EVERSOURCE

Project Approval Form

Project Title: [redacted] **Durham,** [redacted]	**Project Number: CD01938**
Date Prepared: 02/18/2025	**Company:** Eversource CT
Organization: Distributed Energy Resource Planning	**Project Category:** Generation/Interconnection
Project Initiator: Andrea [redacted]	**Project Type:** Specific
Initiating Organization: Distributed Energy Resources	**Capital Investment part of original Op Plan:** No
Project Manager: [redacted]	**Emergency Related Request?** No
Project Sponsor: [redacted]	**Facility Type** (check all that apply)**:** ☐ PTF ☐ non-PTF ☒ Distribution ☐ N/A (General Plant)
Required in service date: 12/31/2025	**NWS Excludable** ☒ Yes ☐ No
Total Capital Request: $288.6K (100% reimbursable)	**Authorization Type:** Full Funding

1. Executive Summary

Full funding is being requested for this project at a cost of **$288.6K** which is 119.8 % of the partial funding capital estimate of $241K. There is no scope change on the project. The variance between the full funding and partial funding estimate is due to an underestimation of the key categories of spending in the project.

The Original Project was presented as follows:

- The purpose of this request is to approve the 100% reimbursable partial funding estimate of $241,000. The preliminary engineering estimate includes a 20% contingency for a projected December 31, 2024, in service date. The project will be in the Central Division, [redacted]
- [redacted]s proposing a 3.035 MW site. The new service will consist of one recloser with one primary meter. [redacted].
- [redacted]. No additional problems were found when conducting the study.

2. Project Cost Summary

Note: Dollar values are in thousands.

Capital Costs	2025	2026	Year 3+	Total
Direct Capital Costs				
Internal Labor and Construction Equipment	42.2	0.0	0.0	42.2
Outside Services	4.6	0.0	0.0	4.6
Materials	68.7	0.0	0.0	68.7
Removals	3.8	0.0	0.0	3.8
Risk and Contingency	20.1	0.0	0.0	20.1
Other	0.0	0.0	0.0	0.0
Subtotal – Direct Costs	139.4	0.0	0.0	139.5
Indirect Capital Costs				
Indirect/Overheads (including benefits)	149.1	0.0	0.0	149.1
Capitalized interest or AFUDC, if any	0.0	0.0	0.0	0.0
Subtotal – Indirect Costs	149.1	0.0	0.0	149.1
Total Gross Capital Costs	288.6	0.0	0.0	288.6
Customer Contribution	-288.6	0.0	0.0	-288.6
Total Net Capital Project Costs	0.0	0.0	0.0	0.0

The below table illustrates the total cost that will be shared with the customer in the interconnection agreement. It includes a CIAC contribution as well as a witness test fee. The project is 100% reimbursable.

Distribution cost with O&M	**$268,895**
CIAC 15%	**$40,334**
Total Distribution cost	**$309,229**
Witness Test	**$2,000**
TOTAL COST to be paid by customer	**$311,229**

3. Technical Justification

Background, Project Need/Justification, and Project Scope

a. Background

[redacted] approached Eversource in April, 2021 regarding an initial 4 MW solar project on [redacted], Durham, CT as a new construction. A system impact study agreement was issued to [redacted] in May, 2021. The customer executed the system impact study agreement in June, 2023 and sent revised plans to downsize the facility to 3.035 MWs. Eversource conducted the system impact study and identified that a primary new service (recloser and primary meter) would be required to serve the generation-only customer and that the voltage line regulators on [redacted] will need to be upgraded to accommodate back feed caused by the DER customer.

b. Project Need

This is an interconnection requirement. The proposed solutions are standard industry practice for the issues that were identified in the system impact study.

c. Project Scope

The project will begin once the generating customer executes an interconnection agreement authorizing the Company to begin construction. The generating customer will also be required to pay for their construction in a payment schedule as outlined in the interconnection agreement. Once construction is authorized, Eversource will work to put the project on the schedule.

