EVERSOURCE

Project Approval Form

Project Title: C&B Marlborough, [redacted]	**Project Number:** CD02102
Date Prepared: 09/11/2025	**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: 4/30/2026	**NWS Excludable:** ☒ Yes ☐ No
Total Capital Request: $433.5k (100% reimbursable)	**Authorization Type:** Full Funding

1. Executive Summary

Full funding is being requested for this project at a cost of $433.5k which is 71% of the partial funding capital estimate of $614.6k. CD02102 was partially approved on 2/25/2025. The project's decrease from its partial funding estimate is due primarily to a significant decrease in outside services. Additional significant differences include a decrease in removals from the original estimate, and an increase in materials.

The original project was presented as follows:

> *The purpose of this request is to approve a partial funding capital request of $614.6K which is 100% reimbursable. The total 100% customer Contribution In Aide of Construction as indicated in the project cost summary below is $790.4K which includes O&M, taxes, and a 20% contingency. The projected in-service date is requested to be December 31, 2024 based on the latest information from the customer. However, given the long lead time for voltage regulators, the required in service date has been bumped out to April 30, 2025. During construction, the team will review if the December 31, 2024 in service date can be met after carefully reviewing if the regulator controls can be swapped out rather than replacing the regulator unit itself.*
>
> *C&B Marlborough, [redacted] located in the East Hampton AWC of the Eastern Division is proposing a photovoltaic (PV) generator at their facility located on [redacted], Marlborough, CT. The PV facility is rated at 0.991 MW. The proposed C&B Marlborough, [redacted] facility will interconnect to the Portland 21H8 23 kV circuit. A distribution system impact study determined that the proposed project would need a three-phase new service with a site-dedicated recloser and one primary meter. The site will also need a RTAC per new Eversource standards. The steady state analysis determined the addition of 0.991 MW does not have adverse impacts to voltage and power quality.*

The project requires two sets of voltage regulators to be replaced to accommodate back feed from the DER. One set of voltage regulators on [redacted] be replaced and one set of voltage regulators will be replaced on [redacted]. In addition, the trip savers that presently isolates [redacted] will be replaced with a radial recloser for proper coordination with the DER radial recloser.

This project was previously presented and approved February 16, 2023. The project is being brought in for refreshed costs as the customer is wishing to proceed. The only scope change was the addition of a site RTAC, per new Eversource standards ($50K). In addition, full replacement of the voltage regulators instead of just controls was added given some difficulty in application across Eversource of just swapping out controls. The rest of the cost increase is due to an increase in cost units (CUs). Total cost difference is approximately a 53% increase from February 2023 due to the above additions and changes.

2. Project Cost Summary

Note: Dollar values are in thousands.

Capital Costs	Year 2025	Year 2026	Year 2027+	Total
Internal Labor and Construction Equipment	19.0	19.0	0.0	38.0
Outside Services	3.7	3.7	0.0	7.5
Materials	90.6	90.6	0.0	181.1
Removals	3.1	3.1	0.0	6.3
Other	0.0	0.0	0.0	0.0
Risk and Contingency	0.0	0.0	0.0	0.0
Subtotal	**116.4**	**116.4**	**0.0**	**232.9**

Indirect Capital Costs				
Indirects/Overheads (including benefits)	100.3	100.3	0.0	200.6
Capitalized interest or AFUDC, if any	0.0	0.0	0.0	0.0
Subtotal	**100.3**	**100.3**	**0.0**	**200.6**

Total Capital Costs (Gross)	**216.8**	**216.8**	**0.0**	**433.5**
Less Total Customer Contribution	**-216.8**	**-216.8**	**0.0**	**-433.5**
Project Costs (Net)	**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 including O&M	$433,514
CIAC Tax: 15%	$65,027
Total Distribution cost	$498,541
Witness Test	$2,000
TOTAL Customer Contribution in Aide of Construction. **paid by customer**	$500,541

3. Technical Justification

Background, Project Need/Justification, and Project Scope

a. Background

Michaud Law Group (MLG), on behalf of C&B Marlborough approached Eversource in May 2022 regarding an initial 3125 kW project on [redacted], Marlborough, CT as a new construction. A system impact study agreement was issued to C&B Marlborough in September 2022 after new plans were submitted by the developer in July 2022. The customer executed the system impact study agreement in November 2022. Eversource conducted the system impact study and identified that a primary new service (recloser, RTAC, and primary meter) would be required to serve the generation-only customer. The customer recently reached out to Eversource in January 2024 looking to proceed. Considering approximately a year has passed since the last costs were issued, new costs were created.

