EVERSOURCE

Non-Wires Solutions Program

Annual Filing

February 6, 2026

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1. Background

In accordance with Docket No. 24-08-08: NWS Initiation Phase Final Decision ("NWS Final Decision") issued on December 18, 2024, this annual filing shall meet the requirements for The Connecticut Light and Power Company d/b/a Eversource Energy (hereinafter "Eversource" or "the Company") Electric Distribution Company ("EDC") Data Filing, Grid Needs Filing and Narrative Documents, and Quarterly Filing[1]. Moving forward Eversource will incorporate its first quarterly filing of each year as part of the NWS Annual Filing. Subsequent quarterly filings will be made separately.

The EDC Data Filing is made up of data requests pertaining to system data, financial information, and Distributed Energy Resource ("DER") deployment. This information will be provided within the context of this filing while other larger and confidential data will be provided in the Appendices of this filing. Please note that some of the data request responses are confidential and protected via the NWS Final Decision.[2] Responses deemed confidential in accordance with the NWS Final Decision will be withheld from the public record.

The Grid Needs Filing, on the other hand, is a five (5) year summary of Eversource's distribution projects that are developed annually with the purpose of identifying any possible system needs that may be addressed by an NWS in a more cost-effective manner than traditional "wires" solutions. The Grid Needs Filing is a forward-looking project list for projects above $500,000 including projects that would be excluded based on the Suitability Criteria.[3] Projects between $500,000 and $1,000,000 shall be categorized as "Potential NWS Solicitation Opportunities" whereas projects over $1,000,000 should be categorized as "Likely NWS Solicitation Opportunities." These projects also contain Narrative Documents which are in Attachment 16_ Grid Needs Projects Narrative Documents of the NWS Annual Filing package. These projects are subject to stakeholder review process and question and answer period. Approval for these projects is expected by mid-August of each year.

Lastly, the Quarterly Filing is forward looking and shall contain projects between $250,000 and $500,000 including projects that are necessary to be in-service within 12 months and projects deemed as asset condition, safety, and maintenance related. This filing shall take place on the first Friday of every February, May, August, and November. The Process Monitor will provide their decision on the EDC's quarterly filings by March 31st of each year.

[1] The EDC Data Filing and Grid Needs Filing are due annually on February 8. NWS Final Decision at 4. The Quarterly Filing is due on the first Friday of February. NWS Final Decision Order No. 4.
[2] Exhibit A - Requirement For Annual EDC Data Filing clearly identifies the information PURA permits to be filed under confidential treatment.
[3] The NWS suitability criteria apply to all distribution projects. However, the following project types are excluded from NWS consideration - customer or generator funded interconnection related projects, projects that are necessary to be in-service within 12 months, and projects required for maintenance, asset condition, and safety reasons.

2. Company Information

The Connecticut Light and Power Company is a subsidiary of Eversource that operates approximately 17,072 miles of electric distribution lines and 1,820 miles of transmission lines across 149 Connecticut towns totaling 4,400 square miles (see Figure 1). Eversource delivers electricity to approximately 1.32 million customers in Connecticut.

