOCKET NO. DE 21-XXX
PETITION FOR RECOVERY OF STORM EXPENSES

PREPARED TESTIMONY OF
ERICA L. MENARD AND DEAN C. DESAUTELS

On behalf of Public Service Company of New Hampshire
d/b/a Eversource Energy

April 30, 2021

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1 **I. INTRODUCTION**

2 **Q. Ms. Menard, please state your name, position, and business address.**

3 A. My name is Erica L. Menard. My business address is 780 North Commercial Street, Manchester,
4 New Hampshire. I am employed by Eversource Energy Service Company as the Manager of New
5 Hampshire Revenue Requirements and in that position, I provide service to Public Service
6 Company of New Hampshire d/b/a Eversource Energy (“Eversource” or the “Company”).

7 **Q. Have you previously testified before the Commission?**

8 A. Yes.

9 **Q. What are your current responsibilities?**

10 A. I am currently responsible for the coordination and implementation of revenue requirements
11 calculations for Eversource, as well as the rate and regulatory filings associated with Eversource’s
12 default Energy Service (“ES”) rate, Stranded Cost Recovery Charge (“SCRC”), Transmission Cost
13 Adjustment Mechanism (“TCAM”), System Benefits Charge (“SBC”), Regulatory Reconciliation
14 Adjustment mechanism (“RRA”), and Distribution Rates.

15 **Q. Mr. Desautels, please state your name, position, and business address.**

16 A. My name is Dean C. Desautels. My business address is 780 North Commercial Street, Manchester,
17 New Hampshire. I am employed by Eversource Energy Service Company as the Manager of

1 Emergency Preparedness and in that position, I provide service to Public Service Company of New
2 Hampshire d/b/a Eversource Energy (“Eversource” or the “Company”).

3 **Q. Have you previously testified before the Commission?**

4 A. No.

5 **Q. Please summarize your professional and education background.**

6 A. I have worked in the utility industry for 21 years with the last 6 years as Manager of Emergency
7 Preparedness for Eversource Energy’s New Hampshire Electric Operations. I have previously held
8 similar positions for Eversource in Connecticut and National Grid in Massachusetts. I hold a
9 Bachelor of Science in Electrical Engineering from Norwich University and a Certificate of
10 Business Leadership from Worcester Polytechnical Institute’s School of Industrial Management.

11 **Q. What are your current responsibilities?**

12 A. I am currently responsible for the Emergency Response Plan for the Company, including
13 coordinating for preparedness, response, and recovery activities for emergency incidents, including
14 severe weather events.

15 **Q. What is the purpose of your joint testimony?**

16 A. Our testimony presents information on nine pre-staging and storm response events and associated
17 costs that occurred between October 2019 and May 2020 for review. There were storms in October
18 through December 2020, but as the costs are not yet finalized, the Company notes these for the
19 Commission here and below. Further information on these events will be included in the
20 Company’s next annual report, consistent with the directive in the Commission’s March 26, 2019
21 letter in Docket No. DE 18-058. The Storm Events are all eligible for storm-fund deferral treatment
22 pursuant to the Major Storm Cost Reserve (“MSCR”) mechanism established in Docket No. DE
23 99-099 and the pre-staging criteria approved in Docket No. DE 12-320.

1 **Q. Is the Company proposing a rate to take effect as a result of this filing?**

2 A. No. The Company is not proposing a rate for effect as part of this filing. The Company is
3 requesting that the storm costs be reviewed for accuracy and recovered through the MSCR.

4 **Q. Please define the requirements for a weather event to be applicable for recovery within the
5 MSCR.**

6 A. For all impending storms, Eversource receives an Energy Event Index (“EEI”) from its outside
7 vendor, DTN. The EEI provides highly detailed weather forecasts by region and zone for the
8 Eversource service area. DTN’s EEI forecast includes all relevant weather metrics needed to
9 determine the likely severity and location of an impending severe storm. The EEI ranks the strength
10 of the storm on a scale from 1 to 5, where 5 will be the most severe and cause the most damage,
11 and then applies a likelihood against the forecasted strength of the storm. Pursuant to the criteria
12 established in Docket No. DE 12-320, pre-staging costs can be recovered through the MSCR if the
13 weather event has a “high” (greater than 60% based on the forecast) probability of reaching “Level
14 3” or stronger, according to the EEI. *See* Order No. 25,465 (February 26, 2013) in Docket No. DE
15 12-320 at 4. For non-pre-staging events, once a storm has hit, for a weather event to be considered
16 a Major Storm eligible for recovery through the MSCR certain criteria must be met. A Major Storm
17 is defined as an event that results in either: a) 10% or more of Eversource’s retail customers being
18 without power in conjunction with more than 200 reported troubles; or b) more than 300 reported
19 troubles during the event. *See* Order No. 25,465 at 1.

20 **Q. Can you please list the Storm Events which are the subject of this filing?**

21 A. In this filing, the Company is presenting information supporting the costs for ten storm and pre-
22 staging events that occurred from October 2019 through May 2020: (1) October 16, 2019 Major
23 Storm; (2) October 31, 2019 Major Storm; (3) December 2, 2019 Pre-Staging event; (4) December
24 30, 2019 Pre-Staging event; (5) February 7, 2020 Major Storm; (6) February 7, 2020 Pre-Staging

1 event; (7) February 26, 2020 Pre-Staging event; (8) March 23, 2020 Major Storm; (9) April 13,
2 2020 Pre-Staging event; (10) May 15, 2020 Pre-Staging event (collectively, the “Storm Events”).

3 **Q. Are there any 2020 major storm or pre-staging events that occurred but are not included in**
4 **this filing because their costs are not yet “finalized”?**

5 A. In the Commission’s March 26, 2019 secretarial letter issued in Docket No. DE 18-058, the
6 Company was instructed to:

7 include only those storms from the prior calendar for which the final costs have
8 been calculated. Eversource should make note of any storms where costs are not
9 finalized by the May 1 report date, and include these storms with final expenses in
10 the Company’s filed report for the subsequent calendar year.

11 March 26, 2019 Secretarial Letter in Docket No. DE 18-058 at 3.

12 The settlement agreement in Docket No. DE 19-057 reaffirms the March 26, 2019 secretarial letter
13 and states:

14 The Company shall continue to file reports on storm costs annually on May 1, consistent
15 with current practice. Storms that have 100 percent of costs booked will be included in
16 each storm report and any storm with costs that are not 100 percent booked will be included
17 in the storm report in the year following the booking of all costs.

18 October 9, 2020 Settlement Agreement in Docket No. DE 19-057 at 10.

19 Excluded from this filing are the August 4, 2020 Major Storm, December 5, 2020 Major Storm,
20 December 16, 2020 Pre-Staging event as their costs are not yet “finalized”.

21 **Q. How does the Company determine whether a Storm Event’s costs are “finalized” or**
22 **not?**

23 A. A Storm Event’s costs are considered “finalized” when there are no longer any unvouchered
24 liabilities (“UVLs”) charged to the work order. UVLs are used to record or estimate the liability
25 that exists for work performed for the Company, but for which an actual invoice has not yet been

1 received.

2 **Q. Does the Company’s filing of finalized storm costs guarantee that a relevant charge will not**
3 **be received after costs have been filed for recovery?**

4 A. No. Even though the process in place for tracking, revising, and finalizing storm costs is relatively
5 reliable, there is still the possibility for a relevant charge be received after the storm costs have been
6 filed. This situation could occur if invoices were received and a liability was not recorded or
7 applied. The Company will include these late charges in subsequent annual storm cost recovery
8 filings.

9 **Q. Are there any relevant charges that have been recorded for prior Storm Events that have**
10 **been previously audited?**

11 A. No.

12 **Q. Please provide a brief history of the Major Storm Cost Reserve and describe its evolution.**

13 A. The Company is allowed to defer costs attributable to pre-staging and restoration efforts deriving
14 from severe weather events that meet the criteria mentioned previously. Under the Docket No.
15 DE 99-099 Settlement, Eversource established its MSCR, with annual funding of \$3.0 million,
16 for the purpose of covering the incremental costs associated with severe weather events. Under
17 the Docket No. DE 09-035 Settlement, Eversource was authorized to increase the funding level to
18 \$3.5 million annually. Under Order No. 25,382 (June 27, 2012) in Docket No. DE 12-110,
19 Eversource was authorized to increase the funding level to \$7.0 million annually. Order No.
20 25,465 in Docket No. DE 12-320 allowed pre-staging events that had a “high” probability of
21 reaching “Level 3” according to the EEI to be eligible for recovery under the MSCR. Under
22 Order No. 25,534 (June 27, 2013) in Docket No. DE 13-127, Eversource was authorized to
23 increase the funding level to \$12.0 million annually. Order No. 26,433 (December 15, 2020) in

1 Docket No. DE 19-057 continued to set the funding level to \$12.0 million annually. Order No.
2 26,433 also permits the Company to file for a separate, temporary amortization of storm costs for
3 storm events that exceed \$25 million per event, which may include a request to recover costs for
4 repair or damage due to such storm events through a surcharge (Storm Cost Adjustment
5 Mechanism).

6 **Q. How is this filing organized?**

7 A. This filing is organized to facilitate the efficient review of costs by the Commission and its Staff.
8 To achieve this objective, the Company has developed exhibits that organize the costs incurred for
9 each storm into the following format: (1) summary of costs by storm; (2) summary of costs by
10 category by storm. Documentation and supporting backup analysis are being made available to the
11 Commission's Audit Staff.

12 Following this introduction is a review of each qualifying storm and associated costs by category
13 in Section II. Section II also describes the review process that is undertaken to analyze charges
14 from outside vendors to ensure that costs are accurate and reasonable. Section III provides
15 concluding remarks.

16 **II. QUALIFYING EVENT OVERVIEW AND COST ANALYSIS**

17 **Q. For the Storm Events which have yet to be audited, please provide the total amount of storm
18 costs included in this filing related to the restoration of power.**

19 A. As illustrated in the table below, the Company incurred storm-related preparation and response
20 costs totaling approximately \$16.4 million in relation to the nine Storm Events listed. These
21 amounts do not include any costs capitalized within utility plant on the Company's books nor the
22 carrying charge associated with the costs incurred. Including the carrying charge associated with
23 the timing of each of these expenditures, the total cost including carrying charges as of April 30,

1 2021 is approximately \$17.6 million.

