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Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty
Annual Storm Fund Accounting
For the Year Ended December 31, 2021

Line	(a)	(b)	Collections			2021 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)	
			Beginning Balance (c)	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	2021	\$ (1,861,472.73)	\$ (125,000.00)	\$ -	\$ (125,000.00)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (1,986,472.73)	\$ (1,923,972.73)	3.25%	\$ (5,210.76)	\$ (1,991,683.49)
2	February	2021	(1,991,683.49)	(125,000.00)	-	(125,000.00)	94,654.54	50,184.29	-	-	6,022.50	150,861.33	(1,965,822.16)	(1,978,752.82)	3.25%	(5,359.12)	(1,971,181.28)	
3	March	2021	(1,971,181.28)	(125,000.00)	-	(125,000.00)	1,203.02	6,621.91	-	-	5,799.46	(6,022.50)	7,601.89	(2,088,579.39)	(2,029,880.34)	3.25%	(5,497.59)	(2,094,076.98)
4	April	2021	(2,094,076.98)	(125,000.00)	-	(125,000.00)	-	-	-	-	-	-	(2,219,076.98)	(2,156,576.98)	3.25%	(5,840.73)	(2,224,917.71)	
5	May	2021	(2,224,917.71)	(125,000.00)	-	(125,000.00)	-	-	-	-	-	-	(2,349,917.71)	(2,287,417.71)	3.25%	(6,195.09)	(2,356,112.80)	
6	June	2021	(2,356,112.80)	(125,000.00)	-	(125,000.00)	35,814.55	-	-	-	-	35,814.55	(2,445,298.25)	(2,400,705.53)	3.25%	(6,501.91)	(2,451,800.16)	
7	July	2021	(2,451,800.16)	(125,000.00)	-	(125,000.00)	281,075.69	154,916.59	-	-	23,709.35	459,701.63	(2,117,098.53)	(2,284,449.35)	3.25%	(6,187.05)	(2,123,285.58)	
8	August	2021	(2,123,285.58)	(125,000.00)	-	(125,000.00)	878.27	32,772.43	-	6,053.35	(23,709.35)	15,994.70	(2,232,290.88)	(2,177,788.23)	3.25%	(5,898.18)	(2,238,189.06)	
9	September	2021	(2,238,189.06)	(125,000.00)	-	(125,000.00)	433.12	773.99	-	2,217.91	-	3,425.02	(2,359,764.04)	(2,298,976.55)	3.25%	(6,226.39)	(2,365,990.44)	
10	October	2021	(2,365,990.44)	(125,000.00)	-	(125,000.00)	-	31,027.11	-	-	-	31,027.11	(2,459,963.33)	(2,412,976.88)	3.25%	(6,535.15)	(2,466,498.47)	
11	November	2021	(2,466,498.47)	(125,000.00)	-	(125,000.00)	-	-	-	-	-	-	(2,591,498.47)	(2,528,998.47)	3.25%	(6,849.37)	(2,598,347.84)	
12	December	2021	(2,598,347.84)	(125,000.00)	-	(125,000.00)	-	-	-	-	-	-	(2,723,347.84)	(2,660,847.84)	3.25%	(7,206.46)	(2,730,554.31) (4)	
14	Totals			\$ (1,500,000.00)	\$ -	\$ (1,500,000.00)	\$ 414,059.19	\$ 276,296.32	\$ -	\$ 14,070.72	\$ -	\$ 704,426.23	\$ -				\$ (73,507.81)	\$ (2,730,554.31)

(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)

(2) Storm Recovery Adjustment Factor (per kWh) - applied to cancel/rebills and payments on bills for prior periods
\$0.00223 effective 1/1/13, \$0.00329 effective 1/1/14, \$0.00221 effective 11/1/14, \$0.00000 effective 11/1/15

(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

(4) See G/L accounts 8830-2-0000-10-1930-1825 and 8830-2-0000-20-2910-2541

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty
Monthly Accounting for Storm Events
For the Year Ended December 31, 2021

