EVERSOURCE

Project Approval Form

Project Title: [redacted]hamberlain Highway	**Project Number:** CD02028
Date Prepared: 04/24/2025	**Company:** Eversource CT
Organization: Distribution Engineering	**Project Category:** Generation/Interconnection
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: 12/31/25	**NWS Excludable:** ☒ Yes ☐ No
Total Capital Request: $399.9K; 100% Reimbursable	**Authorization Type:** Full Funding

1. Executive Summary

Full funding is being requested for this project at a cost of $399.9K which is 117% of the partial funding capital estimate of $342.9K. The estimated in-service date is December 31, 2025. 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 tree trimming and additional testing of spending in the project.

The original project was presented as follows:

[redacted]s proposing a 0.999 MW photovoltaic (PV) generator on Chamberlain Highway, Berlin CT [redacted] A distribution impact study determined the proposed generator has no negative impact on voltage or thermal violations on the distribution system. The generator does not cause any flicker or rapid voltage change at the point of interconnection or anywhere on the [redacted]

2. Project Cost Summary

Note: Dollar values are in thousands.

Capital Costs	Year 2025	Year 2026	Year 2027	Total
Direct Capital Costs	0	0.0	0.0	0
Internal Labor and Construction Equipment	23.7	0.0	0.0	23.7
Outside Services	128.8	0.0	0.0	128.8
Materials	52.5	0.0	0.0	52.5
Removals	53.5	0.0	0.0	53.5
Risk and Contingency	2.6	0.0	0.0	2.6
Other	0.0	0.0	0.0	0.0
Subtotal – Direct Costs	261.1	0.0	0.0	261.1
Indirect Capital Costs				
Indirect/Overheads (including benefits)	138.4	0.0	0.0	138.4
Capitalized interest or AFUDC, if any	0.0	0.0	0.0	0.0
Subtotal – Indirect Costs	138.4	0.0	0.0	138.4
Total Gross Capital Costs	399.5	0.0	0.0	399.5
Customer Contribution	-399.5	0.0	0.0	-399.5
Total Net Capital Project Costs	0.0	0.0	0.0	0.0

Explain unique payment provisions, if applicable

Distribution cost including O&M	$382,489
CIAC Tax: 16%	$61,198
Total Distribution cost	$443,687
Witness Test	$2,000
TOTAL Customer Contribution in Aide of Construction. **To be paid by customer**	$445,687

3. Technical Justification

Background, Project Need/Justification, and Project Scope

a. Background

The DER applicant is proposing a photovoltaic generator connecting to the [redacted] at the corner of Chamberlain Highway and Butler Street in Berlin, CT. The customer will be responsible for all electrical design on the load side of the Eversource-owned primary meter.

An impact study was performed to study the effect of this generator on the [redacted] All generation online or in queue ahead of the proposed generator was included in the impact study. [redacted]

b. Project Need

The DER customer, TRITEC has requested Eversource to determine the impact of the generator on the electric power system. [redacted]. The new services will only benefit the DER customer and will allow the customer to access the Eversource EPS. All equipment downstream of the primary meter will be owned and operated by the customer.

The goal of this project is to install new service to allow the generator to export power to the distribution system.

c. Project Scope

Install three new poles

- [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)

Option Summary

Preferred: Project is a compliance obligation - no alternatives considered – no financial benefit.

5. Project Schedule

Add any additional milestones that are pertinent to the project

Milestone/Phase Name	Estimated Date
Partial Approval	05/09/2024
100% Detailed Engineering Completion	12/09/2024
Fully Funded	05/15/2025
Construction Start	06/31/2025
In Service Date	12/31/2025

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	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	Low	Design to minimize customer impact. Project Preplanning and customer/community outreach.
Internal construction resources not available to perform the work.	2025	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	Low	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
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	Medium	Use of mats and specialty equipment, only work during certain times of the year.