Storm	Direct Costs	Carrying Costs 04/30/2021	Total Cost 04/30/2021
10/16/19 Major Storm	\$ 5,314,963	\$ 419,819	\$ 5,734,782
10/31/19 Major Storm	\$ 4,654,903	\$ 340,599	\$ 4,995,502
12/02/19 Pre-Staging	\$ 245,827	\$ 16,481	\$ 262,307
12/30/19 Pre-Staging	\$ 203,689	\$ 13,252	\$ 216,942
02/07/20 Major Storm	\$ 3,662,237	\$ 220,061	\$ 3,882,298
02/26/20 Pre-Staging	\$ 34,376	\$ 1,946	\$ 36,321
03/23/20 Major Storm	\$ 1,902,933	\$ 101,199	\$ 2,004,132
04/13/20 Pre-Staging	\$ 405,673	\$ 20,077	\$ 425,750
05/15/20 Pre-Staging	\$ 22,249	\$ 1,063	\$ 23,312
Total	\$ 16,446,849	\$ 1,134,497	\$ 17,581,346

2

3 **Q. Did the Company review the incremental storm expenses to ensure the amounts identified**
4 **are accurate and correctly attributable to each event?**

5 A. Yes. The Company undertook a thorough review of invoices and costs recorded to the Company's
6 system in relation to these events. In conducting that review, the Company carefully examined the
7 charges to confirm that the costs are incremental costs directly attributable to the emergency
8 response and not otherwise represented or recoverable in any other distribution rate, charge, or
9 tariff.

10 Moreover, all the costs presented for recovery in this filing were reasonably and necessarily
11 incurred to prepare for and respond to the Storm Events. The costs in this filing were incurred to
12 make the repairs necessary to address the damage caused by those severe weather events and
13 support the restoration effort or to prepare for the potential severe weather event.

14 **Q. What is the Company's primary tool for accounting for storm restoration costs?**

15 A. During the pre-storm planning process for a pending Emergency Response Plan ("ERP") event, the
16 Company establishes storm work orders within its financial system to capture costs as those costs
17 are incurred. All applicable costs are captured in the work order. For example, as employees work

1 on restoration efforts, all their appropriate work hours are charged to the appropriate work order,
2 which allows for the tracking of storm costs. To capture costs incurred by employees in fulfilling
3 their storm duties, the Company utilizes procurement cards. The purpose of these purchases is to
4 acquire needed items that are not typically maintained in inventory and are not capital items or for
5 expenses related to food and lodging where the Company does not have an established purchase
6 order. Examples of these types of items include tape and slings needed to make an area safe.
7 Procurement cards allow employees to make immediate purchases from vendors, while
8 simultaneously providing management line-of-sight supervisory ability to monitor charges and
9 assess whether the charges are appropriate and includable for storm-cost recovery. For an ERP
10 event, corporate procurement cards are used to ensure that costs are segregated and recorded
11 directly to specific storm-related accounts on the Company's accounting books and records.
12 Receipts for all purchases are required for submission into the Company system. The Company's
13 systems also allow for supervision of the card use for all corporate procurement cards.

14 **Q. Are capitalized storm costs excluded from this request for recovery?**

15 A. Yes. In a Major Storm event, capital costs are incurred in relation to the restoration and/or
16 replacement of distribution equipment damaged by the storm. Capital work occurs in two phases
17 of the storm: (1) during the initial phase of the storm, in the days immediately following the storm
18 when the Company is working to restore power to customers efficiently and safely; and (2) during
19 the non-emergency, post-storm restoration phase, which can last well after the event date, as
20 permanent repairs are made to replace temporary repairs made to restore power immediately
21 following the storm.

22 In general terms, work is considered capital under utility general accounting rules where a unit of
23 property is either replaced or newly installed. During the initial phase of the storm, there is a
24 significant level of activity occurring, all with a paramount focus on a safe and expeditious
25 restoration. Therefore, initially all material and labor are charged to the expense work order

1 established for the event to track costs for the storm event. After the storm, all material charges are
2 reviewed and any units of property are moved to a capital work order, along with the associated
3 labor costs. As a result, the costs submitted in this filing for recovery through rates are exclusive
4 of any capitalized costs incurred to make storm-related repairs. All capital costs are simply
5 reflected within utility plant subject to the ordinary distribution ratemaking process.

6 Here is the process for capitalizing materials used during a storm:

7 All restoration costs are initially accumulated in an expense work order specific to that event. Once
8 the costs have been collected in the work order, the material issued or charged to the storm expense
9 work order is reviewed to identify capital units of property (retirement units). Based upon the units
10 of property identified, an estimate is developed of the work performed during a storm that should
11 be capitalized. This estimating process utilizes information from the Company's work management
12 system, such as man-hour estimates, to develop the installed cost associated with the replacement
13 of capital units of property during the storm restoration. The installed cost of the capital units of
14 property is estimated at a high level (labor, vehicles, material, overheads), but not at a transaction
15 level. Once the capitalized costs are determined, they are transferred from the storm expense work
16 order to a separate capital work order and ultimately closed to the appropriate plant accounts. This
17 process has been used by Eversource for many years to capitalize material costs during a Major
18 Storm event as it would be burdensome to charge each capital item to a unique work order as is the
19 case when work is performed in a non-storm restoration situation.

20 **Q. In Docket No. DE 18-058, Audit Staff and Staff recommended removing certain charges**
21 **deemed to be "Media Communications". Are these costs included in the schedules for these**
22 **weather events?**

23 **A.** While no costs exist for Ergonomics Group or Twenty First Century, for the events included in
24 this submission the Company has utilized the services of West Interactive Services Corp. and

1 Kubra Arizona Inc. to fulfill a similar role as Twenty First Century had in prior events. Included
2 in the final revenue requirement filed on January 22, 2021 in Docket No. DE 19-057, on Bates
3 16, line 49, an adjustment of \$69,523 was made to the 2018 test year to incorporate costs
4 associated with West Interactive into the base revenue requirement. Since West Interactive costs
5 are incorporated into base rates, these costs are not included in storm cost recovery filings going
6 forward.

7 **Q. Would you please provide an overview of the costs that are included for review in this filing,**
8 **by cost category?**

9 A. Yes. The Company has organized the costs relating to each storm event into four categories.
10 These categories are: (1) charges from external contractors, other outside vendors, procurement
11 card and other logistical charges; (2) incremental storm related payroll costs, payroll related
12 overheads and taxes, and employee expenses; (3) incremental vehicle costs; and (4) materials
13 costs. The table below identifies costs for each storm in these categories.

Storm	External Contractors / Outside Vendors / Procurement Cards	Payroll, Overheads and Taxes, Employee Expenses	Vehicle Expenses	Materials & Supplies	Total Direct Costs
10/16/19 Major Storm	\$ 3,598,644	\$ 1,411,565	\$ 251,077	\$ 53,678	\$ 5,314,963
10/31/19 Major Storm	\$ 2,966,621	\$ 1,482,416	\$ 193,793	\$ 12,073	\$ 4,654,903
12/02/19 Pre-Staging	\$ 179,091	\$ 43,531	\$ 23,205	\$ -	\$ 245,827
12/30/19 Pre-Staging	\$ 175,615	\$ 19,886	\$ 8,188	\$ -	\$ 203,689
02/07/20 Major Storm	\$ 2,579,616	\$ 859,371	\$ 213,434	\$ 9,816	\$ 3,662,237
02/26/20 Pre-Staging	\$ 25,485	\$ 6,295	\$ 2,596	\$ -	\$ 34,376
03/23/20 Major Storm	\$ 1,343,422	\$ 448,444	\$ 108,308	\$ 2,758	\$ 1,902,933
04/13/20 Pre-Staging	\$ 371,468	\$ 28,159	\$ 6,047	\$ -	\$ 405,673
05/15/20 Pre-Staging	\$ 745	\$ 16,893	\$ 4,610	\$ -	\$ 22,249
14 Total	\$ 11,240,706	\$ 4,316,560	\$ 811,258	\$ 78,325	\$ 16,446,849

15 Documentation and/or analyses are provided for each of these categories. Below, each one of
16 these categories is discussed to provide an explanation of each category.

1 **Q. For the first category of costs identified as external contractors, outside vendors,**
2 **procurement card and other logistical charges, please explain what types of costs are included**
3 **in this category?**

4 A. This category encompasses any external product or service required by the Company to prepare
5 for and execute the restoration effort. The total costs incurred in this category for the Storm
6 Events are approximately \$11.2 million. The costs billed to Eversource in this category are costs
7 incurred in relation to external contractors and outside vendors providing services in three
8 primary classifications: (1) overhead line and service crews; (2) vegetation-management services;
9 and (3) other invoiced costs, such as environmental, communications, police detail,
10 transportation, professional logistics, and food and lodging expenses.

11 **Q. Would you explain what types of costs are incurred in relation to overhead line and service**
12 **crews, and vegetation management services?**

13 A. Yes. Costs incurred in the classification of overhead line crews are for repair crews called in to
14 work on the overhead system to restore power to customers. Within this category, there are two
15 types of resources: (1) professional line contractors and service crews engaged to work on the
16 Eversource system during severe weather emergency periods; and (2) mutual aid line crews
17 obtained from other electric utilities.

18 Costs incurred in the classification of vegetation management are for the crews that are responsible
19 for the safe removal of trees, branches, and other like debris that has created outages along
20 Eversource's system. These resources are professional contractors engaged to work on the
21 Eversource system during severe weather emergency periods.

22 **Q. How are the rates for these three types of crews established?**

23 A. The rates paid to contractors who work on the Eversource system during non-emergency periods
24 are established through a negotiated purchase order process, which defines the rate structure. The

1 rates for external contract crews hired for the exclusive purpose of the storm are also established
2 through the negotiated purchase order process. The rates for mutual aid crews are established
3 through the Edison Electric Institute's Governing Principles Covering Emergency Assistance
4 Arrangements Between Edison Electric Institute Member Companies. The principle of mutual aid
5 is that a utility is compensated based on its cost to provide services to another utility.

