

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Annual Storm Fund Accounting
For the Year Ended December 31, 2020

| Line | (a) | (b) | Beginning Balance (c) | Collections | | | 2020 Storm Costs | | | | | | Audit / Prior Period Adjustments (m) | Unadjusted Ending Balance (n) | Average Monthly Balance (o) | Interest Rate (3) (p) | Interest Expense (Income) (q) | Adjusted Ending Balance (r) |
|------|-----------------|---|-----------------------------|--------------------------|--------------------------|-------------------|------------------|-----------------------------|--------------------------------|-----------------------------|----------------|---------------|--|--|--------------------------------------|-----------------------------|--|--------------------------------------|
| | | | | Base Rates (1) (d) | SRA Factor (2) (e) | Total (f) | Payroll (g) | Outside companies (h) | Materials & Supplies (i) | Employee Expenses (j) | Accrual (k) | Total (l) | | | | | | |
| 1 | January | 2020 | \$ (1,208,262.64) | \$ (125,000.00) | \$ - | \$ (125,000.00) | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 58,255.14 | \$ (1,275,007.50) | \$ (1,241,635.07) | 4.75% | \$ (4,914.81) | \$ (1,279,922.31) |
| 2 | February | 2020 | (1,279,922.31) | (125,000.00) | - | (125,000.00) | - | - | - | - | - | - | - | (1,404,922.31) | (1,342,422.31) | 4.75% | (5,313.75) | (1,410,236.06) |
| 3 | March | 2020 | (1,410,236.06) | (125,000.00) | - | (125,000.00) | - | - | - | - | - | - | - | (1,535,236.06) | (1,472,736.06) | 4.75% | (5,829.58) | (1,541,065.64) |
| 4 | April | 2020 | (1,541,065.64) | (125,000.00) | - | (125,000.00) | 66,733.01 | 16,375.95 | - | - | 81,661.41 | 164,770.37 | - | (1,501,295.27) | (1,521,180.46) | 4.75% | (6,021.34) | (1,507,316.61) |
| 5 | May | 2020 | (1,507,316.61) | (125,000.00) | - | (125,000.00) | 0.04 | 27,311.50 | - | - | (81,661.41) | (54,349.87) | - | (1,686,666.48) | (1,596,991.54) | 4.75% | (6,321.42) | (1,692,987.90) |
| 6 | June | 2020 | (1,692,987.90) | (125,000.00) | - | (125,000.00) | - | 186.04 | - | - | - | 186.04 | - | (1,817,801.86) | (1,755,394.88) | 4.75% | (6,948.44) | (1,824,750.30) |
| 7 | July | 2020 | (1,824,750.30) | (125,000.00) | - | (125,000.00) | - | - | - | 3,763.46 | - | 3,763.46 | - | (1,945,986.84) | (1,885,368.57) | 3.25% | (5,106.21) | (1,951,093.05) |
| 8 | August | 2020 | (1,951,093.05) | (125,000.00) | - | (125,000.00) | 224,192.59 | 48,524.20 | 1,902.05 | 260.92 | 88,989.34 | 363,869.10 | - | (1,712,223.95) | (1,831,658.50) | 3.25% | (4,960.74) | (1,717,184.69) |
| 9 | September | 2020 | (1,717,184.69) | (125,000.00) | - | (125,000.00) | 1,157.37 | 1,670.81 | 437.12 | - | (58,989.34) | (55,724.04) | (2,174.73) | (1,900,083.46) | (1,808,634.08) | 3.25% | (4,898.38) | (1,904,981.85) |
| 10 | October | 2020 | (1,904,981.85) | (125,000.00) | - | (125,000.00) | - | 43,980.41 | - | 2,801.10 | (10,000.00) | 36,781.51 | (196.00) | (1,993,396.34) | (1,949,189.09) | 3.25% | (5,279.05) | (1,998,675.39) |
| 11 | November | 2020 | (1,998,675.39) | (125,000.00) | - | (125,000.00) | - | - | - | - | - | - | - | (2,123,675.39) | (2,061,175.39) | 3.25% | (5,582.35) | (2,129,257.74) |
| 12 | December | 2020 | (2,129,257.74) | (125,000.00) | - | (125,000.00) | 156,059.31 | 170,831.03 | - | (343.94) | 280,629.70 | 607,176.10 | - | (1,647,081.64) | (1,888,169.69) | 3.25% | (5,113.79) | (1,652,195.43) |
| 13 | --2021 Activity | | (1,652,195.43) | | | | (2,226.87) | 155,829.90 | - | 7,749.38 | (300,629.70) | (139,277.29) | (70,000.01) | (1,861,472.73) | (1,756,834.08) | | | (1,861,472.73) (4) |
| 14 | | | | | | | | | | | | | | | | | | |
| 15 | Totals | | | \$ (1,500,000.00) | \$ - | \$ (1,500,000.00) | \$ 445,915.45 | \$ 464,709.84 | \$ 2,339.17 | \$ 14,230.92 | \$ - | \$ 927,195.38 | \$ (14,115.60) | | | | \$ (66,289.87) | \$ (1,861,472.73) |
| 16 | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | |
| 18 | (1) | Effective 4/1/14, \$1.5 million annually is in base rates (see Settlement Agreement, 10/30/14, DE 13-063, Order No. 25,738 dated 11/26/14) | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | |
| 20 | (2) | Storm Recovery Adjustment Factor (per kWh) - applied to cancel/rebills and payments on bills for prior periods | | | | | | | | | | | | | | | | |
| 21 | | \$0.00223 effective 1/1/13, \$0.00329 effective 1/1/14, \$0.00221 effective 11/1/14, \$0.00000 effective 11/1/15 | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | |
| 23 | (3) | Consistent with the annual storm fund report, interest is calculated each month by taking 1/12th of the annual interest (not based on the number of days in the month) and uses the interest rate in effect on the first of the month preceding the quarter | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | |
| 25 | (4) | See G/L accounts 8830-2-0000-10-1930-1825 and 8830-2-0000-20-2910-2548 | | | | | | | | | | | | | | | | |

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Monthly Accounting for Storm Events
For the Year Ended December 31, 2020

| Line | Month | Wind Storm 4/13/2020 | Tropical Storm Isaias 8/3/2020 | Nor'easter 12/5/2020 | Snow Storm Gail 12/15/2020 | Christmas Wind Storm 12/22/2020 | Total Costs |
|------|-------------------|-------------------------|-----------------------------------|-------------------------|-------------------------------|------------------------------------|----------------|
| (a) | (b) | (d) | (e) | (f) | (g) | (h) | (k) |
| 1 | January 2020 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| 2 | February | - | - | - | - | - | - |
| 3 | March | - | - | - | - | - | - |
| 4 | April | 164,770.37 | - | - | - | - | 164,770.37 |
| 5 | May | (54,349.87) | - | - | - | - | (54,349.87) |
| 6 | June | 186.04 | - | - | - | - | 186.04 |
| 7 | July | 3,763.46 | - | - | - | - | 3,763.46 |
| 8 | August | - | 363,869.10 | - | - | - | 363,869.10 |
| 9 | September | - | (55,724.04) | - | - | - | (55,724.04) |
| 10 | October | - | 36,781.51 | - | - | - | 36,781.51 |
| 11 | November | - | - | - | - | - | - |
| 12 | December | - | 15,337.14 | 353,124.07 | 134,578.92 | 104,135.97 | 607,176.10 |
| 13 | --2021 | - | (19,382.19) | (112,515.01) | 275.11 | (7,655.20) | (139,277.29) |
| 14 | | | | | | | |
| 15 | Total 2020 Storms | \$ 114,370.00 | \$ 340,881.52 | \$ 240,609.06 | \$ 134,854.03 | \$ 96,480.77 | \$ 927,195.38 |

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Annual Report of All Storm Fund Activity
For the Year Ended December 31, 2020
Table 1

| Line No. | Description | Jan-20 | Feb-20 | Mar-20 | Apr-20 | May-20 | Jun-20 | Jul-20 | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | 2021 | Total Costs |
|----------|---|--------|--------|--------|---------------|----------------|-----------|-------------|---------------|----------------|--------------|--------|---------------|-----------------|---------------|
| 1 | Payroll charges including payroll overheads for GSE Employees | \$ - | \$ - | \$ - | \$ 66,733.01 | \$ 0.04 | \$ - | \$ - | \$ 224,192.59 | \$ 1,157.37 | \$ - | \$ - | \$ 156,059.31 | \$ (2,226.87) | \$ 445,915.45 |
| 2 | | | | | | | | | | | | | | | |
| 3 | Charges from outside companies | - | - | - | 16,375.95 | 27,311.50 | 186.04 | - | 48,524.20 | 1,670.81 | 43,980.41 | - | 170,831.03 | 155,829.90 | 464,709.84 |
| 4 | | | | | | | | | | | | | | | |
| 5 | Charges for Materials and Supplies | - | - | - | - | - | - | - | 1,902.05 | 437.12 | - | - | - | - | 2,339.17 |
| 6 | | | | | | | | | | | | | | | |
| 7 | Charges for employee expenses | - | - | - | - | - | - | 3,763.46 | 260.92 | - | 2,801.10 | - | (343.94) | 7,749.38 | 14,230.92 |
| 8 | | | | | | | | | | | | | | | |
| 9 | Accrual for outside companies | - | - | - | 81,661.41 | (81,661.41) | - | - | 88,989.34 | (58,989.34) | (10,000.00) | - | 280,629.70 | (300,629.70) | - |
| 10 | | | | | | | | | | | | | | | |
| 11 | Total | \$ - | \$ - | \$ - | \$ 164,770.37 | \$ (54,349.87) | \$ 186.04 | \$ 3,763.46 | \$ 363,869.10 | \$ (55,724.04) | \$ 36,781.51 | \$ - | \$ 607,176.10 | \$ (139,277.29) | \$ 927,195.38 |

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Total O&M Pre-Staging Costs - Wind Storm April 13, 2020
January 1, 2020 Through December 31, 2020

Table 1

| Line No. | Description | Apr-20 | May-20 | Jun-20 | Jul-20 | Aug-20 | Jan-21 | Feb-21 | Total Pre-Staging Costs |
|----------|---|----------------------|-----------------------|------------------|--------------------|-------------|-------------|-------------|-------------------------|
| 1 | Payroll charges including payroll overheads for GSE Employees | \$ 66,733.01 | \$ 0.04 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 66,733.05 |
| 2 | | | | | | | | | |
| 3 | Charges from outside companies | 16,375.95 | 27,311.50 | 186.04 | - | - | - | - | 43,873.49 |
| 4 | | | | | | | | | |
| 5 | Charges for Materials and Supplies | - | - | - | - | - | - | - | - |
| 6 | | | | | | | | | |
| 7 | Charges for employee expenses | - | - | - | 3,763.46 | - | - | - | 3,763.46 |
| 8 | | | | | | | | | |
| 9 | Accrual for outside companies | 81,661.41 | (81,661.41) | - | - | - | - | - | - |
| 10 | | | | | | | | | |
| 11 | Total | <u>\$ 164,770.37</u> | <u>\$ (54,349.87)</u> | <u>\$ 186.04</u> | <u>\$ 3,763.46</u> | <u>\$ -</u> | <u>\$ -</u> | <u>\$ -</u> | <u>\$ 114,370.00</u> |

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Total O&M Qualifying Storm Costs - Tropical Storm Isaias August 3, 2020
January 1, 2020 Through December 31, 2020
Table 2

| Line No. | Description | Aug-20 | Sep-20 | Oct-20 | Dec-20 | Jan-21 | Total Pre-Staging Costs |
|----------|---|----------------------|-----------------------|---------------------|---------------------|-----------------------|-------------------------|
| 1 | Payroll charges including payroll overheads for GSE Employees | \$ 224,192.59 | \$ 1,157.37 | \$ - | \$ - | \$ - | \$ 225,349.96 |
| 2 | | | | | | | |
| 3 | Charges from outside companies | 48,524.20 | 1,670.81 | 43,980.41 | 15,681.08 | 617.81 | 110,474.31 |
| 4 | | | | | | | |
| 5 | Charges for Materials and Supplies | 1,902.05 | 437.12 | - | - | - | 2,339.17 |
| 6 | | | | | | | |
| 7 | Charges for employee expenses | 260.92 | - | 2,801.10 | (343.94) | - | 2,718.08 |
| 8 | | | | | | | |
| 9 | Accrual for outside companies | 88,989.34 | (58,989.34) | (10,000.00) | - | (20,000.00) | - |
| 10 | | | | | | | |
| 11 | Total | <u>\$ 363,869.10</u> | <u>\$ (55,724.04)</u> | <u>\$ 36,781.51</u> | <u>\$ 15,337.14</u> | <u>\$ (19,382.19)</u> | <u>\$ 340,881.52</u> |

