EVERSOURCE

Project Approval Form

Project Title: CTEC Solar LLC, [redacted], Suffield	**Project Number:** CD02428
Date Prepared: 09/24/2025	**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:** 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: $424.4 (100% Reimbursable)	**Authorization Type:** Full Funding

1. Executive Summary

CTEC Solar LLC is proposing an 875 KW photovoltaic (PV) project, located on [redacted] off [redacted], Suffield, CT.

- The project will interconnect to the [redacted] feeder at 23kV.
- This new solar installation project includes:
  - A new junction pole #19760 off [redacted] that will install a [redacted] extension of three phase 477 TW,
  - A radial recloser to isolate the DER site.
  - Parts of Hill Street will be converted from 4.8kV to 23kV by removing the three step down transformers on pole 17677 as well as replacing the associated fuses with a radial recloser.
  - Three new 167kVA 23/4.8kV step down transformers will be installed downstream of the project.
  - The step-up transformer on pole 4804 will be removed.
  - The primary meter pole will mark the point in change in ownership from Eversource to the customer.

- Project Location
  - Division: Central
  - District: Tolland AWC
  - City/Town: Suffield

The partial funding estimate for this project was $510.6K and was approved at the 2/13/2025 CTPAC. The full funding request is $424.4K, a difference in cost of $86.2K, or decrease of 17%. There was no change in scope to the project.

The difference between the partial and full funding estimates is due to the use of Eversource crews instead of Contractor crews. This factor was partially offset by an increase of approximately $20K in material cost.

2. Project Cost Summary

Note: Dollar values are in thousands.

Capital Costs	2025	Total
Internal Labor and Construction Equipment	52.9	52.9
Outside Services	3.7	3.7
Materials	121.9	121.9
Removals	5.8	5.8
Risk and Contingency	29.6	29.6
Other	0.0	0.0
Subtotal	**213.9**	**213.9**

Indirect Capital Costs	2025	Total
Indirects/Overheads (including benefits)	210.5	210.5
Capitalized interest or AFUDC, if any	0.0	0.0
Subtotal	**210.5**	**210.5**
Total Capital Costs (Gross)	**424.4**	**424.4**
Less Total Customer Contribution	**424.4**	**424.4**
Project Costs (Net of Reimbursement)	**0**	**0**

3. Technical Justification

Background, Project Need/Justification, and Project Scope

a. Background

CTEC Solar LLC is proposing an 875 KW photovoltaic (PV) project, located on [redacted] in Suffield, CT. The project will interconnect to the [redacted]

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

CTEC Solar LLC is proposing an 875 KW photovoltaic (PV) project, located on [redacted] Suffield, CT. The project will interconnect to the [redacted] at 23kV. This is a new service project which will consist of a [redacted]. The scope of work includes a new junction pole #19760 off [redacted], a [redacted] extension of three phase 477 TW, and a radial recloser to isolate the [redacted]. Furthermore, the 23/4.8kV step down on pole 17677 on [redacted] will be moved down stream of the project to convert the circuit to 23kV up to the project point of interconnect. The step-up transformer off [redacted] will be removed and an additional radial recloser will be installed near pole 17677 to replace the fuses that isolate [redacted]. The primary meter pole will mark the point in change in ownership from Eversource to the customer.

4. Alternatives Considered

NWS Exclusion Criteria (select all that apply)

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

Based on the proposed site plan provided by CTEC Solar LLC, the request was to interconnect to Hill Street. There were no other circuits nearby based on the point of interconnection.

5. Project Schedule

Milestone/Phase Name	Estimated Date
Issuance of Interconnection Agreement	06/28/2024
Partial Approval	2/13/2025
100% Detailed Engineering Completion	9/30/2025
Fully Funded	10/9/2025
Construction Start	11/01/2025
In Service Date	12/31/2025

6. Regulatory Decisions

N/A

7. Codes and Standards

N/A

8. Risk and Contingencies

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. The new service is a standard design.

Customer Permission / Siting Council / Municipal approvals	2024/2025	Medium	New service requires limited easement, and most Eversource facilities will be street side.
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	Low	Plan internal resources to perform the work.
Materials Shortage or long lead times	2025	Low	Pre-order long lead time material; minimize the use of non-standard and non-stocked material.
Storm delays	2025	Low	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	The new service poles/equipment will require a limited easement to the customer's site and is not anticipated to go in wetlands.

