

Mt Olive Creek Solar, LLC  
Kentucky State Board on Electric  
Generation and Transmission Application

Application Documents

Case No. 2020-00226

May 2021



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# 1. Applicant Information

REQUIREMENT: per KRS 278.706(2)(a); *The name, address, and telephone number of the person proposing to construct and own the merchant electric generating facility*

COMPLIANCE: Please see below for the requested information.

- Name: Mt Olive Creek Solar, LLC  
Attn: Carson Harkrader
- Address: 400 W Main St  
Suite 503  
Durham, NC 27701
- Phone: (919) 682-6822

## 2. Description of Proposed Site

REQUIREMENT: per KRS 278.706(2)(b); *A full description of the proposed site, including a map showing the distance of the proposed site from residential neighborhoods, the nearest residential structures, schools, and public and private parks that are located within a two (2) mile radius of the proposed facility*

COMPLIANCE: The proposed Mt Olive Creek Solar Facility (the Project) will be a 60-megawatt alternating current (MWac) photovoltaic electricity generation facility. The Project is to be located in Russell County, near the town of Russell Springs. The power generated by the Project will be sold on the open market through an existing transmission line that crosses the property.

A map showing the location of residential structures, schools, and public and private parks in relation to the proposed project is located in Attachment A. There are no public or private parks, or healthcare facilities within 2 miles of the Project's radius, and 1 school, the Russell Springs Elementary School is 7,500 feet away (approximately 1.42 miles) from the Project. There are 6 residential neighborhoods (per KRS 278.701(6)) within 2,000 feet of the Project's radius.

The Project will be built on up to 475 acres which has historically been used as pasture and crop land. The equipment onsite will consist of crystalline solar panels, racking, inverters, transformers, a DC-coupled energy storage system, one substation transformer, and associated wiring and balance of system.

The racking system used to fix the solar panels to the ground has a small footprint that does not use concrete, and the panels are not considered impervious as rainwater can travel over and around the panels, making this a low impact development. The panels and racking are no more than 15 feet high at the highest point. The racks will be placed directly onto grass. Gravel will be placed on the access roads throughout the site, and will not be placed under the solar panels.

A video showing the process for solar pile installation onto grass can be found at: <https://www.youtube.com/watch?v=5bE9XexB4yM>. This video is representative of the pile driving installation method that will be used at Mt Olive Creek. Note that the configuration of the racks and panels on the piles will be somewhat different at Mt Olive Creek than the technology shown in this video. The video shows fixed-tilt racks, whereas Mt Olive Creek will use single axis tracking racks which will rotate slowly to track the sun's path from East to West one time throughout each day. Also, at Mt Olive Creek no members of the public will be inside the security fence; this video shows an industry demonstration event where members of the public were able to walk near the installation to view the process.

A fence meeting the National Electric Safety Code requirements, typically a six-foot fence with three strings of barbed wire at the top, will enclose the facility. The Project will comply with the

NESC and American National Standards Institute (ANSI) Z535 Safety Sign Standards for Electric Utility Power Plants and Substations to guide the placement of safety signage around the facility.

Applicant proposes sections of vegetative buffers to help screen the view of the facility from sections of the roads surrounding the Project that do not have existing vegetation to block the view of the Project. The vegetative buffer will consist of two staggered rows of evergreen shrubs that have a mature height of approximately 15 feet. The rows will be spaced approximately 15 feet apart, and the shrubs will be at least three feet in height at time of planting. See the site plan, Attachment A of the Site Assessment Report, for the proposed location of the vegetative buffers.

At least 2 acres of native pollinator species will be planted on the Project site, likely within the setback area as marked on the site plan map in Attachment A of the Site Assessment Report. Pollinating insects are in decline across the US, and pollinator plantings at solar facilities like Mt Olive Creek can support healthy local populations of pollinators.<sup>1</sup> Healthy pollinator populations are essential for certain agricultural crops including soybeans, and the US Department of Agriculture estimates that 35 percent of the world's food crops depend on animal pollinators to reproduce.<sup>2</sup>

There are 2 types of inverters commonly used on solar facilities: central inverters and string inverters. Central inverters are typically located towards the interior of the solar farm, and there is usually 1 central inverter per few dozen rows of solar panels. String inverters are smaller units that are typically attached to the end of each row of solar panels. At the time of this application the Project has not committed to using one or the other technology, and will make this decision prior to construction. If central inverters are used, there will be approximately 15 central inverters in the facility.

The energy storage system is typically housed in a structure similar to a shipping container. HVAC systems are housed on the outside of the structure. There will be approximately 15 energy storage container areas in the facility. The energy storage units are typically located in central locations throughout the site, co-located with central inverters, if central inverters are used.

The site plan and information about the equipment that will be used in the Project were presented to the public through various means throughout the Project's public outreach efforts, as described in Section 6 of this Siting Board Application.

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<sup>1</sup> <https://www.scientificamerican.com/article/solar-farms-shine-a-ray-of-hope-on-bees-and-butterflies/>

<sup>2</sup> <https://www.nrcs.usda.gov/wps/portal/nrcs/main/national/plantsanimals/pollinate/>

### 3. Public Notice Evidence

REQUIREMENT: per KRS 278.706(2)(c); *Evidence of public notice that shall include the location of the proposed site and a general description of the project, state that the proposed construction is subject to approval by the board, and provide the telephone number and address of the Public Service Commission. Public notice shall be given within thirty (30) days immediately preceding the application filing to:*

- 1. Landowners whose property borders the proposed site; and*
- 2. The general public in a newspaper of general circulation in the county or municipality in which the facility is proposed to be located*

COMPLIANCE: A sample letter that was sent to landowners whose property borders the proposed site, followed by the list of addresses and names of those landowners who were sent notices on April 23, 2021 is contained in Attachment B. Two copies of this notice were mailed to each landowner; one via regular US Mail and one via USPS Certified Mail. Please see Attachment B for certified mail receipts.

Also contained in Attachment B is the affidavit of publication of the notice published in The Times Journal on April 8, 2021, which is the newspaper of general circulation in Russell County, as well as a copy of that notice.

A map of the adjacent neighbors, along with a list of each adjacent parcel's ownership, is included in Attachment B to the Site Assessment Report.

## 4. Compliance with Local Ordinances and Regulations

REQUIREMENT: per KRS 278.706(2)(d); *A statement certifying that the proposed plant will be in compliance with all local ordinances and regulations concerning noise control and with any local planning and zoning ordinances. The statement shall also disclose setback requirements established by the planning and zoning commission as provided under KRS 278.704(3)*

COMPLIANCE: The Project lies entirely in Russell County. There are no setback requirements established by a planning and zoning commission for the location of the project, and no noise ordinance that applies to the Project. A letter from Russell County Judge Executive Gary Robertson confirming the lack of planning and zoning and noise ordinance is submitted as Attachment C.

Note that very small portions of two of the parcels which are planned for use by the Project lie partially in adjacent Adair County. However, the Project will avoid those portions of the parcels and will have no equipment or operations in Adair County.

Applicant certifies that the Project will follow any applicable local ordinances and regulations concerning noise control, and with any applicable local planning and zoning ordinances. A statement certifying these facts is included in Attachment D.

## 5. Setback Requirements

REQUIREMENT: per KRS 278.706(2)(e); *If the facility is not proposed to be located on a site of a former coal processing plant and the facility will use on-site waste coal as a fuel source or in an area where a planning and zoning commission has established a setback requirement pursuant to KRS 278.704(3), a statement that the exhaust stack of the proposed facility and any wind turbine is at least one thousand (1,000) feet from the property boundary of any adjoining property owner and all proposed structures or facilities used for generation of electricity are two thousand (2,000) feet from any residential neighborhood, school, hospital, or nursing home facility, unless facilities capable of generating ten megawatts (10MW) or more currently exist on the site. If the facility is proposed to be located on a site of a former coal processing plant and the facility will use on-site waste coal as a fuel source, a statement that the proposed site is compatible with the setback requirements provided under KRS 278.704(5). If the facility is proposed to be located in a jurisdiction that has established setback requirements pursuant to KRS 278.704(3), a statement that the proposed site is in compliance with those established setback requirements:*

COMPLIANCE: Mt Olive Creek is not proposed to be located on the site of a former coal processing plant, nor will it use any waste coal as a fuel source. The Project site does not have any existing electricity generating facilities on-site. Russell County does not have established setback requirements for this location, nor has a planning unit enacted any setback requirements for this location, per the information provided in Section 4 above.