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Total O&M Pre-Staging Costs - Nor'easter December 5, 2020
January 1, 2020 Through December 31, 2020

Table 3

| Line No. | Description | Dec-20 | Jan-21 | Feb-21 | Mar-21 | Total Pre-Staging Costs |
|----------|---|----------------------|------------------------|--------------------|--------------------|-------------------------|
| 1 | Payroll charges including payroll overheads for GSE Employees | \$ 87,952.28 | \$ - | \$ - | \$ - | \$ 87,952.28 |
| 2 | | | | | | |
| 3 | Charges from outside companies | 112,232.74 | 29,838.14 | (529.52) | 6,355.79 | 147,897.15 |
| 4 | | | | | | |
| 5 | Charges for Materials and Supplies | - | - | - | - | - |
| 6 | | | | | | |
| 7 | Charges for employee expenses | - | 818.24 | 3,941.39 | - | 4,759.63 |
| 8 | | | | | | |
| 9 | Accrual for outside companies | 152,939.05 | (152,939.05) | - | - | - |
| 10 | | | | | | |
| 11 | Total | <u>\$ 353,124.07</u> | <u>\$ (122,282.67)</u> | <u>\$ 3,411.87</u> | <u>\$ 6,355.79</u> | <u>\$ 240,609.06</u> |

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Total O&M Pre-Staging Costs - Snow Storm Gail December 15, 2020
January 1, 2020 Through December 31, 2020

Table 4

| Line No. | Description | Dec-20 | Jan-21 | Feb-21 | Mar-21 | Total Pre-Staging Costs |
|----------|---|----------------------|----------------------|--------------------|--------------------|-------------------------|
| 1 | Payroll charges including payroll overheads for GSE Employees | \$ 47,067.82 | \$ (2,226.86) | \$ - | \$ - | \$ 44,840.96 |
| 2 | | | | | | |
| 3 | Charges from outside companies | 30,940.01 | 50,527.32 | 888.85 | 4,833.35 | 87,189.53 |
| 4 | | | | | | |
| 5 | Charges for Materials and Supplies | - | - | - | - | - |
| 6 | | | | | | |
| 7 | Charges for employee expenses | - | - | 2,823.54 | - | 2,823.54 |
| 8 | | | | | | |
| 9 | Accrual for outside companies | 56,571.09 | (56,571.09) | - | - | - |
| 10 | | | | | | |
| 11 | Total | <u>\$ 134,578.92</u> | <u>\$ (8,270.63)</u> | <u>\$ 3,712.39</u> | <u>\$ 4,833.35</u> | <u>\$ 134,854.03</u> |

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Total O&M Pre-Staging Costs - Christmas Wind Storm December 22, 2020
January 1, 2020 Through December 31, 2020

Table 5

| Line No. | Description | Dec-20 | Jan-21 | Feb-21 | Total Pre-Staging Costs |
|----------|---|----------------------|----------------------|------------------|-------------------------|
| 1 | Payroll charges including payroll overheads for GSE Employees | \$ 21,039.21 | \$ (0.01) | \$ - | \$ 21,039.20 |
| 2 | | | | | |
| 3 | Charges from outside companies | 11,977.20 | 63,298.16 | - | 75,275.36 |
| 4 | | | | | |
| 5 | Charges for Materials and Supplies | - | - | - | - |
| 6 | | | | | |
| 7 | Charges for employee expenses | - | - | 166.21 | 166.21 |
| 8 | | | | | |
| 9 | Accrual for outside companies | 71,119.56 | (71,119.56) | - | - |
| 10 | | | | | |
| 11 | Total | <u>\$ 104,135.97</u> | <u>\$ (7,821.41)</u> | <u>\$ 166.21</u> | <u>\$ 96,480.77</u> |

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Additional O&M Qualifying / Pre-Staging Storm Costs Not Included in 2019 Storm Filing
January 1, 2019 Through December 31, 2019
Table 6

| Line No. | Description | Storm 10/16/2019 | Halloween Wind Storm 10/31/2019 | Winter Storm Ezekiel 12/2/2019 | Total Additional Costs |
|----------|---|-----------------------|---------------------------------|--------------------------------|------------------------|
| 1 | Payroll charges including payroll overheads for GSE Employees | \$ - | \$ - | \$ - | \$ - |
| 2 | | | | | |
| 3 | Charges from outside companies | 886.51 | 561.71 | 46,718.09 | 48,166.31 |
| 4 | | | | | |
| 5 | Charges for Materials and Supplies | - | 0.19 | - | 0.19 |
| 6 | | | | | |
| 7 | Charges for employee expenses | - | 88.63 | - | 88.63 |
| 8 | | | | | |
| 9 | Accrual for outside companies | (50,000.00) | - | (10,000.00) | (60,000.00) |
| 10 | | | | | |
| 11 | Total | <u>\$ (49,113.49)</u> | <u>\$ 650.53</u> | <u>\$ 36,718.09</u> | <u>\$ (11,744.87)</u> |

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Additional O&M Qualifying Storm Costs Not Included in 2017 Storm Filing
January 1, 2017 Through December 31, 2017

Table 7

| Line No. | Description | Wind/Rain Storm 10/29-30/2017 | Winter Snow & Ice Storm 12/22- 12/24/2017 | Total Additional Costs |
|----------|---|----------------------------------|---|---------------------------|
| 1 | Payroll charges including payroll overheads for GSE Employees | \$ 26,080.66 | \$ 863.51 | \$ 26,944.17 |
| 2 | | | | |
| 3 | Charges for Transportation on GSE vehicles | - | - | - |
| 4 | | | | |
| 5 | Charges from outside companies | 35,701.13 | 8,510.80 | 44,211.93 |
| 6 | | | | |
| 7 | Charges for Materials and Supplies | - | - | - |
| 8 | | | | |
| 9 | Charges for employee expenses | - | - | - |
| 10 | | | | |
| 11 | Accrual for outside companies | - | - | - |
| 12 | | | | |
| 13 | Total | <u>\$ 61,781.79</u> | <u>\$ 9,374.31</u> | <u>\$ 71,156.10</u> |

Heather Tebbetts

From: DTN <EnergyEventIndex@dtn.com>
Sent: Monday, April 13, 2020 9:12 AM
To: DL NH Londonderry Emergency Dispatch
Subject: Energy Event Index: Threat Level 3



Energy Event Index for ALGONQUIN POWER & UTILITIES CORP

Your forecast administrator: kathleen.kelley@libertyutilities.com

Valid Time: April 13, 2020 9:00 AM EDT

Forecaster: scott.dumblaaskas

| Parameter | Region | Day 1 | Day 2 | Day 3 | Day 4 | Day 5 | Day 6 | Day 7 | Day 8 | Day 9 | Day 10 |
|------------------|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Wind Speed | Montauk NY | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Northern Lebanon Hanover NH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Northwest Monroe Bath NH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Southern Salem Derry NH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Western Alstead Charlestown NH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Wind/Gust | Montauk NY | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Northern Lebanon Hanover NH | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Northwest Monroe Bath NH | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Southern Salem Derry NH | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Western Alstead Charlestown NH | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Confidence Level | Montauk NY | High | High | High | High | High | High | High | High | High | High |
| | Northern Lebanon Hanover NH | High | High | High | High | High | High | High | High | High | High |
| | Northwest Monroe Bath NH | High | High | High | High | High | High | High | High | High | High |
| | Southern Salem Derry NH | High | High | High | High | High | High | High | High | High | High |
| | Western Alstead Charlestown NH | High | High | High | High | High | High | High | High | High | High |

Energy Event Index

Definition

With Leaves (Apr 1 - Oct 31)

| EEI | Wind Speed | Wind/Gust |
|-----|------------|-----------|
| 1 | < 30 mph | < 35 mph |
| 2 | >= 30 mph | >= 35 mph |
| 3 | >= 45 mph | >= 50 mph |
| 4 | >= 60 mph | >= 65 mph |
| 5 | >= 70 mph | >= 75 mph |

| Confidence Level | |
|------------------|---|
| Low | <30% chance the most likely index level remains at that level through the event |
| Medium | 30-60% chance the most likely index level remains at that level through the event |
| High | >=60% chance the most likely index level remains at that level through the event |

*Note: Confidence is NOT a measure of probability of an event occurring; if you have an accompanying forecast discussion, that information can be found there. Confidence is a measure of how likely the forecasted index level will stay at that level from now through the event, or a way to measure the potential for variability in the forecast. So for example, if it is Monday and there are level 2 gusts forecasted on Wednesday with high confidence, and if your customizable threshold for high confidence is set at 60%, it means the following: There is a >=60% chance the most likely forecasted gusts will remain at level 2 with all updates from now through Wednesday.

Date: April 13, 2020

Time: 9:15 AM ET

Forecaster: Michael Hansen/Scott Dumblaaskas

| Zones (Forecast for next 30 hrs) | SALEM | CHARLESTOWN | LEBANON |
|----------------------------------|----------------|----------------|----------------|
| Event | GUSTS/T-STORMS | GUSTS/T-STORMS | GUSTS/T-STORMS |
| Event Begin Time | 11am Mon | 10am Mon | 10am Mon |
| Event End Time | 4am Tue | 4am Tue | 4am Tue |
| Event Confidence | HIGH | HIGH | HIGH |
| Thunderstorm Wind Gusts | 45-55 | 45-60 | 45-60 |
| Lightning Intensity | LOW | LOW | LOW |
| Storm Direction | ENE | ENE | ENE |
| Rain Amount | 0.50-1.25" | 0.50-1.25" | 0.50-1.25" |
| Max Sustained Winds | 15-20 | 15-20 | 15-20 |
| Wind Gust | 45-60 | 45-55 | 45-55 |
| Temp. Extremes | 56/49 | 58/40 | 58/40 |

LIBERTY UTILITIES SERVICE AREA 48 HOUR OUTLOOK:

SALEM: Heavy rain, thunderstorms, and breezy winds beginning this morning. Rain diminishes in the evening and dry conditions move in overnight. See table above for thunderstorm and wind impact; common gusts of 35-45 mph are likely, with thunderstorm activity expected 2-9pm Monday. Locally higher amounts of rainfall are possible. On Tuesday, dry but breezy. Wind gusts: 20-30 mph. Turning less breezy overnight.

Confidence: Confidence is high that EEI-2 wind gusts will occur Monday. Chance of EEI-2 gusts: 90%. Confidence is high that winds will reach EEI-3 criteria. Chance of EEI-3 gusts: 60%. Confidence is medium that thunderstorm gusts will reach EEI-2. Chance of storms: 30%. Chance of EEI-2 storm gusts: 30%. While wind gusts >50 mph (EEI-3) are noted as possible, the coverage should be isolated and the duration brief, the highest wind threat will stay just to the south. Confidence is high that no hazards will occur on Tuesday.

CHARLESTOWN: Heavy rain, thunderstorms, and breezy winds beginning this morning. Rain diminishes in the evening and dry conditions move in overnight. See table above for thunderstorm and wind impact; common gusts of 35-45 mph are likely, with thunderstorm activity expected 1-9pm Monday. Locally higher amounts of rainfall are possible. On Tuesday, dry but breezy. Wind gusts: 20-30 mph. Turning less breezy overnight.

Confidence: Confidence is high that EEI-2 wind gusts will occur Monday. Chance of EEI-2 gusts: 90%. Confidence is medium that winds will reach EEI-3 criteria. Chance of EEI-3 gusts: 30%. Confidence is medium that thunderstorm gusts will reach EEI-2. Chance of storms: 30%. Chance of EEI-2 storm gusts: 30%. While wind gusts >50 mph (EEI-3) are noted as possible, the coverage should be isolated and the duration brief, the highest wind threat will be closer to the coast. Confidence is high that no hazards will occur on Tuesday.

LEBANON: Heavy rain, thunderstorms, and breezy winds beginning this morning. Rain diminishes in the evening and dry conditions move in overnight. See table above for thunderstorm and wind impact; common gusts of 35-45 mph are likely, with thunderstorm activity expected 1-9pm Monday. Locally higher amounts of rainfall are possible. On Tuesday, dry but breezy. Wind gusts: 20-30 mph. Turning less breezy overnight.