Line	Month	Winter Storm Orlena 2/1/2021	Severe Weather Event 6/30/2021	Thunderstorms 7/20/2021	Total Costs
(a)	(b)	(d)	(e)	(f)	(k)
1	January 2021	\$ -	\$ -	\$ -	\$ -
2	February	150,861.33	-	-	150,861.33
3	March	7,601.89	-	-	7,601.89
4	April	-	-	-	-
5	May	-	-	-	-
6	June	-	35,814.55	-	35,814.55
7	July	-	342,945.27	116,756.36	459,701.63
8	August	-	11,983.13	4,011.57	15,994.70
9	September	-	-	3,425.02	3,425.02
10	October	-	12,201.68	18,825.43	31,027.11
11	November	-	-	-	-
12	December	-	-	-	-
13					
14	Total 2021 Storms	\$ 158,463.22	\$ 402,944.63	\$ 143,018.38	\$ 704,426.23

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty
Annual Report of All Storm Fund Activity
For the Year Ended December 31, 2021

Line No.	Description	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Total Costs
1	Payroll charges including payroll overheads for GSE Employees	\$ -	\$ 94,654.54	\$ 1,203.02	\$ -	\$ -	\$ 35,814.55	\$ 281,075.69	\$ 878.27	\$ 433.12	\$ -	\$ -	\$ -	\$ 414,059.19
2														
3	Charges from outside companies	-	50,184.29	6,621.91	-	-	-	154,916.59	32,772.43	773.99	31,027.11	-	-	276,296.32
4														
5	Charges for Materials and Supplies	-	-	-	-	-	-	-	-	-	-	-	-	-
6														
7	Charges for employee expenses	-	-	5,799.46	-	-	-	-	6,053.35	2,217.91	-	-	-	14,070.72
8														
9	Accrual for outside companies	-	6,022.50	(6,022.50)	-	-	-	23,709.35	(23,709.35)	-	-	-	-	-
10														
11	Total	\$ -	\$ 150,861.33	\$ 7,601.89	\$ -	\$ -	\$ 35,814.55	\$ 459,701.63	\$ 15,994.70	\$ 3,425.02	\$ 31,027.11	\$ -	\$ -	\$ 704,426.23

**Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty
Total O&M Pre-Staging Costs - Wind Storm Orlena February 1, 2021
January 1, 2021 through December 31, 2021**

Line No.	Description	Feb-21	Mar-21	Total Pre-Staging Costs
1	Payroll charges including payroll overheads for GSE Employees	\$ 94,654.54	\$ 1,203.02	\$ 95,857.56
2				
3	Charges from outside companies	50,184.29	6,621.91	56,806.20
4				
5	Charges for Materials and Supplies	-	-	-
6				
7	Charges for employee expenses	-	5,799.46	5,799.46
8				
9	Accrual for outside companies	6,022.50	(6,022.50)	-
10				
11	Total	<u>\$ 150,861.33</u>	<u>\$ 7,601.89</u>	<u>\$ 158,463.22</u>

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty
Total O&M Qualifying Storm Costs - Severe Weather Event June 30, 2021
January 1, 2021 through December 31, 2021

Line No.	Description	Jun-21	Jul-21	Aug-21	Oct-21	Total Qualifying Costs
1	Payroll charges including payroll overheads for GSE Employees	\$ 35,814.55	\$ 185,541.36	\$ 229.93	\$ -	\$ 221,585.84
2						
3	Charges from outside companies	-	154,916.59	8,187.17	12,201.68	175,305.44
4						
5	Charges for Materials and Supplies	-	-	-	-	-
6						
7	Charges for employee expenses	-	-	6,053.35	-	6,053.35
8						
9	Accrual for outside companies	-	2,487.32	(2,487.32)	-	-
10						
11	Total	<u>\$ 35,814.55</u>	<u>\$ 342,945.27</u>	<u>\$ 11,983.13</u>	<u>\$ 12,201.68</u>	<u>\$ 402,944.63</u>

