

ASTGU ANNUAL REPORT - 2025

Godfrey Dual Use Solar – 13A Gate Street, Carver, MA

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: Hank Ouimet Farm Owner
Bill Manganello Farm Operator

Farm Name: Godfrey Farm c/o REDP Services, LLC

Legal Structure: Sole Proprietor LLC Corporation
 Partnership Other _____

Mailing Address: 99 Derby Street, Suite 200 Hingham, MA 02043

Street Address (if different): 13A Gate Street, Carver, MA

Contact Phone: Bill 781-831-8496 Hank 603-770-5034

Contact E-mail: Bill Wjmang@hotmail.com Hank houimet@redpllc.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: approximately 12 acres

Gross Annual Revenue for ASTGU Farm Production: \$2,500

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: Standard Solar, Inc.

Solar System Company Address: 530 Gaither Road, Suite 900 Rockville, MD 20850
Solar Company Contact Person/email/tel#:
Jay Smith/jay.smith@standardsolar.com/301.944.5177

ASTGU Project Start-Up/History Information:

Date ASTGU Approved by DOER: 11/30/2018

Date Solar Portion of ASTGU Project Commenced Construction: 8/1/2020

Date Solar Portion of ASTGU Project was Completed & Operational: 6/11/2022

Date Original Agricultural Portion of the ASTGU Project Commenced: 5/1/2021

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

Sowed: 5/1/2021

Over Seeding: 9/5/21

First Mowing: 9/6/21 (grass left to decompose and create more organic matter)

First Harvest: 7/5/2022

Second Harvest: 10/1/2022

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

SOLAR ARRAY DESIGN – PLEASE PROVIDE AS-BUILT SYSTEM INFORMATION

Please provide the following information regarding the solar array design:

Nameplate capacity AC (in MW): 2.0 MWac (Note: 1 MW=1000 kW)

Expected annual generation AC (MWh): 2,700 MWh (Note: 1 MWh=1000 kWh)

Acreage of farmland over which array is installed: approximately 12 acres

System type: Fixed Tracking Other _____

Height of lowest panel edge (in feet): 8' above grade

Height of lowest elevated horizontal mounting (in feet): N/A

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

Steel racking system supported by steel piles (see attached photos)

Description of materials and process used for ground penetration:

Galvanized steel piles (see attached photos)

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

7,344 JA Solar 385W PV modules.

Module spacing along rows <2”; module spacing between rows ~25’

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.”

The solar array was constructed as permitted by the Town of Carver and approved by DOER.

AGRICULTRAL PLAN FOR DUAL-USE AREA

Planned agricultural use, Year 3. 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 3:

How did the Agricultural Production perform versus expectations? Please explain why/why not if you can:

Agricultural production was significantly impacted by poor growing conditions this season. A very wet spring followed by a sustained drought significantly impacted the yields as compared to the previous year. Nonetheless, we continued to focus on building soil health through soil

amendments. Soil amendments included additional lime and fertilizer application in early spring, and a mid-season application of urea to build soil nitrogen.

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

As described in prior reports, REDP continues to partner with Brookside Farm in Plympton for both the Godfrey site and the Swan Holt site. Brookside Farm operates a local grass-fed beef operation, and needs hay and forage area in order to expand its operation. Accordingly, growing forage grasses was selected as the initial crop plan for this site. With increased alfalfa growth, additional markets are being explored for production beyond Brookside's needs.

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

During this past growing season, the first cut of marketable hay was harvested on July 7, 2025 (two weeks later than last year). Subsequent growth was insufficient to support a second cut due to drought. Total yield was 250 bales of hay from approximately 11 acres, at an average weight of 50 lbs/bale.

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

As noted previously, the most significant negative factor was the sustained drought through the majority of the growing season.

As mentioned in prior reports, the cranberry farming employees continued to establish a vegetable operation between several rows of panels. Soil preparation occurred at the beginning of the season and the farm employees continued experimenting with vegetable crops under the panels, including cucumbers, peppers, and sweet corn. They are still acclimating to growing in open field conditions as compared to forested environments, and will likely adopt an irrigation system in the future as the crops suffered during the drought. The irrigation system components have been purchased and are on-site. Even with irrigation not fully installed, they were able to see a small harvest of cucumber and peppers that were used for family consumption.

Lastly, while damage from ATV users trespassing on the farm has been resolved with the installation of perimeter fencing midway through the 2023 season, ATV and dirt bike users still trespass the site to ride the utility transmission easement and this nuisance continues to be an impediment for planned cattle grazing.

