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: Thomas Roberts ☒ Farm Owner ☒ Farm Operator
Farm Name: Burgundy Brook Farm
Legal Structure: ☒ Sole Proprietor ☐ LLC ☐ Corporation
☐ Partnership ☐ Other _____
Mailing Address: P.O. 1312 Bondsville, MA 01009
Street Address (if different): 400 Franklin St. Belchertown, MA 01007
Contact Phone : (413)374-9238 Contact E-mail: burgundybrook2@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: 11.9 acres

Gross Annual Revenue for ASTGU Farm Production: Total $ 2600.00

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: BWC Swift River, LLC
Solar System Company Address: 116 Huntington Ave, Suite 601, Boston, MA 02116
Solar Company Contact Person/email/tel#: Michael Zimmer, BlueWave, mzimmer@bluewave.energy, 508-494-2698

ASTGU Project Start-Up/History Information:

Date ASTGU Approved by DOER: Pre-Determination Application Approval: 13 November 2019

Date Solar Portion of ASTGU Project Commenced Construction: Notice to Proceed: 17 Feb 2023; Construction Start (Mobilization): 23 February 2023

Date Solar Portion of ASTGU Project was Completed & Operational: Permission to Operate: 29 Dec 2023; Incentive Start Date: 27 March, 2024; Final Completion: TBD

Date Original Agricultural Portion of the ASTGU Project Commenced: 26 June 2024 (began grazing cattle in arrays)

Date Original Agricultural ASTGU Portion of Project Harvested/Sowed Products: 26 June 2024 (began grazing cattle in arrays)

How many complete years, that is both solar and agricultural production, has the ASTGU been in operation? 1

SOLAR ARRAY DESIGN – PLEASE PROVIDE AS-BUIILT SYSTEM INFORMATION

Please provide the following information regarding the solar array design:

Nameplate capacity AC (in MW): 1.986 MW *(Note: 1 MW=1000 kW)*
Expected annual generation AC (MWh): 3,299.968 MWh *(Note: 1 MWh=1000 kWh)*
Acreage of farmland over which array is to be installed: 11.9 acres
System type: ☐ Fixed ☒ Tracking ☐ Other_____
Height of lowest panel edge (in feet): 7′
Height of lowest elevated horizontal mounting (in feet): 10′

Type of mounting (mono poles, racking, etc.): Single -axis tracker (Array Technologies, Inc)

Description of materials and process to be used for ground penetration: Driven I-beam pilings with polyethylene frost sleeve

Number of panels, capacity per panel, and panel spacing: 3,504 modules at 580W capacity, mounted in rows 26′-0″ on center (18′-1″ edge-to-edge 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."
N/A

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 chose to only graze cattle this year because we increased our cattle herd by 58 head and we also added more land off site for hay production. Having the 2 fenced arrays has improved our ability to easily implement rotational grazing for our cattle herd.

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

> We grazed as planned. No additional seeding was necessary because the grass grew plentiful and provided excellent grazing pasture.

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

We did not harvest any hay this year. Instead we used the area for rotational grazing.

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

. The turnaround time for regrowth after grazing periods was quicker than expected. We were able to rotate grazing more than we anticipated.

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

We may interseed the fields in early spring with a grass blend using our Esch No Till Drill. This method of seeding will not disturb any current growth and will provide additional grass growth if we feel it is necessary. However, this past year we did not feel a need to seed.

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 grazing our beef cattle on this land over the next 5 years. We have increased our herd by 29 cow/calf pairs and find the fenced areas to provide excellent rotational grazing ability. We have expanded our hay operations on other properties which allows us to focus on using this area for grazing without reducing our overall hay production.

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**
Grass Hay (West array)	6.9 acres		N/A - grazed		
Grass Hay (East array)	5.0 acres		N/A - grazed		

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."*

N/A – grazed

Crop:_____

Planting Plan:_____
_____
_____
_____

Soil Amendment Plan:_____
_____
_____
_____

Cultivation Plan: _____
_____
_____
_____

Irrigation Plan: _____
_____
_____
_____

Pesticide/Herbicide Plan: _____
_____
_____
_____

Harvest Plan:_____
_____
_____
_____

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**
Cattle	11.9 Acres	5	Meat	5/10-5/17 6/9-6/14 7/14-7/19 8/18-8/22 9/22-9/26	N/A, no animals that grazed the array were sent to slaughter in 2025		

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:

Beef cattle

Pasture Management Plan: List any anticipated seeding, soil amendment, irrigation, pesticide, mowing, etc., including approximate dates and equipment used.

