Application Number	
Fees Preliminary	Pd
Fees Final	Pd

Town of Waldoboro

Site	Plan	Review	and	Subdivision	n Ordinance	Preliminary	Application
							FF

(Please Type or Print)

Type of Application:	X Site Plan Review (preapp)	Subdivision Ordinance
Shoreland Zone	Flood Plain	Hazardous Materials

Brief description of proposed project: Ground mounted solar array. Please see attached narrative description

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Address: _~489 Mank	town Rd	Zoning District: Rural	Map: R14	4Lot:44
Name of Applicant:	Revision Energy I	nc		
Address: 758 Westb	prook St	Town: South Portland	State: ME	Zip: 04106
Telephone Numbers:	207.390.8160			
		ierel, Revision Energy Inc	Telephone: 20	07.390.8160
Name of Owner (if not	applicant): Jame	es and Nancy Karvounis		
Address: 465 Mankte		Town: Waldoboro	State: ME	Zip: 04572

Applicant must attach a copy of deed, signed option agreement or lease agreement. If applicant is a corporation, attach certificate from the Secretary of State (Maine) showing authority to do business in Maine.

Name of Applicant's Engineer: VHB]	Felephone: 2	207.889.3	3150
Address: 500 Southborough Drive	Town: Sout	th Portland	State: ME	Zip:	04106
Name of Applicant's Attorney:		7	Telephone:		
Address:	Town:	S	State:	Zip:	
Name of Applicant's Soil Scientist			Felephone:		
Address:	Town:	S	State:	Zip:	
Name of Applicant's Land Surveyor:			Felephone:		
Address:	Town:		State:	Zip:	

I certify that the information contained in this application is correct to the best of my knowledge.

Signature (applicant):		Date:	12.27.2023
Title:	Project Developer, Revision Energy Inc		

Action by the CEO, Planning Board, Board of Appeals						
Informal Pre-Application Review:	Date:	By:				
Preliminary Review:	Date:	By:				
Site Walk:	Date:	By:				
Public Hearing:	Date:	By:				
Modifications:	Date:	By:				
Final Review:	Date:	By:				
Modifications:	Date:					
Appeals:	Date:					
Certificate of Occupancy:	Date:					

December 27, 2023

Site Plan Pre-Application Narrative Ground Mount Solar Array Manktown Road, Waldoboro, ME Revision Energy Inc

ReVision Energy Inc is pleased to provide the Town of Waldoboro with a narrative description of its proposed ground-mounted solar photovoltaic project. The location of the project is approximately 485-489 Manktown Rd, Waldoboro, ME (Map R14, Lot 44).