6 **Q. What is the internal review process that is followed to verify that invoiced costs from external**
7 **contractors and outside vendors are correct?**

8 A. The Resource Acquisition Section of Eversource's ERP is comprised of individuals who are
9 responsible for the procurement of contractor resources. The Resource Acquisition Section works
10 in partnership with the Logistics Section and the Company's Procurement Department to secure
11 contractors at the direction of the Incident Commander and Electric Operations Section Chief, with
12 input from the other ERP section chiefs, as appropriate. As part of the procurement process, rates
13 and mobilization/demobilization procedures are negotiated and agreed to with the vendor. In
14 addition, throughout the event, Eversource supervisors are specifically assigned to the external
15 crews to oversee the work of external resources. Each day, the contractors prepare timesheets,
16 which are verified and signed off by the designated Eversource supervisor to ensure that the
17 indicated work hours are accurate.

18 After the event, each contractor hired by Eversource to perform storm-related services renders
19 invoice(s) related to those services. The invoice detail is initially reviewed by Eversource clerical
20 personnel, who are responsible for verifying that accurate (contract) rates are charged for each job
21 classification based on the rates negotiated. The clerical employee also verifies the mathematical
22 accuracy of the calculations on the bill, as well as whether the hours on the invoice align with the
23 hours reported to the Company (or recorded by the Company) during the event. After this initial

1 review, the invoices are further reviewed by an Eversource supervisor prior to approval of the
2 invoice in accordance with the Company's Delegation of Authority.

3 During the review of these invoices, if discrepancies are identified or additional information is
4 needed, Eversource personnel contact the vendor and, if adequate supporting documentation is not
5 available, invoice charges are rejected in part or in total, as appropriate. In addition, if discrepancies
6 are identified that resulted in over or under charging, Eversource works with the vendors to
7 reconcile and pay the appropriate amount due.

8 **Q. How are procurement card and other logistical costs compiled?**

9 A. A large portion of these costs relate to lodging and meals for external contractors working on the
10 system. The Company also provides meals and lodging for internal crews and support staff who
11 may have to travel some distance from home or work extended hours to perform restoration work
12 within the Eversource service territory.

13 **Q. How are lodging and meals procured and tracked?**

14 A. The Logistics Section of the ERP team is responsible for arranging lodging for internal and external
15 personnel. In advance of a storm event, the Logistics team coordinates with hotels across the
16 system to validate the availability of rooms depending on the size of the event. As rooms are
17 needed, the hotels with sufficient availability in the areas where contractor resources will be
18 assigned are called to book lodging. All invoices associated with meals and lodging are reviewed
19 by the Logistics Section and signed off by the manager in charge of the group to assure that the
20 Company only pays for lodging and not for un-related room charges.

21 In most cases, lodging arrangements are paid for via a procurement card. All cardholders are
22 responsible for the charges on their procurement card and are required to provide receipts along
23 with the associated statements to their managers for final review and approval. Procurement cards
24 are also utilized to pay for meals or food brought into the area work centers for those employees

1 working there. The Logistics Section coordinates the meal arrangements at the various area work
2 centers. Meals and water as needed are also purchased by individuals who have their own
3 designated procurement cards.

4 **Q. For the second category of incremental storm related payroll costs, how have costs been**
5 **compiled for this category?**

6 A. The costs incurred for payroll and payroll-related costs are approximately \$4.3 million. This
7 includes direct payroll costs for all companies as well as payroll-related overheads and taxes for
8 affiliates which would not have been incurred by Eversource except for the need to conduct the
9 storm-response effort. Employee expenses are also included in this category. Costs eligible for
10 reimbursement include meals, mileage and travel expenses for those employees that are working
11 the storm event that may not have a procurement card or as contractually obligated.

12 Direct payroll costs include the labor costs for union and non-union personnel. Employees are
13 required to account for each hour worked every day. Employees in the field with a designated
14 timekeeper fill out a paper or online timesheet with their hours worked. The timesheet is reviewed
15 and approved by the employee's supervisor and entered into Eversource's time and attendance
16 system by a clerical employee in the office. Employees with access to Eversource's time and
17 attendance system enter their own time directly and supervisors review and approve payroll in that
18 system.

19 For the union personnel discussed above, the actual costs related to their worked hours is based on
20 the applicable collective-bargaining agreement(s). Exempt employee time is captured and tracked
21 in the same storm account. Since exempt employees are not routinely paid for overtime, this time
22 entry is for tracking purposes only. During the most severe weather events, exempt employees are
23 required to work an extensive number of hours over their typical work week. Depending on the
24 severity of the event, exempt operations supervisory employees are paid for overtime worked

1 during a storm event, consistent with the Eversource storm pay policy. For exempt employees who
2 do not fall into the operations supervision category or if the ERP level of the event is not met,
3 employees at the level of manager and below may be awarded fixed compensation.

4 **Q. Do any of the Storm Events that contain compensation awards for exempt employees?**

5 A. Yes. One event, the October 31, 2019 major storm, contains compensation awards for exempt
6 employees who worked extended hours in support of the restoration process.

7 **Q. Has the Company removed overtime costs associated with storm-related capital work?**

8 A. Yes. As mentioned above, the Company uses a capitalization process that estimates the labor costs
9 associated with the capital units of property installed and removed during a restoration event.
10 Factored into that estimation is an assumption that all work is performed under adverse weather
11 conditions and on overtime. Therefore, overtime is removed from the storm costs when labor costs
12 are transferred from the expense work order to the capital work order. Overheads and loaders,
13 including vehicle cost allocations, are applied to the labor and material costs capitalized.

14 **Q. For the third category of vehicle costs, please explain the costs incurred due to vehicles.**

15 A. Vehicle costs are incurred when a Company vehicle is needed to perform restoration work or, in
16 the case of pre-staging, be deployed in advance of the anticipated weather to be ready to respond
17 to the most affected areas as they emerge. The costs allocated for use of vehicles during the
18 restoration work are approximately \$0.8 million.

19 **Q. The fourth category is materials. How are costs compiled for this category?**

20 A. The costs incurred for materials are approximately \$0.1 million. The Materials category represents
21 the incremental costs associated with the materials used to restore power and repair storm damage.
22 Typically, these are small items like tape, nuts and bolts, and short sections of wire, safety, and
23 protective equipment. Also included in these amounts are store and lobby stock items purchased
24 during a storm event. Capitalized materials offset the costs incurred in this category.

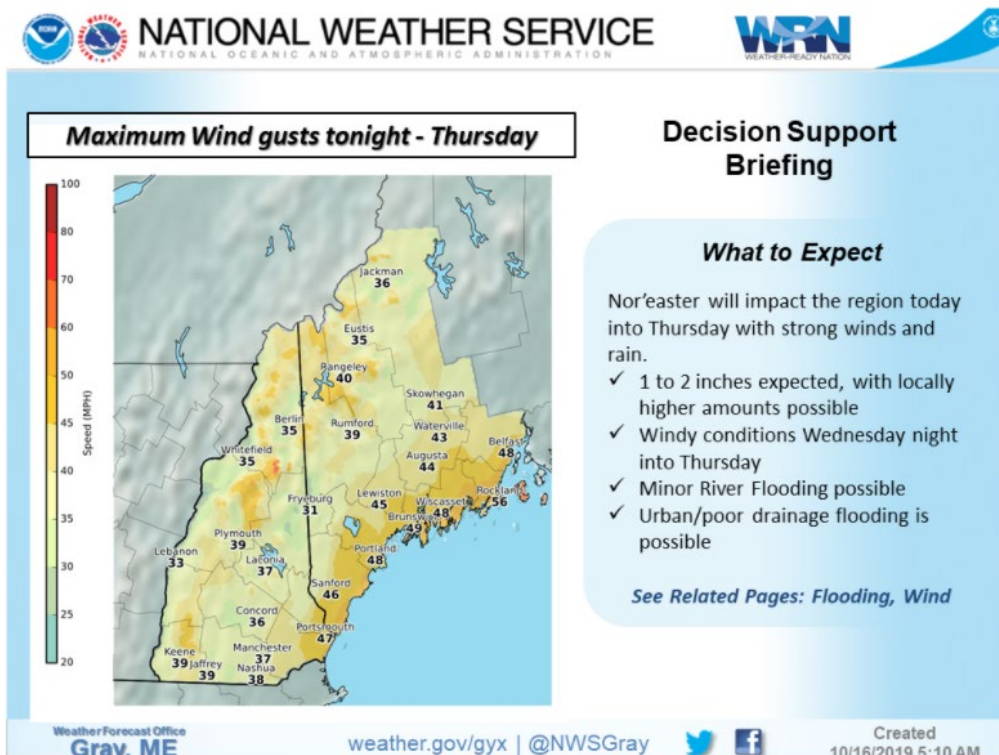
1 **Q. Did the Company implement any COVID-19 protocols for the Storm Events?**

2 A. Yes. The Company implemented protocols to ensure employees were adhering to Company, state
3 and local protocols beginning in March 2020. In addition, many Eversource employees were able
4 to support the restoration and pre-staging efforts while working remotely.

5 **October 16, 2019 Major Storm Event**

6 **Q. Please describe the storm forecast.**

7 A. The October 16, 2019, storm event was associated with a strong low-pressure system which brought
8 heavy rains and strong winds to the region. National Weather Service – Gray, Maine (“NWS”)
9 forecasts included the potential of 2 to 4 inches of heavy rain and wind gusts of 45-50 mph. DTN
10 forecasts for October 17th included EEI Level 2 wind gusts for Central, Northern, Southern and
11 Western regions and EEI Level 3 wind gusts for Eastern region. The NWS issued a Wind Advisory
12 for most of the state and a High Wind Watch for Coastal Rockingham County through the morning
13 of October 17th.



Energy Event Index for EVERSOURCE ENERGY

Your forecast administrator: don.leick@dtm.com

Valid Time: October 16, 2019 7:00 PM EDT

Forecaster: craig.eckstein

Parameter	Region	Day 1	Day 2	Day 3
Wind Speed	CENTRAL	1	1	1
	EASTERN	1	2	1
	NORTHERN	1	1	1
	SOUTHERN	1	1	1
	WESTERN	1	1	1
Wind/Gust	CENTRAL	1	2	1
	EASTERN	1	3	1
	NORTHERN	1	2	1
	SOUTHERN	1	2	1
	WESTERN	1	2	1
Confidence Level	CENTRAL	High	High	High
	EASTERN	Medium	Medium	High
	NORTHERN	High	High	High
	SOUTHERN	High	High	High
	WESTERN	Medium	High	High

1

2 **Q. What preparations did the Company make in anticipation of a major restoration event?**

3 A. The Company began building situational awareness with the issuance of its first Weather Advisory
4 on Tuesday, October 15th. New Hampshire Incident Management Team (“NH IMT”) calls were
5 initiated at 1330 on October 16th with the first Preparedness Briefing published later that afternoon.
6 The Company modified crew staffing plans to have additional resources on property overnight
7 October 16th and secured an additional 45 contractor crews. The Company's Incident Command
8 Center (“ICC”) was fully activated at 0700 on October 17th.