In addition, two sets of voltage regulators between [redacted] will be replaced to accommodate back feed from the DER. The 100K trip savers on [redacted] will be replaced with a radial recloser to properly coordinate with the DER recloser.

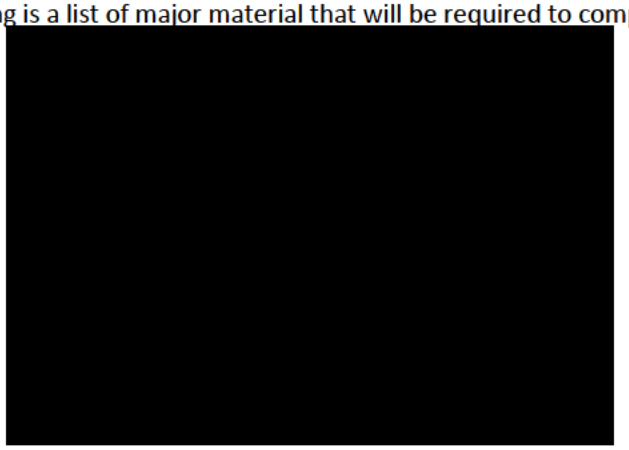
b. Project Need

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:



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*	

This is a DG project interconnecting to the 21H8 feeder. NWS exclusion is applicable to interconnection projects

5. Project Schedule

Add any additional milestones that are pertinent to the project

Milestone/Phase Name	Estimated Date
Partial Approval	Feb 25, 2025
100% Detailed Engineering Completion	Aug 22, 2025

Milestone/Phase Name	Estimated Date
Fully Funded	Sep 11, 2025
Construction Start	Oct 2025
In Service Date	Apr 30, 2026

6. Regulatory Decisions

7. Codes and Standards

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.	2024	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	2024	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	2024	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. Customer One Line	*YES*
D. Feeder One Line	*YES*
E. Project Checklist	*YES*

Project Title: C&B Marlborough, [redacted]	**Project Number:** CD02102
Date Prepared: 03/12/2024	**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: April 30, 2025	
Total Capital Request: $614.6K, 100% reimbursable	**Authorization Type:** Partial Funding

11. Executive Summary

The purpose of this request is to approve a partial funding capital request of $614.6K which is 100% reimbursable. The total 100% customer Contribution In Aide of Construction as indicated in the project cost summary below is $790.4K which includes O&M, taxes, and a 20% contingency. The projected in-service date is requested to be December 31, 2024 based on the latest information from the customer. However, given the long lead time for voltage regulators, the required in service date has been bumped out to April 30, 2025. During construction, the team will review if the December 31, 2024 in service date can be met after carefully reviewing if the regulator controls can be swapped out rather than replacing the regulator unit itself.

C&B Marlborough, [redacted] located in the East Hampton AWC of the Eastern Division is proposing a photovoltaic (PV) generator at their facility located on Hebron Road, Marlborough, CT. The PV facility is rated at 0.991 MW. The proposed C&B Marlborough, [redacted] facility will interconnect to the Portland [redacted]. A distribution system impact study determined that the proposed project would need a three-phase new service with a site-dedicated recloser and one primary meter. The site will also need a RTAC per new Eversource standards. The steady state analysis determined the addition of 0.991 MW does not have adverse impacts to voltage and power quality.

The project requires two sets of voltage regulators to be replaced to accommodate back feed from the DER. One set of voltage regulators on [redacted] will be replaced and one set of voltage regulators will be replaced on [redacted]. In addition, the trip savers that presently isolates [redacted]) will be replaced with a radial recloser for proper coordination with the DER radial recloser.

This project was previously presented and approved February 16, 2023. The project is being brought in for refreshed costs as the customer is wishing to proceed. The only scope change was the addition of a site RTAC, per new Eversource standards ($50K). In addition, full replacement of the voltage regulators instead of just controls was added given some difficulty in application across Eversource of just swapping out controls. The

rest of the cost increase is due to an increase in cost units (CUs). Total cost difference is approximately a 53% increase from February 2023 due to the above additions and changes.

