EVERSOURCE

Project Approval Form

Project Title: New service [redacted]	Project Number:CD02494
Date Prepared: 11/28/2024	**Company:** Eversource CT
Organization: Distribution Engineering	**Project Category:** SPECIFIC PROJECTS-NEW SRVCE
Project Initiator: [redacted]	**Project Type:** Specific
Initiating Organization: Distribution	**Capital Investment part of original Op Plan:** Yes
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: $384K (Customer Reimbursement: $58K)	**Authorization Type:** Full Funding

1. Executive Summary

Full funding is being requested for this project at a cost of $384k. This is 108.8% of the partial funding capital estimate of $353.7k. CD02494 was partially approved on 4/24/2025. There is no scope change on this project. The project falls within the 15% threshold relative to the partial funding request and is therefore being requested with no further changes anticipated.

Under Eversource's NB-2 policy "Pricing Policy for Standard Charges", which is applicable to the work inside of the customer's premises; the customer's contribution is estimated to be approximately $58k as broken down below. This cost includes installing underground primary and a pad-mount transformer.

NB-2 Contributions	Charges
Customer Contribution	$50K
CIAC @ 16%	$8K
Total Customer Contribution	**$58K**

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The original project was presented as follows:

This project has been established to accommodate an increase in capacity requested by [redacted] resulting from the addition of EV charging stations at their facility in [redacted]

Division: Eastern

District: Danielson AWC

Town: Griswold

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2. 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	40.5	0.0	0.0	40.5
Outside Services	108.1	0.0	0.0	108.1
Materials	15.1	0.0	0.0	15.1
Removals	8.4	0.0	0.0	8.4
Other	0.0	0.0	0.0	0.0
Risk and Contingency	26.8	0.0	0.0	26.8
Subtotal	**198.8**	**0.0**	**0.0**	**198.8**
Indirect Capital Costs	**2025**	**2026**	**2027**	**2025**
Indirects/Overheads (including benefits)	185.3	0.0	0.0	185.3
Capitalized interest or AFUDC, if any	0.0	0.0	0.0	0.0
Subtotal	**185.3**	**0.0**	**0.0**	**185.3**
Total Capital Costs (Gross)	**384.1**	**0.0**	**0.0**	**384.1**
Less Total Customer Contribution	**-58.0**	**0.0**	**0.0**	**-58.0**
Project Costs (Net)	**326.1**	**0.0**	**0.0**	**326.1**

Explain unique payment provisions, if applicable:

3. Technical Justification

Background, Project Need/Justification, and Project Scope

a. Background

[redacted] which is looking to add to their EV capability.

b. Project Need

[redacted]

c. Project Scope

The scope of this project is as follows:

[redacted]

Major materials:

- 900' of 3-phase 336 ACSR TW
- 280' 3-phase UG
- 5 poles with x-arm
- 3-phase pad-mount transformer

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Project Approval Form

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*	

Project Option Comparison

[redacted]

Additional Benefits (not required to meet scope of project)			
Distribution Capacity Increase		X	N/A
Authorization Type	Full	Partial	N/A
Capital Cost	$384.1K	$537.3K	N/A
Expense Cost	$19.7K	$27.6K	N/A
Total Cost	$ 371.8K	$565.0K	N/A
Total Cost / MVA added	$ 412.2K/MVA	$627.7K/MVA	N/A
Preferred option	X		

Commented [MM1]: Change to reflect ACTs for common segments

Option Summary

Preferred:

Option 1: Primary 3-phase extension. [redacted]

Other(s):

Option 2: Primary extension and upgrade switch. [redacted]

5. Project Schedule

Add any additional milestones that are pertinent to the project

Milestone/Phase Name	Estimated Date
Partial Approval	March 2025
100% Detailed Engineering Completion	2025
Fully Funded	2025
Construction Start	2025
In Service Date	December 2025

6. Regulatory Decisions

None

7. Codes and Standards

N/A

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	Medium	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	Low	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.	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	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	Medium	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?
A. Cost Estimate	*YES*
B. Geographic Map	*YES*
C. System and Station One-Lines	*NO*
D. Load Summary Sheet	*YES*