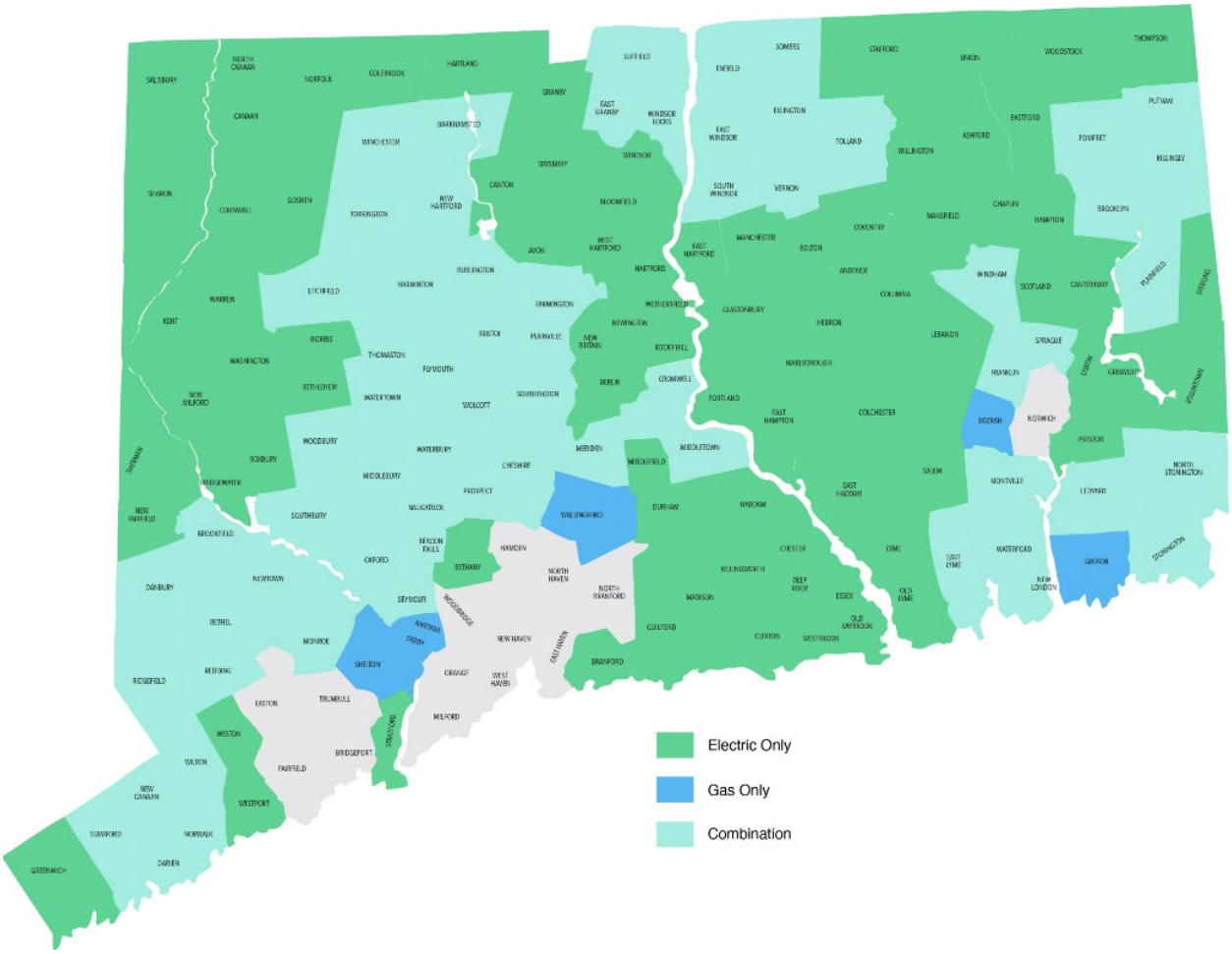

Figure 1: Eversource's Service Territory in Connecticut

3. EDC Data Filing

A. System Data

1. **System Data Requirement No. 1**: Annual peak load growth-i.e. the circuit, substation,

town, operating area, or system level for each of the past five years and forecasted load growth for each of the 10 years.

Response: Please see Attachment 1_System Data Requirement No. 1. Please note that this response contains confidential information and is protected via the NWS Final Decision. Please note that peak load growth and forecasts are evaluated and calculated on the substation level at Eversource.

2. **System Data Requirement No. 2:** Distribution system circuit capacity, customer count, historic loading for maximum peak day and minimum day for each circuit. Load forecast for circuits if available or used by the EDCs. Justification for exclusion of any omitted circuit load forecasts.

   Response: Please see Attachment 2_System Data Requirement No. 2. Please note that this response contains confidential information and is protected via the NWS Final Decision. Forecasts are evaluated and calculated on the substation level at Eversource; therefore, load forecast at the circuit level is not available.

3. **System Data Requirement No. 3**: System Data Requirement No. 3 is listed as N/A in the NWS Final Decision. Therefore, no response to this requirement from the Company is required.

4. **System Data Requirement No. 4**: Discussion of how DER, and at what level DER is considered, in load forecasting (e.g., distribution feeder, sub-transmission level, distribution substation, bulk distribution substation level, or system-wide) and any expected changes in load forecasting methodology.

   Response: Please see Attachment 3_System Data Requirement No. 4 to learn how DERs are included in the overall load forecasting methodology.

5. **System Data Requirement No. 5**: Most recent distribution system annual loss percentage for the prior year (system-wide and by circuit, where available).

   Response: As discussed during technical sessions and written comments in Docket No. 21-05-15RE02 – PURA Investigation into Performance Mechanisms for a Performance-Based Regulation Framework discussion, Eversource does not have accurate data on system losses at the distribution level at any level of granularity to be meaningful, and does not currently have the means to accurately measure or calculate losses at the desired level of granularity.

   During the August 26th, 2024 Technical Session in the aforementioned Docket, the Company maintained that it does not consider a distribution-system losses scorecard to be valid or useful because 1) losses are a small component of overall distribution power flow (typically 2-5% depending on feeder voltage and load profile), 2) the Company has limited or no ability to mitigate a large proportion of the losses (particularly transformer no-load losses) 3), data and models of sufficient accuracy do not exist to disaggregate losses by equipment and facilitate targeted investment decisions.

6. **System Data Requirement No. 6**: The maximum hourly coincident monthly load, in kilo-volt-ampere (kVA), for the distribution system, in the past 12 months, as measured at the interface between the transmission and distribution system. Indicate if calculated using SCADA data or interval metered data or other non-billing metering / monitoring systems.