9 **Q. Did the Company experience outages during this event?**

10 A. The Eversource system experienced the following impact as detailed in the table below:

Total # Events (IEEE)	Peak # Events	Total Customers Interrupted	Peak Customers Interrupted	Percentage Affected (Peak)	Total Restoration
1,306	705	103,193	68,814	13%	19%

11

12 **Q. Does this event qualify for cost recovery?**

13 A. Yes, using the major storm criteria established in Order No. 25,465 (February 26, 2013) at 1 in

1 Docket No. DE 12-320 of: a) 10% or more of Eversource's retail customers being without power
2 in conjunction with more than 200 reported troubles; or b) more than 300 reported troubles during
3 the event, this event qualifies for cost recovery through the MSCR because the total number of
4 events exceeded the 300 reported troubles threshold.

5 **October 31, 2019 Major Storm Event**

6 **Q. Please describe the storm forecast.**

7 A. The weather event of October 31, 2019 was associated with a very strong cold frontal passage.
8 NWS Gray, Maine forecasts included the potential of up to 2 inches of rain and widespread wind
9 gusts of 30-35 mph and isolated wind gusts up to 50 mph. DTN forecasts for October 31st and
10 November 1st included EEI Level 2 wind gusts for all Eversource regions.



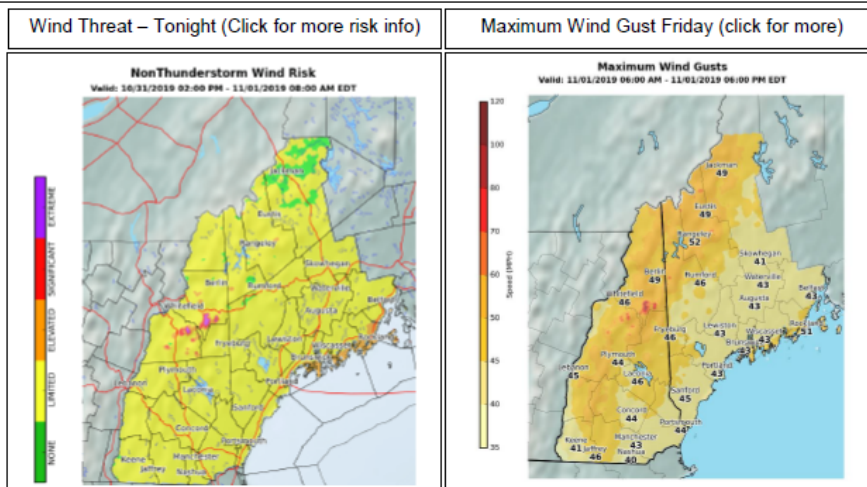
National Weather Service

Gray, Maine (Phone: 207-688-3224 / Email: gvx.skywarn@noaa.gov)

October 31, 2019

3:02 PM

Strong Winds and Rain Late Tonight - Friday



Highlights/Key Messages

- Areas of rain will move through the region late this afternoon through the overnight
 - Some rain may be locally heavy overnight
 - Most locations will receive less than 1 inch, but the mountains may see locally up to 2 inches
 - Road flooding is not expected except in areas where fallen leaves clog storm drains
- Gusty winds are expected to develop this evening and become strong at times Friday
 - South southwest wind gusts around 30 to 35 mph expected to be widespread tonight
 - A line of showers or thunderstorms will move through New Hampshire beginning around 2 am and exit western Maine by 8 am – Low confidence in isolated wind gusts to 60 mph possible with this line
 - Behind the line of showers/storms westerly winds increase and there is high confidence widespread 40 to 50 mph wind gusts through late afternoon Friday
- Coastal flood statement in effect tonight for splash over around the time of the 2:30 am high tide

Energy Event Index for EVERSOURCE ENERGY Your forecast administrator: don.leick@dtm.com
Valid Time: October 31, 2019 6:00 AM EDT Forecaster: ryan.niemann

Parameter	Region	Day 1	Day 2	Day 3
Wind Speed	CENTRAL	1	1	1
	EASTERN	1	1	1
	NORTHERN	1	1	1
	SOUTHERN	1	1	1
	WESTERN	1	1	1
Wind/Gust	CENTRAL	2	2	1
	EASTERN	2	2	1
	NORTHERN	2	2	1
	SOUTHERN	2	2	1
	WESTERN	2	2	1
Confidence Level	CENTRAL	High	High	High
	EASTERN	High	High	High
	NORTHERN	High	High	High
	SOUTHERN	High	High	High
	WESTERN	High	High	High

1

2 **Q. What preparations did the Company make in anticipation of a major restoration event?**

3 A. The Company began building situational awareness with the issuance of its first Weather Advisory
4 on Tuesday, October 29th. New Hampshire Operations Calls were initiated on October 29th at 0730
5 and full NH IMT calls on October 30th at 1230. The first New Hampshire Preparedness Briefing
6 was also published on October 30th. The Company modified crew staffing plans to have additional
7 resources on property overnight October 16th and secured an additional 68 contractor crews. The
8 Company's ICC was fully activated at 0700 on October 31st.

9 **Q. Did the Company experience outages during this event?**

10 A. The Eversource system experienced the following impact as detailed in the table below:

Total # Events (IEEE)	Peak # Events	Total Customers Interrupted	Peak Customers Interrupted	Percentage Affected (Peak)	Total Restoration
1,327	665	92,909	41,642	8%	17%

11

12 **Q. Does this event qualify for cost recovery?**

13 A. Yes, using the major storm criteria established in Order No. 25,465 (February 26, 2013) at 1 in
14 Docket No. DE 12-320 of: a) 10% or more of Eversource's retail customers being without power
15 in conjunction with more than 200 reported troubles; or b) more than 300 reported troubles during

1 the event, this event qualifies for cost recovery through the MSCR because the total number of
2 events exceeded the 300 reported troubles threshold.

3 **December 2, 2019 Pre-Staging Event**

4 **Q. Please describe the storm forecast.**

5 A. The weather event of December 2, 2019 was associated with a very strong costal storm anticipated
6 to bring significant snowfall to the region. Beginning on November 29th, DTN forecasts indicated
7 the potential for EEI Level 3 snowfall across all 5 New Hampshire operating regions. NWS
8 forecasts on November 30th included the potential of up to 12 inches of snow across the southern
9 portion of the state. The forecast over the next several days continued to trend toward a significant
10 weather event and by December 1st the DTN forecasts for December 1st through the 3rd included
11 EEI Level 4 snow for Central, Eastern, Southern and Western regions and EEI Level 3 snow for
12 the Northern Region. NWS issued a Winter Storm Warning for Cheshire and Hillsborough
13 Counties from 1600 on December 1st through 0700 December 3rd for the potential of snow
14 accumulations of 12-18 inches.

Energy Event Index for EVERSOURCE ENERGY Your forecast administrator: don.leick@dtm.com
Valid Time: November 29, 2019 6:00 AM EST Forecaster: jimmy.cayer

Parameter	Region	Day 1	Day 2	Day 3
Wind Speed	CENTRAL	1	1	1
	EASTERN	1	1	1
	NORTHERN	1	1	1
	SOUTHERN	1	1	1
	WESTERN	1	1	1
Wind/Gust	CENTRAL	1	1	1
	EASTERN	1	1	1
	NORTHERN	1	1	1
	SOUTHERN	1	1	1
	WESTERN	1	1	1
Snow	CENTRAL	1	1	3
	EASTERN	1	1	3
	NORTHERN	1	1	3
	SOUTHERN	1	1	3
	WESTERN	1	1	3
Ice	CENTRAL	1	1	1
	EASTERN	1	1	1
	NORTHERN	1	1	1
	SOUTHERN	1	1	1
	WESTERN	1	1	1
Confidence Level	CENTRAL	High	High	High
	EASTERN	High	High	High
	NORTHERN	High	High	High
	SOUTHERN	High	High	High
	WESTERN	High	High	High

15

Energy Event Index for EVERSOURCE ENERGY

Your forecast administrator: don.leick@dtm.com

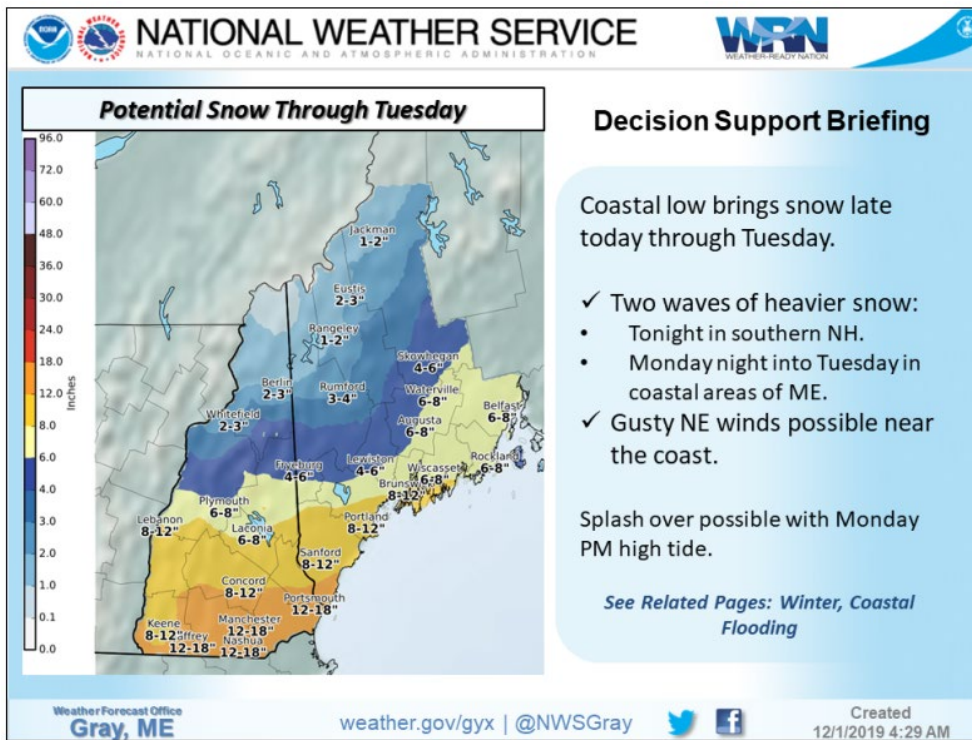
Valid Time: December 1, 2019 6:00 AM EST

