EVERSOURCE

Project Approval Form

Project Title: [redacted] Route 32, North Franklin	**Project Number: CD02247**
Date Prepared: 08/14/2025	**Company:** Eversource CT
Organization: Distributed Energy Resource Planning	**Project Category:** DISTRIBUTED GENERATION-L4
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: 11/01/2025	**NWS Excludable:** ☒ Yes ☐ No
Total Capital Request: $307k (100% Reimbursable)	**Authorization Type:** Full Funding

1. Executive Summary

Full funding is being requested for this project at a cost of $307.6k which is 119% of the partial funding capital estimate of $259.2k. CD02247 was partially approved on 11/10/2023. The project's increase from its partial funding estimate is due to an increase in materials and labor and indirect costs. The partial estimate did not include a revised increase per unit cost for materials and labor, including the addition of an RTAC at approximately $50k.

This project was originally presented as follows:

The purpose of this request is to approve the 100% reimbursable preliminary engineering estimate of $259,300. This preliminary engineering estimate includes a 20% contingency for a projected June 30, 2025, in service date. Note, the total gross capital does not include the CIAC tax or witness test cost. Those costs are illustrated in the Project Cost Summary section. The project will be in the Eastern Division, in the Town of North Franklin in the East Hampton AWC.

[redacted]*s proposing a 4.975 MW photovoltaic (PV) project, located at* [redacted]

[redacted]

[redacted]

2. Project Cost Summary

Note: Dollar values are in thousands.

Capital Costs	2025 Actual	2025 Estimate	Total
Internal Labor and Construction Equipment	1.3	20.4	21.7
Outside Services	1.0	15.7	16.7
Materials	7.1	113.3	120.3
Removals	0.3	4.1	4.4
Risk and Contingency	0.0	0.0	0.0
Other	0.0	0.0	0.0
Subtotal	**9.6**	**153.6**	**163.1**

Indirect Capital Costs	2025 Actual	2025 Estimate	Total
Indirects/Overheads (including benefits)	13.7	130.6	144.3
Capitalized interest or AFUDC, if any	0.1	0.0	0.1
Subtotal	**13.9**	**130.6**	**144.5**
Total Capital Costs (Gross)	**23.5**	**284.1**	**307.6**
Less Total Customer Contribution	**-23.5**	**-284.1**	**-307.6**
Project Costs (Net of Reimbursement)	**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 witness test fee.

3. Technical Justification

Background, Project Need/Justification, and Project Scope

a. Background

Verogy is proposing a 4.975 MW photovoltaic (PV) project, located at [redacted]

Project Location:

- Division: Eastern
- District: East Hampton
- City: North Franklin

b. Project Need

The goal of this project is to provide service to the DER applicant to allow their generator to interconnect to the Eversource EPS. This project proposes the installation of a site-dedicated recloser and primary meter.

c. Project Scope

[redacted]

4. Alternatives Considered

NWS

NWS Exclusion Criteria (select all that apply)

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

The Distribution Design Engineer confirmed that the tapping feeder 11F12 and extending service onto the customer property for interconnection was possible. The fuses on pole 219 will need to be upgraded to a radial recloser.

5. Project Schedule

Add any additional milestones that are pertinent to the project

Milestone/Phase Name	Estimated Date
Partial Approval	11/16/2023
Issuance of Interconnection Agreement	03/01/2024
100% Detailed Engineering Completion	05/01/2024
Fully Funded	06/30/2024
Construction Start	03/01/2025
In Service Date	09/30/2025

6. Regulatory Decisions

7. Codes and Standards

See section 9

8. Risk and Contingencies

Contingencies:

Risk Mitigation:

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2025	High/Medium/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	High/Medium/Low	Design to minimize customer impact. Project Preplanning and customer/community outreach.
Internal construction resources not available to perform the work.	2025	High/Medium/Low	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	High/Medium/Low	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Materials Shortage or long lead times	2025	High/Medium/Low	Pre-order long lead time material; minimize the use of non-standard and non-stocked material.
Storm delays	2025	High/Medium/Low	If storm activity delays work, we may be forced to use external resources.
System abnormal configuration	2025	High/Medium/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	High/Medium/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	High/Medium/Low	Use of mats and specialty equipment, only work during certain times of the year.