   Response: Please see Attachment 4_System Data Requirement No. 6. Please note that this response contains confidential information and is protected via the NWS Final Decision. The information presented was calculated using SCADA data, however the information provided is in kW because KVA is unavailable for the distribution system total in SCADA.

7. **System Data Requirement No. 7**: Total distribution substation transformer nameplate in kVA.

   Response: Eversource's total distribution substation transformer nameplate rating is 11,069,310kVA.

8. **System Data Requirement No. 8**: Total distribution line transformer nameplate in kVA.

   Response: Eversource's total distribution line transformer nameplate rating is 17,201,091 kVA.

9. **System Data Requirement No. 9:** List and map of distribution substation transformers (which feed only distribution level customers) that are:
   a. 90-100% within their normal rating;
   b. 80-90% within their normal rating; and
   c. Less than 80% of their normal rating.

   Response: Please see Attachment 5_System Data Requirement No. 9. Please note that this response contains confidential information and is protected via the NWS Final Decision.

10. **System Data Requirement No. 10**: A list of all distribution feeders broken down by distribution feeders that are:
    a. 90-100% within their normal rating;
    b. 80-90% within their normal rating; and
    c. Less than 80% of their normal rating.

    Response: Please see Attachment 6_System Data Requirement No. 10. Please note that this response contains confidential information and is protected via the NWS Final Decision.

11. **System Data Requirement No. 11:** Utility-wide System Average Interruption Duration Index (SAIDI), System Average Interruption Frequency Index (SAIFI), Customer Average Interruption Duration Index (CAIDI) excluding and including major storms for the past three years.

    Response: Please see Attachment 7_System Data Requirement No. 11. Please note that the data provided in this response will be updated and provided as part of the

Transmission and Distribution Reliability Performance ("TDRP") filing at the end of March, which will also be filed in Docket 26-08-08.

12. **System Data Requirement No. 12:** Ranking of circuits according to tiers 1, 2, and 3 in the "Worst-Performing Circuits 2.0" program for the past three years outlined by the Authority in the 17-12-03RE08 Decision. Due to the new implementation of that program, three years of data may not be available immediately. Until that information is available for all three years, the EDCs may supplement missing data with contribution to SAIDI and SAIFI including and excluding major storms.

    Response: Please see Attachment 8_System Data Requirement No. 12. Please note that the data provided in this response will be updated and provided as part of the TDRP filing at the end of March, which will also be filed in Docket 26-08-08.

13. **System Data Requirement No. 13:** Number of separately metered electric vehicle level 2 and level 3 (i.e., direct current fast charging or DCFC) charging systems added to the Company's distribution system over each of the past three years.

    Response: Please note that the information provided below is based on Eversource's EV program participation.

2025		2024		2023	
Level 2	Level 3	Level 2	Level 3	Level 2	Level 3
34	4	45	8	52	16

14. **System Data Requirement No. 14:** Forecasted electric vehicle load (MW) at the substation level for the next three to five years.

    Response: Please see Attachment 9_System Data Requirement No. 14.

B. Financial Data

1. **Financial Data Requirement No. 1:** Historical distribution system spending for the past 10-years, in each category:

    a. Age-Related Replacements and Asset Renewal;
    b. System Expansion or Upgrades for Capacity;
    c. System Expansion or Upgrades for Reliability and Power Quality;
    d. New Customer Projects and New Revenue;
    e. Grid Modernization and Pilot Projects;
    f. Government Mandates;
    g. Metering;
    h. Other.

    Response: Please see Attachment 10_Financial Data Requirement No. 1.

2. **Financial Data Requirement No. 2:** Current 5-year Capital Plan.

Response: Please reference Attachment 11_Financial Data Requirement No. 2. Please note that the data is the same as provided by Eversource in 25-08-08 EDC Data filing. Eversource plans to file a rate case later in 2026, and more updated capital amounts will be provided at that time.

3. **Financial Data Requirement No. 3:** Documentation for planned distribution capital projects for reliability/capacity/resilience/power quality/interconnection projects exceeding cost of $250,000 including:

    a. Justification/drivers for the project (e.g., see categories listed under Financial Data No. 1);
    b. Timeline for improvement;
    c. Estimate of project cost;
    d. Project scope and key materials (e.g., transformer, etc.);
    e. Identification of project risks (e.g., potential for delays or cost overruns).

    Response: Please refer to Attachment 15_Grid Needs Filing for projects beyond $500,000 and Attachment 17_NWS Quarterly Filing for projects between $250,000 through $500,000.

4. **Financial Data Requirement No. 4:** Disclose all Unknown Priority Investments over $250,000 from prior years, including:
    a. Justification/drivers for the project (e.g., see categories listed under Financial Data No. 1);
    b. Timeline for improvement;
    c. Estimate of project cost;
    d. Project scope and key materials (e.g., transformer, etc.);
    e. Identification of project risks (e.g., potential for delays or cost overruns).