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty
Total O&M Pre-Staging Costs - Thunderstorms July 21, 2021
January 1, 2021 through December 31, 2021

Line No.	Description	Jul-21	Aug-21	Sep-21	Oct-21	Total Qualifying Costs
1	Payroll charges including payroll overheads for GSE Employees	\$ 95,534.33	\$ 648.34	\$ 433.12	\$ -	\$ 96,615.79
2						
3	Charges from outside companies	-	24,585.26	773.99	18,825.43	44,184.68
4						
5	Charges for Materials and Supplies	-	-	-	-	-
6						
7	Charges for employee expenses	-	-	2,217.91	-	2,217.91
8						
9	Accrual for outside companies	21,222.03	(21,222.03)	-	-	-
10						
11	Total	<u>\$ 116,756.36</u>	<u>\$ 4,011.57</u>	<u>\$ 3,425.02</u>	<u>\$ 18,825.43</u>	<u>\$ 143,018.38</u>

Heather Tebbetts

From: DTN <EnergyEventIndex@dtn.com>
Sent: Monday, February 1, 2021 6:56 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: February 1, 2021 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	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	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	2	2	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	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	3	3	1	1	1	1	1	1	1	1
	Western Alstead Charlestown NH	2	2	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	High	High	Low	Low	High	High
	Northern Lebanon Hanover NH	High	High	High	High	High	High	Low	Low	High	High
	Northwest Monroe Bath NH	High	High	High	High	High	High	Low	Low	High	High
	Southern Salem Derry NH	High	High	High	High	High	High	Low	Low	High	High
	Western Alstead Charlestown NH	High	High	High	High	High	High	Low	Low	High	High

Energy Event Index Definition

No Leaves (Nov 1 - Mar 31)

EI	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: 02/01 0700
Forecaster: Cody Fishman

Zones (Forecast for next 30 hrs)	SALEM	CHARLESTOWN	LEBANON
Event	SNOW	SNOW	SNOW
Event Begin Time	11AM MON	5PM MON	5PM MON
Event End Time	12AM WED	2AM WED	2AM WED
Event Confidence	HIGH	HIGH	HIGH
Thunderstorm Wind Gusts			
Lightning Intensity			
Storm Direction			
Rain Amount			
Snow Amount	8-12"	4-10"	4-10"
Snow Ratio	8-10:1 (NRML-WET)	10-12:1 (NRML)	10-14:1 (NRML-DRY)
Ice Amount			
Max Sustained Winds	15-22 MPH		
Wind Gusts	35-45 MPH		
Temp. Extremes	34/16	29/12	30/7

LIBERTY UTILITIES SERVICE AREA 48 HOUR OUTLOOK:

SALEM: Snow showers build through the area this morning and continue through tonight. See table for event details. Timing of heaviest snow showers: 9pm Mon-7am Tue. Winds increase this afternoon through tonight out of the northeast, peaking from 11pm Mon-10am Tue with sustained winds to 12-22 mph, common gusts to 25-35 mph, and isolated peak gusts to 35-45 mph. Accumulating snow showers continue into Tuesday morning. Light snow showers/flurries may continue as late as Tuesday night. See table/discussions above for event details.

Confidence: Confidence is high in EEI-2 snowfall, medium in EEI-3 snowfall, and low in EEI-4 snowfall occurring. EEI-2/3/4 snow chance: 80%/50%/5%. Confidence is medium in wind gusts reaching EEI-2 levels. EEI-2 gust chance: 40%.

CHARLESTOWN: Snow showers build through the area this morning and continue through tonight. See table for event details. See table for event details. Winds increase this afternoon through tonight out of the northeast, peaking from 12am Mon-1pm Tue with sustained winds to 10-20 mph, common gusts to 20-30 mph, and isolated peak gusts to 30-35 mph. Accumulating snow showers continue into Tuesday afternoon across Lebanon/Charlestown. Light snow showers/flurries may continue as late as Tuesday night. See table/discussions above for event details.