Forecaster: jimmy.cayer

Parameter	Region	Day 1	Day 2	Day 3
Wind Speed	CENTRAL	1	1	1
	EASTERN	1	1	1
	NORTHERN	1	1	1
	SOUTHERN	1	1	1
	WESTERN	1	1	1
Wind/Gust	CENTRAL	1	1	1
	EASTERN	1	1	1
	NORTHERN	1	1	1
	SOUTHERN	1	1	1
	WESTERN	1	1	1
Snow	CENTRAL	4	4	4
	EASTERN	4	4	4
	NORTHERN	3	3	3
	SOUTHERN	4	4	4
	WESTERN	4	4	4
Ice	CENTRAL	1	1	1
	EASTERN	1	1	1
	NORTHERN	1	1	1
	SOUTHERN	1	1	1
	WESTERN	1	1	1
Confidence Level	CENTRAL	High	High	High
	EASTERN	High	High	High
	NORTHERN	Medium	Medium	Medium
	SOUTHERN	High	High	High
	WESTERN	High	High	High

1

2



3

1 **Q. What preparations did the Company make in anticipation of a major restoration event?**

2 A. The Company began building situational awareness with the issuance of its first Weather Advisory
3 on Friday, November 29th. Weather update and planning calls were conducted with New
4 Hampshire leadership November 29th and 30th with full NH IMT calls beginning on December 1st
5 at 0830. The first New Hampshire Preparedness Briefing was also published on December 1st. The
6 Company modified crew staffing plans to have additional resources on property overnight
7 December 1st and through the duration of the event and secured an additional 69 contractor crews.
8 The Company's ICC was activated at 0600 on December 2nd.

9 **Q. Did the Company experience outages during this event?**

10 A. The Eversource system experienced the following impact as detailed in the table below:

Total # Events (IEEE)	Peak # Events	Total Customers Interrupted	Peak Customers Interrupted	Percentage Affected (Peak)	Total Restoration
69	10	3,296	841	0.2%	0.6%

11 **Q. Does this event qualify for cost recovery?**

12 A. Yes, pursuant to the criteria established in Docket No. DE 12-320, pre-staging costs can be
13 recovered through the MSCR if the weather event has a “high” (greater than 60% based on the
14 forecast) probability of reaching “Level 3” or stronger, according to the EEI. *See* Order No. 25,465
15 (February 26, 2013) in Docket No. DE 12-320 at 4. This event met the “Level 3” and “high”
16 probability as shown in the DTN forecasts above.

17 **December 30, 2019 Pre-Staging Event**

18 **Q. Please describe the storm forecast.**

19 A. The weather event of December 30, 2019 was associated with a strong storm system anticipated to
20 bring significant snowfall and moderate icing to the region. Beginning on December 28th, DTN
21 forecasts indicated the potential for EEI Level 2 snowfall across Central, Eastern, Northern and

1 Western New Hampshire operating regions. Additionally, EEI Level 2 ice was forecast for the
2 Western Region. NWS forecasts on December 28th included the potential of up to 8 inches of snow
3 and ice accumulation around one-tenth of an inch. The forecast over the next several days continued
4 to trend toward a significant weather event and by December 31st the DTN forecast included EEI
5 Level 3 snow for the Northern Region. NWS issued a Winter Storm Warning for Cheshire and
6 Hillsborough Counties from 1900 on December 29th through 1300 on January 1st for the potential
7 of snow accumulations of 5-8 inches and ice accumulations up to one quarter inch.

Energy Event Index for EVERSOURCE ENERGY Your forecast administrator: don.leick@dtm.com
Valid Time: December 28, 2019 6:00 AM EST Forecaster: Kyle.Schanus

Parameter	Region	Day 1	Day 2	Day 3
Wind Speed	CENTRAL	1	1	1
	EASTERN	1	1	1
	NORTHERN	1	1	1
	SOUTHERN	1	1	1
	WESTERN	1	1	1
Wind/Gust	CENTRAL	1	1	1
	EASTERN	1	1	1
	NORTHERN	1	1	1
	SOUTHERN	1	1	1
	WESTERN	1	1	1
Snow	CENTRAL	1	1	2
	EASTERN	1	1	2
	NORTHERN	1	1	2
	SOUTHERN	1	1	1
	WESTERN	1	1	2
Ice	CENTRAL	1	1	1
	EASTERN	1	1	1
	NORTHERN	1	1	1
	SOUTHERN	1	1	1
	WESTERN	1	1	2
Confidence Level	CENTRAL	High	High	Medium
	EASTERN	High	High	Medium
	NORTHERN	High	High	Medium
	SOUTHERN	High	High	Medium
	WESTERN	High	High	Medium

8



National Weather Service

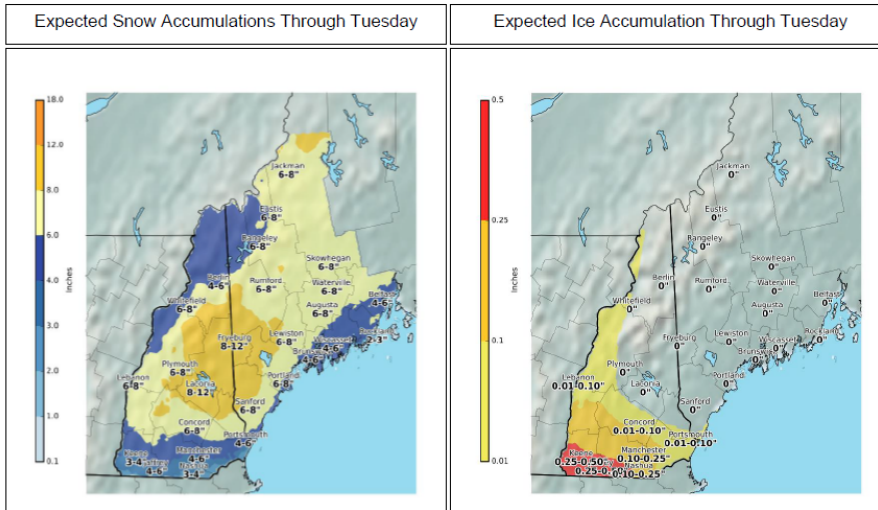
Gray, Maine (Phone: 207-688-3224 / Email: gyx.skywarn@noaa.gov)



December 29, 2019

5:05 AM

Current Situation: Significant Winter Storm Tonight through Tuesday



Highlights / Key Messages

- Very slow northeastward progression will result in a prolonged winter event.
- Snow will be the dominate weather type over central and northern areas.
- Snow will mix with sleet and freezing rain across southern New Hampshire on Monday.
- Snow may change to rain along the coast Tuesday.
- Most of the precipitation will end by 5pm New Year's Eve.
- Some splash-over possible on Tuesday south of Portland.

1

Energy Event Index for EVERSOURCE ENERGY Your forecast administrator: don.leick@dtm.com

Valid Time: December 31, 2019 6:00 AM EST

Forecaster: Kyle.Schanus

Parameter	Region	Day 1	Day 2	Day 3
Wind Speed	CENTRAL	1	1	1
	EASTERN	1	1	1
	NORTHERN	1	1	1
	SOUTHERN	1	1	1
	WESTERN	1	1	1
Wind/Gust	CENTRAL	1	1	1
	EASTERN	1	1	1
	NORTHERN	1	1	1
	SOUTHERN	1	1	1
	WESTERN	1	1	1
Snow	CENTRAL	1	1	1
	EASTERN	1	1	1
	NORTHERN	3	1	1
	SOUTHERN	1	1	1
	WESTERN	1	1	1
Ice	CENTRAL	1	1	1
	EASTERN	1	1	1
	NORTHERN	1	1	1
	SOUTHERN	1	1	1
	WESTERN	1	1	1
Confidence Level	CENTRAL	High	High	High
	EASTERN	High	High	High
	NORTHERN	High	High	High
	SOUTHERN	High	High	High
	WESTERN	High	High	High

2

1 **Q. What preparations did the Company make in anticipation of a major restoration event?**

2 A. The Company began building situational awareness with the issuance of its first Weather Advisory
3 on Friday, November 29th. Weather update and planning calls were conducted with New Hampshire
4 leadership December 29th with full NH IMT calls beginning on December 30th at 0730. The first
5 New Hampshire Preparedness Briefing was also published on December 30th. The Company
6 modified crew staffing plans to have additional resources on property overnight December 29th and
7 through the duration of the event and secured an additional 47 contractor crews. The Company's
8 ICC was activated at 0600 on December 30th.

9 **Q. Did the Company experience outages during this event?**

10 A. The Eversource system experienced the following impact as detailed in the table below:

Total # Events (IEEE)	Peak # Events	Total Customers Interrupted	Peak Customers Interrupted	Percentage Affected (Peak)	Total Restoration
73	12	3,817	1,578	0.3%	0.7%

11 **Q. Does this event qualify for cost recovery?**

12 A. Yes, pursuant to the criteria established in Docket No. DE 12-320, pre-staging costs can be
13 recovered through the MSCR if the weather event has a “high” (greater than 60% based on the
14 forecast) probability of reaching “Level 3” or stronger, according to the EEI. *See* Order No. 25,465
15 (February 26, 2013) in Docket No. DE 12-320 at 4. This event met the “Level 3” and “high”
16 probability as shown in the DTN forecast above.

17 **February 7, 2020 Major Storm Event**

18 **Q. Please describe the storm forecast.**

19 A. The weather event of February 7, 2020 was associated with a strong storm system anticipated to
20 bring significant snowfall and moderate icing to the region. Beginning on February 5th, DTN
21 forecasts indicated the potential for EEI Level 2 snowfall across the Northern New Hampshire
22 operating region, additionally, a slight risk for EEI Level 2 ice was forecast for the Northern and

1 Western region. NWS forecasts on February 6th included the potential for 12-18 inches of snow,
2 and ice accumulation up to one quarter inch. The forecast over the next several days continued to
3 trend toward a significant weather event and by February 7th the DTN forecast included EEI Level
4 3 snow for the Northern Region, EEI Level 2 ice accumulations for Northern, Western and Eastern
5 regions and EEI Level 2 winds for Central, Southern and Eastern regions. NWS issued a Winter
6 Storm Warning for Coos County from 0700 on February 6th through 2000 on February 7th for the
7 potential of snow accumulations of 9-17 inches and ice accumulations up to one half inch.