The Project will not include any exhaust stacks or wind turbines as part of the facility, therefore there is no established 1,000 foot setback requirements from the property boundary of any adjoining property owner to the energy generating facilities.

There are six residential neighborhoods (as defined by KRS 278.700(6)) within two thousand (2,000) feet of the Project. Pursuant to KRS 278.704(4), Mt Olive Creek will be moving the Siting Board for a deviation from this setback requirement. See Attachment A for a map showing the residential neighborhoods in relation to the Project. More information about the neighborhoods will be provided in Applicant's motion for deviation.



## 6. Public Notice Report

REQUIREMENT: per KRS 278.706(2)(f); *A complete report of the applicant's public involvement program activities undertaken prior to the filing of the application, including:*

- 1. The scheduling and conducting of a public meeting in the county or counties in which the proposed facility will be constructed at least ninety (90) days prior to the filing of an application, for the purpose of informing the public of the project being considered and receiving comment on it;*
- 2. Evidence that notice of the time, subject, and location of the meeting was published in the newspaper of general circulation in the county, and that individual notice was mailed to all owners of property adjoining the proposed project at least two (2) weeks prior to the meeting; and*
- 3. Any use of media coverage, direct mailing, fliers, newsletters, additional public meetings, establishment of a community advisory group, and any other efforts to obtain local involvement in the siting process*

COMPLIANCE: Mt Olive Creek Solar, LLC, through its parent Carolina Solar Energy III, LLC (collectively, "Carolina Solar Energy"), has made a substantial effort to engage the public in numerous ways regarding the Project. Attachment E contains details of our additional community engagement, in addition to the efforts summarized below.

### Outreach to Russell County Judge/Executive and Fiscal Court

Representatives of Carolina Solar Energy first reached out to Russell County Judge/Executive Gary Robertson in September 2019, and met in person to introduce Carolina Solar Energy and to let him know about the location of the Project. Judge Robertson attended an introduction to solar energy facilities presented by solar companies including Carolina Solar Energy, which took place in Marion County in October of 2019. Carolina Solar Energy also met on different occasions with various Magistrates of the Russell County Fiscal Court, including the Magistrate representing the district where the Project is located.

Most recently, Carolina Solar Energy presented the Project to Judge Robertson and the Russell County Fiscal Court on April 12, 2021 and requested the Fiscal Court's approval of an Industrial Revenue Bond (IRB) and associated Payment in Lieu of Taxes (PILOT) agreement for the Project. The Fiscal Court approved the IRB and PILOT after asking questions and hearing updates about the Project from Carolina Solar Energy. Information about the PILOT and associated tax payments is included in Section 10 of this Application.

## Outreach to Surrounding Landowners

In addition to mailing notice letters of the public meeting and application, Carolina Solar Energy proactively reached out to and met with some of the landowners who own land adjacent to the Project site. This outreach occurred over a period of time, starting in 2019 and continuing through most of 2020. Some of the outreach was proactive, and some was in response to neighbors who had questions or concerns. Most importantly for the proactive outreach, Carolina Solar Energy reached out to two landowners who own parcels on Sano Road that would be surrounded by the solar project. Those two parcels can be seen on the site layout map, Attachment A to the Site Assessment Report.

Carolina Solar Energy also met with other Project neighbors who reached out to us, or who we heard through the Project landowners or through other local connections had questions or concerns about solar. By reaching out to neighbors we thought would be most affected, holding public meetings, mailing letters to all adjacent neighbors, and staying in touch with our landowners and local public officials, Carolina Solar Energy attempted to ensure that all adjacent neighbors had a chance to learn about the Project and to have their questions answered.

This neighbor outreach is further described in Attachment E, which describes individual neighbors that Carolina Solar Energy met with, and whether there was any result of the conversation. In some cases, Carolina Solar Energy modified the Project site plan in order to ensure an adjacent neighbor was comfortable with the Project, as described in Attachment E.

## Public Meetings

Due to the COVID-19 pandemic and in compliance with Kentucky Governor Andy Beshear's Executive Order, dated March 18, 2020, and subsequent executive orders, public meetings for the Project were held virtually. The Project filed a Motion for Approval of Form of Public Meeting with the Siting Board, dated July 15, 2020, setting forth a plan to hold the public meeting online. The Siting Board issued an order dated July 21, 2020, approving a virtual public meeting and setting forth additional requirements for the public meeting.

An initial public meeting was held via Zoom at 5:30pm CDT on August 6, 2020, with an in-person screening option. The meeting consisted of a prerecorded video describing the project and solar technology, followed by a question and answer period where attendees, both virtual and in person, could ask questions to the panel, who all attended virtually via Zoom. The physical portion of the meeting was held at the Lake Cumberland Area Development District Office, located at 2384 Lakeway Dr., Russell Springs, KY.

In addition to holding the public meeting, Carolina Solar Energy displayed a large 24x36" printed copy of the layout map of the solar project on an easel at the entrance to the Russell County Courthouse for the 3 business days prior to the public meeting, together with a copy of the public notice about the public meeting providing instructions on how to register and attend.

A notice announcing the public meeting was printed in the Russell County Times Journal on July 23, 2020. The Project also mailed letters, dated July 21, 2020, to all adjoining landowners notifying them of the virtual meeting, and providing instructions on how to reserve a spot at the physical screening of the public meeting.

Following the initial public meeting, one additional parcel of land was added to the Project layout. The Applicant filed a new Motion for Approval of Form of Public Meeting on September 18, 2020 with the Siting Board to host a second public meeting to notify the public about the addition of the new parcel into the site layout. The Siting Board issued an order dated September 24, 2020, approving the second virtual public meeting and setting forth additional requirements for the public meeting. A notice announcing the second public meeting was printed in the Russell County Times Journal on September 24, 2020.

The second public meeting was held on October 8, 2020. An option for an in-person meeting was available if at least 1 member of the public requested an in-person meeting. No member of the public requested this option, and therefore the second public meeting was virtual without an in-person component.

Attachment F provides the affidavit of publication for each of the notices, a copy of the newspaper notices, and a copy of the letters sent to neighboring landowners of the public meetings. Letters about the second public meeting were only sent to adjacent neighbors of the new parcel that was added after the first public meeting.

The prerecorded video shown at both of the public meetings included presentations from four representatives of Carolina Solar Energy and experts in solar energy, as well as a drone flyover video of a similarly-sized utility scale solar project, with verbal explanation of each component of the project. The video is available on the Carolina Solar Energy website for the Project, <https://www.carolinasolarenergy.com/projects-in-development-source/mt-olive-creek>.<sup>3</sup> All of the experts who presented in the video were available at each public meeting via Zoom to answer questions. The letters advising adjacent neighbors of the public meeting included a website link to the page that includes the video and other information about the project, including the site plan, real estate impact report, and a fact sheet.

The representatives of Carolina Solar Energy and experts in solar energy who were in the video and also present remotely at the Zoom video conference are listed below, with a description of the topics each person covered:

- Carson Harkrader, CEO of Carolina Solar Energy, made welcome and introductory comments about the project and presentation, explained why this solar project is being

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<sup>3</sup> Please note that due to our agreement with the expert witnesses in the video, the video will be removed from our website 1 year after the second public meeting, but a copy can be made available on request by the Siting Board after that time.

proposed in Russell County, and discussed local benefits such as real estate taxes and construction jobs.

- Christopher Jones, Project Manager, discussed the components that make up a solar farm, showed a single solar panel from all angles, discussed the site plan, and narrated the drone flyover of an existing solar project.
- Chris Sandifer, a professional engineer who has decades of experience working for both utilities and solar companies interconnecting solar projects and other energy projects, made statements related to solar technology and health and safety concerns around solar farms.
- Rich Kirkland, licensed real estate appraiser registered in Kentucky, discussed his research on utility scale solar and neighboring residential property values.

## 7. Efforts to locate near Existing Electric Generation

REQUIREMENT: per KRS 278.706(2)(g); *A summary of the efforts made by the applicant to locate the proposed facility on a site where existing electric generating facilities are located;*

COMPLIANCE: It is rare for utility-scale solar projects to be co-located with existing electricity generating infrastructure, such as a coal or natural gas fired power plant. Efforts were made to site the Project where there is existing electricity transmission infrastructure.