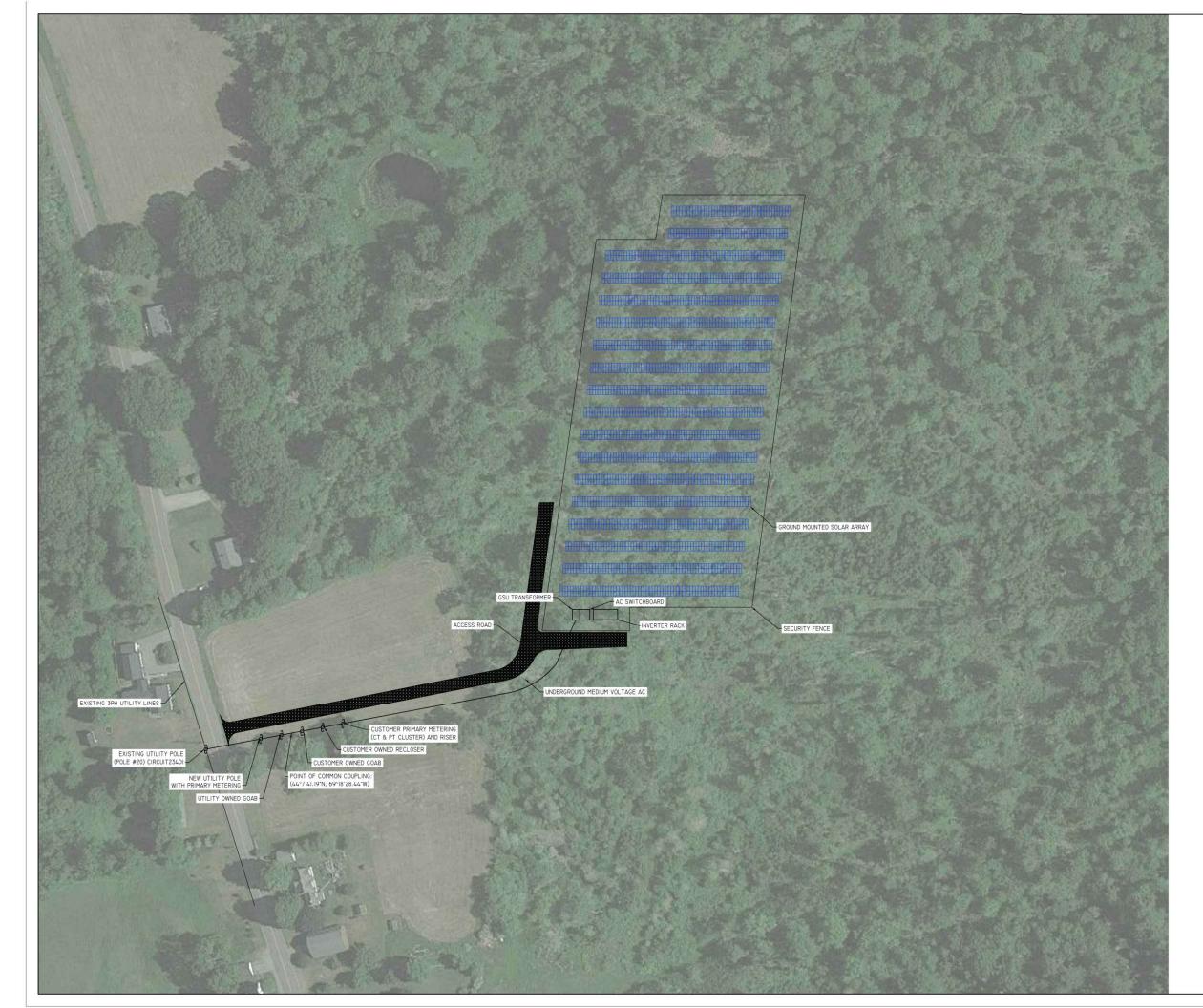
This project looks to create 1,338.48 kW DC / 999 kW AC of solar generation. The project will interconnect with the CMP owned utility at Manktown Rd. The project has been studied and approved to interconnect at the Manktown Substation by CMP.

The array would be approximately 525 ft east of Manktown Road, and approximately 450 ft from the nearest residential structure on Manktown Rd. The location of the array has been sited to leave a buffer of natural vegetation to the project. The solar modules are anticipated to occupy approximately 46,200 square feet of projected ground coverage. The project will utilize bifacial monocrystalline photovoltaic modules. The project will occupy approximately 4.25 acres, it will include 6.1 acres of tree clearing, and create 0.47 acres of new impervious area. The project proposes no impact to delineated wetlands.

The primary components of a ground mounted solar array are screws driven into the earth to serve as foundations, aluminum racking fastened to the foundations, and solar panels affixed to the racking. The rows of panels would be oriented almost due south, sloping 35 degrees. This will be a fixed array meaning there are no moving components. At their peak, the panels would stand approximately 10-12 ft above grade.

The rows of panels would be electrically connected via underground conduit and wire. The transformer, inverters, and AC switchboards would be positioned south of the array, adjacent to an access road connecting the array to Manktown Rd. The array will be surrounded by agricultural style fencing to meet the national electric code. Fencing will include gate access with emergency accessible knox-box. Signage will be limited to electrical componentry labeling and emergency contact information. There is no lighting proposed. Overhead wiring will be limited to the poles required to interconnect to CMP where protective devices and metering will be set. Following the required poles, utility will go underground for the remaining portion of the project.