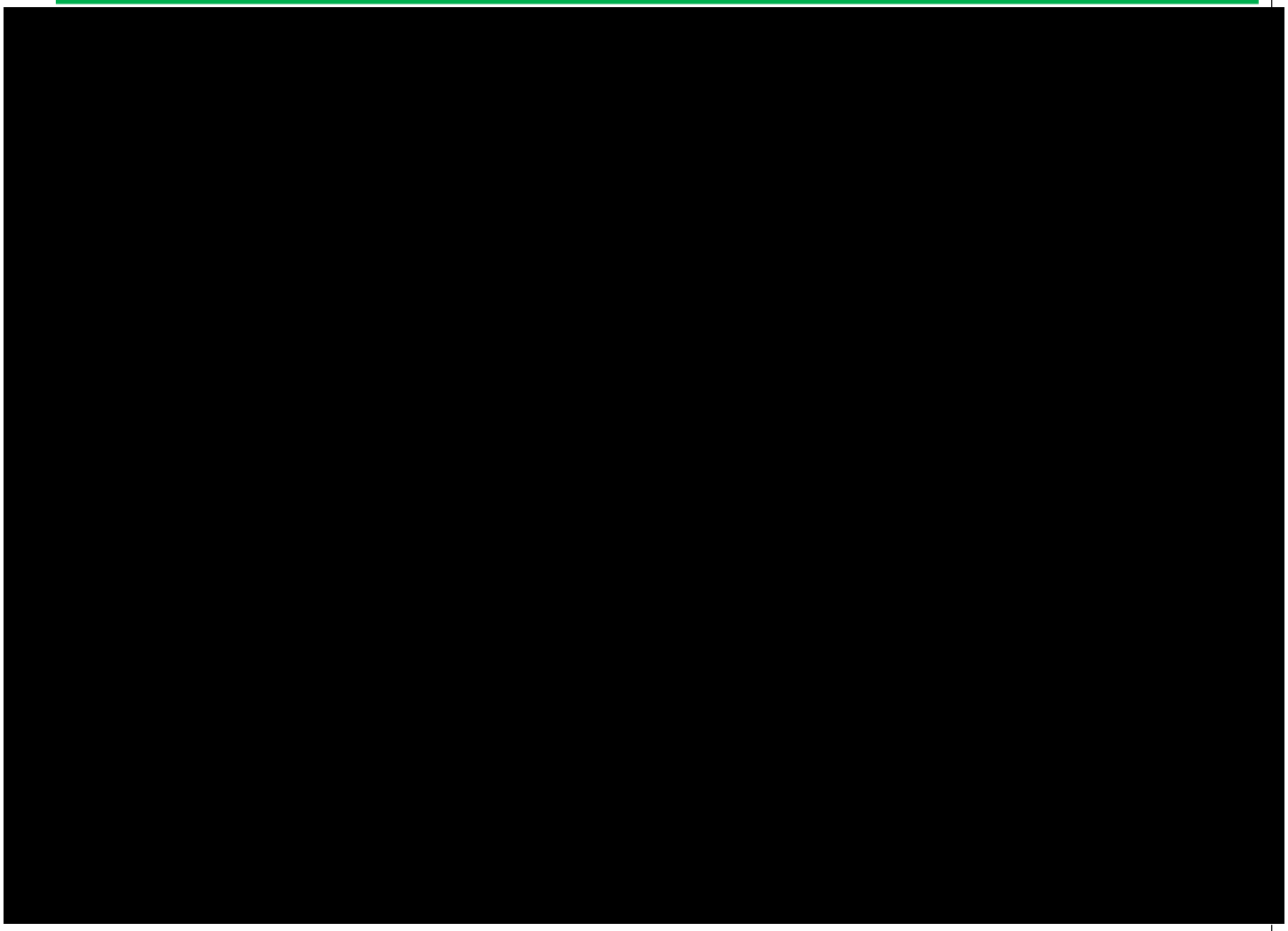
9. References

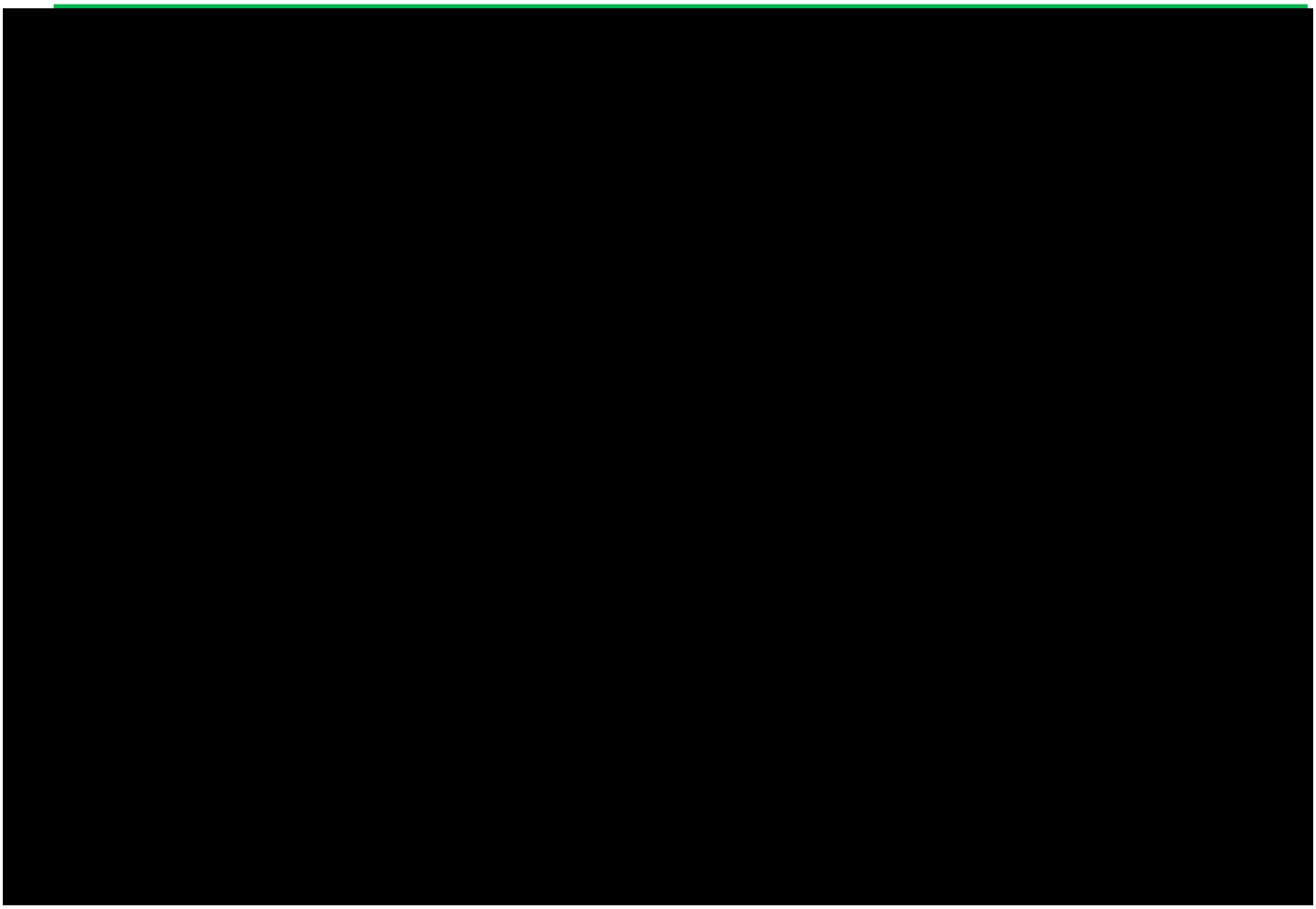
References
1.
2.
3.
4.
5.

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

A. Site Plan	*YES*
B. Customer Single Line Diagram	*YES*
C. DER Project Form	*YES*
D. Partial Funding Form	*YES*

[redacted]







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Project Title: [redacted]hamberlain Highway	**Project Number:** CD02028
Date Prepared: 04/12/2024	**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: 12/31/2025	
Total Capital Request: $342.9k *100% Reimbursable	**Authorization Type:** Partial Funding

1. Executive Summary

The purpose of this funding request is to approve the 100% reimbursable preliminary estimate of $445,687 for [redacted]Berlin, Chamberlain Highway. The estimated in service date is December 31, 2025. The preliminary estimate also includes CIAC and witness test fees. The total capital request is $342.9k.