9. References

References
1. DSEM- Distributed Generation- Remote monitoring and control- 7.0
2. DSEM- Distributed Generation- General Standards- Large scale DER 1.4.1
3. DSEM- New Service- NB-3-7a
4. DER Planning Guide

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

Attachment	Included in Submittal?
A. Cost Estimate	*YES*
B. Geographic Map	*YES*
C. System and Station One-Lines	*YES*
D. Customer Single Line Diagram	*YES*

Project Title: [redacted]Route 32, North Franklin	**Project Number:** CD02247
Date Prepared: 11/09/2023	**Company:** Eversource CT
Organization: Distributed Energy Resource Planning	**Project Category:** Distributed Generation
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: 09/30/2025	
Total Capital Request: $259,300 (100% Reimbursable)	**Authorization Type:** Partial Funding

11. Executive Summary

The purpose of this request is to approve the 100% reimbursable preliminary engineering estimate of $259,300. This preliminary engineering estimate includes a 20% contingency for a projected June 30, 2025, in service date. Note, the total gross capital does not include the CIAC tax or witness test cost. Those costs are illustrated in the Project Cost Summary section. The project will be in the Eastern Division, in the Town of North Franklin in the East Hampton AWC.

[redacted]s proposing a 4.975 MW photovoltaic (PV) project, [redacted]. The project will need a new three-phase service with one primary meter and recloser.

[redacted]

12. Project Cost Summary

Note: Dollar values are in thousands.

Capital Costs	Year 2025	Year 2026	Year 2027+	Total
Direct Capital Costs				
Internal Labor and Construction Equipment	15.4	0.0	0.0	15.4
Outside Services	83.6	0.0	0.0	83.6
Materials	34.1	0.0	0.0	34.1
Removals	34.7	0.0	0.0	34.7
Risk and Contingency	0.0	0.0	0.0	0.0
Other	1.7	0.0	0.0	1.7
Subtotal – Direct Costs	**169.5**	**0.0**	**0.0**	**169.5**
Indirect Capital Costs				
Indirect/Overheads (including benefits)	84.2	0.0	0.0	84.2
Capitalized interest or AFUDC, if any	5.6	0.0	0.0	5.6
Subtotal – Indirect Costs	**89.8**	**0.0**	**0.0**	**89.8**
Total Gross Capital Costs	**259.3**	**0.0**	**0.0**	**259.3**
Customer Contribution	**-259.3**	**0.0**	**0.0**	**-259.3**
Total Net Capital Project Costs	**0.00**	**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 witness test fee.

Distribution cost with O&M	$289,208
CIAC Tax (15%)	$43,382
Total Distribution cost	$332,590
Witness Test	$2,000
TOTAL CIAC **paid by customer**	**$334,590**

13. Technical Justification

Background, Project Need/Justification, and Project Scope

a. Background

[redacted] is proposing a 4.975 MW photovoltaic (PV) project, [redacted]

Project Location:

- Division: Eastern
- District: East Hampton
- City: North Franklin

b. Project Need

The goal of this project is to provide service to the DER applicant to allow their generator to interconnect to the Eversource EPS. This project proposes the installation of a site-dedicated recloser and primary meter.

c. Project Scope

[redacted]

14. Alternatives Considered

The Distribution Design Engineer confirmed that the tapping [redacted] and extending service onto the customer property for interconnection was possible. T[redacted]

15. Project Schedule

Milestone/Phase Name	Estimated Date
Partial Approval	11/16/2023
Issuance of Interconnection Agreement	03/01/2024
100% Detailed Engineering Completion	05/01/2024
Fully Funded	06/30/2024
Construction Start	03/01/2025
In Service Date	09/30/2025

16. Regulatory Decisions

N/A

17. Codes and Standards

See section 9

18. Risk and Contingencies

Contingencies:

A 24% contingency was added, consistent with an in service date one year out.