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

We expect to continue to expand the irrigation system for the farm. Phase I of the irrigation system is partially complete and all materials are on-site. Once the farm employees determine the final design of the system and complete the installation, it will provide irrigation for vegetable crops to be grown in the vegetable plot in the western ASTGU area. Phase II will

include a well and distribution header for portable livestock watering troughs to be used within the eastern ASTGU area, once Brookside has determined the site is safe for grazing.

Do you expect to grow the same crops on the land in the next 2 years? 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?

In year 5, Brookside Farm expects to continue to grow mixed grasses for hay and forage in the eastern area and a portion of the western area. The same equipment will continue to be used for cutting, teddering, raking and baling the hay. It is Brookside Farm's goal to introduce their grass-fed livestock for rotational grazing within the eastern area in the next several years once hay production has leveled out and once the ATV nuisance has been resolved. Prior to the introduction of livestock, portable electric fencing will be installed beneath the PV array to prevent the livestock from damaging themselves or the PV equipment and cabling.

In year 5, we also expect to continue the partnership with the landowner's cranberry farming employees to grow mixed vegetables within an approximately 1-acre portion of the western ASTGU area. The goal of the partnership is to develop a "community garden" for the benefit of the landowner's farmworkers. These farmworkers are primarily southeast Asian farmworkers who live in urban areas in southeastern MA and do not typically have access to cultivated land for their personal use, and who likely are facing the food insecurity challenges that are on the rise nationwide. This partnership commenced during the 2023 season and included the installation of a perimeter wildlife fence around the proposed mixed vegetable plot, and the procurement of an irrigation system for the vegetable plot. The farmworkers will select the vegetable crops based on their needs and expertise and will dictate the planting, irrigation and cultivation methods.

| Table A: Crop Production – Current Season (2025 - Year 4) | | | | | |
|--|---|---|--|--|---|
| 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 |
| Mixed Grasses* | 11 acres | May 1st, 2021, | July 7th, 2025 | 14,300 lbs** | 12,500 lbs |
| | | | | | |
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***Mixed grasses include the following species: Climax Timothy, Orchard Grass VNS, Teton II Tall Fescue, TetraSween Perennial Ryegrass (Tetraploid), White Clover (Stamina Intermediate) – OMRI Nitro Coated.**

****As noted in our Swan Holt application, Brookside Farm typically expects a hay yield of approximately 0.93 tons/acre from its existing 40 acres of managed hay fields. A reduction factor of 30% has been applied for the “with dual use” scenario to account for PV system impacts (beneath the columns, shading, etc.) as well as slower biomass accumulation for a new hay field.**

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: Mixed grasses for hay

Planting Plan:

No additional grass seed was applied during the 2025 growing season.

Soil Amendment Plan:

Similar to last season, pelletized lime was applied to the entire array area in April at the rate of 250lbs/acre to maintain the soil pH. Also in April, 50 lbs/ac of 19-19-19 fertilizer was applied to the entire array area. Urea was applied at 50 lbs/ac on the hay area of the array in late July (after the first cut of hay) to help increase nitrogen availability and encourage alfalfa growth.

Cultivation Plan:

No specific cultivation activities were conducted in the 2025 growing season.

Irrigation Plan:

Healthy grass growth throughout the early growing season, as well as spot soil moisture checks, indicated that irrigation was not necessary during the early 2025 season; however, natural rainfall through the majority of the growing season was insufficient for expected yields and there is no irrigation infrastructure installed in the hay area.

Pesticide/Herbicide Plan:

No pesticides or herbicides were applied during the 2025 season.

Harvest Plan:

The hay crop was harvested by Brookside Farm using their existing equipment, including a tractor-pulled mower, tedder, rake and baler. Brookside’s equipment easily navigated the widely spaced rows of PV panels and within the perimeter wildlife fence, and all grass up to within a foot or so on either side of each column line was successfully harvested.

Photos from the 2025 season’s farming activities are included in Exhibit A.

| 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 | | | | | | | |
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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:

No grazing during 2025 season.

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

N/A

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.

N/A

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.

N/A

| Table A: Crop Production – Next Season (2026) | | | | | |
|--|---|---|--|---|---|
| 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 |
| Mixed grasses* | ~11 acres | N/A | July and late-September | 20,400 lbs** | 14,300 lbs** |
| Mixed vegetables | ~ 1 acre | May 2026 | Throughout Summer | *** | *** |
| | | | | | |

*** Mixed grasses include the following species: Climax Timothy, Orchard Grass VNS, Teton II Tall Fescue, TetraSween Perennial Ryegrass (Tetraploid), White Clover (Stamina Intermediate) – OMRI Nitro Coated.**

**** Expected yields “without dual use” are based on Brookside Farm’s typical hay yield of 0.93 tons/acre on its existing managed hay fields. A reduction factor of 30% has been applied to the expected yields “with dual use” to account for PV system impacts (unharvested growth near the columns, shading, etc.) as well as slower biomass accumulation for a new hay field.**

*****As noted in the narrative, specific vegetable crops in the farmworker community garden will be selected by the farmworkers. Yield estimates have proven harder to tally than planned as a result of direct family consumption and a language barrier.**

CROP NARRATIVE – Next Season (2026)

*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: Mixed grasses for hay (~11 acres) and a variety of mixed vegetable row crops (~ 1acre)

Planting Plan:

The hay crop has been consistently getting better, specifically in the density of the grass being grown and the presence of alfalfa. The hay area of the array will be scouted while liming at the beginning of April and overseeding of any weak areas will be conducted.