The project will interconnect to an on-site, existing transmission line owned by East Kentucky Power Cooperative (EKPC). At the Project's expense, EKPC will build a new tap line to interconnect the Project.

## 8. Proof of Service to County and Municipality Officials

REQUIREMENT: per KRS 278.706(2)(h); *Proof of service of a copy of the application upon the chief executive officer of each county and municipal corporation in which the proposed facility is to be located, and upon the chief officer of each public agency charged with the duty of planning land use in the jurisdiction in which the facility is proposed to be located;*

COMPLIANCE: A copy of the Siting Board application for Mt Olive Creek Solar, LLC was electronically transmitted to the Judge/Executive of Russell County, Gary Robertson, on the date of electronic filing of this application. On inquiry by Mt Olive Creek, Judge Robertson indicated that he would accept an electronic copy of the application, with a paper copy mailed to him separately after the electronic application.

## 9. Effect on Kentucky Electricity Generation System

REQUIREMENT: per KRS 278.706(2)(i); *An analysis of the proposed facility's projected effect on the electricity transmission system in Kentucky;*

COMPLIANCE: The Project will inject renewable electricity generated by the sun into the electricity transmission system in Kentucky. The Project also includes an option for a dc-coupled energy storage system, which if implemented, is designed to store excess electricity generated by the solar panels during the day, in order to supply it to the grid at other times. The energy storage system will also likely assist with providing capacity resources and other auxiliary services to the transmission grid such as frequency regulation. The dc-coupled energy storage system is included within the Project's interconnection applications, but can be removed without penalty if it is not considered economically feasible.

The Project is located within the territory of PJM Interconnection LLC (PJM). PJM is the Regional Transmission Organization for 13 states including parts of Kentucky, and is managing the interconnection of the Project in coordination with East Kentucky Power Cooperative (EKPC), which owns the transmission infrastructure to which the project is proposing to interconnect. The interconnection study process in PJM involves three study phases; Feasibility Study, System Impact Study, and Facilities Study.

Mt Olive Creek Solar, LLC made an interconnection application to PJM in June 2019 to interconnect the project on the Sewellton Jct – Webbs Crossroads 69kV transmission line. Following the application, a kickoff call with PJM and EKPC was held to begin the three-step study process.

The Feasibility Study was completed in January of 2020, and the Feasibility Study Report can be found in Attachment G.

The System Impact Study determines potential impacts to the regional electric grid and the need for any network upgrades to mitigate potential impacts. The System Impact Study Report for the Project was issued in August 2020 and can be found in Attachment H.

The third and final step, the Facilities Study, is currently underway and expected to be issued in mid-2021.

During the System Impact Study, the Project was reviewed for the potential to impact adjoining utilities' transmission systems outside of PJM. PJM has confirmed that there are no utilities outside of PJM that have the potential to be affected by the Project or that require affected systems studies.

A key purpose of PJM and EKPC study process is to estimate the costs of any required upgrades, both at the Project site as well as elsewhere within the PJM transmission system, which the Project would require or contribute to, and to allocate such costs to the Project. The Project will be required to pay for any identified costs in order to interconnect and deliver electricity into the PJM and EKPC transmission system. In addition, Applicant has paid PJM for the costs of the study process.



# 10. Effect on Local and Regional Economies

REQUIREMENT: per KRS 278.706(2)(j); *An analysis of the proposed facility’s economic impact on the affected region and the state;*

COMPLIANCE: See Attachment I for a report on the projected impact of the Project on local and regional economies, written by Paul A. Coomes, Ph.D, an Emeritus Professor of Economics from the University of Louisville.

On page 1 of the report, it states:

“There are two primary impacts expected from the project. First, there will be a one-time spike in construction and linked jobs as the site is constructed over approximately one year. Second, there will be four decades of new tax (PILOT) payments to local jurisdictions in Russell County due to the increased value of real estate and the new tangible property installed at the site. Using company estimates of construction jobs and payroll, I estimate that there will be a total of 199 new jobs in the County in year one, with new payroll of \$9.70 million. And, the PILOT agreement will result in \$1.62 million in payments to County jurisdictions over the next forty years.”

The industrial revenue bond and associated PILOT agreement for the Project was approved by the Russell County Fiscal Court on April 12, 2021. The agreement calls for payments of \$1,000 per megawatt (MW) of stated capacity for the first twenty years of operation, then \$350 per MW for the next twenty years, which will result in PILOT payments as follows:

Project MWac	60
Payment Per Year, Years 1-20	\$ 60,000
Total Payments, Years 1-20	\$ 1,200,000
Payment Per Year, Years 21-40	\$ 21,000
Total Payments, Years 21-40	\$ 420,000
Total Payments, 40 Years	\$ 1,620,000

In addition to the economic impacts described in Professor Coomes’ report, the Project will sell electricity and green credits on the open market, likely entering into a long-term power purchase agreement with a company that has made a commitment to source renewable energy. This power purchase agreement is typically signed before the Project goes into construction. A number of Kentucky-based companies and large Kentucky employers have made commitments to source renewable energy to power their Kentucky operations. Projects such as Mt Olive Creek

will allow these companies to meet their objectives locally, keeping the tax revenue and jobs created by the new renewable energy projects in-state.

## 11. Record of Environmental Violations

REQUIREMENT: per KRS 278.706(2)(k); *A detailed listing of all violations by it, or any person with an ownership interest, of federal or state environmental laws, rules, or administrative regulations, whether judicial or administrative, where violations have resulted in criminal convictions or civil or administrative fines exceeding five thousand dollars (\$5,000). The status of any pending action, whether judicial or administrative, shall also be submitted;*

COMPLIANCE: Neither Mt Olive Creek Solar, LLC, nor any entity with ownership interest in the Project, has violated any state or federal environmental laws or regulations. There are no pending actions against Mt Olive Creek Solar, LLC, nor any entity with ownership interest in the Project.

## 12. Site Assessment Report

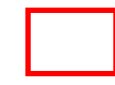
REQUIREMENT: per KRS 278.706(2)(l); *A site assessment report as specified in KRS 278.708. The applicant may submit and the board may accept documentation of compliance with the National Environmental Policy Act (NEPA) rather than a site assessment report*

COMPLIANCE: The Site Assessment report is being contemporaneously filed herewith; please see the separate document titled “Mt Olive Creek Solar: Site Assessment Report” and labeled as Attachment J.

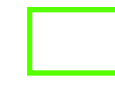
# **Attachment**

## **A. Context Map**

# Mt Olive Solar Context Map



Horseshoe Bend Solar Project Outline



Residential Neighborhoods (as defined in KRS 278.700(6))