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. Partial Funding PAF	*YES*

Attachment A - Partial Funding PAF

Project Title: CTEC Solar LLC, [redacted], Suffield	**Project Number:** CD02428
Date Prepared: 06/12/2024	**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: 12/31/2025	
Total Capital Request: $510,600 (100% Reimbursable)	**Authorization Type: Partial Funding**

Executive Summary

The purpose of this request is to approve the 100% reimbursable partial funding capital request of $510,600. This preliminary engineering estimate includes a 24% contingency for a projected December 2025 in service date. The total gross capital does not include the CIAC tax or witness test cost. The full CIAC cost to be presented to the customer in an IA is $624,749.

CTEC Solar LLC is proposing an 875 KW photovoltaic (PV) project, located on [redacted], Suffield, CT. The project will interconnect to the [redacted] eeder at 23kV. This is a new service project which will consist of a recloser, RTAC, primary meter, voltage conversion and junction pole. The scope of work includes a new junction pole #19760 off [redacted] that will install a [redacted] of three phase 477 TW, and a radial recloser to isolate the DER site. Parts of [redacted] will be converted from 4.8kV to 23kV by removing the three step down transformers on pole 17677 as well as replacing the associated fuses with a radial recloser. Additionally, three new 167kVA 23/4.8kV step down transformers will be installed downstream of the project. The step-up transformer on pole 4804 will be removed as well. The primary meter pole will mark the point in change in ownership from Eversource to the customer.

1. 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	33.2	0.0	0.0	33.2
Outside Services	95.2	0.0	0.0	95.2
Materials	106.3	0.0	0.0	106.3
Removals	73.3	0.0	0.0	73.3
Risk and Contingency	0.7	0.0	0.0	0.7
Other	0.0	0.0	0.0	0.0
Subtotal – Direct Costs	**308.8**	**0.0**	**0.0**	**308.8**
Indirect Capital Costs				
Indirect/Overheads (including benefits)	189.3	0.0	0.0	189.3
Capitalized interest or AFUDC, if any	12.6	0.0	0.0	12.6
Subtotal – Indirect Costs	**201.8**	**0.0**	**0.0**	**201.8**
Total Gross Capital Costs	**510.6**	**0.0**	**0.0**	**510.6**
Customer Contribution	**-510.6**	**0.0**	**0.0**	**-510.6**
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 witness test fee.

Distribution cost Including O&M	$536,853
CIAC – Tax 16%	$85,896
Total Distribution cost	$622,749
Witness Test	$2,000
TOTAL Customer Contribution in Aide of Construction **paid by customer**	**$624,749**

2. Technical Justification

Background, Project Need/Justification, and Project Scope

a. Background

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

CTEC Solar LLC is proposing an 875 KW photovoltaic (PV) project, located on [redacted] off [redacted], Suffield, CT. The project will interconnect to the [redacted] at 23kV. This is a new service project which will consist of a recloser, RTAC, primary meter, and junction pole. The scope of work includes a new junction pole #19760 off [redacted], a [redacted] extension of three phase 477 TW, and a radial recloser to isolate the [redacted]. Furthermore, the 23/4.8kV step down on pole 17677 on [redacted] will be moved down stream of the project to convert the circuit to 23kV up to the project point of interconnect. The step-up transformer off [redacted] will be removed and an additional radial recloser will be installed near pole 17677 to replace the fuses that isolate [redacted]. The primary meter pole will mark the point in change in ownership from Eversource to the customer.

3. Alternatives Considered

Based on the proposed site plan provided by CTEC Solar LLC, the request was to interconnect to Hill Street. There were no other circuits nearby based on the point of interconnection.

4. Project Schedule

Milestone/Phase Name	Estimated Date
Partial Approval	6/20/2024
Issuance of Interconnection Agreement	06/28/2024

Milestone/Phase Name	Estimated Date
100% Detailed Engineering Completion	12/30/2024
Fully Funded	09/31/2024
Construction Start	04/01/2025
In Service Date	12/31/2025

5. Regulatory Decisions

N/A

6. Codes and Standards

See Section 8 below.

7. Risk and Contingencies

Contingencies: A standard 24% contingency was added for a proposed 2025 in service date.

Risk Mitigation: No additional dollars were added for risk as the scope of work is straightforward.

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. The new service is a standard design.
Customer Permission / Siting Council / Municipal approvals	2024/2025	Medium	New service requires limited easement, and most Eversource facilities will be street side.
Internal construction resources not	2025	Medium	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.

available to perform the work.			
Internal engineering resources not available to perform the work.	2024	Low	Plan internal resources to perform the work.
Materials Shortage or long lead times	2025	Low	Pre-order long lead time material; minimize the use of non-standard and non-stocked material.
Storm delays	2025	Low	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	The new service poles/equipment will require a limited easement to the customer's site and is not anticipated to go in wetlands.