Risk Mitigation:

No additional dollars were included for risk. Minimal risk is anticipated based on the scope of work.

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2024	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	2024	Medium	Design to minimize customer impact. Project Preplanning and customer/community outreach.
Internal construction resources not available to perform the work.	2024	Medium	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.	2024	Low	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Materials Shortage or long lead times	2024	Low	Pre-order long lead time material; minimize the use of non-standard and non-stocked material.
Storm delays	2024	Low	If storm activity delays work, we may be forced to use external resources.

System abnormal configuration	2024	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	2024	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	2024	Low	Use of mats and specialty equipment, only work during certain times of the year.

19. References

References
1. DSEM- Distributed Generation- Remote monitoring and control- 7.0
2. DSEM- Distributed Generation- General Standards- Large scale DER 1.4.1
3. DSEM- New Service- NB-3-7a
4. DER Planning Guide
5.

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

Attachment	Included in Submittal?
A. Cost Estimate	*YES*
B. Geographic Map	*YES*
C. System and Station One-Lines	*YES*
D. Customer Single Line Diagram	*YES*

Attachment A:

Estimating Sheet							
Code	Unit Type	Unit Description	Included	Unit of Measure	[redacted]	Total Cost	KEYWORD
ALL11	ALL	ACT Estimate for System Projects Crews		$			ACT
ALL12	ALL	ACT Estimate for Contractor Crews		$			ACT
ALL13	ALL	ACT Estimate for Division Crews		$			ACT
ALL14	ALL	OTHER	Item not in list	$		$30,000	Primary Metering
ALL17	ALL	OH/DB/UG - SWITCHING NonNetwork - Average	Labor per switching order	EA		$4,562	SWITCHING
ALL18	ALL	OH/DB/UG - Traffic Control - Police Officer	$1000 / day / officer, Urban area, Main/State roads, 2 needed for reconductoring, multiple crews	$		$31,350	TRAFFIC
OH14	OH	OH - POLE - 3ph (Eversource custodian)	Install and shift any 3ph pole Eversource installs pole	LOC		$6,079	POLE
OH14A	OH	OH - JUNCTION POLE - 3ph (Eversource custodian)	Install and shift any 3ph JUNCTION with CLASS 1 pole - Eversource installs pole	LOC		$15,198	POLE
OH14B	OH	OH - Install/Replace Anchor and Guy	Install new anchor and guy for new or existing pole	LOC		$857	POLE
OH26b	OH	OH - Reconductor w/ 175 Mil Tree Wire - 3ph - 336 kcmil	Includes conductor, 50% pole replacements, poletops guys, arresters, c/o's, average trimming	FT		$13,572	OH WIRE
OH31	OH	OH - Neutral	Labor and Material to install neutral conductor	FT		$1,248	OH WIRE
OH38	OH	OH - Recloser - 3ph	Includes Replacing Pole, 6 Stirrups, 6 arresters, 3 Vertical Disc Switches, Control, etc.	LOC		$124,773	SECTIONALIZE
OH43	OH	OH - Vertical Disconnect Switches, 600/900 amp, 3-1ph	Includes: Pole replacement, Disconnects, 6 stirrups, arresters	LOC		$13,368	SECTIONALIZE
Total					Sub-Total	$241,007	
			Contingency/Contractor Contingency/Urban Adder		20%	$48,201	
					Total	$289,208	

Attachment B:



Attachement C:



Attachment D (1 of 3):

[redacted]

Attachment D (2 of 3):

[redacted]

Attachment D (3 of 3):