    Response: Please refer to Attachment 15_Grid Needs Filing for projects beyond $500,000 and Attachment 17_NWS Quarterly Filing for projects between $250,000 through $500,000.

5. **Financial Data Requirement No. 5:** Provide a retrospective analysis of NWS implemented in prior years, including an accounting of their actual costs and the realized benefits.

    Response: Since there is no NWS implemented in 2025, this information is not currently available.

6. **Financial Data Requirement No. 6:** Provide the most up-to-date information on the metrics included in the EM&V plans for each NWS currently in service.

    Response: Since there is no NWS implemented in 2025, this information is not currently available.

C. DER Deployment

1. **DER Deployment Data Requirement No. 1:** Current distributed generation deployment

by type (photovoltaic, hydro, wind, etc.), size ((1) 0 kW to 25 kW, (2) more than 25 kW to 200 kW, (3) more than 200 kW to 600 kW, (4) more than 600 kW to 2,000 kW, and (5) more than 2,000 kW), and geographic dispersion (as useful for planning purposes; such as, by planning areas, service/work center areas, cities, etc.).

Response: Please refer to Attachment 12_DER Deployment Data Requirement No. 1.

2. **DER Deployment Data Requirement No. 2:** Projected distributed generation deployment by type (photovoltaic, hydro, wind, etc.), size (≤100 kilowatt ("kW"), 100kW-1 megawatt ("MW"), >1MW), and geographic dispersion (as useful for planning purposes, such as, by planning areas, service/work center areas, cities, etc.) over the next three and five years, respectively.

   Response: Please refer to Attachment 13_DER Deployment Data Requirement No. 2.

3. **DER Deployment Data Requirement No. 3:** Information on areas with existing or forecasted transient voltage or frequency issues that may benefit from the utilization of advanced inverter technology, energy storage systems, or NWS more broadly; provide information describing experiences where distributed generation installations have caused operational challenges such as power quality, voltage or system overload issues, and associated customer complaints.

   Response: Please refer to Attachment 14_DER Deployment Data Requirement No. 3.

4. **DER Deployment Requirement No. 4:** Provide currently available Hosting Capacity Maps for all measures of Hosting Capacity.

   Response: Please refer to Eversource's Hosting Capacity Map available online at: https://eversource.maps.arcgis.com/apps/webappviewer/index.html?id=4a8523bc4d454ddaa5c1e3f9428d8d8f

4. Grid Needs Filing

The Grid Needs Filing is a forward-looking project list for projects above $500,000 including projects that would be excluded based on the Suitability Criteria[4] established in the NWS Final Decision. Projects between $500,000 and $1,000,000 shall be categorized as "Potential NWS Solicitation Opportunities" whereas projects over $1,000,000 should be categorized as "Likely NWS Solicitation Opportunities." These projects are subject to stakeholder review process and question and answer period. Approval for these projects is expected by mid-August of each year.

The Grid Needs Filing can be found in Attachment 15_ Grid Needs Filing. The Narrative Documents can be found in Attachment 16_ Grid Needs Projects Narrative Documents

[4] The NWS suitability criteria apply to all distribution projects. However, the following project types are excluded from NWS consideration - customer or generator funded interconnection related projects, projects that are necessary to be in-service within 12 months, and projects required for maintenance, asset condition, and safety reasons.

5. NWS Quarterly Filing

The quarterly filing is forward-looking and shall contain projects between $250,000 and $500,000 including projects that are necessary to be in-service within 12 months and projects deemed as asset condition, safety, and maintenance related. This filing shall take place on the first Friday of every February, May, August, and November. The Process Monitor will provide their decision on the EDCs quarterly filing by March 31st of each year.

The NWS Quarterly Filing can be found in Attachment 17_ NWS Quarterly Filing.

6. Attachments

Attachment 1_System Data Requirement No. 1

Attachment 2_System Data Requirement No. 2

Attachment 3_System Data Requirement No. 4

Attachment 4_System Data Requirement No. 6

Attachment 5_System Data Requirement No. 9

Attachment 6_System Data Requirement No. 10

Attachment 7_System Data Requirement No. 11

Attachment 8_System Data Requirement No. 12

Attachment 9_System Data Requirement No. 14

Attachment 10_Financial Data Requirement No. 1

Attachment 11_Financial Data Requirement No. 2

Attachment 12_DER Deployment Data Requirement No. 1

Attachment 13_DER Deployment Data Requirement No. 2

Attachment 14_DER Deployment Data Requirement No. 3

Attachment 15_Grid Needs Filing

Attachment 16_Grid Needs Projects Narrative Documents

Attachment 17_NWS Quarterly Filing