# Operations Project Authorization Form

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|---|---|
| **Project Title:** [redacted] **Beacon Falls** | **Project Number: CD01861** |
| **Date Prepared:** 03/31/2022 | **Company:** Eversource CT |
| **Organization:** EFO | **Class(es) of Plant:** D Line |
| **Project Initiator:** [redacted] | **Project Category:** Distributed Generation |
| **Project Manager:** [redacted] | **Project Type:** Specific |
| **Project Sponsor:** [redacted] | **Capital Investment part of original Operating Plan:** No |
| **Estimated in service date: 12/31/2022** | **Emergency Related Request?** No |
| **Eng./Constr. Resources Budgeted?** No | **Facility Type** (check all that apply)**:** ☐ PTF ☐ non-PTF ■ Distribution |
| **Total Gross Capital Request: $140,287 (100% Reimbursable)** | **Authorization Type:** Full Funding |

## Executive Summary

The purpose of this request is to approve the ENG estimate of $140,287 (100% reimbursable). Additional costs including but not limited to CIAC and O&M will be added to the Interconnection Agreement. Refer to Appendix A for distribution cost breakdown and additional costs. The projected in-service date is December 31st, 2022.

[redacted] is proposing a 750-kW photovoltaic (PV) project, located at [redacted] Beacon Falls [redacted]. The customer will need a new three phase service with one primary meter and recloser.

[redacted]

Appendix 2
Operations Project Authorization Form

## Project Costs Summary

*See APS3 and APS8 requirements and consult with Plant Accounting for capital/O&M determination. Use published loaders for benefits, materials, and invoices, maintained by the Director, Budget and Internal Reporting.*
*Note: Dollar values are in thousands*

| Capital Costs | Year 2022 | Year 2023 | Year 2024+ | Total |
|---|---|---|---|---|
| **Direct Capital Costs** | | | | |
| Internal Labor and Construction Equipment | $2,874 | $0 | $0 | $2,874 |
| Outside Services | $71,293 | $0 | $0 | $71,293 |
| Materials | $7,699 | $0 | $0 | $7,699 |
| Removals | $3,118 | $0 | $0 | $3,118 |
| Risk and Contingency | ($355) | $0 | $0 | ($355) |
| Other | $0 | $0 | $0 | $0 |
| Subtotal | **$84,629** | **$0** | **$0** | **$84,629** |
| **Indirect Capital Costs** | | | | |
| Indirect/Overheads (including benefits) | $55,658 | $0 | $0 | $55,658 |
| Capitalized interest or AFUDC if any | $0 | $0 | $0 | $0 |
| Subtotal | **$55,658** | **$0** | **$0** | **$55,658** |
| Total Customer Contribution | **($147,165)** | **$0** | **$0** | **($147,165)** |
| **Total Capital Project Costs** | **$140,287** | **$0** | **$0** | **$140,287** |

## Technical Justification:

### Project Need, Objective and Justification

The customer will need a new three phase service consisting of a primary meter and recloser. The items located down in the major material section will need to be secured.

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.

### Project Scope

[redacted]

Appendix 2
Operations Project Authorization Form

Background

The DER applicant is proposing a new three phase service to interconnect the proposed 750 kW PV generator at [redacted]

**Alternatives Considered:**
*Were alternative solutions considered/applicable? Include any cost/benefit analysis.*

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

**Regulatory Approvals:**
*Are Regulatory body approvals needed for the project?*
No

If yes, provide detailed regulatory approvals

**Project Schedule**

| Milestone/Phase Name | Estimated Date |
|---|---|
| 100% Engineering Completion | 4/7/2022 |
| Construction Start | 6/30/2022 |
| Testing/Commissioning | 9/30/2022 |
| In Service Date | 12/31/2022 |

**Risks and Risk Mitigation Plans**
*List top risks and mitigation plans associated with this project. Include any contingency related to each risk. (Permitting/siting; environmental; outage constraints; customer/community outreach; material delivery; constructability challenges; excavation; etc.)*

| Risk Event | Risk Horizon | Likelihood of Occurrence | Risk Mitigation |
|---|---|---|---|
| Actual cost higher than estimated due to scope changes. | 2022 | Low | Included contingency costs in the funding request. Additionally, a facility study to get a construction grade estimate may be performed by internal engineering resources. The risk will go down if a facility study is performed. |
| Customer Permission / Siting Council / Municipal approvals/ Wetlands Permitting | 2022 | Low | Limited easements will be needed as the ES facilities are street side where Eversource already has existing facilities |
| Internal construction resources not available to perform the work. | 2022 | Medium | Plan internal resources to perform the work. The Project ISD is almost a year out and the work is not that extensive. |
| Internal engineering resources not available to perform the work. | 2022 | Low | Plan internal resources to perform the work. Facility study, if performed, is expected to be performed in house. |
| Materials Shortage or long lead times | 2022 | Low | Pre-order long lead time material; minimize the use of non-standard and non-stocked material. |
| Storm delays | 2022 | Medium | If storm activity delays work, we may be forced to use external resources. |
| System abnormal configuration | 2022 | 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 | 2022 | 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 | 2022 | Low | There should be no wetlands or environmentally sensitive areas. Customer service will also be close to the road with limited easement onto the property. |

## Appendix A

1- Project unit cost spreadsheet



CD01861_project_needs_statement - rev 3

2- Cost distribution:

| | |
|---|---|
| Distribution cost | $147,165 |
| Witness Test | $2,000 |
| Substation Work | $0 |
| CIAC | $13,244 |
| **TOTAL COST** | **$162,409** |

## References

## Appendices (One-Line Diagrams, Images, etc.)

*Reference appendices items in the appropriate section of the PAF and list items in the same order as referenced in the PAF*

CD01861 - [redacted] Lopus Rd. - rev. 3-25-

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