

Petition No. 1137  
Amendment #2  
July 12, 2018  
*August 23, 2018 Update*

Ecos Energy LLC is submitting on behalf of Windham Solar LLC (“Windham Solar”) an amendment to an approved petition for declaratory ruling (“Petition”) by the Connecticut Siting Council (“Council”). On August 31<sup>st</sup>, 2017, the Council approved the request to amend the facility per the July 6<sup>th</sup> 2017 amendment application for the final design, construction, operation and maintenance of the initial five (5) 1.0 megawatt facilities. Since Council approval, Windham Solar LLC has completed electrical construction of the five (5) 1.0 megawatt facilities. The conditions outlined in the September 5<sup>th</sup>, 2017 approval letter from the Council were also implemented during the construction of the project; Wood turtle protection was implemented during construction, the abandoned UST tank in the farmstead area was removed and registered with DEEP and communications have been ongoing to with local municipalities. The five facilities are currently operating and Windham Solar will be implementing the long term stormwater measurement plan after final approval from DEEP starting in July of 2018.

Windham Solar LLC is requesting to amend the facility footprint for the construction of the projects last 1.1 megawatt solar photovoltaic renewable energy generating facility on the site per the following attachments. ***The final design will incorporate 3600 modules and will be a 1.0MW AC project. The project will be split into a 2-part footprint, the westerly footprint utilizes the remaining upland area at the south end of the approved footprint expanding slightly to incorporate an efficient electrical string design, 2736 modules will be installed in the area. The easterly footprint of the project includes 864 modules and utilizes the majority of the remaining upland in the southeast corner of the site in the town of Franklin. There will be 25 inverters on the project, 20 of them will contain 375 watt modules and 5 will contain 370 watt modules. Row spacing for this area is 22 feet. The design of the stormwater basins, and the total effective impervious takes this row spacing into account. The increase in module wattage for the project, was selected to supersede the shading losses by the 1’ narrower row spacing, as well as general technology advances since our last module purchase 2 years ago.*** This footprint expansion was required to keep the permitted project size, and address all the final design elements of the project. The following exhibits outline the steps taken to prepare a final site design for the project.

**Project Civil Construction Documents & SWPCP:**

This amendment implements the latest stormwater design requirements recommended by DEEP and adheres to the design requirements outlined in the 2002 CT guidelines for Erosion and Sediment control and the 2004 Connecticut Stormwater Quality manual. Updated civil construction documents, hydraulic calculations and a complete Stormwater Pollution Control Plan has been prepared for the revised project footprint. The SWPCP was submitted to DEEP for approval on July 3<sup>rd</sup>, 2018. 3 copies of the 196-page SWPCP have been submitted with this amendment request, and the full SWPCP can be downloaded in the following link: <https://ecosenergy.box.com/s/fdmb32xa4pcdy7zzy149xrm2pj86apn4>

The revised Civil Construction Documents, the major design element of the SWPCP can be found attached as Exhibit A.

**Wetland Report Update:**

The amendment request includes activity within 100 feet of an isolated hill seep wetland. Highland Soils, LLC has reviewed the isolated wetland and provides specific comments for the activities associated with regulated wetland. The updated wetland report is attached as Exhibit B.

#### System Racking:

The solar racking currently constructed for the five (5) 1.0 megawatt facilities incorporated a design with 4 modules in landscape with a two-post helical ground screw for racking. This amendment requests a design change for 2 modules in portrait, and a ballasted footing design. These footings are either poured on or off site, and placed in the field. The ballast design will minimize earth disturbances by placing at grade footings underneath the racking. This method of construction will speed up racking installation, remove the risks of subgrade rock encounters which occurred on the construction of the initial (5) 1.0 megawatt facilities as well as be more adept to construction issues that could be encountered during winter condition construction. Additional information for the ballast racking can be found attached as Exhibit C.

#### Updated Public Notices:

A revised public notice of the project was made to the abutters and government officials via certified mail distributed on July 11<sup>th</sup>, 2018. On July 14<sup>th</sup>, 2017, a public notice will also be printed in the Chronicle. Supporting document on the public notices is attached as Exhibit D.

#### NDDB Update:

On June 29, 2017 Windham Solar received revised correspondence from Connecticut Department of Energy and Environmental protection relating to the environmental review of the project. The recommended protection strategies, have also been incorporated into the projects SWPCP, and will be implemented during the construction of the Facilities, the NDDB update expires on June 29, 2019. The document has been attached as Exhibit E.

# Exhibit A

## Civil Construction Documents

# Exhibit B

## Wetland Report Update

# Exhibit C

## System racking and foundations

# Exhibit D

## Updated Public Notices

# Exhibit E

## NDDB Update