#### **Commonwealth of Massachusetts**

Executive Office of Energy and Environmental Affairs
DEPARTMENT OF ENERGY RESOURCES
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DEPARTMENT OF AGRICULTURAL RESOURCES
DEPARTMENT OF FISH AND GAME

#### PRE-DETERMINATION FORM

# ELIGIBILITY FOR A FLOATING SOLAR TARIFF GENERATION UNIT UNDER THE SOLAR MASSACHUSETTS RENEWABLE TARGET (SMART) 3.0 PROGRAM

### **Purpose**

This pre-determination form is required for all solar PV units in advance of submitting a Statement of Qualification Application to the MA Department of Energy Resources (Department) for qualification of a Floating STGU (FSTGU) under the SMART 3.0 program. The form is provided to demonstrate conformance with the provisions required for FSTGUs in 225 CMR 28.07(5)(b)4. and in the *Guideline Regarding the Definition of Floating Solar Tariff Generation Units*.

This form will be used by multiple state agencies such as, but not limited to, Massachusetts Department of Agricultural Resources (MDAR), the Massachusetts Department of Environmental Protection (MassDEP), and the Massachusetts Department of Fish and Game (MassDFG) in consultation with the Department to determine: 1) the site is eligible to host an FSTGU, 2) that the solar array and racking design conform with the requirements of an FSTGU, 3) that the design will minimize potential interaction with native species; and 4) will not interfere with the continued use of the water body.

# A. BASIC INFORMATION

# ENTIY THAT WILL APPLY FOR A STATEMENT OF QUALIFICATION

Name of Applicant:	
Business (if applicable):	
Mailing Address:	
Street Address (if different):	
Contact Phone:	
Contact E-mail:	
Check all that apply: $\square$ Corp. $\square$ Trust $\square$	Partnership □LLC □ Nonprofit □ Other
LANDOWNER CONTACT INFORMA	TION
(IF DIFFERENT FROM ABOVE)	
Name:	Business (if applicable):
Mailing Address:	
Street Address (if different):	
Contact Phone:	Contact E-mail:
Check all that apply: □Applicant	
SOLAR FACILITY OWNER CONTAC	CT
INFORMATION (IF DIFFERENT FRO	OM
ABOVE)	
Name:	Business (if applicable):
Street Address (if different):	
Contact Phone:	Contact E-mail:
B. SITE INFORMATION	
b. SHE IN ORMANION	
Street Address:	
Town/City/ Zip Code :	
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# C. SOLAR ARRAY DESIGN

Please provide the following information regarding the solar array design:
Nameplate capacity AC (in KW or MW):
Nameplate capacity DC (in KW or MW):
Type of mounting structure and proposed materials (i.e., mono poles, I-Beams, racking, etc.):
Description of materials and process to be used for ground penetration:
Number of panels: Panel spacing: Number of rows: Tilt of panels:
If you wish to provide additional descriptive information regarding the solar array design, you may include this information below, or in an attachment labeled "Solar Array Design."

# D. Compliance with Requirements of 225 CMR 28.00 and Guideline Regarding the Definition of Floating Solar Tariff Generation Units.

Please respond with a description and attachments, if applicable, to each of the following relevant Regulatory and Guideline requirements to demonstrate compliance with all eligibility requirements for FSTGUs. You may refer to other sections within this document if you feel you have previously appropriately addressed a specific line item.

225 CMR 28.02 defines Floating STGU as an STGU located on a body of water that is currently, or was formerly, used for water treatment, agricultural or industrial activities, that allows for the continued use of the water body for its intended purpose and meets the eligibility requirements of 225 CMR 28.07(5)(b)4.

