

Operations and Maintenance (O&M) Plan

	O&M Scope	Frequency per Year	Description
1.	General Site Inspection	1x per year	<ul style="list-style-type: none"> - Verify safety and identification labeling is present and legible. - Inspect site access/egress locations are free of obstructions and hazards. - Equipment access lanes are free of obstructions and hazards. - Inspect for changes of environmental conditions such as nearby construction activity, agricultural activities, bird migrations, water table changes, acts of vandalism, and shading.
2.	Mechanical System Inspection	1x per year	<ul style="list-style-type: none"> - Racking structures visual and mechanical inspection. - Mechanical inspection 2% of Module-to-racking attachments for torque specification. - Module visual inspection. - DC Optimizer operation verification via monitoring equipment (when applicable). - Ballast block, foundations, driven piers, mechanical attachments, and earth screw visual inspection. - Roof protection installation methods and materials. - Equipment Grounding Conductor electrical continuity inspection. - Equipment bonding to ground electrical continuity inspection.

3.	DC & AC Electrical System Inspection	1x per year	<ul style="list-style-type: none"> - Verify safety and identification labeling is present and legible. - Enclosure mounting, gaskets, interior, and exterior visual inspection. - Grounding and bonding inspection. - Terminations (conductors) thermography scanning. - Visual inspection of conductor termination torque markings. - Fuse and breaker thermography scanning. - Vacuum clean interiors. - Visual inspection of conduits, fittings, junctions/splice boxes, and enclosures. - Exercise operation of all protective devices. - Switchgear inspection. - Use infrared camera to inspect for hot spots, bypass.
4.	Inverter Inspection	1x per year	<ul style="list-style-type: none"> - Verify safety and identification labeling is present and legible. - Enclosure mounting, gaskets, Interior, and exterior visual inspection. - Grounding and bonding inspection. - Inverter operation verification. - Use an infrared camera to check connections. - Vacuum clean interior. - Clean air intake/exhaust screens, fans, and filters. - Complete all other manufacturer specific maintenance procedures not listed above.
5.	Data Acquisition System Inspection	1x per year	<ul style="list-style-type: none"> - Verify safety and identification labeling is present and legible. - Meteorological data sensor cleaning, positioning, and operation. - Inverter communication (when applicable).
6.	Reporting	1x per year	<ul style="list-style-type: none"> - Provide digital commissioning report including results from all steps with responses noting Pass, Values, or Failure with explanation. - Photo report of deficiencies.
7.	Inverter Replacement	As Needed	<ul style="list-style-type: none"> - Additional site visits related to inverter failure will be billed to Asset Manager on a time and materials basis. - Site visits will be followed with a report on site conditions and findings within three (3) business days.

8.	Testing	1x per year	<ul style="list-style-type: none"> - Perform performance test: measure incident sunlight and simultaneously observe temperature and calculate the balance of system efficiency. Compare readings with diagnostic benchmark (original efficiency of system).
9.	Vegetation Maintenance	Varies	<ul style="list-style-type: none"> - Inspect site for vegetation growth or accumulation which could shade arrays and impact PV production (4x per year) - Mow and/or clear site vegetation (4x per year). - Inspect arrays for soiling, evidence of pest infestation, water pooling, vegetation growth, shading or damage (2x per year). - Photo-document general condition of each array, noting any corrective actions and location of any issues requiring remediation beyond project manager visit time allocation (2x per year).
10.	Stormwater Control Management	As Needed	<ul style="list-style-type: none"> - Perform the steps to be outlined in the Stormwater Pollution Control Plan, approved by the Connecticut Department of Energy and Environmental Protection, and in compliance with the 2024 Connecticut Stormwater Quality Manual and 2024 Connecticut Guidelines for Soil Erosion and Sediment Control.