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Project Approval Form

Appendix A: Partial PAF

Project Title: New service [redacted]	**Project Number:CD02494**
Date Prepared: 11/28/2024	**Company:** Eversource CT
Organization: Distribution Engineering	**Project Category:** New Customer-ED
Project Initiator: [redacted]	**Project Type:** Specific
Initiating Organization: Distribution	**Capital Investment part of original Op Plan:** Yes
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: $353.7K	**Authorization Type:** Partial Funding

Executive Summary

This project has been established to accommodate an increase in capacity requested by [redacted] resulting from the addition of EV charging stations at their facility in [redacted]

NB-2 Contributions	Charges
Customer Contribution	$50K
CIAC @ 16%~~Customer Contribution~~	$8K~~$50K~~
Total Customer Contribution~~CIAC @ 16%~~	**$58K**~~$8K~~
~~**Total Customer Contribution**~~	~~**$58K**~~

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~~Under part B of the NB-12 calculations, the Anticipated Annual Distribution Company Revenue is estimated to be $42,264.00, for 240kW, and then over a period of 6.7 years the Anticipated Annual Distribution Company Revenue equals $283,168.80. A high-level construction cost to upgrade the distribution system of $353K exceeds the 6.7 times Anticipated Annual Revenue generated $283,168.80; therefore, the customer must pay a refundable advance equal to the difference between the construction costs and 6.7 times the anticipated annual revenue, or $70,532. However, the total NB-12 contribution that the customer is responsible for will be calculated once detailed design has been completed and full funding has been approved by the CPAC's committee.~~

~~Under Part C of NB-12, the customer is additionally responsible of providing an advance payment of the lower of either the construction cost or 6.7 times the anticipated Annual Distribution Company Revenue when there is a significant risk that the Company's new construction may not be used to the extent specified by the customer. Therefore, the customer is responsible to provide an advance payment of $283,168 + CIAC. The advance payment is derived from the 6.7 times the anticipated annual revenue. As aforementioned, the final contribution by the customer will be calculated after detailed design has been completed and this project has been approved by the CPAC committee.~~

~~NB-12 Contributions~~	~~Charges~~
~~Total Cost~~	~~$353.7K~~
~~Anticipated Annual Revenue~~	~~$42,264.16~~
~~Section A-NB-12 Revenue Amount for 900 KVA~~ ~~*6.7 Annual Revenue exceeds construction cost~~	~~$283,168.80~~
~~Section B-NB-12 Costs~~	~~$70,531.20~~
~~Section C-NB-12 Costs~~	~~$283,168.80~~

Division: Eastern

District: Danielson AW~~C~~

Town: Griswold

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Project Approval Form

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	23.0	0.0	0.0	23.0
Outside Services	65.0	0.0	0.0	65.0
Materials	73.6	0.0	0.0	73.6
Removals	50.8	0.0	0.0	50.8
Other	0.5	0.0	0.0	0.5
Risk and Contingency	0.0	0.0	0.0	0.0
Subtotal	**213.9**	**0.0**	**0.0**	**213.9**
-	-	-	-	-
Indirect Capital Costs	**2025**	**2026**	**2027**	**Total**
Indirects/Overheads (including benefits)	131.1	0.0	0.0	131.1
Capitalized interest or AFUDC, if any	8.7	0.0	0.0	8.7
Subtotal	**139.8**	**0.0**	**0.0**	**139.8**
-	-	-	-	-
Total Capital Costs (Gross)	**353.7**	**0.0**	**0.0**	**353.7**
Less Total Customer Contribution	**0.0**	**0.0**	**0.0**	**0.0**
Project Costs (Net)	**353.7**	**0.0**	**0.0**	**353.7**

Explain unique payment provisions, if applicable:

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Background, Project Need/Justification, and Project Scope

a. Background

[redacted] which is looking to add to their EV capability.

b. Project Need

[redacted]

c. Project Scope

The scope of this project is as follows:

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

Major materials:

- 900' of 3-phase 477 ACSR TW
- 280' 3-phase UG
- 5 poles with x-arm
- 3-phase pad-mount transformer

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Project Approval Form

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*	

Project Option Comparison

[redacted]

Additional Benefits (not required to meet scope of project)			
Distribution Capacity Increase		X	N/A
Authorization Type	Partial	Partial	N/A
Capital Cost	$353.7K	$506.9K	N/A
Expense Cost	$18.1K	$26.0K	N/A
Total Cost	$371.8K	$533.0K	N/A
Total Cost / MVA added	$413.2K/MVA	$592.2K/MVA	N/A
Preferred option	X		