Fields were dragged after grazing in June to spread manure left from the cows. Besides grazing cattle, we brush-hogged both arrays to cut back any weeds or grasses that the cows did not graze. We use our 6' County Line pull behind brush-hog along with our John Deere 5425 Tractor. Brush-hogging was done on 7/20 and 10/1. This helps to keep weeds under control and pastures well maintained between and after grazing.

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.

We have panels in place to assist with moving cattle in and out of the array. We use a pitcher pump system to provide water.

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.

We put inground electric fence around any areas we were concerned that the cows could possibly rub on or cause damage to. No damage was caused to the array or any cattle.

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**
Hay (West array)	6.9 Acres	Early spring seeding if deemed necessary	N/A - We plan to graze cattle		
Hay (East array)	5 Acres	Early spring seeding if deemed necessary	N/A- We plan to graze cattle		

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: Grass hay for grazing beef cattle

Planting Plan:

We are unsure if additional planting will be needed. This years' grass hay was better than expected. If we decide to plant, we will use our Esch 5610 No Till Drill to interseed over the current hay crops in early spring.

Soil Amendment Plan:

N/A

Cultivation Plan:

N/A

Irrigation Plan:

We do not plan on implementing irrigation as we have not had to in previous years. We also believe the partial shade that changes with the tracker will provide some relief from direct sun and reduce any burning.

Pesticide/Herbicide Plan:

We do not treat our grass hay crops with herbicide or pesticide.

Harvest Plan:

We plan to graze beef cattle rather than harvest hay. If we decide to harvest hay, 1st cut would be done around June 15th and 2nd cut around July 30th. Hay would be cut using our 10' John Deere 630 side pull mower conditioner. We use a 24' Esch Tedder, followed by either our Kuhn GA6002 Rake which can be adjusted between from 11'6" to 19' windrows or we will use a single John Deere side delivery, ground driven 9' rake. We use a Kuhn FB 2130 Fixed Chamber Baler with HarvestTech preservative applicator. Each of these are powered by a John Deere 5425 Tractor.

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

		per acre	**eggs)**				
Cattle	6.9 Acres (West Array)	5-6 head	Meat	4-5 days at a time during the 1st week of May, June, July, August and September	N/A	N/A	N/A
Cattle	5 Acres (East Array)	5- 6 head	Meat	4-5 days at a time during the 1st week of May, June, July, August and September	N/A	N/A	N/A

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:

Cattle

Pasture Management Plan: List any anticipated seeding, soil amendment, irrigation, pesticide, mowing, etc., including approximate dates and equipment used.

If we decide seeding is necessary, it would be done the first week of April using our Esch No Till Drill to interseed. We will drag the fields to spread manure left from the cows after grazing. Please see soil amendment plan above for details on equipment that will be used. We do not have an irrigation or pesticide plan. Grazing will take place several time throughout the growing season. We will use our 6' pull behind brush hog with our John Deere 5424 tractor to clean up any weeds or areas that were not eaten down during grazing. This will allow us to keep weeds under control and allow, maintain forage quality and reduce grazing patterns.

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.

Cattle will be rotated into the array various time throughout the growing season. We use a pitcher pump well to supply water.

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.

We have an under ground electric fence already in place to keep cattle away from areas in the array to prevent any damage.

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.

Thomas R Roberts
Thomas R Roberts (Feb 2, 2026 11:09:16 EST)

Signature of Landowner

Feb 2, 2026

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.

Thomas R Roberts
Thomas R Roberts (Feb 2, 2026 11:09:16 EST)

Signature of Farm Operator

Feb 2, 2026

Date

Thomas R Roberts
Thomas R Roberts (Feb 2, 2026 11:09:16 EST)

Signature of Landowner

Feb 2, 2026

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.

James Haley

Signature of Solar Facility Owner

Feb 2, 2026

Date

2025 ASTGU Annual Report - Swift River

Final Audit Report 2026-02-02

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