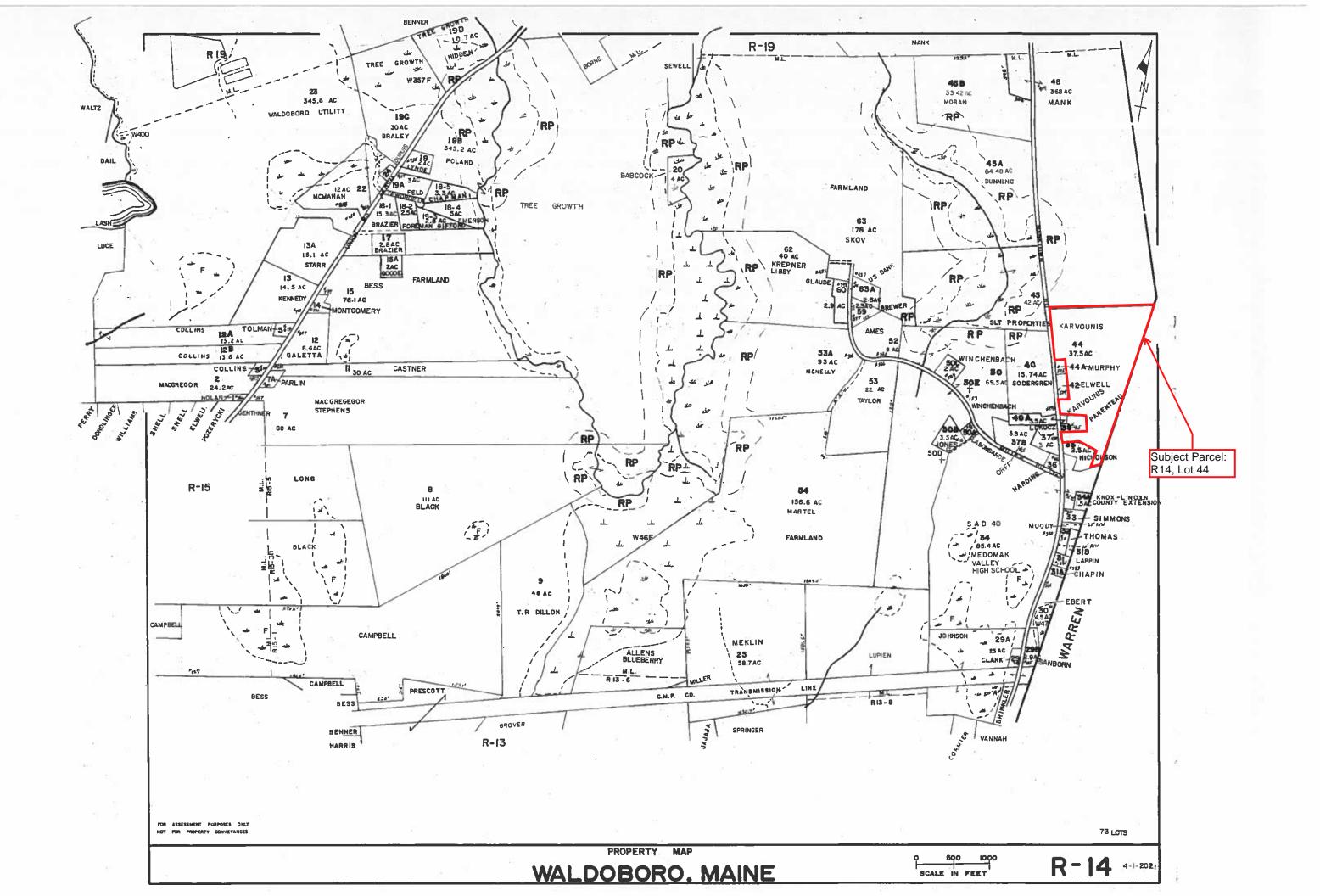
In addition to Municipal approval, the project is also pursuing a stormwater permit-by-rule approval and Maine Solar Decommissioning permit approval from the Maine Department of Environmental Protection.