Option Summary

Preferred:

Option 1: Primary 3-phase extension. [redacted]

Other(s):

Option 2: Primary extension and upgrade switch. [redacted]

Project Schedule

Add any additional milestones that are pertinent to the project

Milestone/Phase Name	Estimated Date
Partial Approval	March 2025
100% Detailed Engineering Completion	2025
Fully Funded	2025
Construction Start	2025
In Service Date	December 2025

Regulatory Decisions

None

Codes and Standards

N/A

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	Medium	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	Low	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.	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	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	Medium	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.

References

References
1.
2.
3.
4.
5.

Attachments (One Line Diagrams, Images, etc.)

Attachment	Included in Submittal?
A. Cost Estimate	*YES*
B. Geographic Map	*YES*
C. System and Station One-Lines	*NO*
D. Load Summary Sheet	*YES*

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Project Approval Form

One Line:

[redacted]

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Project Approval Form

Load Summary:



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Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD02494

New Service [redacted]

Work Classification

Category: Line
Type: NB1
Type Desc: SPECIFIC PROJECTS-NEW SRVCE
Work Type:

Ownership / Management

AWC: Danielson
Statewide: No
Owner: [redacted]
Manager:

Project Information

Status: Draft
SPS #:
AIS Score:
Associated Projects:
Assignment ID:
Patrol Find ID:

Budget Summary - Preferred Option

3-Phase Line Extension

2025

ID	Title	Status	Rev #	Contingency	Expenditure Amount	Net Estimate
1	3-Phase Extension	Draft	0	24%	$371,838	$371,838
				2025 Total:	$371,838	$371,838
				Total Project:	$371,838	$371,838

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD02494

New Service STA - EV Charging Griswold

Project Option Summary

ID	Description	Segments	Preliminary Estimate	Construction Estimate	Variance	IEEE $/CMS	All (w/Storm)	Prfrd
O1	3-Phase Line Extension	1	$371,838	$0	100%	$0.00	$0.00	☑
O2	Primary Ext and Upgrade Switch	1,2	$397,420	$0	100%	$0.00	$0.00	☐

Segments

ID	Title	Preliminary Estimate	Construction Estimate	Variance	IEEE $/CMS	All (w/Storm)
1	3-Phase Extension	$371,838			$0.00	$0.00
2	Upgrade Zone 1	$25,582			$0.00	$0.00
3	3P Ext No Veg	$232,644			$0.00	$0.00

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD02494

New Service STA - EV Charging Griswold

Background / Scope

Issue:

Project Description:

Other Considerations:

Revision / ACT Comments:

If we don't do this project, what will happen?

Environmental

Water Pollution: No Change Soil Contamination: No Change Natural Habitats: No Change

Alternatives considered based on Environmental Impact or Description of Aspects Oil Spill Risks Considered? ☐

Safety Concerns With This Project? ☐

Explain:

External Stakeholders

Customer Impact / Involvement

Cust. Impacted: Approx. Pole Count (NU):

Crit. Cust. Impacted: Approx. Pole Count (Other):

Adjoining Property Owner Consent Required: ☐ Town Hearing Required: ☐

Other Utility Pole Custodian Area: ☐ Easement Required: ☐

State Highway Permit Required: ☐

Relocation / New Service

New Srvc. Contact: Requestor Type:

Customer Type: State Highway Project #:

Request Number: Route #:

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Project Approval Form

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD02494
New Service [redacted]

Design Alternative CD02494-01

General Information

Segment: 1 - 3-Phase Extension
Status: Draft
Segment Type: NEW SERVICE
Town: GRISWOLD
Budget Year: 2025
Work Type: Other
Trimming Required: ☐
In Service Date: 12/31/2025
Description:

Itemized Work List

ID	Major Grid	Minor Grid	Description of Work to be Performed

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD02494
New Service [redacted]

Design Alternative CD02494-01

Estimate

Preliminary Estimate Summary

Revision Number:	0
Contingency:	24.00%
SubTotal:	$299,869
Contingency Amount:	$71,969
Estimate:	$371,838
Reimbursement:	$0
Net Amount:	**$371,838**
Description:	