Energy Event Index for EVERSOURCE ENERGY Your forecast administrator: don.leick@dtm.com
Valid Time: February 5, 2020 9:00 AM EST Forecaster: tanner.verstegen

Parameter	Region	Day 1	Day 2	Day 3
Wind Speed	CENTRAL	1	1	1
	EASTERN	1	1	1
	NORTHERN	1	1	1
	SOUTHERN	1	1	1
	WESTERN	1	1	1
Wind/Gust	CENTRAL	1	1	1
	EASTERN	1	1	1
	NORTHERN	1	1	1
	SOUTHERN	1	1	1
	WESTERN	1	1	1
Snow	CENTRAL	1	1	1
	EASTERN	1	1	1
	NORTHERN	1	1	2
	SOUTHERN	1	1	1
	WESTERN	1	1	1
Ice	CENTRAL	1	1	1
	EASTERN	1	1	1
	NORTHERN	1	1	1
	SOUTHERN	1	1	1
	WESTERN	1	1	1
Confidence Level	CENTRAL	High	Medium	Medium
	EASTERN	High	Medium	Medium
	NORTHERN	High	Medium	Medium
	SOUTHERN	High	Medium	Medium
	WESTERN	High	Medium	Medium

8



National Weather Service

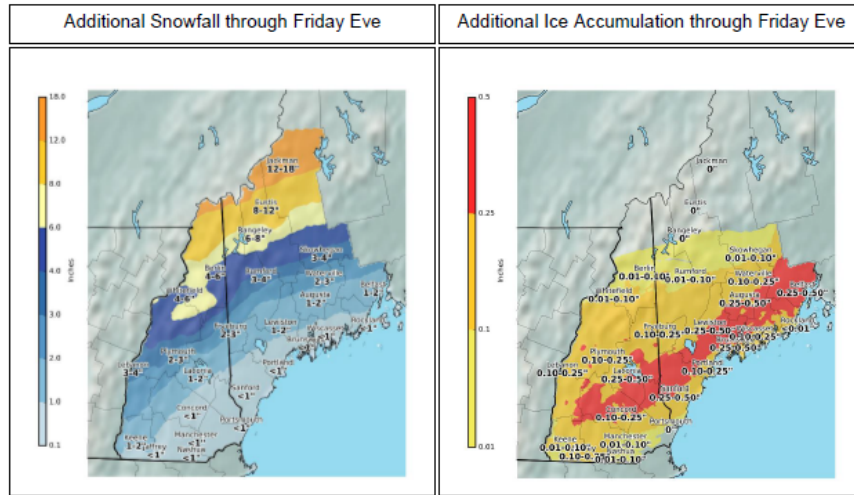
Gray, Maine (Phone: 207-688-3224 / Email: gvx.skywarn@noaa.gov)



February 6, 2020

4:02 PM

Current Situation: Steady precipitation to reenter the region late this eve.



Highlights / Key Messages

- **What's changed:** Ice accretion forecasts have increased. Minor splash-over or isolated minor coastal flooding possibly near the time of high tide Friday AM.
- The lull in the precipitation will end as steady mixed precipitation arrives late this evening and continues through Friday.
 - ✓ Snow and some sleet will pick up in intensity late this evening and continuing into Friday evening north.
 - ✓ Mixed sleet and freezing rain expected across southern and central sections
- Around 1 foot of snow expected in the mountains with the heaviest accumulations on Friday.
- Ice accretions of up to around a third of an inch with isolated power outages possible, followed by gusty winds late Friday afternoon and early evening.
- Hazardous travel conditions will continue, especially for the Friday AM commute.

1

Energy Event Index for EVERSOURCE ENERGY Your forecast administrator: psstorm@eversource.com

Valid Time: February 7, 2020 6:00 AM EST

Forecaster: gregory.louis

Parameter	Region	Day 1	Day 2	Day 3
Wind Speed	CENTRAL	1	1	1
	EASTERN	1	1	1
	NORTHERN	1	1	1
	SOUTHERN	1	1	1
	WESTERN	1	1	1
Wind/Gust	CENTRAL	2	1	1
	EASTERN	2	1	1
	NORTHERN	1	1	1
	SOUTHERN	2	1	1
	WESTERN	1	1	1
Snow	CENTRAL	1	1	1
	EASTERN	1	1	1
	NORTHERN	3	3	1
	SOUTHERN	1	1	1
	WESTERN	1	1	1
Ice	CENTRAL	1	1	1
	EASTERN	2	1	1
	NORTHERN	2	1	1
	SOUTHERN	1	1	1
	WESTERN	2	1	1
Confidence Level	CENTRAL	High	High	High
	EASTERN	High	High	High
	NORTHERN	High	High	High
	SOUTHERN	High	High	High
	WESTERN	High	High	High

2

1 **Q. What preparations did the Company make in anticipation of a major restoration event?**

2 A. The Company began building situational awareness with the issuance of its first Weather Advisory
3 on Wednesday, February 5th. Weather update and planning calls were conducted with New
4 Hampshire leadership February 6th with full NH IMT calls beginning on December 7th at 0730.
5 The first New Hampshire Preparedness Briefing was also published on December 30th. The
6 Company confirmed crew staffing plans for February 7th to ensure adequate staffing for the duration
7 of the event and secured an additional 20 contractor crews. The Company's ICC was activated at
8 1300 on February 7th.

9 **Q. Did the Company experience outages during this event?**

10 A. The Eversource system experienced the following impact as detailed in the table below:

Total # Events (IEEE)	Peak # Events	Total Customers Interrupted	Peak Customers Interrupted	Percentage Affected (Peak)	Total Restoration
572	275	88,114	58,818	11%	16%

11

12 **Q. Does this event qualify for cost recovery?**

13 A. Yes, using the major storm criteria established in Order No. 25,465 (February 26, 2013) at 1 in
14 Docket No. DE 12-320 of: a) 10% or more of Eversource's retail customers being without power
15 in conjunction with more than 200 reported troubles; or b) more than 300 reported troubles during
16 the event, this event qualifies for cost recovery through the MSCR because the total number of
17 events exceeded the 300 reported troubles threshold.

18 **February 26, 2020 Pre-Staging Event**

19 **Q. Please describe the storm forecast.**

20 A. The weather event of February 27, 2020 was associated with a strong storm system anticipated to
21 bring significant snowfall to the region. Beginning on February 24th DTN forecasts indicated the

1 potential for EEI Level 2 snowfall across the Northern New Hampshire operating region. NWS
2 forecasts on February 25th included the potential of up to 8 inches of heavy, wet snow. The forecast
3 over the next several days continued to trend toward a significant weather event and by February
4 26th the DTN forecast included EEI Level 3 snow for the Northern Region. NWS issued a Winter
5 Storm Watch for portions of the state February 26th through February 27th due to the potential of
6 snow accumulations of 5-10 inches.

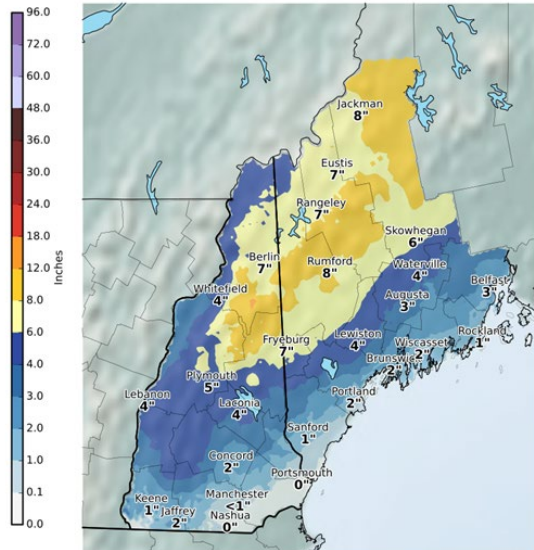
Energy Event Index for EVERSOURCE ENERGY Your forecast administrator: psstorm@eversource.com
Valid Time: February 24, 2020 1:00 PM EST Forecaster: jim.murphy

Parameter	Region	Day 1	Day 2	Day 3
Wind Speed	CENTRAL	1	1	1
	EASTERN	1	1	1
	NORTHERN	1	1	1
	SOUTHERN	1	1	1
	WESTERN	1	1	1
Wind/Gust	CENTRAL	1	1	1
	EASTERN	1	1	1
	NORTHERN	1	1	1
	SOUTHERN	1	1	1
	WESTERN	1	1	1
Snow	CENTRAL	1	1	1
	EASTERN	1	1	1
	NORTHERN	1	1	2
	SOUTHERN	1	1	1
	WESTERN	1	1	1
Ice	CENTRAL	1	1	1
	EASTERN	1	1	1
	NORTHERN	1	1	1
	SOUTHERN	1	1	1
	WESTERN	1	1	1
Confidence Level	CENTRAL	High	High	Medium
	EASTERN	High	High	High
	NORTHERN	High	High	Medium
	SOUTHERN	High	High	High
	WESTERN	High	High	Medium

7

Expected Snowfall - Official NWS Forecast

Valid: 02/26/2020 07:00 PM - 02/28/2020 07:00 AM



 **National Weather Service**
Gray Maine
02/25/2020 04:05 AM EST  **Follow Us:** [weather.gov/Gray/winter](https://www.weather.gov/Gray/winter)

8

Energy Event Index for EVERSOURCE ENERGY Your forecast administrator: psstorm@eversource.com
Valid Time: February 25, 2020 1:00 PM EST Forecaster: gregory.louis

Parameter	Region	Day 1	Day 2	Day 3
Wind Speed	CENTRAL	1	1	1
	EASTERN	1	1	1
	NORTHERN	1	1	1
	SOUTHERN	1	1	1
	WESTERN	1	1	1
Wind/Gust	CENTRAL	1	1	1
	EASTERN	1	1	1
	NORTHERN	1	1	1
	SOUTHERN	1	1	1
	WESTERN	1	1	1
Snow	CENTRAL	1	1	1
	EASTERN	1	1	1
	NORTHERN	1	1	3
	SOUTHERN	1	1	1
	WESTERN	1	1	1
Ice	CENTRAL	1	1	1
	EASTERN	1	1	1
	NORTHERN	1	1	1
	SOUTHERN	1	1	1
	WESTERN	1	1	1
Confidence Level	CENTRAL	High	High	High
	EASTERN	High	High	High
	NORTHERN	High	High	High
	SOUTHERN	High	High	High
	WESTERN	High	High	High

1

2 **Q. What preparations did the Company make in anticipation of a major restoration event?**

3 A. The Company began building situational awareness with the issuance of its first Weather Advisory
4 on Wednesday, February 25th. Weather update and planning calls were conducted with New
5 Hampshire leadership beginning on February 26th. The Company confirmed crew staffing plans to
6 ensure adequate staffing for the duration of the even and secured an additional 16 local contractor
7 crews.