[redacted]s proposing a 0.999 MW photovoltaic (PV) generator on Chamberlain Highway, Berlin CT connecting to the [redacted] A distribution impact study determined the proposed generator has no negative impact on voltage or thermal violations on the distribution system. [redacted]

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2. Project Cost Summary

Capital Costs	Year 2025	Year 2026	Year 2027+	Total
Direct Capital Costs				
Internal Labor and Construction Equipment	20.4	0.0	0.0	20.4
Outside Services	110.5	0.0	0.0	110.5
Materials	45.0	0.0	0.0	45.0
Removals	46.0	0.0	0.0	46.0
Risk and Contingency	2.2	0.0	0.0	2.2
Other	0.0	0.0	0.0	0.0
Subtotal – Direct Costs	**224.1**	**0.0**	**0.0**	**224.1**
Indirect Capital Costs				
Indirect/Overheads (including benefits)	111.4	0.0	0.0	111.4
Capitalized interest or AFUDC, if any	7.4	0.0	0.0	7.4
Subtotal – Indirect Costs	**118.8**	**0.0**	**0.0**	**118.8**
Total Gross Capital Costs	**342.9**	**0.0**	**0.0**	**342.9**
Customer Contribution	**-342.9**	**0.0**	**0.0**	**-342.9**
Total Net Capital Project Costs	**0.0**	**0.0**	**0.0**	**0.0**

Distribution cost including O&M	$382,489
CIAC Tax: 16%	$61,198
Total Distribution cost	$443,687
Witness Test	$2,000
TOTAL Customer Contribution in Aide of Construction. paid by customer	$445,687

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3. Technical Justification

Background, Project Need/Justification, and Project Scope

a. Background

The DER applicant is proposing a photovoltaic generator connecting to the [redacted] at the corner of Chamberlain Highway and Butler Street in Berlin, CT. The customer will be responsible for all electrical design on the load side of the Eversource-owned primary meter.

[redacted]

b. Project Need

The DER customer [redacted] has requested Eversource to determine the impact of the generator on the electric power system. [redacted] All equipment downstream of the primary meter will be owned and operated by the customer.

The goal of this project is to install new service to allow the generator to export power to the distribution system.

c. Project Scope

[redacted]

4. Alternatives Considered

Project is a compliance obligation - no alternatives considered - no financial benefit

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5. Project Schedule

Milestone/Phase Name	Estimated Date
Preliminary Engineering	05/09/2024
Detailed Design	TBD
Construction	6/31/2025
Anticipated In Service Date	12/31/2025

6. Regulatory Decisions

No regulatory body approvals are needed for this project.

7. Codes and Standards

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

8. Risk and Contingencies

Contingencies: The cost estimate includes a 24% contingency

Risk Mitigation: No dollars were allocated for risk. Risk is expected to be minimal.

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2026	Low	The 24% contingency is included in the cost. Additionally, this is a standard design with no complications to increase cost

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Customer Permission / Siting Council / Municipal approvals/ Wetlands Permitting	2026	Low	Eversource requires limited easement.
Internal construction resources not available to perform the work.	2026	Low	The proposed in service date is 12/31/2025 which is twenty months away
Internal engineering resources not available to perform the work.	2026	Low	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Materials Shortage or long lead times	2026	Low	Pre-order long lead time material; minimize the use of non-standard and non-stocked material. All equipment will be standard.
Storm delays	2026	Low	If storm activity delays work, we may be forced to use external resources.
System abnormal configuration	2026	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	2026	Low	Before use of new technology ensure support of standards and manufacture. Schedule project to accommodate for extra time or ensure new technology is not on the critical path. All equipment to be installed is approved by Standards.
Wetlands / Environmentally sensitive area	2026	Low	The new service requires limited access to the customer's property and is not expected to affect any wetlands.