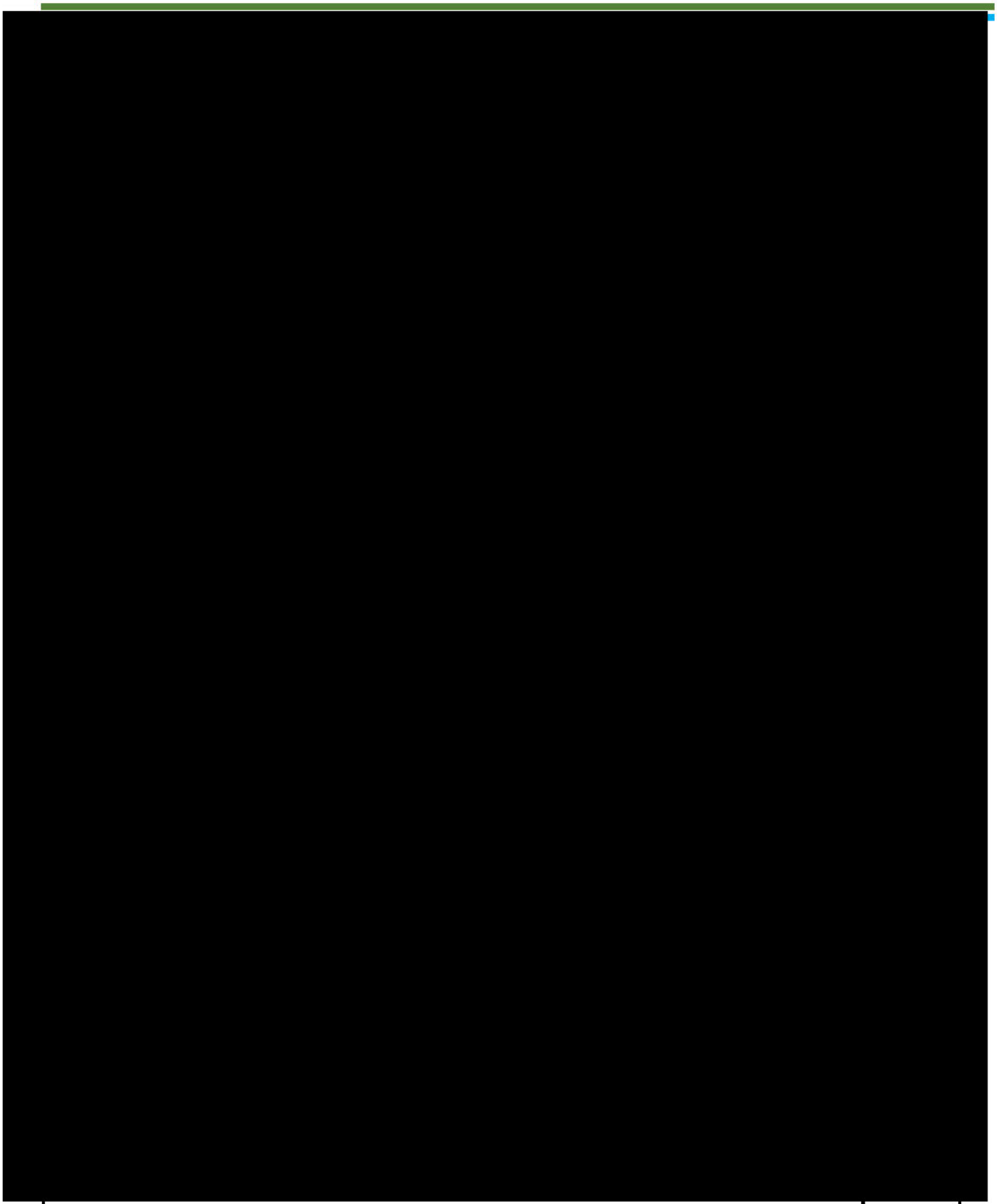
8. References

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1. DSEM- Distributed Generation- Remote monitoring and control- 7.0
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3. DSEM- New Service- NB-3-7a

4. DER Planning Guide

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

Attachment	Included in Submittal ?
B. Cost Estimate	*YES*
[redacted]	
C. Geographic Map	*YES*



E. Project SLD	