Confidence: Confidence is high that EEI-2 wind gusts will occur Monday. Chance of EEI-2 gusts: 90%. Confidence is medium that winds will reach EEI-3 criteria. Chance of EEI-3 gusts: 30%. Confidence is medium that thunderstorm gusts will reach EEI-2. Chance of storms: 30%. Chance of EEI-2 storm gusts: 30%. While wind gusts >50 mph (EEI-3) are noted as possible, the coverage should be isolated and the duration brief, the highest wind threat will be closer to the coast. Confidence is high that no hazards will occur on Tuesday.

LIBERTY UTILITIES SERVICE AREA 3-5 DAY OUTLOOK: Dry and hazard-free Wednesday. On Thursday, dry with breezy winds developing during the afternoon, with gusts of 25-35 mph. On Friday, dry during the day, then a chance for rain and snow showers during the evening and overnight. Snowfall: Tr-1.00". Breezy during the afternoon with gusts of 25-35 mph.

Confidence: Confidence is high that no hazards will occur Wednesday. Confidence is high that gusts on Thursday and Friday will stay below EEI-2. Chance of EEI-2 gusts Thursday/Friday: 20%.

DAYS 6-10 OUTLOOK FOR SERVICE AREA: The initial 6-10 day period remains a bit uncertain, with a big departure in models regarding a system moving through Friday night into Saturday morning. There is better consistency Saturday night into Sunday that the period will remain dry and hazard-free. A cold front may begin to push into the area by Monday, potentially spinning up a low offshore the East Coast Monday night, which may have some impacts for coastal areas if it tracks close enough to the coast. A ridge of high pressure may then follow into Wednesday, bringing a dry pattern with quiet conditions.

Go to [WeatherSentry® Online](#) for a complete view of the forecast and other business critical weather information.

Please do not respond to this email.

DATE: Monday, April 13, 2020
TIME: 4:00 PM

| | <u>Lebanon</u> | <u>Salem</u> | <u>Charlestown</u> | <u>Comments</u> | | | | | | | |
|--|---|---|---|------------------------|--|-------------|----------------|-----------|--|--|--|
| Weather Forecast | Heavy Rain/Thunderstorms and breezy winds. Gusts 35 to 45MPH are likely with isolated gust of >45-55 MPH. Dry conditions move in overnight and winds will diminish to 20-30 MPH. | Heavy Rain/Thunderstorms and breezy winds. Gusts 35 to 45MPH are likely with isolated gust of >45-60 MPH. Dry conditions move in overnight and winds will diminish to 20-30 MPH | Heavy Rain/Thunderstorms and breezy winds. Gusts 35 to 45MPH are likely with isolated gust of >45-55 MPH. Dry conditions move in overnight and winds will diminish to 20-30 MPH | | | | | | | | |
| Anticipated EERP Event Type | Type 3 | Type 3 | Type 3 | | | | | | | | |
| Internal Crews | 4 ½ | 4 crews + 2 T-man | 1 | 9 ½, 2 T-man | Plus 4 crews on Pager Standby – 2 Salem area and 2 Lebanon area. | | | | | | |
| Contractor Crews | | 5 + 2 diggers | | 7 | | | | | | | |
| Total Line Crews available | 4 1/2 | 9 + 2 Diggers + 2 T-man | 1 | 16 ½ and 2t-man | | | | | | | |
| Tree Crews | 2 | 3 | 2 | 7 | | | | | | | |
| Wires Down | | | | | | | | | | | |
| Other Support | | | | | | | | | | | |
| LU Storm Room Status | Not open | | | | | | | | | | |
| LU Municipal Room Status | Not open | | | | | | | | | | |
| Customer Outage Count | N/A | 2277 | N/A | Total | 2277 – only 16 customers out at this time | | | | | | |
| Estimated Date/Time for Total Restoration | Click here to enter a date. Choose an item. | 4/13/2020 18:00 | Click here to enter a date. Choose an item. | | | | | | | | |
| Planned Storm Conference Calls | Call # 1 – 11:30 AM Call # 2 – 4:00 PM | | | | | | | | | | |
| Notifications with Regulators. NHPUC/NH OEM | | | | | | | | | | | |
| EII Event Index & Storm Accounting | <table border="1"> <thead> <tr> <th>Description</th> <th>GP Expense Job</th> <th>GP VM Job</th> </tr> </thead> <tbody> <tr> <td colspan="3" style="height: 40px;"></td> </tr> </tbody> </table> | | | | | Description | GP Expense Job | GP VM Job | | | |
| Description | GP Expense Job | GP VM Job | | | | | | | | | |
| | | | | | | | | | | | |

| | | | |
|--|---------|----------------|-----------------|
| | EEI - 3 | STORM-EXP-2004 | STORM-VGMT-2004 |
|--|---------|----------------|-----------------|

Heather Tebbetts

From: DTN <EnergyEventIndex@dtn.com>
Sent: Tuesday, August 4, 2020 6:57 AM
To: DL NH Londonderry Emergency Dispatch
Subject: Energy Event Index: Threat Level 2



Energy Event Index for ALGONQUIN POWER & UTILITIES CORP

Your forecast administrator: kathleen.kelley@libertyutilities.com

Valid Time: August 4, 2020 7:00 AM EDT

Forecaster: michael.hansen

| Parameter | Region | Day 1 | Day 2 | Day 3 | Day 4 | Day 5 | Day 6 | Day 7 | Day 8 | Day 9 | Day 10 |
|------------------|--------------------------------|--------|--------|-------|-------|-------|-------|--------|--------|--------|--------|
| Wind Speed | Montauk NY | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Northern Lebanon Hanover NH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Northwest Monroe Bath NH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Southern Salem Derry NH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Western Alstead Charlestown NH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Wind/Gust | Montauk NY | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Northern Lebanon Hanover NH | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Northwest Monroe Bath NH | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Southern Salem Derry NH | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Western Alstead Charlestown NH | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Confidence Level | Montauk NY | Medium | Medium | High | High | High | High | Medium | Medium | Medium | Medium |
| | Northern Lebanon Hanover NH | Medium | Medium | High | High | High | High | Medium | Medium | Medium | Medium |
| | Northwest Monroe Bath NH | Medium | Medium | High | High | High | High | Medium | Medium | Medium | Medium |
| | Southern Salem Derry NH | Medium | Medium | High | High | High | High | Medium | Medium | Medium | Medium |
| | Western Alstead Charlestown NH | Medium | Medium | High | High | High | High | Medium | Medium | Medium | Medium |

Energy Event Index

Definition

With Leaves (Apr 1 - Oct 31)

| EEI | Wind Speed | Wind/Gust |
|-----|------------|-----------|
| 1 | < 30 mph | < 35 mph |
| 2 | >= 30 mph | >= 35 mph |
| 3 | >= 45 mph | >= 50 mph |
| 4 | >= 60 mph | >= 65 mph |
| 5 | >= 70 mph | >= 75 mph |

| Confidence Level | |
|------------------|---|
| Low | <30% chance the most likely index level remains at that level through the event |
| Medium | 30-60% chance the most likely index level remains at that level through the event |
| High | >=60% chance the most likely index level remains at that level through the event |

*Note: Confidence is NOT a measure of probability of an event occurring; if you have an accompanying forecast discussion, that information can be found there. Confidence is a measure of how likely the forecasted index level will stay at that level from now through the event, or a way to measure the potential for variability in the forecast. So for example, if it is Monday and there are level 2 gusts forecasted on Wednesday with high confidence, and if your customizable threshold for high confidence is set at 60%, it means the following: There is a >=60% chance the most likely forecasted gusts will remain at level 2 with all updates from now through Wednesday.

Forecast for Algonquin Power From DTN

For Phone Consulting: 1-800-361-4972

Issued Date: 08/04 0600

Forecaster: Michael Hansen

| Zones (Forecast for next 30 hrs) | SALEM | CHARLESTOWN | LEBANON |
|----------------------------------|---------------|---------------|---------------|
| Event | TSTORMS/GUSTS | TSTORMS/GUSTS | TSTORMS/GUSTS |
| Event Begin Time | 5PM TUE | 2PM TUE | 3PM TUE |
| Event End Time | 4AM WED | 3AM WED | 3AM WED |
| Event Confidence | MEDIUM | MEDIUM | MEDIUM |
| Thunderstorm Wind Gusts | 30-45 MPH | 30-45 MPH | 30-45 MPH |
| Lightning Intensity | LOW | LOW | LOW |
| Storm Direction | NE | NE | NE |
| Rain Amount | 0.50-1.25" | 0.75-2.50" | 0.75-2.50" |
| Snow Amount | | | |
| Snow Character | | | |
| Max Sustained Winds | 25-35 MPH | 20-30 MPH | 20-30 MPH |

| | | | |
|----------------|-----------|-----------|-----------|
| Wind Gust | 45-60 MPH | 40-55 MPH | 35-50 MPH |
| Temp. Extremes | 90/69 | 85/65 | 86/63 |

LIBERTY UTILITIES SERVICE AREA 48 HOUR OUTLOOK:

TROPICAL STORM ISAIAS UPDATE: Isaias is about 15mi southeast of Roanoke Rapids, NC as of 5am EDT this morning. It briefly became hurricane-strength overnight, but has since moved back over land and weakened to a tropical storm. This system remains forecast to track north-northeast through the Hudson Valley, although it appears to have shifted west in its track slightly. This should bring the heaviest rain through Vermont and eastern New York, although storms and rain from Isaias still stand to bring quite a bit of rain to the general area. The main impacts with Isaias will be thunderstorms capable of producing tornadoes, as well as strong wind gusts. It will remain a rather quick-moving system, so the peak wind gusts should be limited to a brief window, likely later this evening to just after midnight. Confidence is medium with this system.

SALEM: Scattered showers and maybe a slight chance of a thunderstorm during the mid to late morning hours and into the afternoon. Scattered showers and storms developing through the late afternoon and into the evening hours. Rain showers should end shortly after midnight tonight. Main t-storm timing: 5-10pm. See chart above for details. Rainfall: Up to 1.25". Non-thunderstorm winds will also ramp up across the region this evening and fade through tonight/Wednesday morning hours. Peak wind/wind gust timing: 9pm-3am Wed. See chart above for more wind details. Wednesday, breezy and dry.

Confidence: Confidence is medium on impacts on tonight/Wednesday morning from Tropical Storm Isaias. Chance of Thunderstorms: 40%. Chance of EEI-2 storm gusts: 30%. Confidence is medium that rainfall amounts Tuesday night/Wednesday morning will be >1". Chance rainfall >1": 20%. Confidence is high on hazard wind gusts this evening/early Wed. Chance of EEI-2 sustained winds: 20%. Chance of EEI-2/3 gusts Tue evening/night: 70%/10%. Confidence is high that no hazards will occur Wednesday.

CHARLESTOWN: Scattered showers and maybe a slight chance of a thunderstorm during the mid to late morning hours. Scattered showers and storms developing through the afternoon and into the evening hours. Rain showers should end by around midnight. Main t-storm timing: 2-9pm. See chart above for details. Rainfall: Up to 2.50". Non-thunderstorm winds will also ramp up across the region this evening and fade through tonight/Wednesday morning hours. Peak wind/wind gust timing: 8pm-1am Wed. See chart above for more wind details. Wednesday, breezy and dry.

Confidence: Confidence is medium on impacts on tonight/Wednesday morning from Tropical Storm Isaias. Chance of Thunderstorms: 50%. Chance of EEI-2 storm gusts: 30%. Confidence is high that rainfall amounts tonight/Wednesday morning will be >1". Chance rainfall >1": 70%. Confidence is high on hazard wind gusts this evening/early Wed. Chance of EEI-2 sustained winds: 5%. Chance of EEI-2/3 gusts this evening/night: 60%/5%. Confidence is high that no hazards will occur Wednesday.

LEBANON: Scattered showers and maybe a slight chance of a thunderstorm during the mid to late morning hours. Scattered showers and storms developing through the afternoon and into the evening hours. Rain showers should end by around 2am or so tonight. Main t-storm timing: 3-10pm. See chart above for details. Rainfall: Up to 2.50". Non-thunderstorm winds will also ramp up across the region this evening and fade through the late tonight/Wednesday morning hours. Peak wind/wind gust timing: 9pm-2am Wed. See chart above for more wind details. Wednesday, breezy and dry.

Confidence: Confidence is medium on impacts on tonight/Wednesday morning from Tropical Storm Isaias. Chance of Thunderstorms: 50%. Chance of EEI-2 storm gusts: 30%. Confidence is high that rainfall amounts tonight/Wednesday morning will be >1". Chance rainfall >1": 70%. Confidence is high on hazard wind gusts this evening/early Wed. Chance of EEI-2 sustained winds: 5%. Chance of EEI-2/3 gusts this evening/night: 60%/5%. Confidence is high that no hazards will occur Wednesday.