Residential Buildings



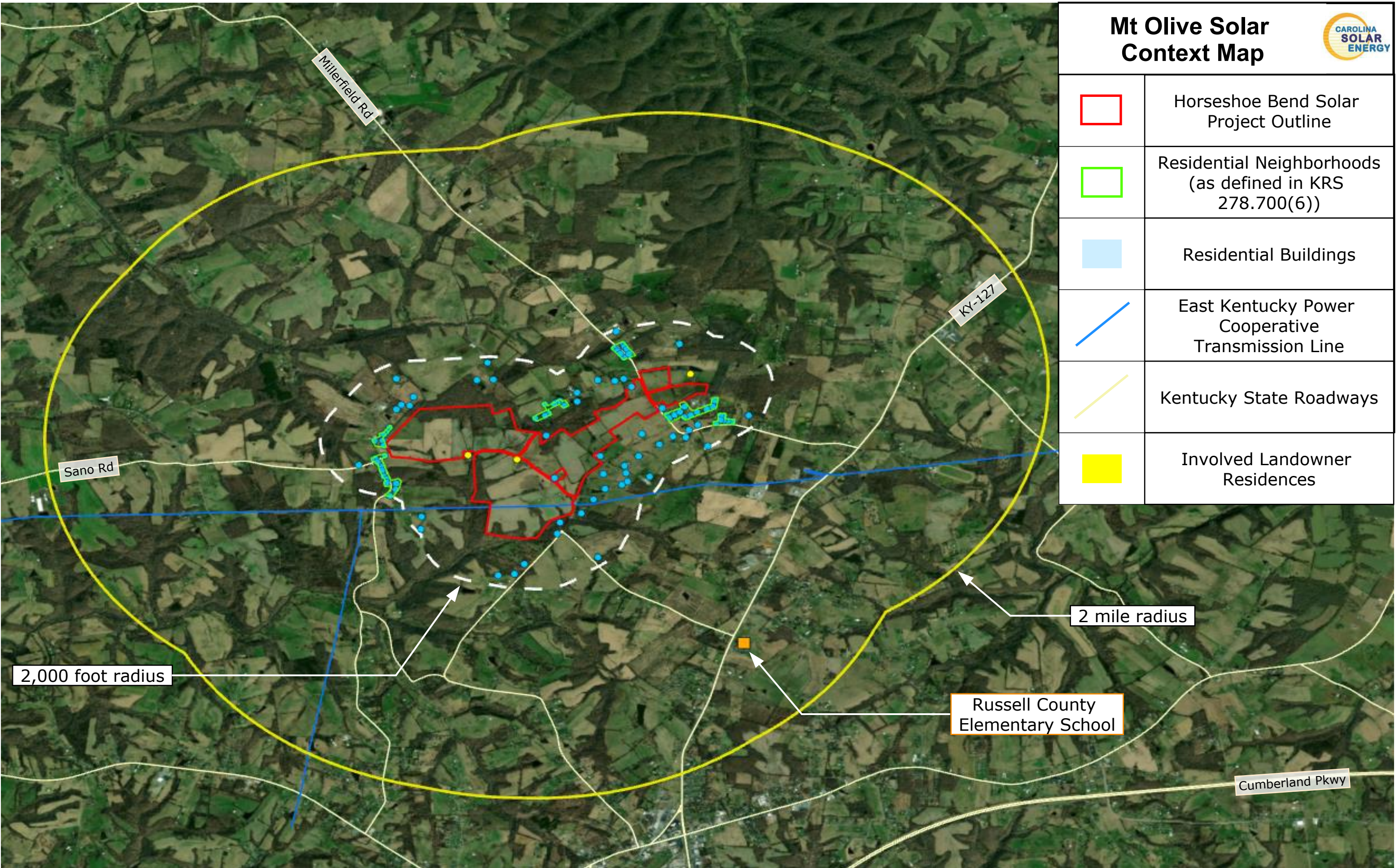
East Kentucky Power Cooperative Transmission Line



Kentucky State Roadways



Involved Landowner Residences



2,000 foot radius

2 mile radius

Russell County Elementary School

# **Attachment**

## **B. Proof of Notice of Application**



400 West Main, Suite 503 Durham, NC 27701  
919-682-6822 www.carolinasolarenergy.com

Name  
Add1  
Add2

CERTIFIED MAIL, RETURN RECEIPT REQUESTED  
With copy to Regular US Mail

**Re: Mt Olive Creek Solar Notice of Application**

Dear name,

This letter is to inform you that Mt Olive Creek Solar, LLC is proposing to construct and operate a solar photovoltaic facility adjacent to property you own in Russell County. The Mt Olive Creek Solar Project is proposed to be located at approximately 481 Sano Rd, Russell Springs, KY 42642. The proposed facility and its applicants previously hosted virtual public meetings about the project on August 6<sup>th</sup>, 2020 and on October 8<sup>th</sup>, 2020. A physical showing of the August 6<sup>th</sup> meeting occurred at the Lake Cumberland Area Development District Office in Russell Springs, KY.

The solar technology used in the project is photovoltaic, and the solar panels sit on racks that are up to 15 feet tall that rotate once per day on a North-South axis to track the sun throughout the day. The 60-megawatt facility will contain solar panels, inverters, a battery energy storage system, a project substation transformer, and an associated balance of wiring system. The Mt Olive Creek Solar Project will be sited on approximately 475 acres of land.

Mt Olive Creek Solar, LLC is required to file an application for construction and operation of the proposed facility. This application is subject to the approval of the Kentucky State Board on Electric Generation and Transmission Siting, which can be reached at P.O. Box 615, 211 Sower Boulevard, Frankfort, Kentucky 40602-0615, or via phone at (502) 564-3940.

A person who wishes to become a party to a proceeding before the board may, by written motion filed no later than thirty (30) days after the application has been submitted, request leave to intervene.

A party may, upon written motion filed no later than thirty (30) days after an application has been filed, request the board to schedule an evidentiary hearing at the offices of the Public Service Commission, 211 Sower Boulevard, Frankfort, Kentucky 40602-0615.



A request for a local public hearing or local public information meeting shall be made by at least three (3) interested persons who reside in the county or municipal corporation in which the plant is proposed to be located. The request shall be made in writing and shall be filed within thirty (30) days following the filing of a completed application.

Any questions related to the application or its process may be directed to the Kentucky State Siting Board, referenced above.

Sincerely,

A handwritten signature in black ink, appearing to read "Carson Harkrader". The signature is fluid and cursive, with a long horizontal stroke at the end.

Carson Harkrader  
CEO



400 West Main, Suite 503 Durham, NC 27701  
919-682-6822 [www.carolinasolarenergy.com](http://www.carolinasolarenergy.com)

Name  
Add1  
Add2

**CERTIFIED MAIL, RETURN RECEIPT REQUESTED**

With copy to Regular US Mail

**Re: Mt Olive Creek Solar Notice of Application**

Dear name,

This letter is to inform you that Mt Olive Creek Solar, LLC is proposing to construct and operate a solar photovoltaic facility adjacent to property you own in Russell County. The Mt Olive Creek Solar Project is proposed to be located at approximately 481 Sano Rd, Russell Springs, KY 42642. The proposed facility and its applicants previously hosted virtual public meetings about the project on August 6<sup>th</sup>, 2020 and on October 8<sup>th</sup>, 2020. A physical showing of the August 6<sup>th</sup> meeting occurred at the Lake Cumberland Area Development District Office in Russell Springs, KY.

The solar technology used in the project is photovoltaic, and the solar panels sit on racks that are up to 15 feet tall that rotate once per day on a North-South axis to track the sun throughout the day. The 60-megawatt facility will contain solar panels, inverters, a battery energy storage system, a project substation transformer, and an associated balance of wiring system. The Mt Olive Creek Solar Project will be sited on approximately 475 acres of land.

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Any questions related to the application or its process may be directed to the Kentucky State Siting Board, referenced above.

Sincerely,

A handwritten signature in black ink, appearing to read "Carson Harkrader". The signature is written in a cursive style with a long horizontal flourish at the end.

Carson Harkrader  
CEO

## NOTICE OF APPLICATION

Mt Olive Creek Solar, LLC, is proposing to construct and operate a 60-megawatt AC solar energy project located in Russell County, Kentucky at approximately 481 Sano Rd, Russell Springs, KY 42642. The proposed Mt Olive Creek Solar Project will consist of up to 475 acres of solar photovoltaic panels and associated racking, inverters, energy storage system, and a project substation transformer.

Mt Olive Creek Solar, LLC is required to file an application for construction and operation of the proposed facility. This application is subject to the approval of the Kentucky State Board on Electric Generation and Transmission Siting, which can be reached at P.O. Box 615, 211 Sower Boulevard, Frankfort, Kentucky 40602-0615, or via phone at (502) 564-3940.

A person who wishes to become a party to a proceeding before the board may, by written motion filed no later than thirty (30) days after the application has been submitted, request leave to intervene.

A party may, upon written motion filed no later than thirty (30) days after an application has been filed, request the board to schedule an evidentiary hearing at the offices of the Public Service Commission, 211 Sower Boulevard, Frankfort, Kentucky 40602-0615.

A request for a local public hearing or local public information meeting shall be made by at least three (3) interested persons who reside in the county or municipal corporation in which the pipeline, plant, or transmission line is proposed to be located. The request shall be made in writing and shall be filed within thirty (30) days following the filing of a completed application.

Any questions related to the application or its process may be directed to the Kentucky State Siting Board, which can be reached at P.O. Box 615, 211 Sower Boulevard, Frankfort, Kentucky 40602-0615, or via phone at (502) 564-3940.



AFFIDAVIT

This is to certify that the 8 day of April, 2021 an ad for MT Olive Creek Solar LLC

was published in the regular edition of the Times Journal, a newspaper published for general circulation in the City of Russell Springs, Russell County and adjoining counties.