Item Description	CU	$ / Per	Qty	Amount
SWITCHING OH/DB/UG - SWITCHING NonNetwork - Average	23-ALL17	[redacted]		$4,562.48
TRAFFIC OH/DB/UG - Traffic Control - Police Officer	23-ALL18			$25,287.00
OH WIRE OH - Line Extension - 3ph (336 kcmil)	23-OH33			$131,144.00
OH WIRE OH - Remove circuit wire (1 phase)	23-OH37			$2,808.00
XF OH - OH XF - 1ph	23-OH45			$2,742.48
TREE OH - Tree Trimming	23-OH61			$105,999.40
DB CABLE DB/UG - #1 - 3-1/C (3ph) Al	23-UG112			$11,065.60
XF DB/UG - Padmount XF - 3ph	23-UG131			$8,188.96
ENCLOSURE DB/UG - Transformer Pad/Handhole	23-UG143			$8,071.44

Associated / Impacted Devices

Status	Type / SysID	Street / Cross St	Structure / Town	Circuit	Map	Cust	Notes

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Project Approval Form

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD02494
New Service [redacted]

Design Alternative CD02494-02

General Information

Segment: 2 - Upgrade Zone 1 Status: Draft
Segment Type: OTHER Town: GRISWOLD Budget Year: 2025
Work Type: Other Trimming Required: ☐ In Service Date: 12/31/2025
Description:

Itemized Work List

ID	Major Grid	Minor Grid	Description of Work to be Performed

EVERSOURCE

Project Approval Form

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD02494
New Service [redacted]

Design Alternative CD02494-02

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	24.00%
SubTotal:	$20,631
Contingency Amount:	$4,951
Estimate:	$25,582
Reimbursement:	$0
Net Amount:	**$25,582**

Description:

Item Description	CU	$ / Per	Qty	Amount
SWITCHING OH/DB/UG - SWITCHING NonNetwork - Average	23-ALL17	[redacted]		$4,562.48
TRAFFIC OH/DB/UG - Traffic Control - Police Officer	23-ALL18			$2,700.00
SECTIONALIZE OH-Vertical Disconnect Switches-600/900 amp 3-1ph	23-OH43			$13,368.16

Associated / Impacted Devices

Status	Type / SysID		Notes
Existing	[redacted]	[redacted]	

Reliability Projection

Title:

Outage Start Date: 1/1/2007 Outage End Date: 10/30/2024 Years History: 17.84

[redacted]

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Project Approval Form

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD02494
New Service [redacted]

Design Alternative CD02494-03

General Information

Segment: 3 - 3P Ext No Veg
Status: Draft
Segment Type: NEW SERVICE
Town: GRISWOLD
Budget Year: 2025
Work Type: Other
Trimming Required: ☐
In Service Date: 12/31/2026
Description:

Itemized Work List

ID	Major Grid	Minor Grid	Description of Work to be Performed

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Project Approval Form

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD02494
New Service [redacted]

Design Alternative CD02494-03

Estimate

Preliminary Estimate Summary

Revision Number:	0
Contingency:	20.00%
SubTotal:	$193,870
Contingency Amount:	$38,774
Estimate:	$232,644
Reimbursement:	$0
Net Amount:	**$232,644**
Description:	

Item Description	CU	$ / Per	Qty	Amount
SWITCHING OH/DB/UG - SWITCHING NonNetwork - Average	23-ALL17	[redacted]		$4,562.48
TRAFFIC OH/DB/UG - Traffic Control - Police Officer	23-ALL18			$25,287.00
OH WIRE OH - Line Extension - 3ph (336 kcmil)	23-OH33			$131,144.00
OH WIRE OH - Remove circuit wire (1 phase)	23-OH37			$2,808.00
XF OH - OH XF - 1ph	23-OH45			$2,742.48
DB CABLE DB/UG - #1 - 3-1/C (3ph) Al	23-UG112			$11,065.60
XF DB/UG - Padmount XF - 3ph	23-UG131			$8,188.96
ENCLOSURE DB/UG - Transformer Pad/Handhole	23-UG143			$8,071.44

Associated / Impacted Devices

Status	[redacted]	Notes
Existing		

Reliability Projection

Title:

Outage Start Date: 1/1/2007 Outage End Date: 1/14/2025 Years History: 18.05

[redacted]

Asset & Investment Management System 4/10/2025 Page 9 of 9

Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.3