LIBERTY UTILITIES SERVICE AREA 3-5 DAY OUTLOOK: Dry and hazard-free Thursday through Saturday.

Confidence: Confidence is high that no hazards will occur Thursday through Saturday.

DAYS 6-10 OUTLOOK FOR SERVICE AREA: An area of high pressure may remain settled over New England, which would likely bring a fair and quiet weather pattern Sunday and Monday. Storm activity may move in by Tuesday and Wednesday, however, as a disturbance pushes through.

Go to [WeatherSentry® Online](#) for a complete view of the forecast and other business critical weather information.

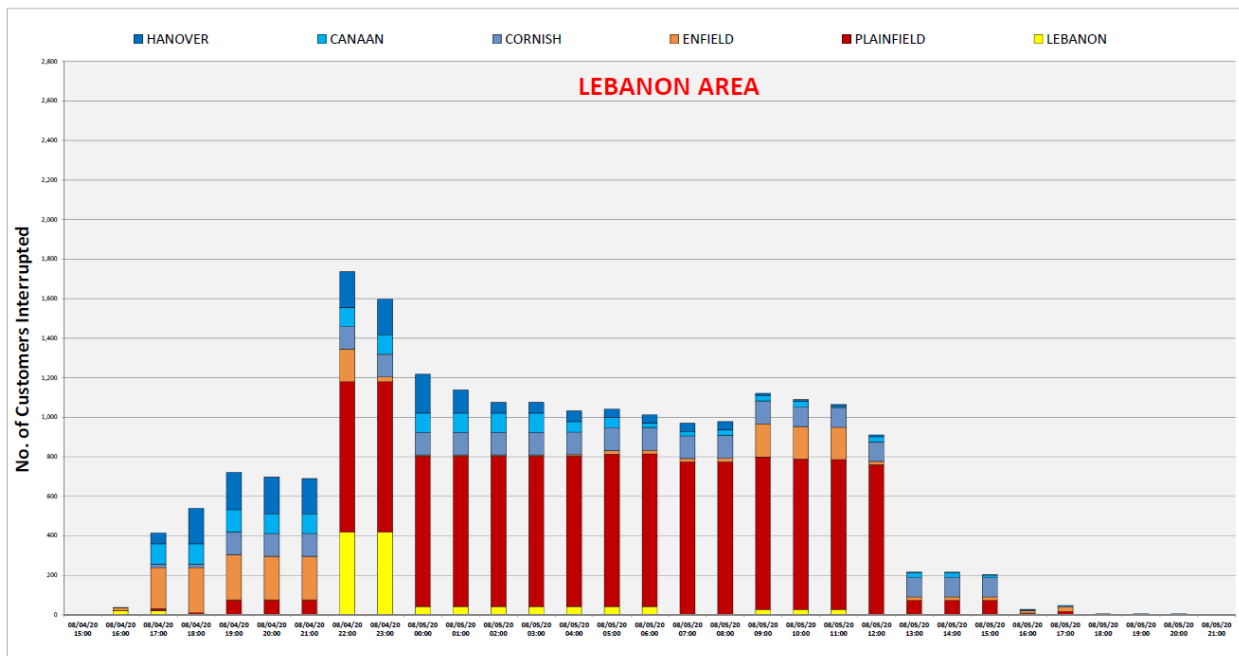
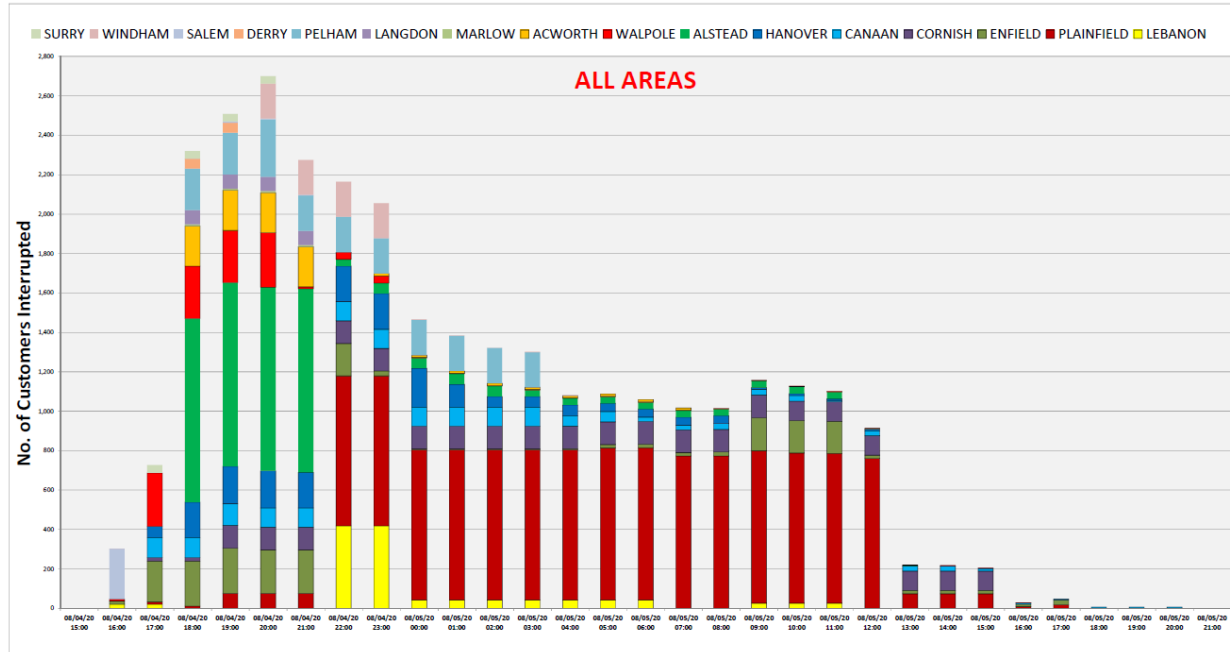
Please do not respond to this email.

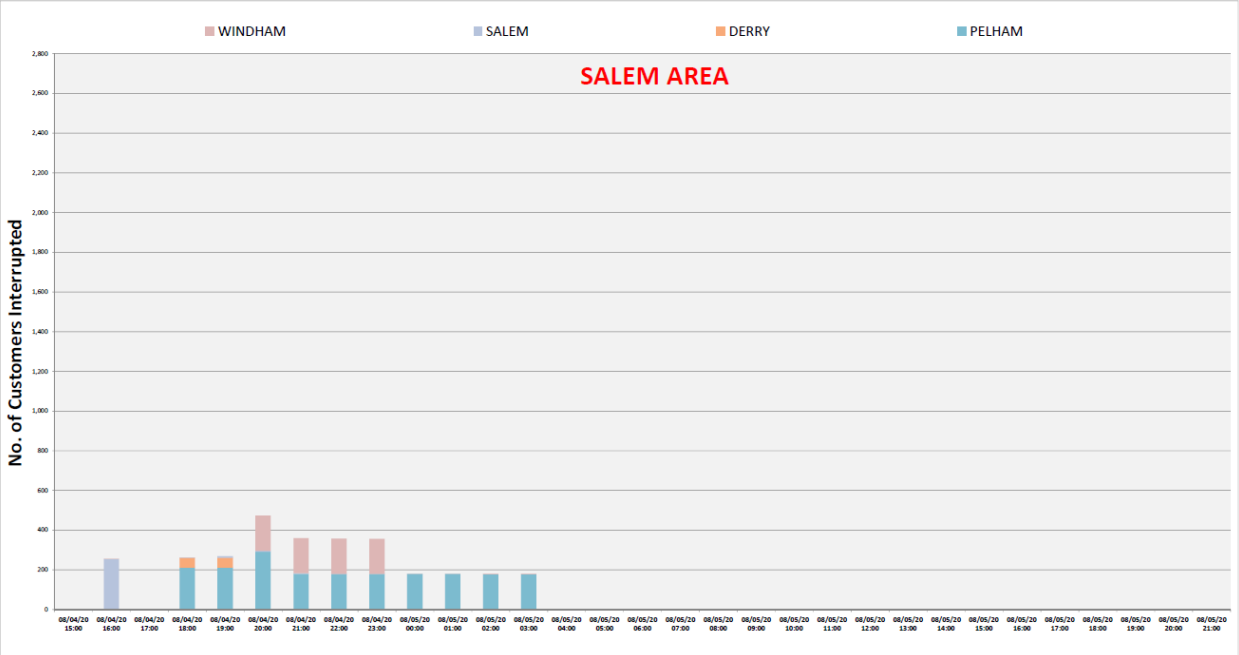
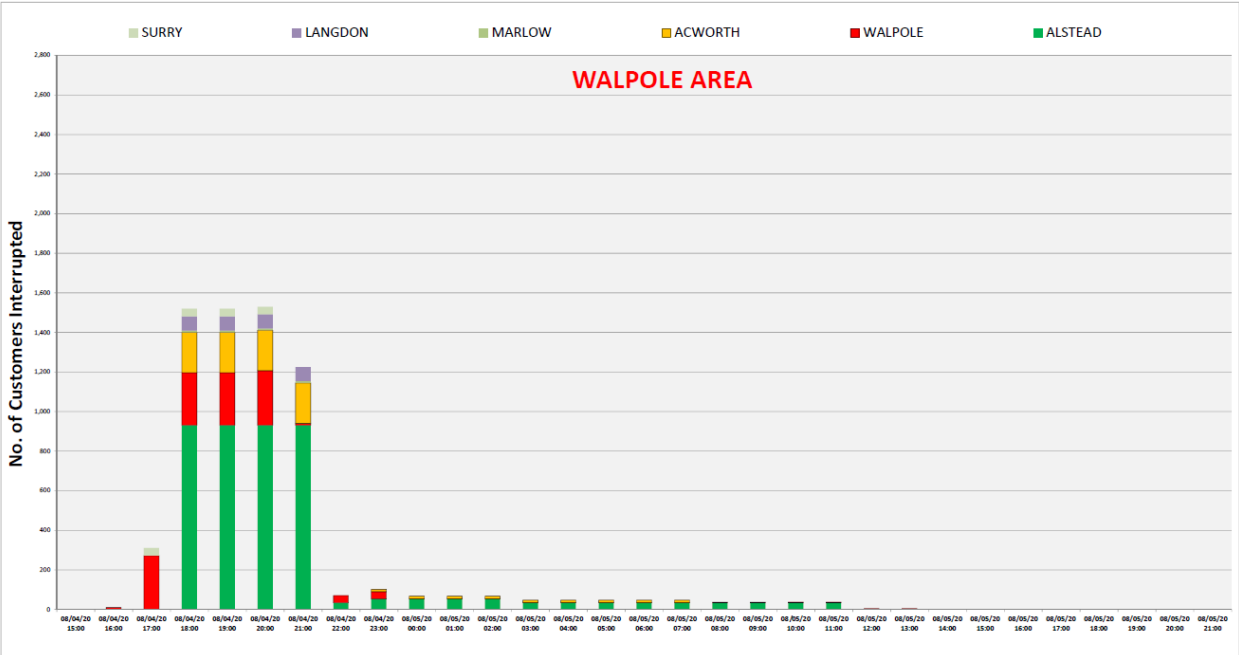
DATE: Monday, August 03, 2020

| | <u>Lebanon</u> | <u>Salem</u> | <u>Charlestown</u> | <u>Comments</u> | |
|--|--|--|---|---------------------------------------|------------------------------------|
| Weather Forecast | T-storm timing: 3-10pm Tue. Peak wind gust timing: 9pm Tue-2am Wed. 35-50mph | T-storm timing: 5-10pm Tue. Peak wind gust timing: 9pm Tue-2am Wed. 38-52mph | T-storm timing: 2-9pm Tue. Peak wind gust timing: 8pm Tue-1am Wed. 35-50mph | | |
| Anticipated EERP Event Level | Level 4 | Level 4 | Level 4 | Medium Confidence level per EEI Table | |
| Resources | | | | Totals | 4 customer service reps until 11pm |
| Internal Crews | 7.5 | 6.5 | 1 | 15 | |
| Contractor Crews | 0 | 4 + 2 | 0 | 6 | |
| Total Line Crews available | 7.5 | 12.5 | 1 | 21 | |
| Tree Crews | 6 | 9 | 1 | 16 | |
| Wires Down | 0 | 6 | 0 | 6 | |
| Other Support | 0 | 3 | 0 | 3 | |
| EOC/Storm Room Status | N/A | N/A | N/A | | |
| Municipal Room Status | N/A | N/A | N/A | | |
| Customer Outage Count | N/A | N/A | N/A | Total | |
| Estimated Date/Time for Total Restoration | Click here to enter a date. <u>Choose an item.</u> | Click here to enter a date. <u>Choose an item.</u> | Click here to enter a date. <u>Choose an item.</u> | | |
| Planned Storm Conference Calls | Tuesday August 4 th 1:30pm | | | | |
| Notifications with Regulators. NHPUC/NH OEM | | | | | |

| EII Event Index & Storm Accounting | Description | GP Expense Job | GP Capital Job | GP VM Job |
|---|-----------------------|-------------------|--------------------|-----------|
| | Tropical Storm Isaias | | STORM-EXP- 2007 | VGMT-2007 |

