ASTGU ANNUAL REPORT

PURPOSE

This Annual Report form is required to be completed and submitted annually by February 1st for all projects with the MA Department of Energy Resources (DOER) which received qualification as an Agricultural Solar Tariff Generation Unit (ASTGU) under the SMART program. The form is provided to demonstrate conformance with the general provisions required for ASTGUs in 225 CMR 28.00; in particular pertaining to Section 28.07(5)(b)3. therein as well as associated ASTGU Guidelines; and specifically pertaining to annual reporting requirements.

The completed form will be reviewed by DOER and the MA Department of Agricultural Resources (MDAR) to determine that the farm is in conformance with all ASTGU provisions in general under the SMART Program, although more specifically to the annual production requirements.

BASIC FARM INFORMATION

Farm Contact Perso	n Name:		Farm Owner	☐ Farm Operator
Farm Name:				
Legal Structure:	☐ Sole Proprietor	\square LLC	☐ Corporati	on
	☐ Partnership	☐ Other _		
Mailing Address:				
Street Address (if d	ifferent):			
Contact Phone:		Contact E-1	nail:	
Check all that apply	ifferent):	er □Landov	vner □Ap	plicant
Current Type of AS	TGU Farm Operation (Check all tha	t apply):	
☐ Vegetables	☐ Fruit ☐ L:	ivestock	☐ Poultry	☐ Hay
☐ Nursery	Other			
Total Acreage in As	STGU Farm Production	:		
Gross Annual Reve	nue for ASTGU Farm F	Production: T	otal \$s	
Are any major mod (Check all that appl	ifications to the farm buy.)	usiness expec	ted in the next 5	years? □ Yes □ No
☐ Business Legal S	Structure Operation	Type □ 1	Expansion	☐ Diversification
☐ Retirement	☐ Sale		Subdivision	☐ Other
BASIC SOLAR PI	ROJECT INFORMAT	TION		
Solar System Comp	oany Owner:			
Solar System Comp	oany Address:			
Solar Company Con	ntact Person/email/tel#:			

ASTGU Project Start-Up/History Information:

Date ASTGU Approved by DOER:
Date Solar Portion of ASTGU Project Commenced Construction:
Date Solar Portion of ASTGU Project was Completed & Operational:
Date Original Agricultural Portion of the ASTGU Project Commenced:
Date Original Agricultural ASTGU Portion of Project Harvested/Sowed Products:
How many complete years, that is both solar and agricultural production, has the ASTGU been in operation?
SOLAR ARRAY DESIGN – PLEASE PROVIDE AS-BUILLT SYSTEM INFORMATION
Please provide the following information regarding the solar array design:
Nameplate capacity AC (in MW): (Note: 1 MW=1000 kW) Expected annual generation AC (MWh): (Note: 1 MWh=1000 kWh) Acreage of farmland over which array is installed:
System type: Fixed Tracking Other Height of lowest panel edge (in feet): Height of lowest elevated horizontal mounting (in feet):
Type of mounting (mono poles, racking, etc.):
Description of materials and process used for ground penetration:
Number of panels, capacity per panel, and panel spacing: :
If you wish to provide additional descriptive information regarding the solar array design, including any system changes since original completion, you may include this information below or in a typed attachment labeled "Solar Array Design."

AGRICULUTRAL PLAN FOR DUAL-USE AREA

Planned agricultural use, Year 1. Check all that apply. Uvegetable, fruit, grains, for human consumption
☐ Hay
☐ Livestock production
☐ Poultry production
☐ Horticulture
☐ Floriculture
☐ Aquaculture
☐ Other, please describe:
Please fill the Crop Table results following this section for horticulture, flowers, vegetable, fruit, grain, and hay crops for your present year of operation. Fill out one Crop Narrative for each crop detailing anticipated crop management (planting, irrigation, soil amendments, harvesting) and equipment to be used. Crop Table – Current Season follows this section. Also, please also fill out a Crop Table – Next Season and corresponding narrative at the end of this section with your best information available.
Please fill out the Grazing Table results following this section for livestock and poultry production for your present year of operation. Please also fill out the Grazing Narrative, detailing anticipated pasture and animal management and equipment to be used. Grazing Table – Current Season follows the Crop Table section. Also please fill out a Grazing Table – Next Season and corresponding narrative at the end of this section with your best information available.
Additional comments regarding agricultural production for Year 1:
How did the Agricultural Production perform versus expectations? Please explain why/why not if you can:
Did you plant the crops/graze the animals as you originally intended when your Pre- Determination Application was approved? If not please explain.

Were the products marketable as anticipated? Please explain how the production values (weight/bushels etc) were determined.
What occurred during the current season that wasn't anticipated? Positive & Negative.
What Changes/Modifications do you expect to make to improve on production if needed?
Do you expect to grow the same crops on the land in years 2 and 3? Briefly describe your crop rotation plan and what you expect to be growing on the land for the next 5 years. Will the same equipment be used? If not, is current array design compatible with future crop management needs and equipment?

Table A: Crop Production – Current Season						
Сгор	Area planted (Row length and width or acreage, as appropriate)	Planting date(s) (approximate)	Harvest date(s) (approximate)	Expected productivity, total pounds harvested with dual use	Actual productivity, pounds, with dual use	

CROP NARRATIVE - Current Season

Please detail the crop management for this past season, including approximate **dates** and **equipment** used. The purpose of this form is to provide empirical data regarding compatible equipment usage and crop management needs. If you need additional space, please include a typed attachment labeled "Crop Narrative."