Pam Wright

COMMONWEALTH OF KENTUCKY

County of Hart

The foregoing was subscribed and sworn to before me by Pam Wright on this 27 day of April 2021 in \_\_\_\_\_.

Lesia London  
Notary Public, Kentucky, State-At-Large  
My commission expires: 02-09-23

7019 2280 0001 0518 4969

# U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only

For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

Russell Springs, KY 42642

Certified Mail Fee	\$3.60
Extra Services & Fees (check box, add fee as appropriate)	\$2.85
<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

0707  
12

Postmark  
Here

Postage	\$0.55
Total Postage and Fees	\$7.00

04/23/2021

Sent To JIMMIE & LINDA MCGAHA

Street and Apt. No. 655 MILLER SHORT RD.  
City, State, ZIP+4

PS Form 3800, RUSSELL SPRINGS, KY 42642

7019 2280 0001 0518 5003

# U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only

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Russell Springs, KY 42642

Certified Mail Fee	\$3.60
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<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

0707  
12

Postmark  
Here

Postage	\$0.55
Total Postage and Fees	\$7.00

04/23/2021

Sent To MT. OLIVE BAPTIST CHURCH

Street and Apt. No. 922 MT OLIVE CREEK RD  
City, State, ZIP+4

PS Form RUSSELL SPRINGS, KY 42642

7019 2280 0001 0518 4976

# U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only

For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

Russell Springs, KY 42642

Certified Mail Fee	\$3.60
Extra Services & Fees (check box, add fee as appropriate)	\$2.85
<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

0707  
12

Postmark  
Here

Postage	\$0.55
Total Postage and Fees	\$7.00

04/23/2021

Sent To JEFF A. & VICKIE MCGAHA

Street and Apt. No. 818 MILLER SHORT RD.  
City, State, ZIP+4

PS Form RUSSELL SPRINGS, KY 42642

7019 2280 0001 0518 2322

# U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only

For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

Certified Mail Fee	3.60
Extra Services & Fees (check box, add fee as appropriate)	\$2.85
<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

Postmark  
Here

Postage	.55
Total Postage and Fees	\$7.00

4/23/21

Sent To BURTON BARRY

Street and Apt. No. 233 CARLOS FOLEY RD.  
City, State, ZIP+4

PS Form 38 RUSSELL SPRINGS, KY 42642

7019 2280 0001 0518 4952

# U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only

For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

Russell Springs, KY 42642

Certified Mail Fee	\$3.60
Extra Services & Fees (check box, add fee as appropriate)	\$2.85
<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

0707  
12

Postmark  
Here

Postage	\$0.55
Total Postage and Fees	\$7.00

04/23/2021

Sent To JOEY M & WANDA KEAN

Street and Apt. No. 36 W SULPHUR CREEK RD  
City, State, ZIP+4

PS Form RUSSELL SPRINGS KY 42642

7019 2280 0001 0518 2316

# U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only

For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

Russell Springs, KY 42642

Certified Mail Fee	\$3.60
Extra Services & Fees (check box, add fee as appropriate)	\$2.85
<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

0707  
12

Postmark  
Here

Postage	\$0.55
Total Postage and Fees	\$7.00

04/23/2021

Sent To EDMONDS ROBERT H. & PAMELA

Street and Apt. No. PO BOX 127  
City, State, ZIP+4

PS Form RUSSELL SPRINGS, KY 42642

7019 2280 0001 0518 4181

# U.S. Postal Service™ CERTIFIED MAIL® RECEIPT

Domestic Mail Only

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Russell Springs, KY 42642

Certified Mail Fee	\$3.60
Extra Services & Fees (check box, add fee as appropriate)	\$2.85
<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

0707  
12

Postmark  
Here

Postage	\$0.55
Total Postage and Fees	\$7.00

04/23/2021

Sent To SARAH & NICKEALUS BLANKENSHIP

Street and Ap 118 OWENS RD

City, State, Zip RUSSELL SPRINGS KY 42642

Instructions

7019 2280 0001 0518 5034

# U.S. Postal Service™ CERTIFIED MAIL® RECEIPT

Domestic Mail Only

For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

Columbia, KY 42728

Certified Mail Fee	\$3.60
Extra Services & Fees (check box, add fee as appropriate)	\$2.85
<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

0707  
12

Postmark  
Here

Postage	\$0.55
Total Postage and Fees	\$7.00

04/23/2021

Sent To SHAW OLEN HEIRS

Street and Ap 158 W SULPHUR CREEK RD

City, State, Zip COLUMBIA KY 42728

Instructions

7019 2280 0001 0518 2262

# U.S. Postal Service™ CERTIFIED MAIL® RECEIPT

Domestic Mail Only

For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

Russell Springs, KY 42642

Certified Mail Fee	\$3.60
Extra Services & Fees (check box, add fee as appropriate)	\$2.85
<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

0707  
12

Postmark  
Here

Postage	\$0.55
Total Postage and Fees	\$7.00

04/23/2021

Sent To LISA BRIDGEMAN & CARL JR. STEPHENS

Street and Ap 544 MILLER SHORT RD.

City, State, Zip RUSSELL SPRINGS, KY 42642

Instructions

7019 2280 0001 0518 4327

# U.S. Postal Service™ CERTIFIED MAIL® RECEIPT

Domestic Mail Only

For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

Russell Springs, KY 42642

Certified Mail Fee	\$3.60
Extra Services & Fees (check box, add fee as appropriate)	\$2.85
<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

0707  
12

Postmark  
Here

Postage	\$0.55
Total Postage and Fees	\$7.00

04/23/2021

Sent To JACK HUDSON

Street and Ap PO BOX 277

City, State, Zip RUSSELL SPRINGS, KY 42642

Instructions

7019 2280 0001 0518 2279

# U.S. Postal Service™ CERTIFIED MAIL® RECEIPT

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For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

Russell Springs, KY 42642

Certified Mail Fee	\$3.60
Extra Services & Fees (check box, add fee as appropriate)	\$2.85
<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

0707  
12

Postmark  
Here

Postage	\$0.55
Total Postage and Fees	\$7.00

04/23/2021

Sent To LEONARD SULLIVAN

Street and Ap 628 MT OLIVE CREEK RD

City, State, Zip RUSSELL SPRINGS KY 42642

Instructions

7019 2280 0001 0518 5041

# U.S. Postal Service™ CERTIFIED MAIL® RECEIPT

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Russell Springs, KY 42642

Certified Mail Fee	\$3.60
Extra Services & Fees (check box, add fee as appropriate)	\$2.85
<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

0707  
12

Postmark  
Here

Postage	\$0.55
Total Postage and Fees	\$7.00

04/23/2021

Sent To GLEN & SUE SHEPHERD TRUST

Street and Ap 224 MILLER SHORT RD.

City, State, Zip RUSSELL SPRINGS, KY 42642

Instructions



7019 2280 0001 0518 2361

U.S. Postal Service™  
CERTIFIED MAIL® RECEIPT  
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Russell Springs, KY 42642

Certified Mail Fee	\$3.60
Extra Services & Fees (check box, add fee as appropriate)	\$2.85
<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

0707  
12

Postmark  
Here

Postage	\$0.55
Total Postage and Fees	\$7.00

04/23/2021

Sent To MCQUEARY JIMMY & JEANIE  
 Street  
 304 J. MCQUEARY RD.  
 City, State, ZIP+4®  
 PS Form 3800, April 2015 PSN 7530-02-000-9047 Instructions

7019 2280 0001 0518 2354

U.S. Postal Service™  
CERTIFIED MAIL® RECEIPT  
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For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

Russell Springs, KY 42642

Certified Mail Fee	\$3.60
Extra Services & Fees (check box, add fee as appropriate)	\$2.85
<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

0707  
12

Postmark  
Here

Postage	\$0.55
Total Postage and Fees	\$7.00

04/23/2021

Sent To DALE & KIMBERLY SUE CAREY  
 Street and Apt.  
 PO BOX 485  
 City, State, ZIP+4®  
 PS Form 3800, April 2015 PSN 7530-02-000-9047 Instructions