Please indicate which of the following activities the water body is used for, and provide supporting documentation to demonstrate that the proposed STGU meets the regulatory definition of Floating STGU.   Water treatment
☐ Agricultural
☐ Industrial
Pursuant to Section 5)a) of the <i>Guideline Regarding the Definition of Floating Solar Tariff Generation Units</i> , if the water body has not been used for one of these purposes for more than five years, the Applicant shall request a determination of eligibility from the Department. The request shall demonstrate to the Department's satisfaction that there is preexisting contamination or other site conditions that would materially hinder the remediation of the water body for another use.
225 CMR 28.07(5)(b)4 contains the following special provisions pertaining specifically to the eligibility of FSTGUs:
<u>Project Design Requirements</u> . In order to qualify as an FSTGU, an STGU shall submit documentation itemized in <b>225 CMR 28.07(5)(b)4</b> below. All final determinations regarding the eligibility of such facilities will be made by the Department, in consultation with MassDEP, MDAR, and MassDFG, or other state agencies as necessary.
A. the STGU will not interfere with the continued use of the water body for its designated purpose;
B. the racking system shall be made of materials that have been tested for water quality impact and have been shown to have no or minimal impact;

C.	the STGU shall use equipment that has been certified by the manufacturer to not contain PFAS;
D.	the STGU will not be permitted in wetland resource areas and natural waterbodies such as salt ponds, or freshwater lakes and great ponds, as defined in M.G.L. c. 91
E.	the ratio of the total surface area covered by the Floating STGU divided by the total surface area of the water body under standard conditions shall not exceed 50 percent;
F.	the STGU shall be designed to minimize potential interaction with native species;
G.	the STGU is a floating structure allowing for continued use and maintenance of the water body while generating electricity;
Н.	the water body was not constructed for the purpose of obtaining eligibility as an FSTGU.

# E. AGRICULUTRAL SECTION, if applicable

### SPECIFIC AGRICULTURAL INFORMATION RELATIVE TO THE FSTGU LOCATION

If the FSTGU is proposed to be located on a waterbody with active agricultural production, please list specific crops grown in the project area and anticipated annual yields:

	Vegetables:
	Fruits:
ш	110105.
	Nursery:
	Other:

#### F. ENVIROMENTAL IMPACT ASSESSMENT

Please provide supporting documentation that may include, but not be limited to, the following components for compliance with the Guidelines as follows:

- a) Baseline water quality analysis
- b) Stormwater impact analysis
- c) Habitat assessment
  - a. Applicants shall provide documentation that demonstrates impacts on site-specific native aquatic, bird, and plant species, including seasonal migration species, will be minimized. Such documentation should include but not be limited to shading impacts from floating solar arrays.
- d) Wetlands delineation and impact analysis
- e) System Details
  - a. Applicants shall provide documentation that demonstrates the FSTGU design and location will minimize environmental impacts. Supporting documentation for evaluation may include, but not be limited to: wind load, water movement patterns, and snow load documentation.
- f) Relevant detailed testing documentation for the equipment that will be used to construct and anchor the array
  - a. Depending on the location of the FSTGU, the tests may include, but not be limited to:
    - i. Wind-tunnel test
    - ii. Tensile strength test
    - iii. Bending fatigue test
    - iv. Material composition test
    - v. Temperature- and UV-accelerated aging test
    - vi. Polymeric material properties
    - vii. Fire resistance test
    - viii. Drinking-water compatibility test
    - ix. Corrosion-resistivity test
    - x. Buoyancy/puncture test
- g) Equipment manufacturer certification on the absence of PFAS

# **G. ELIGIBILITY SECTION**

In addition to the submission of an EIA proposal, Applicants shall provide confirmation if the site
is located within mapped Priority and/or Estimated Habitat, as defined under 321 CMR 10.00 and
310 CMR 10.00. If the site is located within Priority or Estimated Habitat, the Applicant shall
complete one of the following:
☐ provide documentation of a Massachusetts Endangered Species Act or Wetlands
Protection Act permit(s); OR
☐ provide documentation of pre-filing consultations with MassWildlife indicating
whether the project will require a Conservation and Management Permit.

# H. SIGNATURES AND ATTESTATIONS

Prior to submitting the Pre-Determination Form, please read and sign as directed below.

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Signature of Landowner:	Date:
Solar Facility Owner	
I,	uments accompanying this form, (ii) that, ly responsible for obtaining the his submittal is, to the best of my and (iii) that I am fully authorized to responsible for this submittal. I/the person is aware that there are significant and imprisonment, for willfully
Printed name Signature	Date