The following is a list of major material that will be required to complete this project:

- [redacted]
- [redacted]
- [redacted]
- [redacted]
- [redacted]

4. Alternatives Considered

NWS *(remove unselected option)*

If NWS is excludable, complete the NWS Exclusion Criteria table and remove NWS option from the Project Option Comparison table below:

If NWS is not excludable, include NWS in Project Option Comparison table and remove NWS Exclusion Criteria table below:

NWS Exclusion Criteria (select all that apply)

☐ Project cost < $250k	☐ New Service
☐ CDOT Relocation	☒ Generator interconnection project
☐ Maintenance, Asset condition or safety related*	

*Maintenance, Asset condition or safety related justification: (If applicable, provide explanation on how the asset has met or exceeded its useful life)

The project is a compliance obligation. There were no alternatives considered. There is no financial benefit. The customer's frontage is fed by the 30K15 feeder. There was no need to review alternate feeders.

5. Project Schedule

Add any additional milestones that are pertinent to the project

Milestone/Phase Name	Estimated Date
Partial Approval	September 28, 2023
Customer Authorizes Agreement	October 27, 2023
100% Detailed Engineering Completion	March 21, 2023
Fully Funded	May 15, 2025
Construction Start	May 15,2025
In Service Date	December 31, 2025

6. Regulatory Decisions

7. Codes and Standards

8. Risk and Contingencies

Contingencies: A 30% contractor adder was included with this estimate. An additional 20% contingency was added, standard with a projected in-service date one year out.

Risk Mitigation: No additional dollars were included for risk. Based on the scope of work, risk is expected to be minimal.

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2025	Low	Included contingency costs in the funding request. Perform detailed Field Analysis and walk down in project development to avoid potential issues.
Customer Permission / Siting Council / Municipal approvals	2025	Medium	Design to minimize customer impact. Project Preplanning and customer/community outreach.
Internal construction resources not available to perform the work.	2025	High	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Internal engineering resources not available to perform the work.	2025	Medium	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.

Materials Shortage or long lead times	2025	Medium	Pre-order long lead time material; minimize the use of non-standard and non-stocked material.
Storm delays	2025	Medium	If storm activity delays work, we may be forced to use external resources.
System abnormal configuration	2025	Low	Schedule work to minimize system abnormal time. Install temporary bypasses/equipment if system will be abnormal for extended periods.
Technological risks involving integration of new technology	2025	Low	Before use of new technology ensure support of standards and manufacturer. Schedule project to accommodate for extra time or ensure new technology is not on the critical path.
Wetlands / Environmentally sensitive area	2025	Low	Use of mats and specialty equipment, only work during certain times of the year.

9. References

References
1.
2.
3.
4.
5.

10. Attachments (One Line Diagrams, Images, etc.)

Attachment	Included in Submittal?
A1. Partial Funding PAF Form	*YES*

A. Cost Estimate	*YES*
B. Geographic Map	*YES*
C. System One-Line	*YES*

Attachment A1: Partial Funding PAF Form

EVERSOURCE

Project Approval Form

Project Title: [redacted] Durham, [redacted]	**Project Number:** CD01938
Date Prepared: 09/21/2023	**Company: Eversource CT**
Organization: Distributed Energy Resource Planning	**Project Category: Generation/Interconnection**
Project Initiator: [redacted]	**Project Type: Specific**
Initiating Organization: Distributed Energy Resources	**Capital Investment part of original Op Plan: No**
Project Manager: [redacted]	**Emergency Related Request? No**
Project Sponsor: [redacted]	**Facility Type** (check all that apply): ☐ PTF ☐ non-PTF ☒ Distribution ☐ N/A (General Plant)
Required in service date: December 31, 2024	
Total Capital Request: $241K, 100% reimbursable	**Authorization Type:** Partial Funding

1. Executive Summary

The purpose of this request is to approve the 100% reimbursable partial funding estimate of $241,000. The preliminary engineering estimate includes a 20% contingency for a projected December 31, 2024, in service date. The project will be in the Central Division, on the Cheshire AWC portion of 30K15, in the town of Durham.