Confidence: Confidence is high in EEI-2 snowfall occurring and high that snowfall remains below EEI-3 levels. EEI-2/3 snow chance: 60%/30%. Confidence is high that wind gusts stay below EEI-2 levels.

LEBANON: Snow showers build through the area this morning and continue through tonight. See table for event details. See table for event details. Winds increase this afternoon through tonight out of the northeast, peaking from 12am Mon-1pm Tue with sustained winds to 10-20 mph, common gusts to 20-30 mph, and isolated peak gusts to 30-35 mph. Accumulating snow showers continue into Tuesday afternoon across Lebanon/Charlestown. Light snow showers/flurries may continue as late as Tuesday night. See table/discussions above for event details.

Confidence: Confidence is high in EEI-2 snowfall occurring and high that snowfall remains below EEI-3 levels. EEI-2/3 snow chance: 60%/30%. Confidence is high that wind gusts stay below EEI-2 levels.

ALGONQUIN POWER SERVICE AREA 3-5 DAY OUTLOOK: Although a few light, intermittent flurries can't be ruled out during the day Wednesday, many areas will experience more dry periods than wet. Snowfall Wednesday: Less than 1", if any. Northwest winds stay breezy Wednesday but will stay well below hazard levels, with peak gusts to 20-30 mph possible from mid-morning to the early evening. Dry and hazard-free conditions expected Thursday. A cold front brings increased rain chances, potentially some isolated mixed precipitation, and gusty winds next Friday. Confidence in timing and impacts Friday remains considerably low at this time, but threats are expected to remain below hazard levels. Snowfall Friday: 1-3" Lebanon, less than 1" (if any) elsewhere.

Confidence: Confidence is high no hazards occur Wednesday through Friday night.

DAYS 6-10 OUTLOOK FOR SERVICE AREA: Saturday currently looks dry and hazard-free. Another strong coastal storm system potentially moves into the area Sunday afternoon, bringing threats of hazard-level snow and gusts to much of the region into Monday afternoon. Dry, breezy conditions are expected in the wake of this system next Tuesday and Wednesday.

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

Please do not respond to this email.

Heather Tebbetts

From: DTN <EnergyEventIndex@dtn.com>
Sent: Wednesday, June 30, 2021 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: June 30, 2021 1:00 PM EDT

Forecaster: gregory.louis

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	3	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	3	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 11 - 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: 06/30 1300

Forecaster: G Louis

Zones (Forecast for next 30 hrs)	SALEM	CHARLESTOWN	LEBANON
Event	T-STORMS	T-STORMS	T-STORMS
Event Begin Time	6pm Wed	4pm Wed	2pm Wed
Event End Time	10pm Wed	9pm Wed	8pm Wed
Event Confidence	High	High	High

Thunderstorm Wind Gusts	50-65 mph	45-60 mph	45-60 mph
Lightning Intensity	Low-medium	Low-medium	Low-medium
Storm Direction	E-SE	E-SE	E-SE
Rain Amount			
Max Sustained Winds			
Wind Gusts			
Temp. Extremes	92/72	92/67	89/68

LIBERTY UTILITIES SERVICE AREA 48 HOUR OUTLOOK:

SALEM: Strong to severe thunderstorms expected this afternoon/evening, best chances from 6-8pm. See table above for details. Isolated tornadoes may occur in storms, but the chance is under 5%. Rainfall: 0.50-1.00". Rain and isolated thunderstorms possible from about 3pm Thu-3am Fri. Lightning amount: Low. T-storm gusts: 25-35 mph. Rainfall: 0.25-1.00" with localized amounts to 1.50" possible.