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	36.5	0.0	0.0	36.5
Outside Services	198.1	0.0	0.0	198.1
Materials	80.7	0.0	0.0	80.7
Removals	82.4	0.0	0.0	82.4
Risk and Contingency	0.0	0.0	0.0	0.0
Other	4.0	0.0	0.0	4.0
Subtotal – Direct Costs	**401.7**	**0.0**	**0.0**	**401.7**
Indirect Capital Costs				
Indirect/Overheads (including benefits)	212.9	0.0	0.0	212.9
Capitalized interest or AFUDC, if any	0.0	0.0	0.0	0.0
Subtotal – Indirect Costs	**212.9**	**0.0**	**0.0**	**212.9**
Total Gross Capital Costs	**614.6**	**0.0**	**0.0**	**614.6**
Customer Contribution of Capital	**-614.6**	**0.0**	**0.0**	**-614.6**
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 including O&M	$685,591
CIAC Tax: 15%	$102,839
Total Distribution cost	$788,430
Witness Test	$2,000

TOTAL Customer Contribution in Aide of Construction. **paid by customer**	$790,430

13. Technical Justification

Background, Project Need/Justification, and Project Scope

a. Background

Michaud Law Group (MLG), on behalf of C&B Marlborough approached Eversource in May 2022 regarding an initial 3125 kW project on [redacted], Marlborough, CT as a new construction. A system impact study agreement was issued to C&B Marlborough in September 2022 after new plans were submitted by the developer in July 2022. The customer executed the system impact study agreement in November 2022. Eversource conducted the system impact study and identified that a primary new service (recloser, RTAC, and primary meter) would be required to serve the generation-only customer. The customer recently reached out to Eversource in January 2024 looking to proceed. Considering approximately a year has passed since the last costs were issued, new costs were created.

In addition, two sets of voltage regulators between 21H8 and 21H13 will be replaced to accommodate back feed from the DER. The 100K trip savers on [redacted] will be replaced with a radial recloser to properly coordinate with the DER recloser.

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]



14. Alternatives Considered

The project is a compliance obligation. There were no alternatives considered. There is no financial benefit. The customer's frontage is fed by the 21H8 feeder. There was no need to review alternate feeders.

15. Project Schedule

Milestone/Phase Name	Estimated Date
Partial Approval	March 14, 2024
Customer Authorizes Interconnection Agreement	April 19, 2024
100% Detailed Engineering Completion	May 31, 2024
Fully Funded	May 31, 2024
Construction Start	January 1, 2025
In Service Date	April 30, 2025

16. Regulatory Decisions

Nonapplicable.

17. Codes and Standards

Nonapplicable.

18. Risk and Contingencies

Contingencies:

A 20% contingency was added which is typical for projects expected to go online in the next year.

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	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	2025	High	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	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

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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.

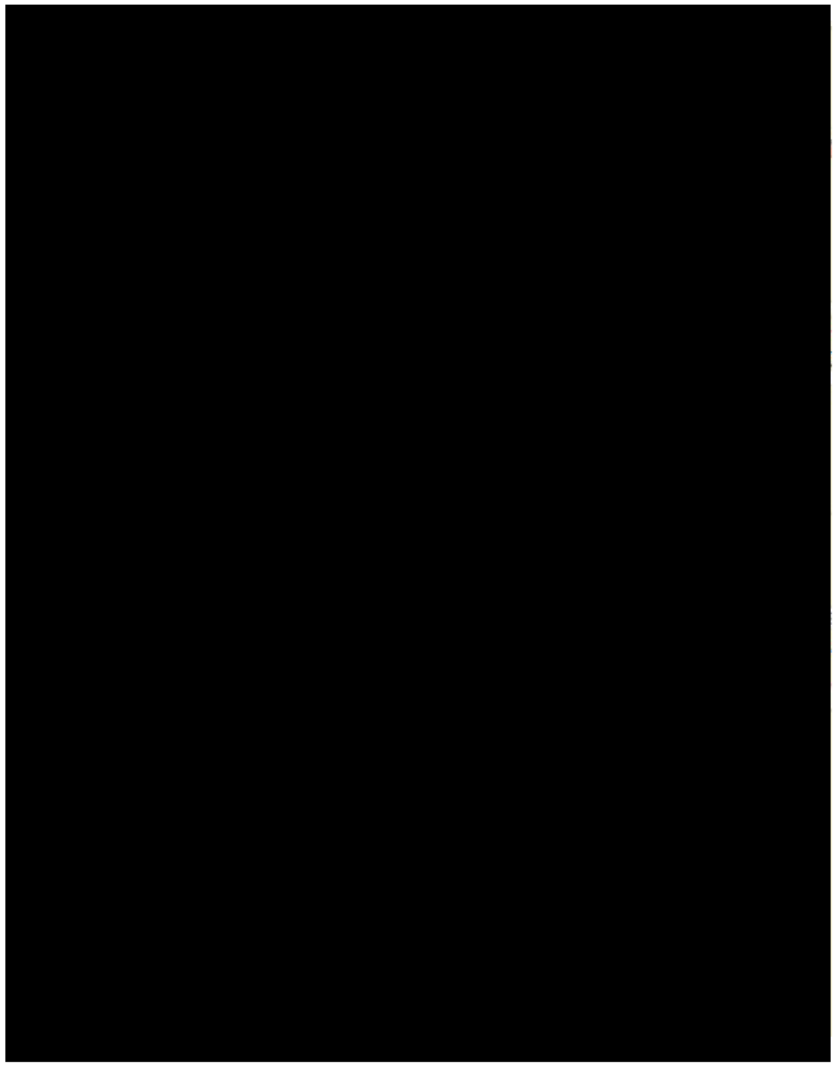
20. Attachments (One Line Diagrams, Images, etc.)

