

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: Joe Czajkowski Farm Owner Farm Operator

Farm Name: Joe Czajkowski Farm, LLC

Legal Structure: Sole Proprietor LLC Corporation
 Partnership Other _____

Mailing Address: 86 Comins Rd. Hadley, MA 01035

Street Address (if different): _____

Contact Phone: 413-237-2615 Contact E-mail: jcfarm86@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: 2.2

Gross Annual Revenue for ASTGU Farm Production: Total \$ 6,000

Are any major modifications to the farm business expected in the next 5 years? Yes No
(Check all that apply.)

Business Legal Structure Operation Type Expansion Diversification
 Retirement Sale Subdivision Other _____

BASIC SOLAR PROJECT INFORMATION

Solar System Company Owner: Sunwealth Project Pool 48 LLC

Solar System Company Address: 2067 Massachusetts Ave Suite 540, Cambridge, MA 02140

Solar Company Contact Person/email/tel#: Sam Burrington/projects@sunwealth.com/(617) 752-7322

ASTGU Project Start-Up/History Information:

Date ASTGU Approved by DOER: 8/3/2022

Date Solar Portion of ASTGU Project Commenced Construction: 5/3/23

Date Solar Portion of ASTGU Project was Completed & Operational: 7/2/24 Array area construction completed 7/18/23.

Date Original Agricultural Portion of the ASTGU Project Commenced: 7/20/23

Date Original Agricultural ASTGU Portion of Project Harvested/Sowed Products: 8/3/23

How many complete years, that is both solar and agricultural production, has the ASTGU been in operation? 2

SOLAR ARRAY DESIGN – PLEASE PROVIDE AS-BUILT SYSTEM INFORMATION

Please provide the following information regarding the solar array design:

Nameplate capacity AC (in MW): 0.375 (Note: 1 MW=1000 kW)

Expected annual generation AC (MWh): 630.386 (Note: 1 MWh=1000 kWh)

Acreage of farmland over which array is to be installed: 2.2 acres

System type: Fixed Tracking Other _____

Height of lowest panel edge (in feet): 10' module horizontal, 7.3' maximum tilt

Height of lowest elevated horizontal mounting (in feet): 9.5'

Type of mounting (mono poles, racking, etc.): _____

This array uses Solar Flex Rack single axis tracker mounting system. The racking is supported by steel I-beams.

Description of materials and process to be used for ground penetration: _____

I-beams were driven using a tracked post driver.

Number of panels, capacity per panel, and panel spacing: : _____

832 panels

535 W per panel

Panel rows are spaced 26' apart E-W.

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."

AGRICULTRAL 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:

The sweet corn did well. Yield was good, I was sprprised at how well it did. We had a marketable crop and sold most of it to Costa in the eastern MA markets. Some was sold to UMass dining.

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

Yes, sweet corn was planted as planned for.

Were the products marketable anticipated? Please explain how the production values (weight/bushels etc) were determined.

Yes the sweet corn was marketed as hoped for. Most of it was sold to Costa for Boston markets. Some was sold to UMass dining. The sweet corn was harvested directly put into bags. Bags weighed 45-50 lbs. per bag. Bags were loaded onto pallets and wrapped in the field.

What occurred during the current season that wasn't anticipated? Positive & Negative.

The sweet corn did better than I expected. We had less rainfall this year when the sweet corn was out there, that likely helped the sweet corn within the array area. The partial shade likely helped the sweet corn since it wouldn't have to transpire as much.

What Changes/Modifications do you expect to make to improve on production if needed?

We hope to get a special sprayer this year - to match the solar row spacing or one that can adjust easily. Other equipment that would help farming within the array are a spader for tillage, GPS system for the tractor to get even closer to the solar row posts, and a sprayer with a back fold boom. While this equipment isn't necessary for farming within the array in my observation it would help and we will implement this equipment over time but worth noting here now.

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?

Next year we plan to grow sweet corn again. We perform a 2 year rotation, the first two years under the solar array were broccoli. In 2027 we may look to trial a different crop under the panels. Sweet corn allows us to build the organic matter in this field. The Farm had Nutrien perform a detailed soil report for this parcel in the fall of 2025. The Farm will implement the recommendations from Nutrien which include adding phosphorus and calcium.

Table A: Crop Production – Current 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
Sweet Corn	2.2 acres	Corn was planted on June 13th.	End of August through early Sept.	-165 bags/acre -Bags are 45-50 lbs/bag -17,242.5 lbs for dual-use area	- 165 bags/acre - Bags are 45-50 lbs/bag - 17,242.5 lbs for dual-use area

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: Sweet Corn.

Planting Plan: _____

Planting occurred on June 13, 2025. Planting was direct seed. Corn was planted using a 4 row planter. The operator made 2 passes in between the rows of solar.

Soil Amendment Plan: _____

150 lbs of N per acre. 65 lbs of phosphorus per acre. 150 lbs of potassium per acre.

Cultivation Plan: _____

Cultivated the sweet corn one time. _____

Irrigation Plan: _____

Only natural rain.

Pesticide/Herbicide Plan: We used acuron for herbicide.

Harvest Plan: _____

Harvested by hand directly into bags. Bags are put onto pallets and pallets are wrapped in the field. Pallets are then loaded into a truck for distribution.

Table B: Grazing Production – Current Season							
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 with solar array	Actual productivity with solar array
N/A							

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: N/A

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					
Crop	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
Sweet Corn	2.2 acres	Mid June	Mid August through Early Sept.	- Joe avgs. 200-210 bags per acre - Bags are 45-50 lbs/bag	- 165 bags/acre - Bags are 45-50 lbs/bag - 17,242.5 lbs for dual-use area
				- 21,422.5 lbs for the dual-use area	

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: Sweet corn.

Planting Plan: _____

Planting is expected middle of June. This parcel is not especially early ground.

Soil Amendment Plan:

We will use 150 lbs of N per acre. 65 lbs of phosphorus per acre. 150 lbs of potassium per acre.

Cultivation Plan:

We will cultivate one time.

Irrigation Plan:

Only natural rain water.

Pesticide/Herbicide Plan:

We will use acuron for herbicide.

Harvest Plan:

Hand harvest will starting middle to end of August. The sweet corn will be bagged in the field and put on pallets. Pallets are wrapped and put onto a truck for distribution.

Table B: Grazing Production – Next Season							
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
N/A							

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 and am familiar with the information submitted herein, and, based upon my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

Je Szal
Signature of Landowner

12/23/25
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.

Je Szal
Signature of Farm Operator

12/23/25
Date

Je Szal
Signature of Landowner

12/25/25
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.

Signed by:
Jonathan Abbe
Signature of Solar Facility Owner

12/31/2025
Date