7019 2280 0001 0518 2347

U.S. Postal Service™  
CERTIFIED MAIL® RECEIPT  
Domestic Mail Only

For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

Russell Springs, KY 42642

Certified Mail Fee	\$3.60
Extra Services & Fees (check box, add fee as appropriate)	\$2.85
<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

0707  
12

Postmark  
Here

Postage	\$0.55
Total Postage and Fees	\$7.00

04/23/2021

Sent To Larry and Peggy McGowan  
 Street and Apt. No., or PO Box No.  
 703 AB Rev. Rd  
 City, State, ZIP+4®  
 Russell Springs, KY 42642  
 PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7019 2280 0001 0518 2330

U.S. Postal Service™  
CERTIFIED MAIL® RECEIPT  
Domestic Mail Only

For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

Indianapolis, IN 46239

Certified Mail Fee	\$3.60
Extra Services & Fees (check box, add fee as appropriate)	\$2.85
<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

0707  
12

Postmark  
Here

Postage	\$0.55
Total Postage and Fees	\$7.00

04/23/2021

Sent To FOLEY DORIS  
 Street and Apt.  
 8122 EAST SYCAMORE SPRINGS TRAIL  
 City, State, ZIP+4®  
 PS Form 3800, April 2015 PSN 7530-02-000-9047 Instructions

7019 2280 0001 0518 2309

U.S. Postal Service™  
CERTIFIED MAIL® RECEIPT  
Domestic Mail Only

For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

Russell Springs, KY 42642

Certified Mail Fee	\$3.60
Extra Services & Fees (check box, add fee as appropriate)	\$2.85
<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

0707  
12

Postmark  
Here

Postage	\$0.55
Total Postage and Fees	\$7.00

04/23/2021

Sent To JOHNNY DANIEL  
 Street and Apt.  
 161 CARLUS FOLEY RD.  
 City, State, ZIP+4®  
 PS Form 3800, April 2015 PSN 7530-02-000-9047 Instructions

7019 2280 0001 0518 2293

U.S. Postal Service™  
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For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

Columbia, KY 42728

Certified Mail Fee	\$3.60
Extra Services & Fees (check box, add fee as appropriate)	\$2.85
<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

0707  
12

Postmark  
Here

Postage	\$0.55
Total Postage and Fees	\$7.00

04/23/2021

Sent To ALMON W. & CLEDA WOLFORD  
 Street and Apt.  
 130 ALMON WOLFORD RD  
 City, State, ZIP+4®  
 PS Form 3800, April 2015 PSN 7530-02-000-9047 Instructions

7019 2280 0001 0518 2286

# U.S. Postal Service™ CERTIFIED MAIL® RECEIPT

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Russell Springs, KY 42642

## OFFICIAL USE

Certified Mail Fee	\$3.60
Extra Services & Fees (check box, add fee as appropriate)	\$2.85
<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

0707  
12

Postmark  
Here

Postage	\$0.55
Total Postage and Fees	\$7.00

04/23/2021

Sent To GERALD & REGINA TILLER

Street and  
260 SHAW TILLER RD

City, State,  
RUSSELL SPRINGS KY 42642

PS Form Instructions

7019 2280 0001 0518 5027

# U.S. Postal Service™ CERTIFIED MAIL® RECEIPT

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Russell Springs, KY 42642

## OFFICIAL USE

Certified Mail Fee	\$3.60
Extra Services & Fees (check box, add fee as appropriate)	\$2.85
<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

0707  
12

Postmark  
Here

Postage	\$0.55
Total Postage and Fees	\$7.00

04/23/2021

Sent To GARY D & DONNA ROBERTSON

Street and  
1834 W STEVE WARINER DRIVE

City, State,  
RUSSELL SPRINGS KY 42642

PS Form Instructions

7019 2280 0001 0518 4198

# U.S. Postal Service™ CERTIFIED MAIL® RECEIPT

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For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

Columbia, KY 42728

## OFFICIAL USE

Certified Mail Fee	\$3.60
Extra Services & Fees (check box, add fee as appropriate)	\$2.85
<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

0707  
12

Postmark  
Here

Postage	\$0.55
Total Postage and Fees	\$7.00

04/23/2021

Sent To ARVIE & ALBERTA BURTON

Street  
331 W SULPHUR CREEK RD

City,  
COLUMBIA KY. 42728

PS Instructions

7019 2280 0001 0518 4204

# U.S. Postal Service™ CERTIFIED MAIL® RECEIPT

Domestic Mail Only

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Columbia, KY 42728

## OFFICIAL USE

Certified Mail Fee	\$3.60
Extra Services & Fees (check box, add fee as appropriate)	\$2.85
<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

0707  
12

Postmark  
Here

Postage	\$0.55
Total Postage and Fees	\$7.00

04/23/2021

Sent To ROYCE & ERICA BURTON

Street  
355 W SULPHUR CREEK RD

City,  
COLUMBIA KY. 42728

PS Instructions

7019 2280 0001 0518 4211

# U.S. Postal Service™ CERTIFIED MAIL® RECEIPT

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Russell Springs, KY 42642

## OFFICIAL USE

Certified Mail Fee	\$3.60
Extra Services & Fees (check box, add fee as appropriate)	\$2.85
<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

0707  
12

Postmark  
Here

Postage	\$0.55
Total Postage and Fees	\$7.00

04/23/2021

Sent To DALE & KIMBERLY SUE CAREY

Street a.  
PO BOX 485

City, State  
RUSSELL SPRINGS, KY 42642

PS Form Instructions

7019 2280 0001 0518 4228

# U.S. Postal Service™ CERTIFIED MAIL® RECEIPT

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Russell Springs, KY 42642

## OFFICIAL USE

Certified Mail Fee	\$3.60
Extra Services & Fees (check box, add fee as appropriate)	\$2.85
<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

0707  
12

Postmark  
Here

Postage	\$0.55
Total Postage and Fees	\$7.00

04/23/2021

Sent To COFFEY IRREVOCABLE TRUST

Street  
792 REDMAN RD

City, State  
RUSSELL SPRINGS, KY 42642

PS Form Instructions

U.S. Postal Service™  
CERTIFIED MAIL® RECEIPT  
Domestic Mail Only

For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

Russell Springs, KY 42642

Certified Mail Fee	\$3.60
Extra Services & Fees (check box, add fee as appropriate)	\$2.85
<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

Postage	\$0.55
Total Postage and Fees	\$7.00

0707  
12

Postmark  
Here

04/23/2021

Sent To MARK EARL REDMON

Street and  
474 OLD SANO ROAD

City, State

PS Form RUSSELL SPRINGS KY 42642

ctions

U.S. Postal Service™  
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Street and  
302 HAMPTON PLACE

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Street 630 MILLER SHORT RD  
City, St. RUSSELL SPRINGS KY 42642  
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7019 2280 0001 0518 4297

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City, St. JAMESTOWN KY 42629  
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Columbia, KY 42728

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 Street: 1030 WEST SULPHUR CREEK RD  
 City: COLUMBIA, KY 42728  
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Sent To: BEN E. & JOYCE H. DAVIS  
 Street: 6739 W. HWY. 76  
 City, St: RUSSELL SPRINGS, KY 42642  
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7019 2280 0001 0518 4273

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Total Postage and Fees	\$7.00

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Sent To: ADAM & ASHLEY CREW  
 Street: 990 MILLER SHORT RD  
 City, St: RUSSELL SPRINGS, KY 42642  
 PS For: Instructions

# **Attachment**

## **C. Letter from Russell County Judge Executive Gary Robertson**



***Gary D. Robertson***  
**Russell County Judge Executive**

Phone: (270) 343-2112  
Fax: (270) 343-2134  
email: grobertson@rkygov.com

P.O. BOX 397  
Jamestown, KY 42629

April 12, 2021

Mt. Olive Creek Solar, LLC  
c/o Carolina Solar Energy  
400 W. Main Street, Suite 503  
Durham, NC 27701

RE: Russell County Solar Project

Dear Mr. Harkrader:

This is to confirm that Russell County has no planning and zoning ordinance or jurisdiction, and no noise ordinance, applicable to the proposed Mt. Olive Creek Solar project to be located here in Russell County.