Attachment	Included in Submittal?
A. Cost Estimate	*YES*
B. Geographic Map	*YES*
C. Customer One Line	*YES*
D. Feeder One Line	*YES*
E. Project Checklist	*YES*

Attachment A:

Estimating Sheet								
Code	Unit Type	Unit Description	Included	Unit of Measu	Unit Cost	Quantity	Total Cost	KEYWORD
ALL14	ALL	OTHER	Item not in list	$	[redacted]			Primary Metering RTAC
ALL17	ALL	OH/DB/UG - SWITCHING NonNetwork - Average	Labor per switching order	EA				SWITCHING
ALL18	ALL	OH/DB/UG - Traffic Control - Police Officer	$1000 / day / officer, Urban area, Main/State roads, 2 needed for reconductoring, multiple crews	$				RAFFIC
OH13	OH	OH - POLE - 1ph (Eversource custodian)	Install and shift any 1ph pole Eversource installs pole	LOC				tub Pole
OH14	OH	OH - POLE - 3ph (Eversource custodian)	Install and shift any 3ph pole Eversource installs pole	LOC				M Pole
OH14A	OH	OH - JUNCTION POLE - 3ph (Eversource custodian)	Install and shift any 3ph JUNCTION with CLASS 1 pole - Eversource installs pole	LOC				OLE 260
OH14B	OH	OH - Install/Replace Anchor and Guy	Install new anchor and guy for new or existing pole	LOC				OLE
OH20	OH	OH - Cutouts or Arresters - 3ph	Install or Replace Cutout or Arrester - 3 ph	LOC				-260
OH23	OH	OH - Insulating guy rod	Install insulated guy rod on existing guy	LOC				NSULATOR
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				H WIRE
OH31	OH	OH - Neutral	Labor and Material to install neutral conductor	FT				H WIRE
OH38	OH	OH - Recloser - 3ph	Includes Replacing Pole, 6 Stirrups, 6 arresters, 3 Vertical Disc Switches, Control, etc.	LOC				G and P-250
OH43	OH	OH - Vertical Disconnect Switches, 600/900 amp, 3-1ph	Includes: Pole replacement, Disconnects, 6 stirrups, arresters	LOC				ECTIONALIZE
OH48	OH	OH - Regulators, 3-1ph - on RACK	Replace 2 poles, install 1 pole, rack, and 3 regulators complete, except regulator cost	LOC				Marlborough Rd nd Chapman
Total								
			Contingency/Contractor Contingency/Ur			20%		
					Total		$685,591	

Attachment B:





Attachment C:

[redacted]

Attachment D:



Attachment E:

Project Authorization Checklist

Project Initiator: [redacted]

Project #:CD02102

Project Title: C&B Marlborough, [redacted]

Funding Type:

☒ Partial PAF ☐ Full PAF

Project Alternatives:

☐ Options considered ☒ Explanation why alternatives were not selected

☐ NWA considered ☐ Explanation why preferred option was selected

Project Requirements (Review all, and check all that apply):

NR = Not Required R=Required C = Complete

NR	R	C		NR	R	C	
☐	☒	☐	Easement	☒	☐	☐	TD007
☒	☐	☐	Trimming Estimate Received	☒	☐	☐	ROW trimming Estimate Received
☒	☐	☐	Environmental Review Initiated	☐	☒	☐	Review with Operations
☐	☒	☐	Permits (state roads)	☒	☐	☐	Underground permits
☐	☒	☐	S &C Settings	☐	☒	☐	Material long lead
☐	☐	☒	Synergi load flow				

PAF Documents Attached:

☒ One Lines ☒ Geographical Map ☐ Load Projections ☒ Estimates

☐ Other Documents (List):

PAF Review Complete:

☒ Lead Reviewed by: [redacted] Date: **3/12/14**

☒ Manager Reviewed by: [redacted] Date: **3/12/14**