8 **Q. Did the Company experience outages during this event?**

9 A. The Eversource system experienced the following impact as detailed in the table below:

Total # Events (IEEE)	Peak # Events	Total Customers Interrupted	Peak Customers Interrupted	Percentage Affected (Peak)	Total Restoration
220	77	17,136	9,460	2%	3%

10 **Q. Does this event qualify for cost recovery?**

11 A. Yes, pursuant to the criteria established in Docket No. DE 12-320, pre-staging costs can be
12 recovered through the MSCR if the weather event has a “high” (greater than 60% based on the

1 forecast) probability of reaching “Level 3” or stronger, according to the EEI. *See* Order No. 25,465
2 (February 26, 2013) in Docket No. DE 12-320 at 4. This event met the “Level 3” and “high”
3 probability as shown in the DTN forecast above.

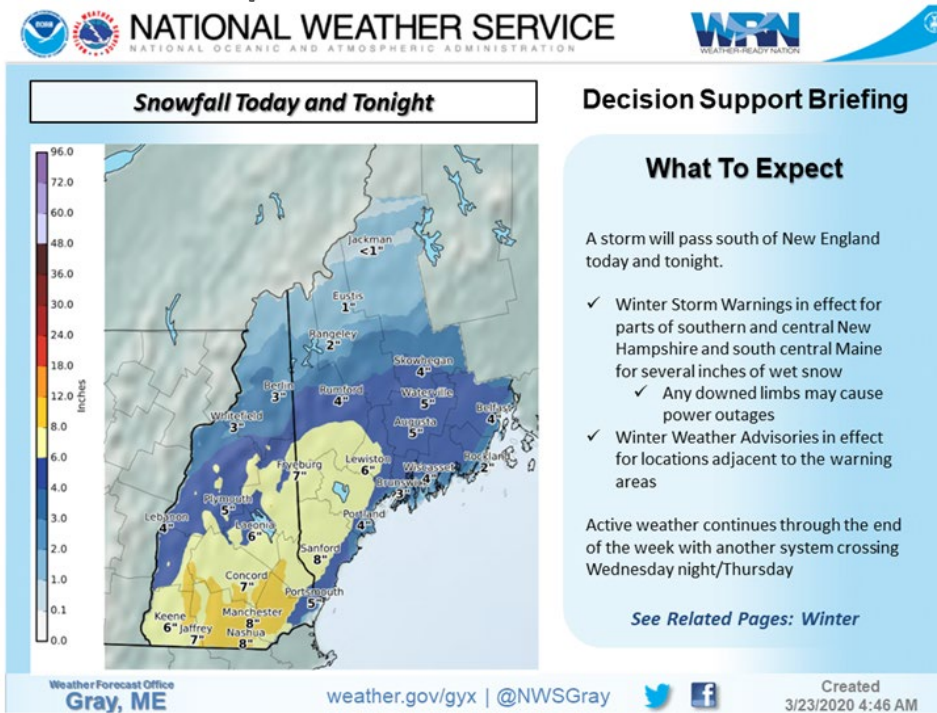
4 **March 23, 2020 Major Storm Event**

5 **Q. Please describe the storm forecast.**

6 A. The weather event of March 23, 2020 was associated with the passage of a coastal system
7 anticipated to bring heavy snow and hazard winds to the region. Beginning on March 22nd DTN
8 forecasts indicated the potential for hazard level snowfall and wind gusts for the New Hampshire
9 service territory. DTN Forecasts on March 23rd increased those risks to EEI Level 2 snowfall for
10 Central, Eastern, Northern and Western regions. NWS forecasts on March 23rd included the
11 potential of up to 8 inches of heavy, wet snow. DTN forecasts updated late on March 23rd increased
12 the snowfall risks to EEI Level 3 for the Western operating region. NWS issued a Winter Storm
13 Warning for portions of the state effective 1600 March 23rd through 0400 on March 24th due to the
14 potential of snow accumulations of 5-7 inches.

Energy Event Index for EVERSOURCE ENERGY Your forecast administrator: psstorm@eversource.com
Valid Time: March 23, 2020 6:00 AM EDT Forecaster: michael.phillips

Parameter	Region	Day 1	Day 2	Day 3
Wind Speed	CENTRAL	1	1	1
	EASTERN	1	1	1
	NORTHERN	1	1	1
	SOUTHERN	1	1	1
	WESTERN	1	1	1
Wind/Gust	CENTRAL	1	1	1
	EASTERN	1	1	1
	NORTHERN	1	1	1
	SOUTHERN	1	1	1
	WESTERN	1	1	1
Snow	CENTRAL	2	2	1
	EASTERN	2	2	1
	NORTHERN	2	2	1
	SOUTHERN	1	1	1
	WESTERN	2	2	1
Ice	CENTRAL	1	1	1
	EASTERN	1	1	1
	NORTHERN	1	1	1
	SOUTHERN	1	1	1
	WESTERN	1	1	1
Confidence Level	CENTRAL	Medium	Medium	High
	EASTERN	Medium	Medium	High
	NORTHERN	Medium	Medium	High
	SOUTHERN	Medium	Medium	High
	WESTERN	Medium	Medium	High



1

Energy Event Index for EVERSOURCE ENERGY Your forecast administrator: psstorm@eversource.com
 Valid Time: March 23, 2020 7:00 PM EDT Forecaster: gregory.louis

Parameter	Region	Day 1	Day 2	Day 3
Wind Speed	CENTRAL	1	1	1
	EASTERN	1	1	1
	NORTHERN	1	1	1
	SOUTHERN	1	1	1
	WESTERN	1	1	1
Wind/Gust	CENTRAL	1	1	1
	EASTERN	1	1	1
	NORTHERN	1	1	1
	SOUTHERN	1	1	1
	WESTERN	1	1	1
Snow	CENTRAL	2	2	1
	EASTERN	2	2	1
	NORTHERN	2	2	1
	SOUTHERN	2	2	1
	WESTERN	3	3	1
Ice	CENTRAL	1	1	1
	EASTERN	1	1	1
	NORTHERN	1	1	1
	SOUTHERN	1	1	1
	WESTERN	1	1	1
Confidence Level	CENTRAL	High	High	High
	EASTERN	High	High	High
	NORTHERN	High	High	High
	SOUTHERN	High	High	High
	WESTERN	High	High	High

2

3 **Q. What preparations did the Company make in anticipation of a major restoration event?**

4 A. The Company began building situational awareness with the issuance of its first Weather Advisory
 5 on Monday, March 23rd. The Company was conducting daily NH IMT calls due to the pandemic

1 response and expanded those calls to include weather updates form DTN and NWS. The Company
2 modified crew staffing plans to ensure overnight coverage on March 23rd and through the duration
3 of the event and secured an additional 62 contractor crews. The Company's ICC was activated
4 virtually at 0000 on March 24th under pandemic protocols.

5 **Q. Did the Company experience outages during this event?**

6 A. The Eversource system experienced the following impact as detailed in the table below:

Total # Events (IEEE)	Peak # Events	Total Customers Interrupted	Peak Customers Interrupted	Percentage Affected (Peak)	Total Restoration
479	245	41,063	26,786	5%	8%

7 **Q. Does this event qualify for cost recovery?**

8 A. Yes, using the major storm criteria established in Order No. 25,465 (February 26, 2013) at 1 in
9 Docket No. DE 12-320 of: a) 10% or more of Eversource's retail customers being without power
10 in conjunction with more than 200 reported troubles; or b) more than 300 reported troubles during
11 the event, this event qualifies for cost recovery through the MSCR because the total number of
12 events exceeded the 300 reported troubles threshold.

13 **April 13, 2020 Pre-Staging Event**

14 **Q. Please describe the storm forecast.**

15 A. The weather event of April 13, 2020 was associated with the passage of a costal system anticipated
16 to bring hazard winds to the region. Beginning on April 11th DTN forecasts indicated the potential
17 for EEI Level 2 winds across the New Hampshire service territory. DTN Forecasts on April 12th
18 increased those risks to EEI Level 3 winds for the Eastern and Southern regions. NWS forecasts on
19 April 12th included the potential wind gusts in the upper 40's across the state. NWS issued a Wind
20 Advisory for portions of the state effective 1200 through 1700 April 13th due to the potential of
21 winds 15 to 25 mph and gusts up to 50 mph.