Sincerely,

Gary D. Robertson  
Russell County Judge Executive



# **Attachment**

## **D. Certificate of Compliance**



**KENTUCKY STATE BOARD ON ELECTRIC  
GENERATION AND TRANSMISSION**

**MT OLIVE CREEK SOLAR, LLC  
CASE NO. 2020-00226**

**STATEMENT REGARDING CERTIFICATION REQUIRED BY KRS 728.706(2)(d)**

Comes the undersigned and states as follows:

1. That my name is Carson Harkrader and I am the CEO of Carolina Solar Energy III, LLC, the Manager of Mt Olive Creek Solar, LLC, the Applicant herein;
2. That I am over 18 years of age and I am a resident of the State of North Carolina;
3. That I have conducted an inquiry into the facts contained in this Statement and believe them to be true to the best of my knowledge;
4. That the proposed facility as planned will be in compliance with any and all local ordinances and regulations concerning noise control, and will also be in compliance with any and all applicable local planning and zoning ordinances as provided in KRS 278.704(3);
5. There are no setback requirements established by the planning and zoning commission for land located in Russell County, including Mt Olive Creek Solar's project area.

Signed this 7<sup>th</sup> day of May 2021.



---

CARSON HARKRADER

# **Attachment**

## **E. Public Involvement Activities**

**Mt. Olive Creek Project (Russell County, KY)**  
**Public Involvement Activities (KRS 278.706(2)(f))**

Mt. Olive Creek Solar, LLC, through its parent Carolina Solar Energy III, LLC (collectively, “**Carolina Solar**”), has made a substantial effort to engage the public in numerous ways regarding the Mt. Olive Creek solar power project in Russell County (“**Mt. Olive Creek Project**”). The following is a brief description of the public involvement activities undertaken prior to the submission of this Application. Carolina Solar Energy will continue these efforts and will participate in any public notice, comment and hearings which may be initiated as part of ongoing permitting activities.

- On numerous occasions from September, 2019, through April, 2021, representatives of Carolina Solar have met in Jamestown, KY, and spoken with **Gary Robertson, Russell County Judge-Executive**, to discuss the Mt. Olive Creek Project.
- On October 28, 2019, Solomon Van Meter, Community Representative for Carolina Solar, met with the Director and faculty members of the **Conn Center for Renewable Energy Research at the J.B. Speed School of Engineering, University of Louisville**, to discuss various solar projects, including the Mt. Olive Creek Project.
- On October 29, 2019, Carolina Solar co-hosted a day-long Utility Scale Solar *Workshop for Public Officials* at the Marion County Public Library, Lebanon, KY (announcement/agenda attached). The workshop was attended by approximately thirty (30) public officials from various Kentucky counties in which solar power generation projects have been proposed, including **Gary Robertson, Russell County Judge-Executive**, and other county officials. The workshop featured presentations on topics including environmental health & safety, property values, land leasing, and economic benefits to hosting counties, as well as informal meetings between representatives of Carolina Solar and these Russell County officials.
- On February 12 & 13, 2020, Carson Harkrader, CEO of Carolina Solar, met in Frankfort, KY, with **various members of the Kentucky Legislature, including Sen. Max Wise (Senate District 16)**, whose district includes the Mt. Olive Creek Solar Project, and discussed the project.
- On several occasions beginning in March 2020, Solomon Van Meter, Community Representative for Carolina Solar, met with and spoke with **Victor & Shirley Cooper, adjacent neighbors/landowner to the project**. The Cooper’s initially had concerns over the location of the proposed substation for the project which was subsequently relocated by Carolina Solar, in consultation with the Cooper’s, to address their concerns. The substation location in the site plan included in this application conforms to the agreement reached with the Cooper’s.
- On March 10, 2020, **Athena Cooper Bradshaw** attended a meeting on March 10, 2020, with her parents, Victor & Shirley Cooper, and Solomon Van Meter, Community Representative for Carolina Solar, to discuss the Mt. Olive Creek Solar Project. Ms. Bradshaw is an attorney in Russell Springs and the spouse of a Russell County Deputy Sheriff.
- Beginning in March 2020, Solomon Van Meter, Community Representative for Carolina Solar, had numerous conversations and meetings with **Walter & Jackie Adamson, adjacent neighbor/landowner to the project**. The Adamson’s home is uniquely situated and will be essentially surrounded by the project. Carolina Solar ultimately resolved the Adamson’s concerns

by agreeing to purchase their home before the commencement of construction. The site plan included in this application conforms to the agreement reached with the Adamson's.

- In April 2020, Solomon Van Meter, Community Representative for Carolina Solar, spoke by telephone and met with **Beth & Jeremy Snead, adjacent neighbors/landowners to the project.** The Snead's were concerned about the viewshed from their home and certain subdivision deed restrictions. As a result of these conversations the project layout was modified to the satisfaction of the Snead's. The site plan included in this application conforms to the agreement reached with the Snead's.
- In May 2020, Carson Harkrader, CEO of Carolina Solar, contacted **John Vigel at God's Food Pantry in Russell Springs** with regard to assistance with relief related to COVID-19.
- On June 10, 2020, Solomon Van Meter spoke with Tim Baker, Deacon of the **Mt. Olive Missionary Baptist Church, adjacent neighbor/landowner to the project.** In that conversation Mr. Baker was informed about the project and the public meeting, and Mr. Van Meter offered to come to speak to the congregation (within COVID-19 guidelines). A package of materials, including a project map, was subsequently prepared and delivered to the church.
- On June 26 and July 3, 2020, Solomon Van Meter, Community Representative for Carolina Solar, met with **Jonathan Oaks, Russell County Extension Agent**, and discussed the Mt. Olive Creek Solar Project. (Jonathan Oaks is the son of **Joyce Coppage Oakes, one of the adjacent neighbors/landowners to the project.**) The Coppage family property on Sano Road is uniquely situated and will be essentially surrounded by the Project. Solomon Van Meter shared a large printed copy of the Project layout plan, and discussed the proposed vegetative buffer planting in front of the Coppage property. The Coppage family owns the property but does not live at the residence, and said they appreciated the outreach and information.
- On several occasions Solomon Van Meter spoke by telephone or met with **Kim Carey, adjacent neighbor/landowner to the project.** On June 26, 2020, Van Meter met with **Dale Carey**, husband of Kim Carey, and discussed the Mt. Olive Creek Solar Project. (Kim Carey also works in the office of Kevin Shearer, Russell County Attorney.)
- On July 3, 2020, Solomon Van Meter, Community Representative for Carolina Solar, met with **Glen Sullivan, adjacent neighbor/landowner to the project**, and discussed the Mt. Olive Creek Solar Project.
- On several occasions from July through September 2020, Solomon Van Meter, Community Representative for Carolina Solar, had conversations with and met with **Darryl McGaha, Executive Director of the Lake Cumberland Area Development District**, about the Mt. Olive Creek Solar Project (as well as other projects) and, in particular, about workforce development associated with the project.
- On August 6, 2020, Carolina Solar hosted a **public meeting** about the Mt. Olive Creek Solar Project. The meeting was advertised in Russell County's The Times Journal and announced at a meeting of the Russell County Fiscal Court. The meeting took place on Zoom.com and was also projected onto a screen for in-person attendees at the Lake Cumberland Area development District office in Russell Springs. The meeting featured formal presentations by Carson Harkrader, CEO of Carolina Solar, Chris Jones, Manager of Project Development of Carolina Solar, a consulting electrical engineer, and a real estate valuation expert. Attendees were shown and invited to

inspect enlarged satellite images showing the exact location of the proposed solar array. The meeting afforded attendees the opportunity to ask questions of the presenters. The video presentations shown at the meeting can be viewed on the Carolina Solar website (the video will be taken down 1 year after the public meeting according to Carolina Solar's agreement with the speakers in the video.)