[redacted]is proposing a 3.035 MW site. [redacted]

[redacted] No additional problems were found when conducting the study.

2. Project Cost Summary

Note: Dollar values are in thousands.

Capital Costs	Year 2024	Year 2025	Year 2026+	Total
Direct Capital Costs				
Internal Labor and Construction Equipment	14.3	0.0	0.0	14.3
Outside Services	77.7	0.0	0.0	77.7
Materials	31.7	0.0	0.0	31.7
Removals	32.3	0.0	0.0	32.3
Risk and Contingency	0.0	0.0	0.0	0.0
Other	1.6	0.0	0.0	1.6
Subtotal – Direct Costs	**157.5**	**0.0**	**0.0**	**157.5**
Indirect Capital Costs				
Indirect/Overheads (including benefits)	78.3	0.0	0.0	78.3
Capitalized interest or AFUDC, if any	5.2	0.0	0.0	5.2
Subtotal – Indirect Costs	**83.5**	**0.0**	**0.0**	**83.5**
Total Gross Capital Costs	**241.0**	**0.0**	**0.0**	**241.0**
Customer Contribution	**-241.0**	**0.0**	**0.0**	**-241.0**
Total Net Capital Project Costs	**0.0**	**0.0**	**0.0**	**0.0**

The below table illustrates the total cost that will be shared with the customer in the interconnection agreement. It includes a CIAC contribution as well as a witness test fee. The project is 100% reimbursable.

Distribution cost with O&M	$268,895
CIAC 15%	$40,334
Total Distribution cost	$309,229
Witness Test	$2,000
TOTAL COST **paid by customer**	$311,229

3. Technical Justification

Background, Project Need/Justification, and Project Scope

a. Background

[redacted] approached Eversource in April, 2021 regarding an initial 4 MW project on [redacted], Durham, CT as a new construction. A system impact study agreement was issued to Greenskies in May, 2021. The customer executed the system impact study agreement in June, 2023 and sent revised plans to downsize the facility to 3.035 MWs. Eversource conducted the system impact study and identified that a primary new service (recloser and primary meter) would be required to serve the generation-only customer and that the voltage line regulators on Cherry Hill Road will need to be upgraded to accommodate back feed caused by the DER customer.

b. Project Need

This is an interconnection requirement. The proposed solutions are standard industry practice for the issues that were identified in the system impact study.

c. Project Scope

The project will begin once the generating customer executes an interconnection agreement authorizing the Company to begin construction. The generating customer will also be required to pay for their construction in a payment schedule as outlined in the interconnection agreement. Once construction is authorized, Eversource will work to put the project on the schedule.

The following is a list of major material that will be required to complete this project:

[redacted]

4. Alternatives Considered

The project is a compliance obligation. There were no alternatives considered. There is no financial benefit. [redacted]. There was no need to review alternate feeders.

5. Project Schedule

Milestone/Phase Name	Estimated Date
Partial Approval	September 28, 2023
Customer Authorizes Agreement	October 27, 2023
100% Detailed Engineering Completion	March 21, 2023
Fully Funded	March 28, 2023
Construction Start	June 30, 2024
In Service Date	December 31, 2024

6. Regulatory Decisions

Nonapplicable.

7. Codes and Standards

Nonapplicable.

8. Risk and Contingencies

Contingencies:

A 30% contractor adder was included with this estimate. An additional 20% contingency was added, standard with a projected in-service date one year out.

Risk Mitigation:

No additional dollars were included for risk. Based on the scope of work, risk is expected to be minimal.

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9. References

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10. Attachments (One Line Diagrams, Images, etc.)

Attachment	Included in Submittal?
A. Cost Estimate	*YES*
B. Geographic Map	*YES*
C. System One-Line	*YES*