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9. References

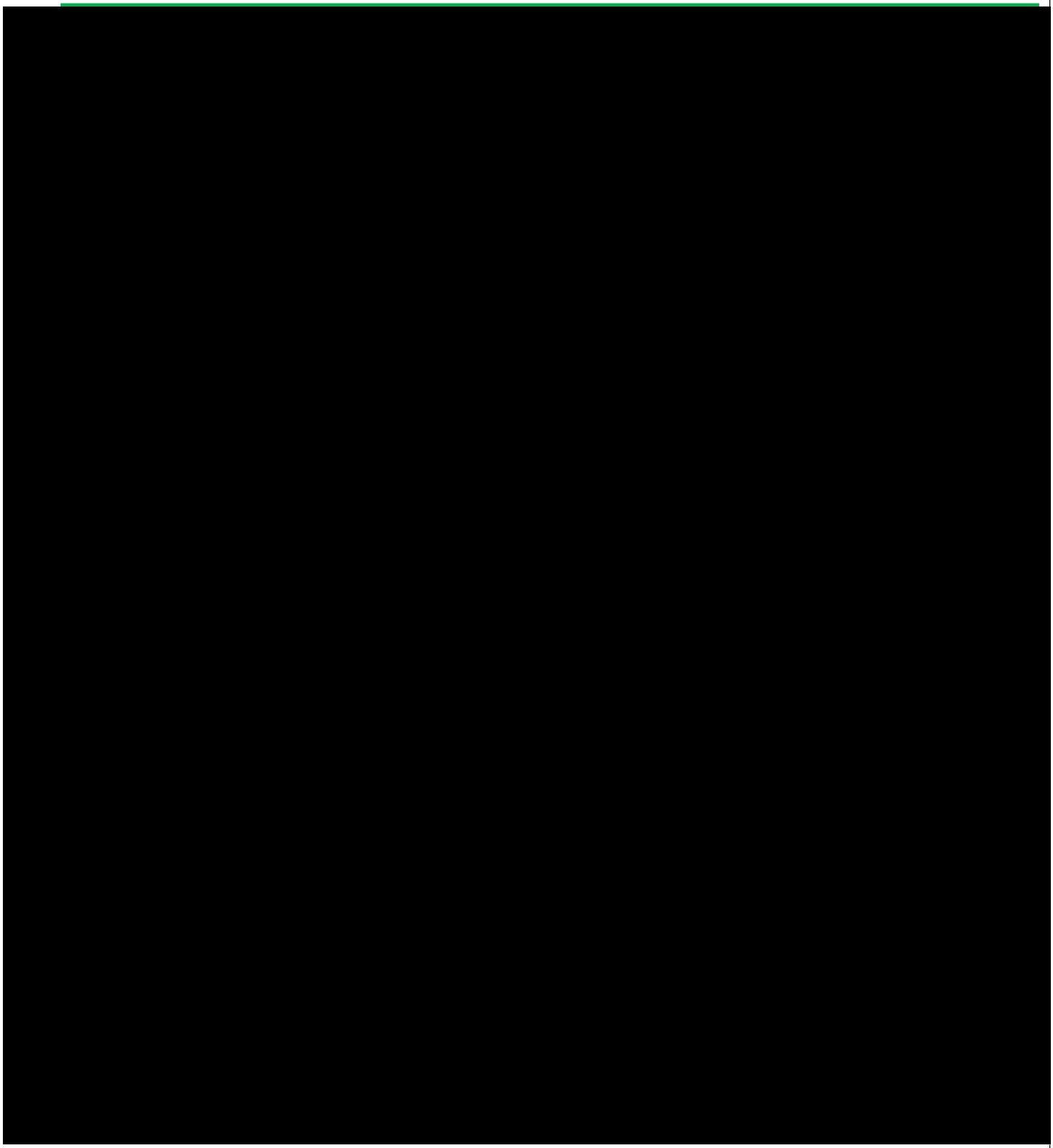
References
1. DSEM- Distributed Generation- Remote monitoring and control- 7.0
2. DSEM- Distributed Generation- General Standards- Large scale DER 1.4.1
3. DSEM- New Service- NB-3-7a

