ASTGU ANNUAL REPORT

PURPOSE

This Annual Report form is required to be completed and submitted annually 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 20.00; in particular pertaining to Section 20.06(1)(d) 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 Person Name: Nathaniel Tassinari 🗵 Farm Owner 🗆 Farm Operator
Farm Name:Reddy Fox Farm
Legal Structure: Sole Proprietor LLC Corporation
☐ Partnership ☐ Other
Mailing Address:21 Bogan Rd Monson, MA 01057
Street Address (if different):
Street Address (if different): Contact Phone: 413-455-8660Contact E-mail:
Nathaniel.tassinari@gmail.com
Check all that apply: ⊠Solar facility owner ⊠Landowner ⊠Applicant
Current Type of ASTGU Farm Operation (Check all that apply):
☐ Vegetables ☐ Fruit ☐ Livestock ☐ Poultry ☒ Hay
□ Nursery □ Other
Total Acreage in ASTGU Farm Production:1.1
Gross Annual Revenue for ASTGU Farm Production: Total \$450
Are any major modifications to the farm business expected in the next 5 years? \square Yes \boxtimes No Check all that apply.)
☐ Business Legal Structure ☐ Operation Type ☐ Expansion ☐ Diversification
☐ Retirement ☐ Sale ☐ Subdivision ☐ Other
BASIC SOLAR PROJECT INFORMATION
Solar System Company Owner:Million Little Sunbeams, LLCSolar System Company Address:21 Bogan Rd, Monson, MA 01057Solar Company Contact Person/email/tel#: Nate Tassinari mail@millionlittlesunbeams.com 413-255-8660

ASTGU Project Start-Up/History Information:

Date ASTGU Approved by DOER:02/25/2019
Date Solar Portion of ASTGU Project Commenced Construction:9/19/2019
Date Solar Portion of ASTGU Project was Completed & Operational:6/30/2020
Date Original Agricultural Portion of the ASTGU Project Commenced: _6/30/2020
Date Original Agricultural ASTGU Portion of Project Harvested/Sowed Products: _5/3/2020
How many complete years, that is both solar and agricultural production, has the ASTGU been in operation?4
SOLAR ARRAY DESIGN – PLEASE PROVIDE AS-BUILT SYSTEM INFORMATION
Please provide the following information regarding the solar array design:
Nameplate capacity AC (in MW):2488MW (Note: 1 MW=1000 kW) Expected annual generation AC (MWh):386.753MWH_(Note: 1 MWh=1000 kWh) Acreage of farmland over which array is to be installed:1.1 System type: □ Fixed □ Tracking □ Other Height of lowest panel edge (in feet):10 Height of lowest elevated horizontal mounting (in feet):10 Type of mounting (mono poles, racking, etc.):I-Beams with racking
Description of materials and process to be used for ground penetration:driven beams into ground
Number of panels, capacity per panel, and panel spacing: : 694, Longi Bi-Facial, 16 ft between edges of panels

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."

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AGRICULUTRAL PLAN FOR DUAL-USE AREA
Planned agricultural use, Year 1. Check all that apply. □ Vegetable, 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: We were able to get in three cuts this year, which is the same as the rest of the hayed fields. The purchase of a new tractor was essential as the old Ford we had was not able to cut the hay in the hot summer.

Did you plant the crops/graze the animals as you originally intended when your Pre-Determination Application was approved? If not please explain.

Yes, we continue to hay as
anticipated
Were the products marketable anticipated? Please explain how the production values (weight/bushels etc) were determined.
All hay produced on the farm is given to my cousins who operate a Dairy farm next door. We harvested approximately 150 small bales from under the panels. Our bales weigh on average 60 lbs. We yielded approximately 4.5 tons. 40 bales were sold on FB Marketplace at \$3 per bale. The remaining 110 were provided to my cousins dairy farm next door.
What occurred during the current season that wasn't anticipated? Positive & Negative. _We needed to first repair the Ford Tractor in the spring as we were not able to get it into gear. We spent \$6500 on this repair. We subsequently determined that this tractor was not able to perform the tasks we needed in the hot summer and we purchased a new 58HP Yanmar tractor. This tractor was used in the second and third cuts.
What Changes/Modifications do you expect to make to improve on production if needed? In 2025 we will put some new attention on clearing the hay from between the driven beams. This area needs to be cut back from bittersweet.
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?
We plan to continue to hay the land though we continue to consider planting small trees in between ie trellised apples or Christmas trees.

Table As	Crop Production – Season					
Crop 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	
Hay	1.1 Acres	n/a	Varies, 2 or 3x per year	Two tons per acre	4.5 tons	

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:Hay
Planting Plan:
Soil Amendment Plan:Cow manure spread in spring as available from dairy
Cultivation Plan:
Irrigation Plan:
Pesticide/Herbicide Plan:n/a
Harvest Plan:_Depending on the rain we cut and bail 2 or 3 times per year with the first cut coming in mid to late May.

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 stated in the agricultural plan or previous year's annual report. In these instances, an applicant can request a waiver to 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 November 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 declare the project ineligible for the ASTGU adder for one year. If the annual report is not completed for a second year, then the Department may permanently disqualify the ASTGU from continuing to receive the ASTGU Adder for the remainder of the STGU's tariff term.

SIGNATURES AND ATTESTATIONS

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

Landowner

I hereby certify that I have personally examined	l and am familiar with the information
submitted herein, and, based upon my inquiry o	f those individuals immediately responsible
for obtaining the information, I believe that the	information is true, accurate, and complete
Signature of Landowner	01/27/2024 Date

Farm Operator and Landowner

I/we hereby certify that the information submitted regarding the current farm conditions and practice and the Agricultural Plan for the Dual-Use Area is accurate and complete to the best of my/our knowledge and intentions, and that I/we have engaged with the University of Massachusetts Amherst Clean Energy Extension and thereby its agricultural extension service to review the Agricultural Plan and its compatibility with the solar array structures and shading. Further, I/we agree, conditional on being provided eligibility to the SMART program as an ASTGU, to submit a report, through a template provided by the University of Massachusetts Clean Energy Extension, annually throughout the duration of the SMART incentive with ASTGU adder, on the operations and productiveness of the solar array and agriculture along with any changes to the Agricultural Plan for the following year. I/we understand that failure to maintain productive agricultural activities and annual reporting may result in the disqualification of the facility as an ASTGU in the SMART program.

	ر	01/27/2024
Signature of Farm Operator		Date
		01/27/2024
Signature of Landowner	٠	Date

Solar Facility Owner

I hereby certify that the information submitted regarding the Solar Array Description and inputs and outputs of the Shading Analysis is accurate and complete to the best of my/our knowledge and intentions.

77-Q.	,	01/27/2024	
Signature of Solar Facility Owner		Date	