

**Proposal for:  
Castignetti Solar Seeding**

from

**Monarch Vegetation Service, Inc.**

17693 State Highway 285, Cochran, PA 16314  
(814) 337-1974 Estimating@MonarchVeg.com



Bid Date: 3/16/2021  
Time: 12:00PM

Item	Description	Quantity	Unit	Unit Price	Total Price
<b>GROUP 1 Install Cost</b>					
01	Mobilization	1.00	LS	█	█
02	Herbicide Application #1	27.80	ACRE	█	█
03	Herbicide Application #2	27.80	ACRE	█	█
04	Seed (Material Only)	27.80	ACRE	█	█
05	Seed Installation	27.80	ACRE	█	█
				Total:	█
<b>GROUP 2 Maintenance Cost</b>					
01	Maintenance Year 1	27.80	ACRE	█	█
02	Maintenance Year 2	27.80	ACRE	█	█
03	Maintenance Year 3	27.80	ACRE	█	█
				Total:	█
Total For Install Cost					█
Total For Maintenance Cost					█
Total:					█

√ = Locked Bid-Item

! = Zero Total Price

Attachment Enclosed

4/01/2021 10:27 am

Estimator: Randi Grout

## Monarch Vegetation Service, Inc. Job Conditions - Attachment 'A'

Castignetti Solar Seeding

Monarch Vegetation Services, Inc. is qualifying this bid with the following conditions:

- 1) No permits will be obtained by MVS, Inc.
- 2) Contractor will provide reasonable access to the site through the duration of the project.
- 3) Bid proposal was calculated using non-union, non-prevailing wages.
- 4) Prices valid for 30 days from this date.
- 5) MVS, Inc. will not be responsible for any site grading, topsoil furnishing or placing or surveying. Fine grading as specified in the contract documents, shall be performed by the prime contractor. All areas to be seeded by MVS, Inc. shall already be free of rubbish, sticks, roots, and stones.
- 6) Warranty does not cover mortality due to circumstances beyond the control of MVS, Inc. such as animal predation, herbivory damage, improper hydrologic regime, vandalism, storm damage. Native seedings can take up to 3 years to mature. It is important to follow up with a 3-year maintenance/establishment plan to reduce invasive species on site. This 3-year maintenance/establishment period is a requirement for a valid warranty. This proposal includes a 3-year maintenance/establishment period which includes a 75% native vegetation coverage by the end of the third growing season.
- 7) Group 1 Line item 01 includes delivery and removal of equipment, materials, and labor to perform the seeding scope of this project.
- 8) Group 1 Line items 02 and 03 include herbicide applications to kill existing vegetation on site. If there is existing vegetation on site, it must be killed prior to pollinator friendly seeding to reduce competition with the new seeding. If there is no existing vegetation, line items 02 and 03 can be removed from the contract.
- 9) Group 1 Line item 04 includes the pollinator and cover crop seed mix material only. The included cover crop will be oats, grain rye, depending on the time of year for seeding. The included pollinator friendly seed mix can be planted from October 15 - May 31. Seeding will not be warranted if planting from June 1 - October 14. Native seeding follows a different seeding window than naturalized turf type species.

General Pollinator Mix seeds/# seeds/#/mix

Bloom Period	% mix (bulk)	Botanical Name	Common Name	Height	seeds/#	seeds/#/mix
	1-25%	0.05 Agrostis perennans	Autum bent grass	3.5	8000000	400000
	.5-3%	0.02 Eragrostis Spectabilis	Purple lovegrass	1.5	1000000	20000
	10-67%	Schizachyrium scoparium	Little bluestem	3.9	241000	48200
	5-50%	0.237 Bouteloua curtipendula	sideoats grama	3.2	159000	37683
may-jul	.1-5%	0.005 pestimone hirsutus	hairy beardtounge	2.9	3877000	19385
		Chamaecrista fasciculata	partridge pea	2.9	65000	1690
jul-sept	1-4%	0.026				
apr-june	.5-3%	0.02 Coreopsis lanceopata	Lanceleaf coreopsis	3.3	221000	4420
		Gaillardia aristata	perennial gaillardia (blanket flower)	2.3	186000	27900
may-sept	1-15%	0.15				
may-sept	.1-1%	0.002 Oenthera speciosa	showy evening primrose	2	3436000	6872
jul-oct	1-3%	0.03 Rudbeckia hirta	blackeyed susan	3.3	1576000	47280
aug-oct	.5-3%	0.025 Aster prenanthoides	zig zag aster	3.3	700000	17500
july-sept	.3-1%	0.05 Monarda punctata	spotted bebalms	3.3	1472000	73600
may-july	.5-3%	0.03 Anemone canadensis	canadian anemone	2.3	131660	3949.8

4/01/2021 10:27AM

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For Job: Castignetti Solar Seeding