The planting plan for the vegetable garden to be used by the bog owner’s employees will be determined by the bog employees themselves, which after a few years seems to be varied and consistent with permaculture type plantings.

Soil Amendment Plan:

Pelletized lime at a rate of 250 lbs/ac will be applied in early spring 2026. Similar to the 2025 growing season, 19-19-19 slow-release fertilizer is planned to be applied in the spring at a rate of 50 lbs/ac and Urea is planned to be applied after the first cut at a rate of 50 lbs/ac. Brookside Farm will evaluate the area for weaker areas and may apply compost generated by their operation on those areas.

For the farmworker vegetable garden, additional organic matter may be incorporated by hand into the soil based upon the selected vegetable crops.

Cultivation Plan:

For the hay crop, cultivation plan will include monitoring grass growth and soil moisture, and harvesting two cuts of hay using the typical mow, tedder, rake and bale process. Brookside Farm will continue to minimize tedding in order to reduce the number of broken stems during the drying process.

For the farmworker vegetable garden, the cultivation plan will include monitoring moisture, applying organic matter as needed, turning the soil as necessary and weed management. The work to be performed is anticipated to be performed with hand tools.

Irrigation Plan:

It is expected that the installation of the irrigation system will be completed for the western ASTGU array to serve the employee vegetable garden. The irrigation equipment (surface water pump, header and distribution piping, irrigation nozzles, etc.) has been procured and is onsite. The farmworkers will install and maintain the irrigation system to suit their needs, and the amount and timing of irrigation use will be at their discretion. No irrigation is available for the hay crop.

Pesticide/Herbicide Plan:

For the hay crop, no pesticide or herbicide application is anticipated.

For the employee vegetable garden, it is not anticipated that any pesticides or herbicides will be applied. Weeding and insect control will be done by hand.

Harvest Plan:

The hay crop will be harvested by Brookside Farm using their existing equipment, including a tractor-pulled mower, tedder, rake, and baler. It is anticipated that there will be at least 2 hay cuts.

It is anticipated that the employee vegetable garden will be harvested by hand using hoes, shovels, potato diggers, buckets and wheeled carts.

| 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 | | | | | | | |
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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:

No grazing is planned for next season.

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

N/A

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.

N/A

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.

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.

Response: With respect to the reporting obligations associated with qualification of this project as an Agricultural Solar Tariff Generation Unit (ASTGU) under the SMART program, we would note that this project was approved in November 2018 and is subject to the ASTGU guidelines in place at that time (Guideline effective date April 26, 2018). Accordingly, the Godfrey ASTGU project is not subject to this provision.

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.

Farm Operator and Farm Owner

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.



Hank Ouimet, Manager
REDP Services, LLC
Farm Owner

1/7/26

Date

Bill Manganello
Brookside Farm, LLC
Farm Operator

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.



Jay Smith, Director of Asset Management
Standard Solar, Inc.
Solar Facility Owner

01/23/2026

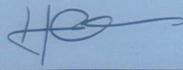
Date

SIGNATURES AND ATTESTATIONS

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

Farm Operator and Farm Owner

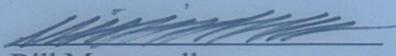
I/we hereby certify that the information submitted regarding the current farm conditions and practice and the Agricultural Plan for the Dual-Use Area is accurate and complete to the best of my/our knowledge and intentions, and that I/we have engaged with the University of Massachusetts Amherst Clean 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.



Hank Ouimet, Manager
REDP Services, LLC
Farm Owner

1/7/26

Date



Bill Manganello
Brookside Farm, LLC
Farm Operator

1/19/26

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.

Jay Smith, Director of Asset Management
Standard Solar, Inc.
Solar Facility Owner

Date

Exhibit A

Photos of 2025 farming activities

Godfrey ASTGU 2025

Early season growth
(mid-April 2025)



Godfrey ASTGU 2025



Late August, after the 1st hay cut
in July, showing poor growth due
to sustained drought



Godfrey ASTGU



Godfrey Bogs (foreground) Godfrey ASTGU (background)