Tropical Storm Isaias Reliability Indices





| ID | Feeder | Date | Time Out | Duration (Minutes) | Customers Interrupted | Customer Minutes Int. | Town | Comments | Cause | District | |
|----|--------|------|----------|--------------------|-----------------------|-----------------------|---------|------------|--|--------------------|-------------|
| 1 | 58866 | 7L1 | 8/4/2020 | 16 00 | 30 | 15 | 450 | ENFIELD | BLOWN 15K LINE FUSE P28 CHOATE RD DUE LIMB ON LINE | TREE - BROKEN LIMB | LEBANON |
| 2 | 58867 | 1L1 | 8/4/2020 | 16 32 | 42 | 23 | 966 | LEBANON | BLOWN 25K LINE FUSE P19 STEVENS RD DUE TO FALLEN TREE BETWEEN P20 & P21 | TREE FELL | LEBANON |
| 3 | 58873 | 9L1 | 8/4/2020 | 16 47 | 36 | 255 | 9,246 | SALEM | PTR 701228 B & C PH LOCKOUT - A PHASE MANUALLY OPENED - TREE BRANCH P28-P29 OLD ROCKINGHAM RD | TREE - BROKEN LIMB | SALEM |
| 4 | 58888 | 16L1 | 8/4/2020 | 17 19 | 480 | 46 | 22,080 | HANOVER | BLOWN 25K LINE FUSE P179 HANOVER CENTER RD/TREE ON POLE | TREE FELL | LEBANON |
| 5 | 58903 | 12L2 | 8/4/2020 | 16 28 | 61 | 10 | 610 | WALPOLE | BLOWN 25K FUSE P164 COUNTY RD- CLEARED TREE FROM P9 WHIPPLE RD | TREE FELL | CHARLESTOWN |
| 6 | 58915 | 7L1 | 8/4/2020 | 17 30 | 149 | 25 | 3 725 | CANAAN | BLOWN 25K LINE FUSE P88 SOUTH RD, TREE DOWN P2 1/2 -P3 SOUTH ROAD. | TREE FELL | LEBANON |
| 7 | 58918 | 7L1 | 8/4/2020 | 17 29 | 596 | 46 | 27,416 | CANAAN | MANUALLY OPENED P18 CODFISH HILL RD TO MAKE REPAIRS DUE TO TREE ON LINE P29 CODFISH HILL RD | TREE FELL | LEBANON |
| 8 | 58933 | 13L1 | 8/4/2020 | 17 57 | 69 | 1 | 69 | SALEM | PINE LIMBS BROKE NEUTRAL P1 EYSSI DR, CLEARED LIMBS & MADE REPAIR FROM POLE TO HOUSE | TREE - BROKEN LIMB | SALEM |
| 9 | 58938 | 7L1 | 8/4/2020 | 17 54 | 810 | 1 | 810 | CANAAN | REHUNG SERVICE FROM P132-2 SOUTH RD / TREE REMOVED FROM SERVICE | TREE FELL | LEBANON |
| 10 | 58941 | 16L1 | 8/4/2020 | 19 51 | 54 | 8 | 432 | HANOVER | MANUALLY DE-ENERGIZED 25K STEP DOWN TRANSFORMER P85-50 RUDDSBORO RD TO MAKE REPAIRS AT P99-50 TO P102 RUDDSBORO RD | TREE FELL | LEBANON |
| 11 | 58943 | 7L1 | 8/4/2020 | 17 56 | 60 | 22 | 1,320 | CANAAN | BLOWN 65K LINE FUSE P179 ROUTE 4/TREE CAME DOWN ON PRIMARY & NEUTRAL BETWEEN P6 & P7 GOOSE POND RD | TREE FELL | LEBANON |
| 12 | 58944 | 1L2 | 8/4/2020 | 17 56 | 229 | 58 | 13,282 | ENFIELD | BLOWN 15K LINE FUSE P20 SHAKER BLVD /TREE ON WIRES AT P40 SHAKER BLVD | TREE FELL | LEBANON |
| 13 | 58973 | 16L1 | 8/4/2020 | 18 11 | 628 | 13 | 8,164 | HANOVER | BLOWN 40K LINE FUSE P33 KING RD DUE TO TREE FALLING BETWEEN P6 & P7 HAYES HILL RD | TREE FELL | LEBANON |
| 14 | 58996 | 12L2 | 8/4/2020 | 17 22 | 202 | 300 | 60,600 | WALPOLE | 3 BLOWN 80K LINE FUSES P43 PROSPECT RD DUE TO TREES FALLING AT P 46 & P90 WATKINS HILL RD | TREE FELL | CHARLESTOWN |
| 15 | 59007 | 7L2 | 8/4/2020 | 18 07 | 177 | 18 | 3,186 | ENFIELD | BLOWN 25K LINE FUSE P34 SHAKER HILL RD/UNKNOWN CAUSE | UNKNOWN | LEBANON |
| 16 | 59008 | 12L1 | 8/4/2020 | 18 25 | 180 | 1219 | 219,420 | WALPOLE | PTR 741026 RIVER ST LOCKOUT DUE TO TREE ON WIRE AT P147 RIVER ST | TREE FELL | CHARLESTOWN |
| 17 | 59010 | 16L1 | 8/4/2020 | 18 12 | 502 | 31 | 15 562 | HANOVER | BLOWN 25K LINE FUSE P13 DOGFORD RD/TREE BETWEEN P6 & P7 DOGFORD RD | TREE FELL | LEBANON |
| 18 | 58931 | 7L1 | 8/4/2020 | 17 45 | 1099 | 7 | 7,693 | HANOVER | BLOWN 25K LINE FUSE @ P52 MOOSE-MOUNTAIN RD / TREE REMOVED @ P70 MOOSE MOUNTAIN RD | TREE FELL | LEBANON |
| 19 | 59031 | 14L2 | 8/4/2020 | 18 23 | 66 | 98 | 6,468 | PELHAM | BLOWN 65K FUSE P128 MAMMOTH RD. CAUSE WINDS. NO TROUBLE FOUND | UNKNOWN | SALEM |
| 20 | 59047 | 13L1 | 8/4/2020 | 18 47 | 42 | 50 | 2,100 | DERRY | BLOWN 40K LINE FUSE AT ERMA AND GOOD HUE/TREE ON WIRES | TREE FELL | SALEM |
| 21 | 59051 | 1L2 | 8/4/2020 | 17 54 | 270 | 140 | 37,800 | ENFIELD | BLOWN 25K LINE FUSE P155 NH ROUTE 4A/TREE LIMBS ON WIRES | TREE - BROKEN LIMB | LEBANON |
| 22 | 59060 | 14L2 | 8/4/2020 | 18 46 | 99 | 113 | 11,187 | PELHAM | BLOWN 80K FUSE P40 SHERBOURNE RD/SPAULDING HILL RD DUE TO FALLEN TREE LIMB. | TREE - BROKEN LIMB | SALEM |
| 23 | 59062 | 6L3 | 8/4/2020 | 19 00 | 1076 | 2 | 2,152 | HANOVER | BLOWN 15K LINE FUSE P13 PINNEO HILL RD / REMOVED TREE P13 REHUNG PRIMARY P13-P13-3 | TREE FELL | LEBANON |
| 24 | 59066 | 1L2 | 8/4/2020 | 19 22 | 1200 | 163 | 195,600 | PLAINFIELD | MANUALLY OPENED 3-65K LINE FUSES P247 NH ROUTE 120, BLOWN 40K LINE FUSE P309 NH ROUTE 120, BROKEN P249 NH ROUTE 120, LARGE TREE FELL | TREE FELL | LEBANON |
| 25 | 59070 | 1L2 | 8/4/2020 | 19 27 | 7 | 1 | 7 | SALEM | REMOVED SERVICE P11 CAROL AVE DUE TO DAMAGE FROM FALLEN TREE | TREE FELL | SALEM |
| 26 | 59074 | 7L2 | 8/4/2020 | 19 45 | 1130 | 1 | 1,130 | ENFIELD | DISCONNECTED SERVICE P28 LOCKEHAVER RD TO MAKE REPAIRS TO WIRES FROM FALLEN TREE. | TREE FELL | LEBANON |
| 27 | 59075 | 9L2 | 8/4/2020 | 19 48 | 29 | 1 | 29 | SALEM | REMOVED SERVICE P2 SULLIVAN AVE DUE TO DAMAGE FROM FALLEN TREE | TREE FELL | SALEM |
| 28 | 59092 | 16L1 | 8/4/2020 | 18 42 | 932 | 1 | 932 | HANOVER | RECONNECTED SERVICE P65 KING RD DUE TO FALLEN TREE | TREE FELL | LEBANON |
| 29 | 59094 | 13L3 | 8/4/2020 | 19 57 | 84 | 1 | 84 | SALEM | BLOWN 15K FUSE P14 PARK AVE, CAUSE TREE ON PHASE. | TREE FELL | SALEM |
| 30 | 59100 | 13L2 | 8/4/2020 | 19 58 | 107 | 3 | 321 | SALEM | BLOWN 15K FUSE P34 ZION-HILL RD. CAUSE BRANCH CONTACT P34-2 | TREE - BROKEN LIMB | SALEM |
| 31 | 59103 | 7L2 | 8/4/2020 | 20 12 | 1087 | 1 | 1,087 | ENFIELD | RECONNECTED AND MADE REPAIRS TO SERVICE P11 KLUGE RD DUE TO FALLEN TREE LIMB | TREE - BROKEN LIMB | LEBANON |
| 32 | 59104 | 13L3 | 8/4/2020 | 20 13 | 134 | 1 | 134 | SALEM | RECONNECTED AND MADE REPAIRS TO SERVICE P5 BANNISTER RD DUE TO FALLEN TREE | TREE FELL | SALEM |
| 33 | 59108 | 9L3 | 8/4/2020 | 20 10 | 484 | 1 | 484 | WINDHAM | RECONNECTED AND MADE REPAIRS TO SERVICE P19 SEARLES RD DUE TO FALLEN TREE | TREE FELL | SALEM |
| 34 | 59110 | 16L1 | 8/4/2020 | 18 00 | 389 | 81 | 31,509 | HANOVER | BLOWN 40K LINE FUSE P151 HANOVER CENTER RD DUE TO TREE ON LINE BETWEEN P154-P155 HANOVER CENTER RD | TREE FELL | LEBANON |
| 35 | 59111 | 1L2 | 8/4/2020 | 17 27 | 873 | 28 | 24,436 | PLAINFIELD | BLOWN 25K LINE FUSE P8 CAMP RD, BLOWN 40K LINE FUSE P23 HOPKINS RD, MULTIPLE TREES ON PRIMARY ON BURR RD | TREE FELL | LEBANON |
| 36 | 59117 | 7L1 | 8/4/2020 | 17 38 | 612 | 19 | 11,628 | CANAAN | BLOWN 15K LINE FUSE P15 BACK BAY RD/LARGE LIMB ON WIRES P22 BAY BAY RD | TREE FELL | LEBANON |
| 37 | 59124 | 9L3 | 8/4/2020 | 20 45 | 159 | 176 | 27,984 | WINDHAM | MANUALLY OPENED TRIPSAVER P51 RANGE RD TO MAKE REPAIRS AT P8 W SHORE DR TREE ON WIRES | TREE FELL | SALEM |
| 38 | 59138 | 14L2 | 8/4/2020 | 21 19 | 265 | 1 | 265 | PELHAM | RECONNECTED AND MADE REPAIRS TO SERVICE P15-1 COLONIAL DR DUE TO FALLEN TREE | TREE FELL | SALEM |
| 39 | 59142 | 12L2 | 8/4/2020 | 20 46 | 133 | 10 | 1 330 | WALPOLE | BLOWN 15K LINE FUSE P185 COUNTY RD/LARGE TREE BETWEEN P2 AND P3 CARPENTER HILL RD | TREE FELL | CHARLESTOWN |
| 40 | 59147 | 12L1 | 8/4/2020 | 22 00 | 794 | 33 | 26,202 | ALSTEAD | BLOWN 25K LINE FUSE P19 NORTH RD / REHUNG PRIMARY P19-P23 REMOVED TREE P21 - P22 | TREE FELL | CHARLESTOWN |
| 41 | 59148 | 12L2 | 8/4/2020 | 22 12 | 88 | 27 | 2,376 | WALPOLE | 3 BLOWN 25K LINE FUSES P202 COUNTY RD DUE TO TREE ON P7 MERRIAM RD | TREE FELL | CHARLESTOWN |
| 42 | 59157 | 1L2 | 8/4/2020 | 22 26 | 37 | 437 | 16,169 | LEBANON | PTR 751040 P18 SCHOOL ST, LEBANON LOCKED OUT / CAUSE UNKNOWN | UNKNOWN | LEBANON |
| 43 | 59159 | 1L2 | 8/4/2020 | 22 26 | 851 | 686 | 583,786 | PLAINFIELD | PTR 759001 P141 RT 120 LOCKED OUT FROM FALLEN TREES AND BROKEN POLE AT RT 120 | TREE FELL | LEBANON |
| 44 | 59161 | 12L1 | 8/4/2020 | 23 27 | 153 | 20 | 3,060 | ALSTEAD | BLOWN 25K LINE FUSE NH ROUTE 12A. REMOVED TREE FROM PRIMARY P3 & P4 BONNIE-BREA DR | TREE FELL | CHARLESTOWN |
| 45 | 59162 | 12L1 | 8/4/2020 | 23 24 | 485 | 12 | 5,820 | ACWORTH | BLOWN 25K STEPDOWN TRANSFORMER FUSE P4 BALL RD / REMOVED TREE FROM PRIMARY & NEUTRAL BETWEEN P5 & P6 BALL RD | TREE FELL | CHARLESTOWN |
| 46 | 59163 | 12L2 | 8/5/2020 | 0 10 | 814 | 2 | 1,628 | WALPOLE | BLOWN 3K LINE FUSE P184, REPLACED DAMAGED 10KVA TRANSFORMER P184 COUNTY RD/ TREE ON PRIMARY P1 CARPENTER HILL RD | TREE FELL | CHARLESTOWN |
| 47 | 59167 | 16L1 | 8/5/2020 | 0 30 | 62 | 16 | 992 | HANOVER | BLOWN 25K STEP DOWN TRANSFORMER FUSE P3 1/2 FERSON RD/TREE LIMBS ON WIRES | TREE FELL | LEBANON |