**Monarch Vegetation Service, Inc.**  
**Job Conditions - Attachment 'A'**

Castignetti Solar Seeding							
april-jun	.5-2%	0.02	Aquilegia canadensis	eastern columbine	2.6	504000	10080
jun-aug	.5-3%	0.03	Asclepias tuberosa	butterfly milkweed	2.9	70000	2100
sept-oct	.5-3%	0.03	Aster laevis	smooth blue aster	3.3	1014000	30420
sept-nov	.5-3%	0.03	Aster oblongifolius	aromatic aster	3.3	816000	24480
jun-aug		0.002	Lupinus perennis	perennial blue lupin		19000	38
may-july	.5-3%	0.02	Coreopsis grandiflora	large leaf tick seed	2.6	200000	4000
			Pycnanthemum				
jun-july	.1-.3%	0.003	virginianum	virginia mountainmint	3.3	3872000	11616
jun-se[t	.5-3%						0
			Eupatorium				
jul-oct	.1-2%	0.02	coelestinum	mistflower	3.3	1500000	30000

10) Group 1 Line item 05 includes the installation of the pollinator and cover crop seed mix. Seed mix will be drill seeded in areas accessible with tractor and no till drill seeder. Areas inaccessible with tractor and drill seeder such as under panels will be broadcast seeded. Areas under panels will be scarified to provide better seed to soil contact where broadcast seeding will occur if racking system allows access to perform scarification.

11) Group 2 Line items 01, 02, and 03 include the three-year maintenance/establishment period after seeding. Each year, three maintenance visits will be made to perform either mowing, spot spraying, overseeding in thin spots. Maintenance treatments per visit will be based on site inspections to determine what the best maintenance practice will be for the given site conditions. The line items for each year are based on site maintenance per acre per year to include the site inspections and maintenance tasks for each year.

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Thank you for the opportunity to submit this bid. If you have any questions, please feel free to call our office. MVS, Inc. looks forward to working with you on this project.

# Solar Site Pollinator Habitat Scorecard

For site and seed mix planning, designing, and assessment. Pollinator planting area shall always be managed to prevent and eliminate invasive species as defined in 6 V.S.A. chapter 217 § 5101(2). Scorecards must be renewed every three years or sooner. Standards below refer either to the site plan or an established site. The site area is consistent with the 'Limits of Disturbance' per Net Meter Rule 5.103.



Image courtesy Fresh-Energy

## 1. Percent site's vegetative cover is flowering species

(select one)

- 1-15 percent (5 points)
- 16-30 percent (10 points)
- 31-45 percent (15 points)
- 46-60 percent (20 points)

## 2. Flowering perennial species to be used

(select all that apply)

- Includes species of Northern New England and adjacent New York provenance (5 points)
- Amount of seed to be planted (lbs/acre) is determined according to seed provider's recommended application rate and/or planting density for planted species in the target area (5 points)
- Includes only VT native or naturalized perennial species. (15 points) *Species native to the biophysical region preferred.*

## 3. Cover diversity within the ground cover area

(# of flowering plant species that constitute >2 percent cover each; select one)

- 1-9 species (5 points)
- 10-19 species (10 points)
- 20 or more species (15 points)

## 4. Seasons with at least 3 blooming species with >2 percent cover each (select all that apply)

- Spring (10 points)
- Early summer (5 points)
- Late summer (5 points)
- Fall (5 points)

## 5. Observed pollinator nesting habitat within 0.25 miles

(select all that apply)

- Bare ground patches one square foot or larger, with undisturbed and well-drained soil (2 points)
- Forest edge habitat that includes flowering shrubs and young trees (2 points)
- Cavity nesting sites (e.g., dead trees, snags, fallen logs, shrubs, plants with pithy-stemmed twigs such as sumac, rose, raspberry) (2 points)

Creation of nesting habitat features (e.g. boxes, tunnels) (0.2 points per feature)

# features:            x 0.2 = 0.00 points

## 6. Pollinator management practices (select all that apply)

- Mowing occurs only after October 15, and before May 1 each year; mowing height is 5" or higher (5 points)
- Detailed establishment & management plan (10 points)
- Detailed plant & wildlife monitoring plan (10 points)

## 7. Pesticide risk (select if applicable)

- On-site insecticide use on plants (includes prior application to seeds/plants.) (-40 points)

## 8. Vegetation buffer adjacent to the solar site (select all that apply)

- At least 50% of buffer area vegetative cover planted with flowering plant species (5 points)
- At least 50% of buffer area vegetative cover planted with VT native or naturalized shrub species (5 points)  
*Species native to the biophysical region preferred.*
- Buffer at least 30 feet wide (10 points)

Site Owner or Designee: NYSOLAR03

Date: 23/25/2021

Vegetation Consultant: Monarch Vegetation Services

Seed Supplier: Ernst Seed

Project Address: 3450 W Lake Rd

Target Seeding Date: 3/1/2022

New    Retrofit    Revised Scorecard    Attached Seed Mix Specs or Management Plans

**Pollinator-Friendly  
Score: 102.0**

Meets "Pollinator-friendly Solar" Standard: 70-84

Provides Excellent Habitat: >85

Project Size: 5.0 MWac

The signator certifies that the solar site adheres to this Scorecard in accordance with 6 V.S.A. chapter 217. The practices called for in this Scorecard are subordinate to any requirements of applicable State permits, agency rule or guidance. All solar projects must comply with applicable Vermont Public Utility Commission and Agency of Natural Resources permit conditions, even if those conditions conflict with practices favored by this Scorecard.

Upload completed scorecard at: [go.uvm.edu/pollinator-friendly-solar](http://go.uvm.edu/pollinator-friendly-solar)

This form was produced by the Pollinator-Friendly Solar Initiative of Vermont:

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