Confidence: Confidence is high that thunderstorms will occur this afternoon and evening, 80% chance of storms. High confidence that at least EEI-2 gusts occur in storms. Chances for EEI-2/3/4 gusts: 80%/60%/20%. For Thursday afternoon/night, confidence is high that any thunderstorms should be isolated. T-storm chance: 20%. High confidence that hazard gusts and rainfall do not occur with storms Thu afternoon/night, but there is a 10% chance of EEI-2 gusts and a 20% chance for rain amounts to exceed 1.00".

CHARLESTOWN: Strong to severe thunderstorms expected this afternoon/evening, best chances from 4-7pm. See table above for details. Isolated tornadoes may occur in storms, but the chance is under 5%. Rainfall: 0.50-1.00". Rain and isolated thunderstorms possible from about 3pm Thu-3am Fri. Lightning amount: Low. T-storm gusts: 25-35 mph. Rainfall: 0.25-0.75" with localized amounts to 1.00" possible.

Confidence: Confidence is high that thunderstorms will occur this afternoon and evening, 70% chance of storms. High confidence that at least EEI-2 gusts occur in storms. Chances for EEI-2/3/4 gusts: 70%/50%/10%. For Thursday afternoon/night, confidence is high that any thunderstorms should be isolated. T-storm chance: 20%. High confidence that hazard gusts do not occur with storms Thu afternoon/night, but there is a 10% chance of EEI-2 gusts.

LEBANON: Strong to severe thunderstorms expected this afternoon/evening, best chances from 3-7pm. See table above for details. Isolated tornadoes may occur in storms, but the chance is under 5%. Rainfall: 0.50-1.00". Rain and isolated thunderstorms possible from about 3pm Thu-3am Fri. Lightning amount: Low. T-storm gusts: 25-35 mph. Rainfall: 0.25-0.75" with localized amounts to 1.00" possible.

Confidence: Confidence is high that thunderstorms will occur this afternoon and evening, 70% chance of storms. High confidence that at least EEI-2 gusts occur in storms. Chances for EEI-2/3/4 gusts: 70%/50%/10%. For Thursday afternoon/night, confidence is high that any thunderstorms should be isolated. T-storm chance: 20%. High confidence that hazard gusts do not occur with storms Thu afternoon/night, but there is a 10% chance of EEI-2 gusts.

LIBERTY UTILITIES SERVICE AREA 3-5 DAY OUTLOOK: Scattered showers possible on Friday and Saturday across the territory. Rainfall Fri: Up to 0.25". Rainfall Sat: Up to 0.10". Widely isolated showers possible on Sunday with rainfall of 0.10" or less.

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

DAYS 6-10 EXTENDED OUTLOOK: A few rounds of scattered thunderstorms possible from next Tue through the end of next week. Nothing too organized expected for now.

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

Please do not respond to this email.

Heather Tebbetts

From: DTN <EnergyEventIndex@dtn.com>
Sent: Tuesday, July 20, 2021 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: July 20, 2021 1:00 PM EDT

Forecaster: gregory.louis

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	1	3	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	1	1	1	1	1	1	1	1	1	1
	Southern Salem Derry NH	1	3	2	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	High	High	High	High	High	Medium	Medium	Medium	Medium	Medium
	Northern Lebanon Hanover NH	Medium	Medium	High	High	High	Medium	Medium	Medium	Medium	Medium
	Northwest Monroe Bath NH	Medium	Medium	High	High	High	Medium	Medium	Medium	Medium	Medium
	Southern Salem Derry NH	Medium	High	High	High	High	Medium	Medium	Medium	Medium	Medium
	Western Alstead Charlestown NH	Medium	Medium	High	High	High	Medium	Medium	Medium	Medium	Medium

Energy Event Index

Definition

With Leaves (Apr 11 - 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: 07/20 1300