| | | | | | | | | | | | |
|----|-------|------|----------|-------|-----|-----|--------|------------|---|--------------------|-------------|
| 48 | 59168 | 1L2 | 8/5/2020 | 0 08 | 396 | 42 | 16,632 | LEBANON | BLOWN 40K LINE FUSE P62 RT120 / REMOVED BURNING TREE P1-P2 KINNE RD | TREE FELL | LEBANON |
| 49 | 59169 | 1L2 | 8/5/2020 | 5 00 | 750 | 21 | 15,750 | ENFIELD | MANUALLY OPENED 40K LINE FUSE P29 METHODIST HILL TO REMOVE TREE FROM WIRE | TREE FELL | LEBANON |
| 50 | 59172 | 14L1 | 8/4/2020 | 20 58 | 381 | 178 | 67,818 | PELHAM | BLOWN 40K FUSE P2 GRACE/S SHORE RD & BLOWN 40K FUSE P43 WOELKE CIR. CAUSE TREE ON LINES P20 TO P21 SPRING RD | TREE FELL | SALEM |
| 51 | 59176 | 7L2 | 8/5/2020 | 4 23 | 636 | 1 | 636 | ENFIELD | REPLACED SERVICE FROM P7 LAKE ST / TREES ON WIRES | TREE FELL | LEBANON |
| 52 | 59178 | 7L1 | 8/4/2020 | 19 45 | 554 | 31 | 17,174 | CANAAN | MANUALLY OPENED LINE FUSE P34 CANAAN ST TO MAKE REPAIRS / PRIMARY DOWN P10 CORNO RD CAUSED BY LIMB ON WIRE P12 CORNO RD | TREE FELL | LEBANON |
| 53 | 59179 | 16L1 | 8/5/2020 | 5 13 | 146 | 1 | 146 | HANOVER | BLOWN 10K LINE FUSE P8 STEVENS RD / CLEARED BROKEN LIMB | TREE - BROKEN LIMB | LEBANON |
| 54 | 59185 | 1L2 | 8/5/2020 | 6 52 | 227 | 2 | 454 | PLAINFIELD | BLOWN 6K TRANSFORMER FUSE P7-2, BRANCH ON TRANSFORMER ARM | TREE - BROKEN LIMB | LEBANON |
| 55 | 59194 | 7L1 | 8/5/2020 | 8 13 | 726 | 1 | 726 | CANAAN | TREE ON SERVICE P14 JONES HILL RD / REATTACHED SERVICE | TREE FELL | LEBANON |
| 56 | 59196 | 7L1 | 8/5/2020 | 8 29 | 143 | 2 | 286 | ENFIELD | BLOWN 10K LINE FUSE P21 CHOATE RD, CLEARED TREE P23 CHOATE RD | TREE FELL | LEBANON |
| 57 | 59200 | 12L1 | 8/5/2020 | 8 50 | 304 | 1 | 304 | ALSTEAD | REATTACHED SERVICE, ALSTEAD CENTER RD | TREE FELL | CHARLESTOWN |
| 58 | 59202 | 7L1 | 8/5/2020 | 8 45 | 422 | 7 | 2,954 | CANAAN | BLOWN 25K LINE FUSE P201 RTE 4 / TREE REMOVED AT P3 HALL RD | TREE FELL | LEBANON |
| 59 | 59203 | 7L1 | 8/4/2020 | 18 06 | 919 | 3 | 2,757 | ENFIELD | BLOWN 10K TRANSFORMER FUSE P12 HAZEN RD NO CAUSE FOUND | UNKNOWN | LEBANON |
| 60 | 59206 | 7L1 | 8/5/2020 | 4 44 | 345 | 21 | 7,245 | CANAAN | BLOWN 25K LINE FUSE P43-50 SAWYER HILL RD, TREE FELL P60 SAWYER HILL | TREE FELL | LEBANON |
| 61 | 59214 | 7L1 | 8/5/2020 | 9 44 | 345 | 2 | 690 | ENFIELD | BLOWN 10K LINE FUSE P111-1 POTATO RD - TREE FELL P111-1 | TREE FELL | LEBANON |
| 62 | 59217 | 1L2 | 8/5/2020 | 9 55 | 113 | 172 | 19,436 | LEBANON | MANUALLY OPENED PTR 751149 P33 EASTMAN HILL RD INTERSECTION FURLOW & EASTMAN HILL 2 LARGE TREES ON HENDRIX PRIMARY | TREE FELL | LEBANON |
| 63 | 59221 | 12L2 | 8/5/2020 | 10 36 | 328 | 1 | 328 | WALPOLE | REATTACHED SERVICE P46-1 PROSPECT HILL RD, TREE FELL | TREE FELL | CHARLESTOWN |
| 64 | 59232 | 7L1 | 8/5/2020 | 12 57 | 92 | 13 | 1,196 | CANAAN | MANUALLY OPENED 25K FUSE P51 GRISTMILL HILL RD FOR TREE REMOVAL - TREE FELL P152-P153 ABBOTT RD | TREE FELL | LEBANON |
| 65 | 59236 | 16L1 | 8/5/2020 | 13 05 | 192 | 1 | 192 | HANOVER | BLOWN 10K LINE FUSE P74 THOMPSON RD, TREE CONTACT BETWEEN P75 & P76 THOMPSON RD | TREE FELL | LEBANON |
| 66 | 59246 | 7L1 | 8/5/2020 | 12 57 | 463 | 5 | 2,315 | CANAAN | REPLACED BAD 10KVA TRANSFORMER, CUTOUT AND CROSS ARM P140 ABBOTT RD / ALSO REPLACED CROSS ARM AT P150 ABBOTT RD | TREE FELL | LEBANON |
| 67 | 59248 | 1L2 | 8/5/2020 | 17 00 | 30 | 21 | 630 | ENFIELD | MANUALLY OPENED 40K LINE FUSE P29 METHODIST HILL RD TO REMOVE TREE FROM WIRE | TREE FELL | LEBANON |

Heather Tebbetts

From: DTN <EnergyEventIndex@dtn.com>
Sent: Saturday, December 5, 2020 7:24 AM
To: DL NH Londonderry Emergency Dispatch
Subject: Energy Event Index: Threat Level 3



Energy Event Index for ALGONQUIN POWER & UTILITIES CORP

Your forecast administrator: kathleen.kelley@libertyutilities.com

Valid Time: December 5, 2020 7:00 AM EST

Forecaster: cody.fishman

| Parameter | Region | Day 1 | Day 2 | Day 3 | Day 4 | Day 5 | Day 6 | Day 7 | Day 8 | Day 9 | Day 10 |
|------------------|--------------------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Wind Speed | Montauk NY | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Northern Lebanon Hanover NH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Northwest Monroe Bath NH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Southern Salem Derry NH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Western Alstead Charlestown NH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Wind/Gust | Montauk NY | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Northern Lebanon Hanover NH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Northwest Monroe Bath NH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Southern Salem Derry NH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Western Alstead Charlestown NH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Snow | Montauk NY | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Northern Lebanon Hanover NH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Northwest Monroe Bath NH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Southern Salem Derry NH | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Western Alstead Charlestown NH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Ice | Montauk NY | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Northern Lebanon Hanover NH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Northwest Monroe Bath NH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Southern Salem Derry NH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Western Alstead Charlestown NH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Confidence Level | Montauk NY | Medium | High | High | High | High | High | High | High | High | High |
| | Northern Lebanon Hanover NH | Medium | High | High | High | High | High | High | High | High | High |
| | Northwest Monroe Bath NH | Medium | High | High | High | High | High | High | High | High | High |
| | Southern Salem Derry NH | High | High | High | High | High | High | High | High | High | High |
| | Western Alstead Charlestown NH | Medium | High | High | High | High | High | High | High | High | High |

Energy Event Index Definition

No Leaves (Nov 1 - Mar 31)

| EEI | Wind Speed | Wind/Gust | Snow | Ice |
|-----|------------|-----------|-----------|-------------|
| 1 | < 40 mph | < 45 mph | < 6 in. | < 1/10 in. |
| 2 | >= 40 mph | >= 45 mph | >= 6 in. | >= 1/10 in. |
| 3 | >= 50 mph | >= 55 mph | >= 8 in. | >= 3/8 in. |
| 4 | >= 60 mph | >= 70 mph | >= 12 in. | >= 1/2 in. |
| 5 | >= 70 mph | >= 85 mph | >= 24 in. | >= 1 in. |

| Confidence Level | |
|------------------|---|
| Low | <30% chance the most likely index level remains at that level through the event |
| Medium | 30-60% chance the most likely index level remains at that level through the event |
| High | >=60% chance the most likely index level remains at that level through the event |

*Note: Confidence is NOT a measure of probability of an event occurring; if you have an accompanying forecast discussion, that information can be found there. Confidence is a measure of how likely the forecasted index level will stay at that level from now through the event, or a way to measure the potential for variability in the forecast. So for example, if it is Monday and there are level 2 gusts forecasted on Wednesday with high confidence, and if your customizable threshold for high confidence is set at 60%, it means the following: There is a >=60% chance the most likely forecasted gusts will remain at level 2 with all updates from now through Wednesday.

Forecast for Algonquin Power From DTN

For Phone Consulting: 1-800-361-4972

Issued Date: 12/05 0730

Forecaster: Cody Fishman

| Zones (Forecast for next 30 hrs) | SALEM | CHARLESTOWN | LEBANON |
|----------------------------------|------------|-------------|----------|
| Event | SNOW/GUSTS | SNOW | SNOW |
| Event Begin Time | 11am Sat | 10am Sat | 11am Sat |

| | | | |
|-------------------------|---------|----------|----------|
| Event End Time | 2am Sun | 8pm Sat | 9pm Sat |
| Event Confidence | 60% | 20% | 10% |
| Thunderstorm Wind Gusts | | | |
| Lightning Intensity | | | |
| Storm Direction | | | |
| Rain Amount | | | |
| Snow Amount | 7-14" | 2-6" | 2-4" |
| Snow Ratio | 6:1-9:1 | 7:1-10:1 | 8:1-10:1 |
| Max Sustained Winds | | | |
| Wind Gust | | | |
| Temp. Extremes | 53/28 | 36/20 | 44/25 |

UPDATE: Increased EEI-2/3 snow chances and decreased peak wind gusts in Salem.