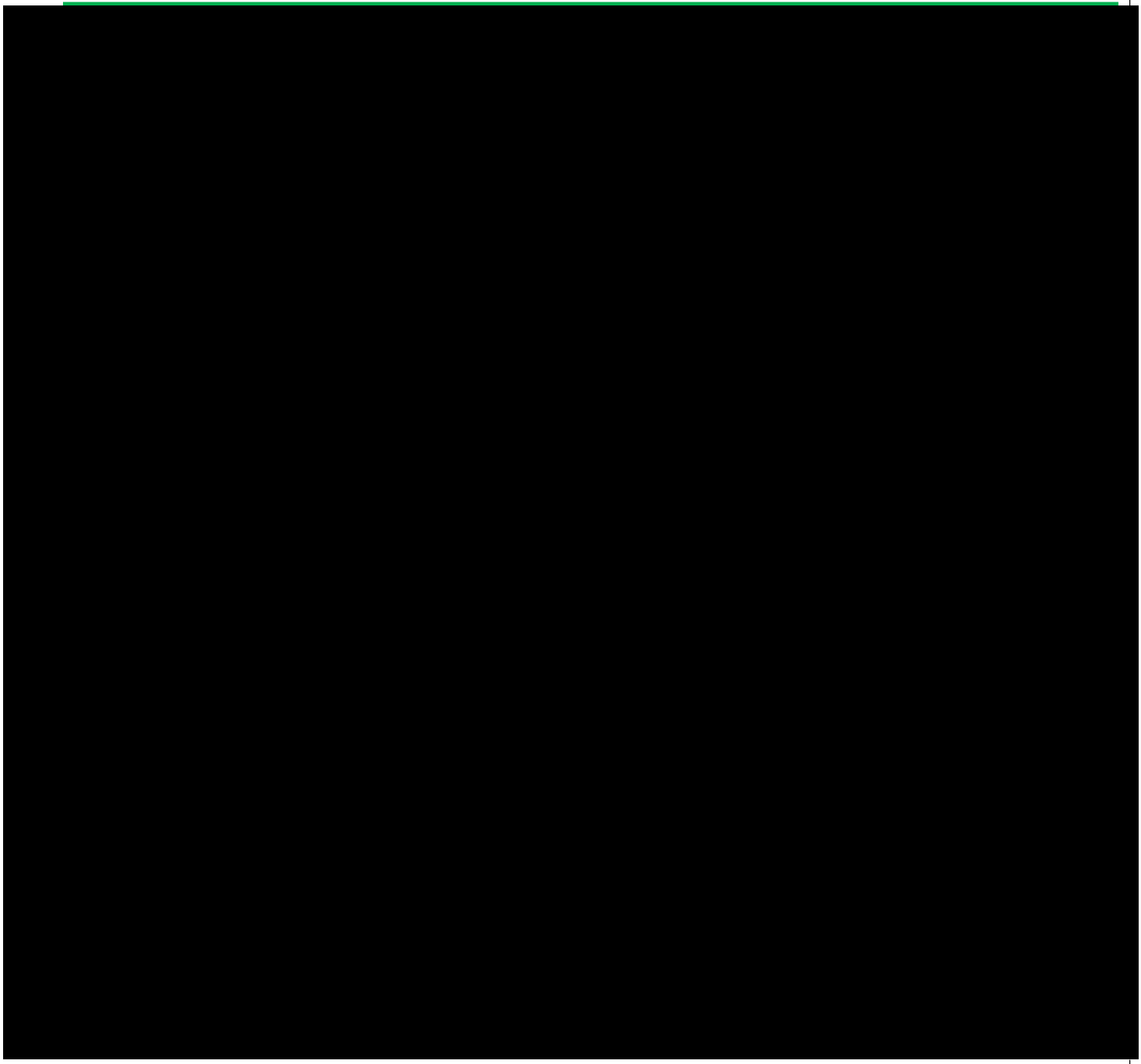
10. Attachments (One Line Diagrams, Images, etc.)

Attachment	Included in Submittal?
A. Site Plan	*YES*
B. Customer Single Line Diagram	*YES*
C. DER Project Form	*YES*









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