Energy Event Index for EVERSOURCE ENERGY Your forecast administrator: psstorm@eversource.com
Valid Time: April 11, 2020 6:00 AM EDT Forecaster: michael.hansen




Parameter	Region	Day 1	Day 2	Day 3
Wind Speed	CENTRAL	1	1	1
	EASTERN	1	1	1
	NORTHERN	1	1	1
	SOUTHERN	1	1	1
	WESTERN	1	1	1
Wind/Gust	CENTRAL	1	1	2
	EASTERN	1	1	2
	NORTHERN	1	1	2
	SOUTHERN	1	1	2
	WESTERN	1	1	2
Confidence Level	CENTRAL	High	High	Medium
	EASTERN	High	High	Medium
	NORTHERN	High	High	Medium
	SOUTHERN	High	High	Medium
	WESTERN	High	High	Medium

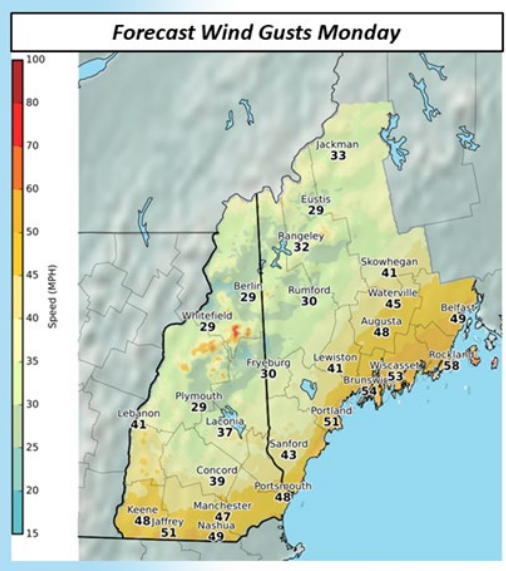
1

Energy Event Index for EVERSOURCE ENERGY Your forecast administrator: psstorm@eversource.com
Valid Time: April 12, 2020 1:00 PM EDT Forecaster: tanner.verstegen

Parameter	Region	Day 1	Day 2	Day 3
Wind Speed	CENTRAL	1	1	1
	EASTERN	1	1	1
	NORTHERN	1	1	1
	SOUTHERN	1	1	1
	WESTERN	1	1	1
Wind/Gust	CENTRAL	1	2	1
	EASTERN	1	3	1
	NORTHERN	1	2	1
	SOUTHERN	1	3	1
	WESTERN	1	2	1
Confidence Level	CENTRAL	High	High	High
	EASTERN	High	High	High
	NORTHERN	High	High	High
	SOUTHERN	High	High	High
	WESTERN	High	High	High

2



Forecast Wind Gusts Monday

Decision Support Briefing

What To Expect

A quiet day to end the weekend



Deep low pressure passes to our northwest on Monday

- ✓ Potential that heavy rain and snow melt could lead to flooding on rivers and streams
- ✓ Strong gusty winds possible over southern and coastal sections and across the higher terrain

See Related Pages: Flooding, Wind

Weather Forecast Office
Gray, ME

weather.gov/gyx | [@NWSGray](https://twitter.com/NWSGray)

Created 4/12/2020 3:39 AM

3

1 **Q. What preparations did the Company make in anticipation of a major restoration event?**

2 A. The Company began building situational awareness with the issuance of its first Weather Advisory
3 on Sunday, April 12th. The Company initiated daily NH IMT calls beginning at 1030 on April 12th
4 and continued them through the duration of the event. The Company confirmed plans for early
5 crew staffing on April 13th and secured 60 additional contractor crews. The Company's ICC was
6 activated virtually at 0700 on April 13th under pandemic protocols.

7 **Q. Did the Company experience outages during this event?**

8 A. The Eversource system experienced the following impact as detailed in the table below:

Total # Events (IEEE)	Peak # Events	Total Customers Interrupted	Peak Customers Interrupted	Percentage Affected (Peak)	Total Restoration
197	60	11,013	5,336	1%	2%

9

10 **Q. Does this event qualify for cost recovery?**

11 A. Yes, pursuant to the criteria established in Docket No. DE 12-320, pre-staging costs can be
12 recovered through the MSCR if the weather event has a “high” (greater than 60% based on the
13 forecast) probability of reaching “Level 3” or stronger, according to the EEI. *See* Order No. 25,465
14 (February 26, 2013) in Docket No. DE 12-320 at 4. This event met the “Level 3” and “high”
15 probability as shown in the DTN forecast above.

16 **May 15, 2020 Pre-Staging Event**

17 **Q. Please describe the storm forecast.**

18 A. The weather event of May 15, 2020 was associated with the passage of a cold front anticipated to
19 bring severe weather and hazard winds to the region. Beginning on May 14th DTN forecasts
20 indicated the potential for EEI Level 2 winds across New Hampshire’s Western region. DTN
21 forecasts on May 15th increased those risks to EEI Level 3 winds for the Southern and Western

1 regions with EEI Level 2 winds for the remainder of the state. The Storm Prediction Center
2 indicated the southwest portion of the state at an enhanced risk of severe weather on May 15th.
3 NWS forecasts on May 14th included the potential wind gusts in the upper 40s across the state.
4 NWS issued a Wind Advisory for portions of the state effective 1200 through 1700 on May 15th
5 due to the potential of winds 15 to 25 mph and gusts up to 50 mph.

Energy Event Index for EVERSOURCE ENERGY Your forecast administrator: psstorm@eversource.com
Valid Time: May 14, 2020 6:00 AM EDT Forecaster: nick.lesser1

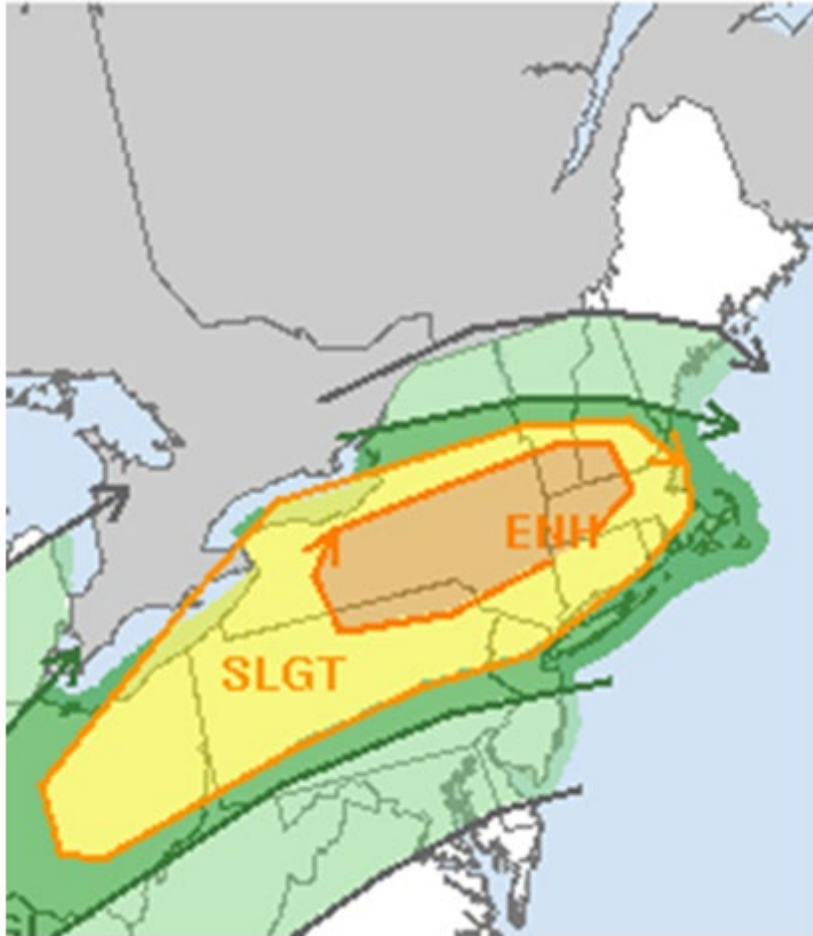
Parameter	Region	Day 1	Day 2	Day 3
Wind Speed	CENTRAL	1	1	1
	EASTERN	1	1	1
	NORTHERN	1	1	1
	SOUTHERN	1	1	1
	WESTERN	1	1	1
Wind/Gust	CENTRAL	1	1	1
	EASTERN	1	1	1
	NORTHERN	1	1	1
	SOUTHERN	1	1	1
	WESTERN	1	2	1
Confidence Level	CENTRAL	High	Medium	High
	EASTERN	High	Medium	High
	NORTHERN	High	High	High
	SOUTHERN	High	Medium	High
	WESTERN	High	Medium	High

6

Energy Event Index for EVERSOURCE ENERGY Your forecast administrator: psstorm@eversource.com
Valid Time: May 15, 2020 1:00 PM EDT Forecaster: justin.wegwerth

Parameter	Region	Day 1	Day 2	Day 3
Wind Speed	CENTRAL	1	1	1
	EASTERN	1	1	1
	NORTHERN	1	1	1
	SOUTHERN	1	1	1
	WESTERN	1	1	1
Wind/Gust	CENTRAL	2	1	1
	EASTERN	2	1	1
	NORTHERN	2	1	1
	SOUTHERN	3	1	1
	WESTERN	3	1	1
Confidence Level	CENTRAL	High	High	High
	EASTERN	Medium	High	High
	NORTHERN	High	High	High
	SOUTHERN	Medium	High	High
	WESTERN	High	High	High

7



1

2 **Q. What preparations did the Company make in anticipation of a major restoration event?**

3 A. The Company began building situational awareness with the issuance of its first Weather Advisory
4 on Thursday, May 14th. The Company was conducting daily NH IMT calls in response to the
5 pandemic and expanded these calls to include weather updated form DTN and NWS. The Company
6 confirmed plans for early crew staffing on May 15th and secured an additional 57 contractor crews.

7 **Q. Did the Company experience outages during this event?**

8 A. The Eversource system experienced the following impact as detailed in the table below:

Total # Events (IEEE)	Peak # Events	Total Customers Interrupted	Peak Customers Interrupted	Percentage Affected (Peak)	Total Restoration
170	96	8,361	6,665	1.2%	2%

1 **Q. Does this event qualify for cost recovery?**

2 A. Yes, pursuant to the criteria established in Docket No. DE 12-320, pre-staging costs can be
3 recovered through the MSCR if the weather event has a “high” (greater than 60% based on the
4 forecast) probability of reaching “Level 3” or stronger, according to the EEI. *See* Order No. 25,465
5 (February 26, 2013) in Docket No. DE 12-320 at 4. This event met the “Level 3” and “high”
6 probability as shown in the DTN forecast above.

7 **III. CONCLUDING REMARKS**

8 **Q. Were the costs presented in this filing for recovery reasonably and prudently incurred to**
9 **restore power to customers following the Storm Events?**

10 A. Yes. All costs that the Company has presented in this filing were incurred as part of the Company’s
11 efforts to prepare for and respond to the storm conditions caused by the Storm Events. As
12 previously mentioned, each of these events met or exceeded the threshold required to be
13 recoverable via Eversource’s MSCR. Significant resources were needed to prepare for the Storm
14 Events and to restore power in a reasonable timeframe. The actions taken by Eversource to prepare
15 for and respond to the weather events were appropriate and effective, and resulted in the restoration
16 of power in a reasonably prompt manner. Therefore, the costs that were incurred to achieve these
17 results are eligible for recovery through the Company’s MSCR.

18 **Q. Does this complete your testimony?**

19 A. Yes, it does.