LIBERTY UTILITIES SERVICE AREA 48 HOUR OUTLOOK:

SALEM: A Nor'easter will bring accumulating snow and gusty winds today and tonight. Rain is expected to change to snow between 10am-12pm today. Snow continues through the afternoon and eventually diminishing in the evening. Timing of heaviest snow: 2-8pm. See table above for more snow details. Wind gusts of 30-40 mph are likely this evening, with a slight chance of a peak gust to 40-45 mph between 5-10pm today. Sunday, dry and hazard-free. Wind gusts of 25-35 mph possible during the day.

Confidence: Confidence in snowfall amounts Saturday is medium-high. Confidence in snowfall amounts reaching hazard levels Saturday is high. EEI-2/3/4 snow chance: 80%/60%/5%. Confidence is medium that EEI-2 gusts will occur on Saturday. Chance for EEI-2 gusts: 30%. Confidence is high that no hazards will occur Sunday.

CHARLESTOWN: A Nor'easter is expected to bring accumulating snow and gusty winds today and tonight. Rain is expected to change to snow between 7-10am today. Snow continues through Saturday afternoon/evening and eventually diminishing overnight. The axis of heaviest snowfall continues to shift across the northeast, leaving the exact location of the heaviest snowfall uncertain, subtle changes in the track of low pressure will have a large impact on the heaviest snow totals. Timing of heaviest snow: 12-6pm. See table above for more snow details. Wind gusts of 35-45 mph possible late in the afternoon and evening today. Sunday, dry and hazard-free. Wind gusts of 25-35 mph possible during the day.

Confidence: Confidence in snowfall amounts Saturday is medium-low. Confidence in snowfall amounts reaching hazard levels Saturday is medium-high. EEI-2 snow chance: 10%. Confidence is high that wind gusts Saturday will not exceed hazard levels. Confidence is high that no hazards will occur Sunday.

LEBANON: A Nor'easter is expected to bring accumulating snow and gusty winds today and tonight. Rain is expected to change to snow between 7-10am Saturday. Snow continues through Saturday afternoon and eventually diminishing Saturday evening. The axis of heaviest snowfall continues to shift across the northeast, leaving the exact location of the heaviest snowfall uncertain, subtle changes in the track of low pressure will have a large impact on the heaviest snow totals. Timing of heaviest snow: 12-6pm. See table above for more snow details. Wind gusts of 30-40 mph possible late in the afternoon and overnight. Sunday, dry and hazard-free. Wind gusts of 25-35 mph possible during the day.

Confidence: Confidence in snowfall amounts Saturday is medium-low. Confidence in snowfall amounts reaching hazard levels Saturday is medium-high. Confidence is high that wind gusts Saturday will not exceed hazard levels. Confidence is high that no hazards will occur Sunday.

ALGONQUIN POWER SERVICE AREA 3-5 DAY OUTLOOK: Dry and hazard-free conditions will be in place Monday. The potential for a coastal system will have to be monitored on Tuesday. Right now, current indications have a track well offshore but conditions have become more favorable over the last 24 hours.

Confidence: Confidence is high that no hazards will occur Monday and Wednesday. Confidence is medium that no hazards occur Tuesday.

DAYS 6-10 OUTLOOK FOR SERVICE AREA: Limited weather concerns through the end of the week. Next potential organized system possible in the December 12-14th timeframe.

DATE: Friday, December 04, 2020

| | <u>Lebanon</u> | <u>Salem</u> | <u>Charlestown</u> | <u>Comments</u> | |
|--|--|--|--|---|--|
| Weather Forecast | We are expecting a Nor'easter beginning Saturday morning 7am through Saturday evening. Snow totals 2" to 4" with wind gusts 25 to 35 mph | We are expecting a Nor'easter beginning Saturday morning 10am through Saturday evening. Snow totals 6" to 10" with wind gusts 25 to 35 mph | We are expecting a Nor'easter beginning 7am Saturday morning through Saturday evening. Snow totals 2" to 6" with wind gusts 25 to 35 mph | This will start out as rain turning to snow early Saturday morning for all areas. | |
| Anticipated EERP Event Level | Level 4 | Level 4 | Level 4 | | |
| Resources | | | | Totals | 3customer service reps from 3pm to 11pm. We will have the North Crews on pager standby for the weekend We will have 5 wires down/damage assessors day shift and 5 nights shift from gas ops. |
| Internal Crews | Crews will be on pager standby for the weekend | 3 crews | Crews will be on pager standby for the weekend | 3 | |
| Contractor Crews | | 10 crews | | 10 | |
| Total Line Crews available | | 13 crews | | 13 | |
| Tree Crews | Pager standby | 10 | Pager standby | 10 | |
| Wires Down | 2 | 10 | | | |
| Other Support | Customer service | Customer service | Customer service | | |
| EOC/Storm Room Status | N/A | N/A | N/A | | |
| Municipal Room Status | N/A | N/A | N/A | | |
| Customer Outage Count | N/A | N/A | N/A | Total | |
| Estimated Date/Time for Total Restoration | Click here to enter a date. Choose an item. | Click here to enter a date. Choose an item. | Click here to enter a date. Choose an item. | | |
| Planned Storm Conference Calls | No call set up at this time | | | | |
| Notifications with Regulators. NHPUC/NH OEM | Not at this time | | | | |

| EII Event Index & Storm Accounting | Description | GP Expense Job | GP VM Job | |
|---|---------------------------|----------------|-----------|--|
| | EEL – 4 Winter Nor'easter | STORM-EXP-2015 | VGMT-2015 | |

Heather Tebbetts

From: DTN <EnergyEventIndex@dtn.com>
Sent: Wednesday, December 16, 2020 6:57 AM
To: DL NH Londonderry Emergency Dispatch
Subject: Energy Event Index: Threat Level 3



Energy Event Index for ALGONQUIN POWER & UTILITIES CORP

Your forecast administrator: kathleen.kelley@libertyutilities.com

Valid Time: December 16, 2020 7:00 AM EST

Forecaster: cassie.happel

| Parameter | Region | Day 1 | Day 2 | Day 3 | Day 4 | Day 5 | Day 6 | Day 7 | Day 8 | Day 9 | Day 10 |
|------------------|--------------------------------|--------|--------|-------|-------|--------|--------|-------|-------|-------|--------|
| Wind Speed | Montauk NY | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Northern Lebanon Hanover NH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Northwest Monroe Bath NH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Southern Salem Derry NH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Western Alstead Charlestown NH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Wind/Gust | Montauk NY | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Northern Lebanon Hanover NH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Northwest Monroe Bath NH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Southern Salem Derry NH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Western Alstead Charlestown NH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Snow | Montauk NY | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Northern Lebanon Hanover NH | 3 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Northwest Monroe Bath NH | 3 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Southern Salem Derry NH | 3 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Western Alstead Charlestown NH | 3 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Ice | Montauk NY | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Northern Lebanon Hanover NH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Northwest Monroe Bath NH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Southern Salem Derry NH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Western Alstead Charlestown NH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Confidence Level | Montauk NY | Medium | Medium | High | High | Medium | Medium | High | High | High | High |
| | Northern Lebanon Hanover NH | Medium | Medium | High | High | Medium | Medium | High | High | High | High |
| | Northwest Monroe Bath NH | High | High | High | High | Medium | Medium | High | High | High | High |
| | Southern Salem Derry NH | High | High | High | High | Medium | Medium | High | High | High | High |
| | Western Alstead Charlestown NH | High | High | High | High | Medium | Medium | High | High | High | High |

Energy Event Index Definition

No Leaves (Nov 1 - Mar 31)

| EEI | Wind Speed | Wind/Gust | Snow | Ice |
|-----|------------|-----------|-----------|-------------|
| 1 | < 40 mph | < 45 mph | < 6 in. | < 1/10 in. |
| 2 | >= 40 mph | >= 45 mph | >= 6 in. | >= 1/10 in. |
| 3 | >= 50 mph | >= 55 mph | >= 8 in. | >= 3/8 in. |
| 4 | >= 60 mph | >= 70 mph | >= 12 in. | >= 1/2 in. |
| 5 | >= 70 mph | >= 85 mph | >= 24 in. | >= 1 in. |

| Confidence Level | |
|------------------|---|
| Low | <30% chance the most likely index level remains at that level through the event |
| Medium | 30-60% chance the most likely index level remains at that level through the event |
| High | >=60% chance the most likely index level remains at that level through the event |

*Note: Confidence is NOT a measure of probability of an event occurring; if you have an accompanying forecast discussion, that information can be found there. Confidence is a measure of how likely the forecasted index level will stay at that level from now through the event, or a way to measure the potential for variability in the forecast. So for example, if it is Monday and there are level 2 gusts forecasted on Wednesday with high confidence, and if your customizable threshold for high confidence is set at 60%, it means the following: There is a >=60% chance the most likely forecasted gusts will remain at level 2 with all updates from now through Wednesday.

Forecast for Algonquin Power From DTN
For Phone Consulting: 1-800-361-4972
Issued Date: 12/16 0700
Forecaster: Cassie Happel

| Zones (Forecast for next 30 hrs) | SALEM | CHARLESTOWN | LEBANON |
|----------------------------------|----------|-------------|----------|
| Event | SNOW | SNOW | SNOW |
| Event Begin Time | 11pm Wed | 11pm Wed | 12am Thu |
| Event End Time | 3pm Thu | 2pm Thu | 2pm Thu |
| Event Confidence | Medium | Medium | Medium |
| Thunderstorm Wind Gusts | | | |
| Lightning Intensity | | | |
| Storm Direction | | | |
| Rain Amount | | | |
| Snow Amount | 9-13" | 10-14" | 8-12" |
| Snow Ratio | 15:1 | 15:1 | 15:1 |
| Max Sustained Winds | | | |
| Wind Gust | | | |
| Temp. Extremes | 27/13 | 27/10 | 26/8 |

LIBERTY UTILITIES SERVICE AREA 48 HOUR OUTLOOK:

SALEM: Wednesday, dry conditions expected during the afternoon then moderate to heavy snow moves in during the late evening. See table above for likely snow amounts and timing. Worst case scenario snowfall amounts Wednesday night/Thursday of 13-17" possible. Winds may gust 35-40 mph Wednesday night through Thursday afternoon. Snow and breezy winds come to an end Thursday afternoon. Dry conditions Thursday night.

Confidence: Confidence is high that no hazards will occur through the day Wednesday. Confidence is high that EEI-2/3 snow will occur Wednesday night into Thursday. Confidence is medium in EEI-4 snow occurring. Chance of EEI-2/3/4 snowfall: 100%/70%/40%.

CHARLESTOWN: Wednesday, dry conditions expected during the afternoon then moderate to heavy snow moves in during the late evening. See table above for likely snow amounts and timing. Worst case scenario snowfall amounts Wednesday night/Thursday of 15-19" possible. Winds may gust 35-40 mph Wednesday night through Thursday afternoon. Snow and breezy winds come to an end Thursday afternoon. Dry conditions Thursday night.

Confidence: Confidence is high that no hazards will occur through the day Wednesday. Confidence is high that EEI-2/3 snow will occur Wednesday night into Thursday. Confidence is medium in EEI-4 snow occurring. Chance of EEI-2/3/4 snowfall: 100%/60%/40%.

LEBANON: Wednesday, dry conditions expected during the afternoon then moderate to heavy snow moves in during the late evening. See table above for likely snow amounts and timing. Worst case scenario snowfall amounts Wednesday night/Thursday of 12-15" possible. Winds may gust 35-40 mph Wednesday night through Thursday afternoon. Snow and breezy winds come to an end Thursday afternoon. Dry conditions Thursday night.

Confidence: Confidence is high that no hazards will occur through the day Wednesday. Confidence is high that EEI-2/3 snow will occur Wednesday night into Thursday. Confidence is medium in EEI-4 snow occurring. Chance of EEI-2/3/4 snowfall: 100%/50%/10%.

ALGONQUIN POWER SERVICE AREA 3-5 DAY OUTLOOK: Friday and Saturday, dry and hazard-free. Sunday, isolated to scattered light snow showers. Snowfall: less than 1".