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SYSTEM	SUMMARY
DC SYSTEM SIZE	1,349.920 KW DC
AC SYSTEM SIZE	999.000 KW AC
PROJECT TYPE	GROUND MOUNT
TILT / AZIMUTH	30° / 180°

	EQUIPMENT SUMMARY	
ITEM	DESCRIPTION	QTY
MODULE	HANWHA Q CELLS, Q.PEAK DUO XL-GIIS.3 590/BFG (590W)	2,288
NVERTER	CPS SCHI25KTL-D0/US-600	7
NVERTER	CPS SCHI25KTL-DO/US-600 WILL BE PROGRAMMED TO I24KW AC OUTPUT	0
DAS	TBD	1
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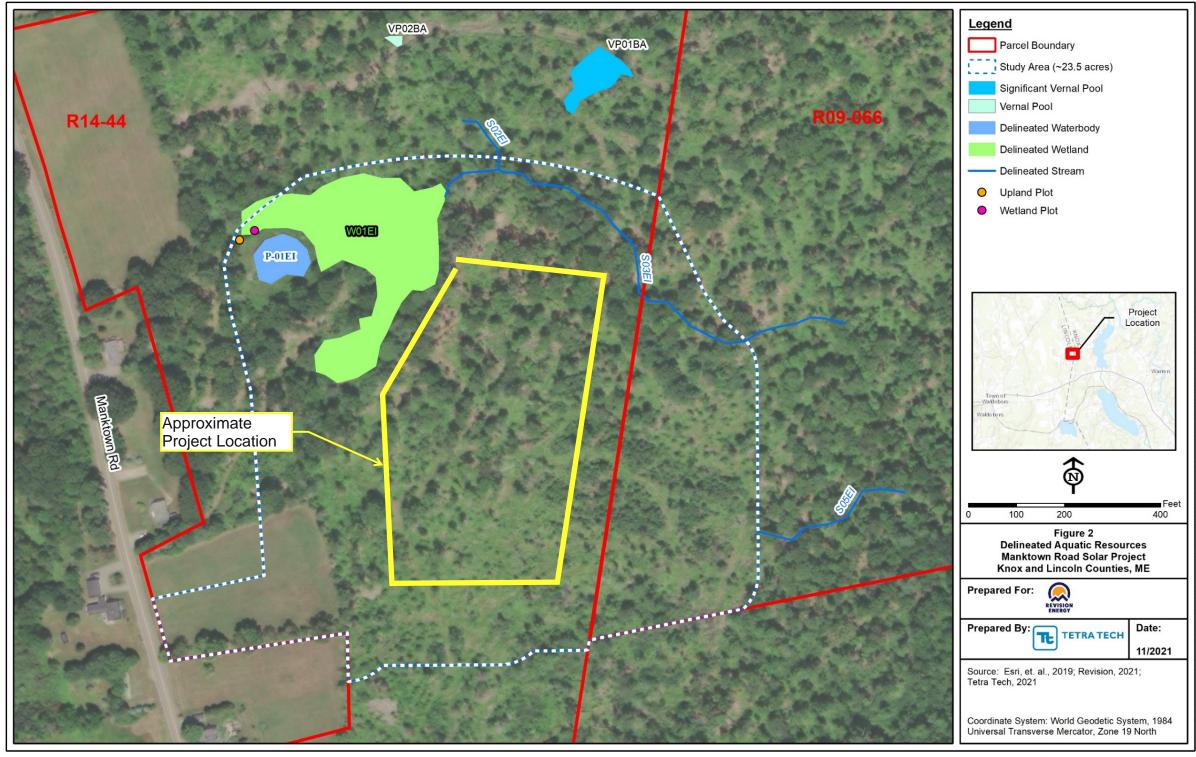


Figure 2. Wetland, Watercourse and Vernal Pool Resources Manktown Solar, Waldoboro and Warren, Maine.

Not for Construction