Crop:
Planting Plan:
Soil Amendment Plan:
Cultivation Plans
Cultivation Plan:
Irrigation Plan:
Pesticide/Herbicide Plan:
Harvest Plan:

Current Season Type(s) Area Grazing pressure (e.g. period(s) if with solar grazed pressure applicable grazed eggs) Current Season Type(s) Area Grazing pressure (e.g. period(s) if with solar applicable array	Actual productivity with solar array

GRAZING NARRATIVE - Current Season

Please detail the past season animal and pasture management, including dates and equipment used. The purpose of this form is to provide empirical data regarding compatible equipment usage and production needs. If you need additional space, please include a typed attachment labeled "Grazing Narrative."

Type(s) of Animals Grazed:
Pasture Management Plan: List any anticipated seeding, soil amendment, irrigation, pesticide, mowing, etc., including approximate dates and equipment used.
Animal Management Plan: For each type of animal grazed, describe management regarding housing/shelter, water source, fencing, movement, disease treatment, harvest, etc. that was carried out within the solar array area. Describe equipment used in these activities.
Describe any modifications to the solar array design that were made in order to reduce the risk of animal damage to the solar array, or risk of electrocution to animals.

Table A: Crop Production – Next Season						
Сгор	Area planted (Row length and width or acreage, as appropriate)	Planting date(s) (approximate)	Harvest date(s) (approximate)	Expected productivity, total pounds harvested without dual use	Expected productivity, total pounds, with dual use	

CROP NARRATIVE - Next Season

Please detail the crop management planned for next season, including approximate dates and equipment used. The purpose of this form is to provide planned data for the upcoming season regarding compatible equipment usage and crop management needs. If you need additional space, please include a typed attachment labeled "Crop Narrative."

Crop:
Planting Plan:
Soil Amendment Plan:
Cultivation Plan:
Irrigation Plan:
Pasticida/Harbicida Plan:
Pesticide/Herbicide Plan:
Harvest Plan:

Table B: Next Seas	Grazing Proson	duction –					
Type(s) of animal grazed	Area grazed (acreage)	Grazing pressure # animals per acre	Purpose (e.g. meat, dairy, eggs)	Grazing period(s)	Harvest date(s) if applicable	Expected productivity without solar array	Expected productivity with solar array

GRAZING NARRATIVE - Next Season

Please detail the next season animal and pasture management, including dates and equipment used. The purpose of this form is to provide planned data for the upcoming season regarding compatible equipment usage and production needs. If you need additional space, please include a typed attachment labeled "Grazing Narrative."

Type(s) of Animals Grazed:
Pasture Management Plan: List any anticipated seeding, soil amendment, irrigation, pesticide, mowing, etc., including approximate dates and equipment used.
Animal Management Plan: For each type of animal grazed, describe management regarding housing/shelter, water source, fencing, movement, disease treatment, harvest, etc. that was carried out within the solar array area. Describe equipment used in these activities.
Describe any modifications to the solar array design that were made in order to reduce the risk of animal damage to the solar array, or risk of electrocution to animals.

Waiver for Decreased Yield

i. Waiver for Decreased Yield

Due to unforeseen circumstances, such as but not limited to weather events, pests, or change in crops, the projected agricultural yield for any given year may be lower than anticipated in the agricultural plan. While no pre-approval of crop changes or production practices is required, continuous, good faith efforts at commercial agricultural or horticultural production is a requirement for continued incentive eligibility. In circumstances when production of planned crops falls below 70 percent of anticipated yields, or below 50 percent of typical yields for the soils and production practices under open-field conditions in the case of a new crop, an applicant can request a waiver from the Department for the decreased yields. The applicant must demonstrate to the satisfaction of the Department, and in consultation with MDAR, that a waiver is warranted for good cause. Waiver requests must be submitted by December 1st of the applicable calendar year and sent to DOER.SMART@mass.gov.

ii. Failure to Report

If the ASTGU fails to submit an annual report, the Department may place the ASTGU in non-compliance pursuant to 225 CMR 28.17. The Department may temporarily suspend the project's Statement of Qualification for failure to report, and if an ASTGU repeatedly fails to file an annual report, the Department may revoke the project's Statement of Qualification for the remainder of the tariff term pursuant to 225 CMR 28.17(3).

Has the applicant previously requested a waiver for decreased yields for this ASTGU?
□Yes □ No
If yes, in which year(s) did the applicant request a waiver?
In which year(s) did the Department grant a waiver?

SIGNATURES AND ATTESTATIONS

Prior to	submitting	the Pre	-Determin	ation I	Form.	please read	and sig	n as directed	below.

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Signature of Landowner	Date
Farm Operator and Landowner	
practice and the Agricultural Plan for the of my/our knowledge and intentions, and Massachusetts Amherst Clean Energy Exservice to review the Agricultural Plan and shading. Further, I/we agree, conditionally program as an ASTGU, to submit a report Massachusetts Clean Energy Extension, incentive with ASTGU adder, on the open agriculture along with any changes to the understand that failure to maintain productions.	submitted regarding the current farm conditions and a Dual-Use Area is accurate and complete to the best of that I/we have engaged with the University of extension and thereby its agricultural extension and its compatibility with the solar array structures ional on being provided eligibility to the SMART art, through a template provided by the University of annually throughout the duration of the SMART erations and productiveness of the solar array and a Agricultural Plan for the following year. I/we active agricultural activities and annual reporting facility as an ASTGU in the SMART program.
Signature of Farm Operator	Date
Signature of Landowner	Date
Solar Facility Owner	
	mitted regarding the Solar Array Description and sis is accurate and complete to the best of my/our
Signature of Solar Facility Owner	Date