Confidence: Confidence is high that no hazards will occur Friday through Sunday.

DAYS 6-10 OUTLOOK FOR SERVICE AREA: Light snow showers will be possible Monday and Tuesday. Another disturbance may develop at the end of the week that could bring another chance for accumulating snow and breezy winds but models differ in the location and timing so confidence is lower.

Go to [WeatherSentry® Online](#) for a complete view of the forecast and other business critical weather information.

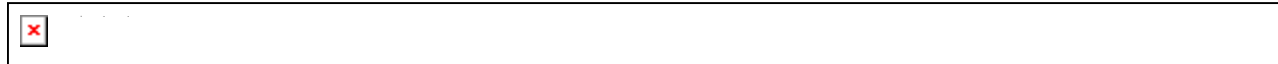
DATE: Wednesday, December 16, 2020

| | <u>Lebanon</u> | <u>Salem</u> | <u>Charlestown</u> | <u>Comments</u> |
|--|--|---|--|---|
| Weather Forecast | Moderate to Heavy snow will move in late this evening close to midnight and continue thru Thurs. afternoon. It is expected to be a dry snow – 12 to 15” is possible. Wind gusts 35-40 mph. | Moderate to Heavy snow will move in late this evening close to midnight and continue thru Thurs. afternoon. It is expected to be a dry snow – 13 to 1” is possible. Wind gusts 35-40 mph. | Moderate to Heavy snow will move in late this evening close to midnight and continue thru Thurs. afternoon. It is expected to be a dry snow – 15 to 19” is possible. Wind gusts 35-40 mph. | The snow ratio is 15:1 which makes for a dry fluffy snow. |
| Anticipated EERP Event Level | Level 3 | Level 3 | Level 3 | |
| Resources | | | | Totals |
| Internal Crews | 7 | 4 | See Lebanon | 11 |
| Contractor Crews | 3 | 4 | | 7 |
| Total Line Crews available | 10 | 8 | | 18 |
| Tree Crews | 4 | 4 | | 8 |
| Wires Down | On standby | On standby | On standby | |
| Other Support | Customer service | Customer service | Customer service | |
| EOC/Storm Room Status | | Open at 6:00 AM | N/A | The Salem Storm room will be open at 6:00 am tomorrow 12/17 |
| Municipal Room Status | N/A | N/A | N/A | |
| Customer Outage Count | N/A | N/A | N/A | Total |
| Estimated Date/Time for Total Restoration | Click here to enter a date. Choose an item. | Click here to enter a date. Choose an item. | Click here to enter a date. Choose an item. | |
| Planned Storm Conference Calls | No call set up at this time | | | |
| Notifications with Regulators. NHPUC/NH OEM | Not at this time | | | |

| EII Event Index & Storm Accounting | Description | GP Expense Job | GP VM Job | |
|---|---------------------------|----------------|-----------|--|
| | EEL – 3 Winter Storm Gail | STORM-EXP-2016 | VGMT-2016 | |

Heather Tebbetts

From: DTN <EnergyEventIndex@dtn.com>
Sent: Thursday, December 24, 2020 12:57 PM
To: DL NH Londonderry Emergency Dispatch
Subject: Energy Event Index: Threat Level 3



Energy Event Index for ALGONQUIN POWER & UTILITIES CORP

Your forecast administrator: kathleen.kelley@libertyutilities.com

Valid Time: December 24, 2020 1:00 PM EST

Forecaster: cody.fishman

| Parameter | Region | Day 1 | Day 2 | Day 3 | Day 4 | Day 5 | Day 6 | Day 7 | Day 8 | Day 9 | Day 10 |
|------------------|--------------------------------|-------|-------|-------|-------|--------|--------|--------|-------|--------|--------|
| Wind Speed | Montauk NY | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Northern Lebanon Hanover NH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Northwest Monroe Bath NH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Southern Salem Derry NH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Western Alstead Charlestown NH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Wind/Gust | Montauk NY | 3 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Northern Lebanon Hanover NH | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Northwest Monroe Bath NH | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Southern Salem Derry NH | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Western Alstead Charlestown NH | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Snow | Montauk NY | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Northern Lebanon Hanover NH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Northwest Monroe Bath NH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Southern Salem Derry NH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Western Alstead Charlestown NH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Ice | Montauk NY | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Northern Lebanon Hanover NH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Northwest Monroe Bath NH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Southern Salem Derry NH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Western Alstead Charlestown NH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Confidence Level | Montauk NY | High | High | High | High | Medium | Medium | Medium | High | Medium | High |
| | Northern Lebanon Hanover NH | High | High | High | High | Medium | Medium | Medium | High | Medium | High |
| | Northwest Monroe Bath NH | High | High | High | High | Medium | Medium | Medium | High | Medium | High |
| | Southern Salem Derry NH | High | High | High | High | Medium | Medium | Medium | High | Medium | High |
| | Western Alstead Charlestown NH | High | High | High | High | Medium | Medium | Medium | High | Medium | High |

Energy Event Index Definition

No Leaves (Nov 1 - Mar 31)

| EEL | Wind Speed | Wind/Gust | Snow | Ice |
|-----|------------|-----------|-----------|-------------|
| 1 | < 40 mph | < 45 mph | < 6 in. | < 1/10 in. |
| 2 | >= 40 mph | >= 45 mph | >= 6 in. | >= 1/10 in. |
| 3 | >= 50 mph | >= 55 mph | >= 8 in. | >= 3/8 in. |
| 4 | >= 60 mph | >= 70 mph | >= 12 in. | >= 1/2 in. |
| 5 | >= 70 mph | >= 85 mph | >= 24 in. | >= 1 in. |

| Confidence Level | |
|------------------|---|
| Low | <30% chance the most likely index level remains at that level through the event |
| Medium | 30-60% chance the most likely index level remains at that level through the event |
| High | >=60% chance the most likely index level remains at that level through the event |

*Note: Confidence is NOT a measure of probability of an event occurring; if you have an accompanying forecast discussion, that information can be found there. Confidence is a measure of how likely the forecasted index level will stay at that level from now through the event, or a way to measure the potential for variability in the forecast. So for example, if it is Monday and there are level 2 gusts forecasted on Wednesday with high confidence, and if your customizable threshold for high confidence is set at 60%, it means the following: There is a >=60% chance the most likely forecasted gusts will remain at level 2 with all updates from now through Wednesday.

Forecast for Algonquin Power From DTN

For Phone Consulting: 1-800-361-4972

Issued Date: 12/24 1300

Forecaster: Cody Fishman

| Zones (Forecast for next 30 hrs) | SALEM | CHARLESTOWN | LEBANON |
|----------------------------------|------------|-------------|------------|
| Event | GUSTS/RAIN | GUSTS/RAIN | GUSTS/RAIN |
| Event Begin Time | 11pm Thu | 9pm Thu | 9pm Thu |

| | | | |
|-------------------------|------------|------------|------------|
| Event End Time | 12pm Fri | 10am Fri | 10am Fri |
| Event Confidence | High | High | High |
| Thunderstorm Wind Gusts | 50-60 mph | 50-60 mph | 50-60 mph |
| Lightning Intensity | Low | Low | Low |
| Storm Direction | N-NNE | N-NNE | N-NNE |
| Rain Amount | 1.00-2.50" | 1.00-2.50" | 1.00-2.50" |
| Snow Amount | | | |
| Snow Ratio | | | |
| Max Sustained Winds | 12-25 mph | 12-25 mph | 12-25 mph |
| Wind Gust | 35-45 mph | 30-40 mph | 30-40 mph |
| Temp. Extremes | 57/29 | 55/24 | 55/29 |

LIBERTY UTILITIES SERVICE AREA 48 HOUR OUTLOOK:

SALEM: Heavy rain and strong winds move into the area this evening and continue overnight. See table above for details. A short period will exist tonight/Friday morning when max gusts could reach 50-60 mph within heavier rain showers/thunderstorms, generally between 3-9am Fri. Friday, heavy rain and winds come to an end in the late morning. Total rainfall: 1.00-2.50".

Confidence: Confidence is high EEI-2 gusts will occur tonight/Friday morning. Confidence is medium EEI-3 gusts will occur tonight/Friday morning. Chance EEI-2 gust: 70%. EEI-3 gust chance: 50%. Confidence is medium hazard rainfall will occur tonight/Friday morning. Chance rain >1": 70%.

CHARLESTOWN: Heavy rain and strong winds move into the area this evening and continue overnight. See table above for details. A short period will exist tonight/Friday morning when max gusts could reach 50-60 mph within heavier rain showers/thunderstorms, generally between 3-9am Fri. Friday, heavy rain and winds come to an end in the late morning. An isolated light snow shower is possible in the evening but little to no accumulation is expected. Total rainfall: 1.00-2.50".

Confidence: Confidence is high EEI-2 gusts will occur tonight/Friday morning. Confidence is medium EEI-3 gusts will occur tonight/Friday morning. Chance EEI-2 gust: 70%. EEI-3 gust chance: 40%. Confidence is medium hazard rainfall will occur tonight/Friday morning. Chance rain >1": 70%.

LEBANON: Heavy rain and strong winds move into the area this evening and continue overnight. See table above for details. A short period will exist tonight/Friday morning when max gusts could reach 50-60 mph within heavier rain showers/thunderstorms, generally between 3-9am Fri. Friday, heavy rain and winds come to an end in the late morning. An isolated light snow shower is possible in the evening but little to no accumulation is expected. Total rainfall: 1.00-2.50".

Confidence: Confidence is high EEI-2 gusts will occur tonight/Friday morning. Confidence is medium EEI-3 gusts will occur tonight/Friday morning. Chance EEI-2 gust: 70%. EEI-3 gust chance: 40%. Confidence is medium hazard rainfall will occur tonight/Friday morning. Chance rain >1": 70%.

ALGONQUIN POWER SERVICE AREA 3-5 DAY OUTLOOK: Saturday and Sunday, dry and hazard-free. On Monday, mostly dry during the day. Scattered rain/snow showers may develop in the evening/overnight. Rainfall: up to 0.10". Little to no snow accumulation expected.

Confidence: Confidence is high no hazards will occur Saturday through Monday.

DAYS 6-10 OUTLOOK FOR SERVICE AREA: A weak system will continue to move through for Tuesday. The next possible system looks to occur late next week. Main impacts being breezy winds and heavy rain.

Go to [WeatherSentry® Online](#) for a complete view of the forecast and other business critical weather information.

Please do not respond to this email.

DATE: Wednesday, December 23, 2020

| | <u>Lebanon</u> | <u>Salem</u> | <u>Charlestown</u> | <u>Comments</u> | |
|--|--|--|--|---|--|
| Weather Forecast | Heavy Rain and wind move in Thursday evening through Friday afternoon. Peak wind gusts between 3-9am Friday reaching upwards of 45-60 MPH. | Heavy Rain and wind move in Thursday evening through Friday afternoon. Peak wind gusts between 3-9am Friday reaching upwards of 50-60 MPH. | Heavy Rain and wind move in Thursday evening through Friday afternoon. Peak wind gusts between 3-9am Friday reaching upwards of 45-60 MPH. | Wind gust will range from 30-40 mph throughout the event with peak gusts between 45-60 mph. Wind and rain will diminish early Friday afternoon. | |
| Anticipated EERP Event Level | Level 3 | Level 3 | Level 3 | | |
| Resources | | | | Totals | We will have other support on stand-by including customer service if needed. Contractor crews can be moved up North if needed. |
| Internal Crews | 2 | 3 | 1 | 6 | |
| Contractor Crews | | 6 | | 6 | |
| Total Line Crews available | 2 | 9 | 1 | 12 | |
| Tree Crews | 2 | 4 | 2 | 8 | |
| Wires Down | | | | | |
| Other Support | | | | | |
| EOC/Storm Room Status | | | | | |
| Municipal Room Status | N/A | N/A | N/A | | |
| Customer Outage Count | N/A | N/A | N/A | Total | |
| Estimated Date/Time for Total Restoration | Click here to enter a date. Choose an item. | Click here to enter a date. Choose an item. | Click here to enter a date. Choose an item. | | |
| Planned Storm Conference Calls | First call 12/23 – 10:00 AM | | | | |
| Notifications with Regulators. NHPUC/NH OEM | Not at this time | | | | |

| EII Event Index & Storm Accounting | Description | GP Expense Job | GP VM Job | |
|---|---------------------------------|----------------|-----------|--|
| | EEL – 3 Christmas Wind Storm | STORM-EXP-2017 | VGMT-2017 | |