Forecaster: G Louis

Zones (Forecast for next 30 hrs)	SALEM	CHARLESTOWN	LEBANON
Event	T-STORM	T-STORM	T-STORM
Event Begin Time	9PM TUE	7PM TUE	7PM TUE
Event End Time	2AM WED	12AM WED	12AM WED
Event Confidence	Medium	Medium	Medium

Thunderstorm Wind Gusts	25-35 mph	30-45 mph	30-45 mph
Lightning Intensity	Low	Low-Medium	Low-Medium
Storm Direction	ENE	ENE	ENE
Rain Amount			
Max Sustained Winds			
Wind Gusts			
Temp. Extremes	85/69	84/63	82/65

LIBERTY UTILITIES SERVICE AREA 48 HOUR OUTLOOK:

SALEM: Isolated thunderstorms possible this evening, see table above. Rainfall: Up to 0.15". Tomorrow, thunderstorms are likely in the afternoon/evening and some will be strong to severe, see table below for details. Rainfall: 0.25-0.50" with locally higher amounts possible.

Confidence: Confidence is medium that storms occur this evening, 30% chance of storms. High confidence that hazards do not occur in any storms with just a 20% chance of EEI-2 gusts. Tomorrow, confidence is high that thunderstorms occur in the afternoon/evening, 70% chance of storms. High confidence that at least EEI-2 gusts occur in storms tomorrow. Chance of EEI-2/EEI-3 gusts: 70%/50%.

CHARLESTOWN: Scattered thunderstorms will occur this evening. A few strong storms are possible. See table above for details. Rainfall: Up to 0.25". Tomorrow, scattered thunderstorms will develop in the afternoon with another chance of strong storms, see table below for details. Rainfall: 0.25-0.50".

Confidence: Medium confidence that thunderstorms occur this evening, 50% chance of storms. Medium confidence that hazard gusts occur in storms with a 50% chance for EEI-2 gusts. Tomorrow, confidence is high that storms develop, 60% chance of storms. Medium confidence that at least EEI-2 gusts occur in storms tomorrow. Chance for EEI-2/EEI-3 gusts: 50%/20%.

LEBANON: Scattered thunderstorms will occur this evening. A few strong storms are possible. See table above for details. Rainfall: Up to 0.25". Tomorrow, scattered thunderstorms will develop in the afternoon with another chance of strong storms, see table below for details. Rainfall: 0.25-0.50".

Confidence: Medium confidence that thunderstorms occur this evening, 50% chance of storms. Medium confidence that hazard gusts occur in storms with a 50% chance for EEI-2 gusts. Tomorrow, confidence is medium that storms develop, 30% chance of storms. Medium confidence that hazard gusts occur in storms tomorrow, 30% chance of EEI-2 gusts.

Thunderstorms Wednesday:

Zones	SALEM	CHARLESTOWN	LEBANON
Event Begin Time	4PM WED	3PM WED	3PM WED
Event End Time	12AM THU	8PM WED	8PM WED
Event Confidence	High	Medium	Medium
Thunderstorm Wind Gusts	45-60 mph	40-50 mph	30-45 mph
Lightning Intensity	Low-Medium	Low-Medium	Low-Medium
Storm Direction	ENE	ENE	ENE

LIBERTY UTILITIES SERVICE AREA 3-5 DAY OUTLOOK: Thursday will be mainly dry and hazard-free, although a few light showers are possible during the day. Rainfall: Less than 0.10". On Friday, isolated showers and thunderstorms could develop between 1pm-10pm. Lightning: Low. T-storm gusts: 30-40 mph. Saturday will be dry and hazard-free.

Confidence: Confidence is high that no hazards will occur on Thursday. Confidence high that no storms and no hazards occur on Friday, with thunderstorm chances at 20% and EEI-2 gust chances at 10%. High confidence that no hazards occur on Saturday.

DAYS 6-10 EXTENDED OUTLOOK: There is the potential for some organized thunderstorms on Sunday, although confidence is low as this activity may stay south or west of the area. Additional rounds of thunderstorms could occur next week.

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

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