Operations Project Authorization Form

Date Prepared: October 30th, 2019	**Project Title:** [redacted]
Company/ies: Eversource CT	**Project ID Number:** CD01431
Organization: Distribution Electric	**Class(es) of Plant:** Distribution
Project Initiator: [redacted]	**Project Category:** Distributed Generation
Project Manager: [redacted]	**Project Type:** Specific
Project Sponsor: [redacted]	**Project Purpose:** Distributed Generation New Service
Estimated in service date: July 2, 2021	**If Transmission Project: PTF?** N/A
Eng. /Constr. Resources Budgeted? No	**Capital Investment Part of Original Operating Plan?**
Authorization Type: Preliminary	**O&M Expenses Part of the Original Operating Plan?**
Total Request: $360,000	

Financial Requirements:

Project Authorization

ERM: _____

FP&A: _____

Executive Summary

[redacted] is proposing an aggregate photovoltaic site of 1968 kW, operating at unity power factor. The site will consist of eight 246 kW parcels each with their own designated primary metering. The solar farm will be located at [redacted] on the [redacted] The proposed [redacted] facility [redacted]. Eversource DER Planning will prescribe the project a standard ramp rate to prevent any flicker concerns.

Project Costs Summary

	Prior Authorized	2021	2022	2023+	Totals
Capital Additions - Direct	$0	$205,529	$0	$0	$205,529
Less Customer Contribution	$0	$0	$0	$0	$0
Removals net of Salvage ____%	$0	$4,869	$0	$0	$4,869
Total - Direct Spending	$0	$210,398	$0	$0	$210,398
Capital Additions - Indirect	$0	$131,804	$0	$0	$131,804
Subtotal Request	$0	$342,202	$0	$0	$342,202
AFUDC	$0	$4,105	$0	$0	$4,105
Total Capital Request	$0	$346,307	$0	$0	$346,307
O&M	$0	$13,693	$0	$0	$13,693
Total Request	$0	$360,000	$0	$0	$360,000

Financial Evaluation

Direct Capital Costs	Year 1	Year 2	Year 3+	Total
Straight Time Labor	$31,181	$0	$0	$31,181
Overtime Labor	$8,472	$0	$0	$8,472
Outside Services	$27,075	$0	$0	$27,075
Materials	$142,835	$0	$0	$142,835
Other, including contingency amounts (describe)	$834	$0	$0	$834
Total Direct Costs	**$210,398**	**$0**	**$0**	**$210,398**

Indirect Capital Costs	Year 1	Year 2	Year 3+	Total
Indirects/Overheads (including benefits)	$131,804	$0	$0	$131,804
Capitalized interest or AFUDC, if any	$3,947	$0	$0	$3,947
Total Indirect Costs	**$135,751**	**$0**	**$0**	**$135,751**
Total Capital Costs	**$346,149**	**$0**	**$0**	**$346,149**
Less Total Customer Contribution	**$360,000**	**$0**	**$0**	**$360,000**
Total Capital Project Costs	**($13,851)**	**$0**	**$0**	**($13,851)**
Total O&M Project Costs	**$13,851**	**$0**	**$0**	**$13,851**

Note: Explain unique payment provisions, if applicable

Technical Justification:

Project Need Statement

The DER customer [redacted] has requested to [redacted]. [redacted]

This new service project authorization form is proposing to install two new poles for service. One pole will be for the new service and one pole will be for a site-dedicated recloser. The rest of the new service equipment will be eight primary meters; one for each of the 246 kW parcels. The new service will only

benefit the DER customer and will allow the customer access to the Eversource electric power system to provide clean, photovoltaic electricity.

Project Objectives

The goal of this project is to provide new service to the DER applicant to allow their generator to interconnect to the Eversource EPS. This project proposes the installation of two new poles for service, a site-dedicated recloser, and eight individual primary meters.

Project Scope

New Service

New service poles will be needed to provide electrical service from the Eversource [redacted] to the proposed solar farm at [redacted]. The new service will likely [redacted]. The new service will also consist of one site-dedicated recloser and eight individual primary meters. The change of point of ownership occurs on the load side of the Eversource owned primary meter.

Major Material:

[redacted]

Background / Justification

The DER applicant is proposing a new service at their photovoltaic facility located at [redacted], [redacted]. There is currently no electrical service to the proposed solar farm. The customer proposed underground trenching through their field to interconnect the solar farm. However, it is Eversource preference to stop ownership at the load side of the primary meter and have the customer be responsible for downstream connectivity.

Business Process and / or Technical Improvements:

This proposal will allow for the interconnection of clean, photovoltaic power and will allow the DER applicant to interconnect to the Eversource EPS and fulfill their ZREC requirements. There is currently no electrical services to the proposed solar farm.

Alternatives Considered with Cost Estimates

There are currently no alternate circuits that could interconnect the proposed DG. Based on Eversource standards, the proposed new service design is typical of what Eversource field engineering would procure.

Project Schedule

Milestone/Phase Name	Estimated Completion Date
Preliminary Engineering	10/31/2019
Detailed Design	TBD
Construction	01/02/2021
Anticipated In Service Date	07/02/2021

Regulatory Approvals

N/A and not anticipated at this time.

Risks and Risk Mitigation Plans

N/A, we expect the customer to go to construction.

References

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