- On September 9, 2020, representatives of Carolina Solar, including Carson Harkrader, CEO, met virtually with **members of the Kentucky Agriculture Commissioner's staff (Tim Hughes, Gus Hebert and Keith Rogers)**, regarding the Mt. Olive Creek Solar Project and other projects.
- On October 1, 2020, Solomon Van Meter, Community Representative for Carolina Solar, met with **Barry Burton, adjacent neighbor/landowner to the project**, and discussed the Mt. Olive Creek Solar Project.
- On October 1, 2020, Solomon Van Meter, Community Representative for Carolina Solar, met with Gary Robertson, Russell County Judge-Executive, and **Steve Richardson, Russell County Fiscal Court Magistrate for District #4**, whose Magisterial District includes the Mt. Olive Creek Solar Project. Also present at the meeting were Tim Popplewell, Russell County PVA, and Kevin Shearer, Russell County Attorney.
- On October 9, 2020, Solomon Van Meter, Community Representative for Carolina Solar, met with **Ronald Johnson, Russell County Fiscal Court District #3 Magistrate, Mickey Garner, Russell County Fiscal Court District #2 Magistrate**, and others, about the project.
- Separately, on October 1, 2020, Solomon Van Meter, Community Representative for Carolina Solar, met with **Larry Holt, Russell County Fiscal Court District #5 Magistrate, Terry Waddell, Russell County Fiscal Court District #1 Magistrate**, and others, about the project.
- On February 19, 2021, Solomon Van Meter, Community Representative for Carolina Solar, met with **Bernie Brown, a long-time resident of Russell Springs**, and discussed the project.
- On April 12, 2021, Solomon Van Meter, Community Representative for Carolina Solar, gave a presentation to the **Russell County Fiscal Court** about the Mt. Olive Creek Solar Project and associated Industrial Revenue Bond (IRB) and payment in lieu of taxes (PILOT) agreement. The Russell County Fiscal Court voted to approve the IRB and associated PILOT.

# **Attachment**

## **F. Public Meeting Documentation**



400 West Main, Suite 503 Durham, NC 27701  
919-682-6822 [www.carolinasolarenergy.com](http://www.carolinasolarenergy.com)

Name  
Address 1

July 21, 2020

**Re: Mt Olive Creek Solar Project – Invitation to Public Meeting**

Dear \_\_\_\_\_,

I'm writing to invite you to a public meeting that our company is hosting for a solar project we are developing on parcels adjacent to a parcel you own in Russell County. We are hosting the public meeting to meet the neighbors of the project and members of the public, share information about the solar project, and provide you with an opportunity to ask us questions and share comments. The proposed solar project is located to the North and South of Sano Road, and North and South of Kentucky Hwy 76, West of Mt Olive Creek Road, approximately 5 miles north of Russell Springs.

The meeting will be held at 5:30pm Central (6:30pm EDT) on Thursday, August 6, 2020. In order to help us adhere to CDC guidelines on social distancing, attendees are strongly encouraged to attend the meeting remotely via video link, by registering at the link shown on the next page. You will need an email address in order to register and login to the meeting, and you will be able to ask questions verbally or in writing live at the end of the meeting. The meeting will also be broadcast at the meeting room in the Lake Cumberland Area Development District building, 2384 Lakeway Dr, Russell Springs, KY 42642. A limited number of spaces are available to attend the broadcast in-person, which will be subject to CDC guidelines on the wearing of masks and social distancing. If you would like to attend in person, please sign up by contacting Tyler Caron at the contact information on the next page. All of our presenters will participate remotely.

If you would like to see a map of the solar project, a large printed map of the proposed layout will be posted at the entrance to the Russell County Courthouse at 410 Monument Square, Russell Springs KY for the 3 business days prior to the public meeting (August 3-5, 2020).

During the public meeting we will show a video with information on the project, our company, solar energy technology, real estate property values, and health and safety. You can also watch the video any time after August 4<sup>th</sup> by accessing it from our website at <https://www.carolinasolarenergy.com/projects-in-development-source/mt-olive-creek>.<sup>1</sup> There you will see a link to watch the video, as well as the layout map and additional information about the project.

---

<sup>1</sup> (You can also access the page by visiting [www.carolinasolarenergy.com](http://www.carolinasolarenergy.com), clicking on our "Projects" page, scrolling down to the bottom, and clicking on the Mt Olive Creek project.)



400 West Main, Suite 503 Durham, NC 27701  
919-682-6822 www.carolinasolarenergy.com

If you would like to speak with us about the project, please call Project Developer Tyler Caron at (984) 260-8038 or email us at [info@carolinasolarenergy.com](mailto:info@carolinasolarenergy.com).

We look forward to seeing you virtually at the public meeting!

Sincerely,

Carson Harkrader  
CEO

*To attend the August 6<sup>th</sup> online Zoom public meeting, please register at:*

<http://solar-projects.net/russellcountysolar>

*To attend the August 6<sup>th</sup> in-person broadcast of the public meeting  
at the Lake Cumberland Area Development District (limited spaces available):*

Please call Tyler Caron at (984) 260-8038 or email [info@carolinasolarenergy.com](mailto:info@carolinasolarenergy.com).





400 West Main, Suite 503 Durham, NC 27701  
919-682-6822 [www.carolinasolarenergy.com](http://www.carolinasolarenergy.com)

### **Mt Olive Creek Solar Fact Sheet**

Mt Olive Creek Solar is a new proposed solar energy facility planned to the North and South of Sano Road, West of Mt Olive Creek Road, approximately 5 miles north of Russell Springs, in Russell County Kentucky. This 60MW facility will generate enough electricity to power approximately 15,000 homes.

The solar technology used is photovoltaic, and the solar panels sit on racks that are up to 15 feet tall that rotate once per day on a North-South axis to track the sun throughout the day. The project will not generate any emissions, and there is no noise audible outside of the project boundary. A battery storage system will be connected to the facility to store electricity generated during the day for delivery to the grid at other times. The solar farm will be set back from property lines and a vegetative buffer will be planted in areas to help screen the facility from sight. The footprint of the facility is approximately 475 acres. Grass will be maintained under the panels with minimal amounts of concrete or gravel used throughout the facility. The facility will be surrounded by a locked security fence.

The solar farm will pay significant county taxes over the course of the project lifetime, with little to no expenditure from the county. The project will generate hundreds of construction jobs for approximately 1 year, as well as a handful of long-term maintenance and landscaping positions. The solar farm will not impact local electricity rates.

Mt Olive Creek Solar will include a strip of native pollinator plantings and pollinator trees in sections of the vegetative buffer.

Real estate appraisers have completed many matched-pair analyses on residential homes adjacent to solar farms. These matched-pair analyses compare the value of homes before and after the construction of a solar farm, and show that the construction of a solar farm has no discernable impact on the sales price of surrounding homes. A report from a Kentucky licensed professional appraiser detailing this analysis for Mt Olive Creek Solar is available on our website and on request.

## PUBLIC NOTICE

Mt Olive Creek Solar, LLC, is proposing to construct and operate a solar energy project in Russell County, Kentucky. The proposed Mt Olive Creek Solar Project will be located on approximately 475 acres to the North and South of Sano Road, West of Mt Olive Creek Road, approximately 5 miles north of Russell Springs. A public meeting to inform the community about the project will take place on Thursday, August 6th, 2020 at 5:30PM Central (6:30PM EDT).

In order to comply with current guidelines for social distancing, the public meeting and information about the project will be accessible as follows:

- (1) All representatives and experts from Mt Olive Creek Solar, LLC making presentations at the public meeting will do so via a Zoom online meeting.
- (2) Members of the public will be able to view the public meeting live, on-line on Zoom, without cost, by registering with a valid email address at <http://solar-projects.net/russellcountysolar>. Participants will be able to ask questions either orally or in writing at the end of the presentation.
- (3) Members of the public are strongly encouraged to participate via the online meeting. The public meeting will also be projected for viewing at the Lake Cumberland Area Development District office, located at 2384 Lakeway Dr., Russell Springs, KY at which a representative of Mt Olive Creek Solar, LLC will be present and a mechanism will be provided for any in-person attendees to ask questions. In-person attendance at the public meeting will be consistent with guidelines and directives from the CDC and the Office of the Governor in effect at the time of the meeting, including, but not limited to, social distancing and the requirement that masks be properly worn at all times. In order to allow for social distancing, the number of attendees at the in-person meeting will be limited and spaces allocated to the public on a first-come, first-served basis. To sign up for a space at the in-person meeting please email [info@carolinasolarenergy.com](mailto:info@carolinasolarenergy.com) or call (984) 260-8038.
- (4) A large-scale layout map of the proposed project will be available to the public for review in the entrance to the Russell County Courthouse at 410 Monument Square, Russell Springs KY for the three business days prior to the public meeting.
- (5) Information about the proposed project is also available online at <https://www.carolinasolarenergy.com/projects-in-development-source/mt-olive-creek>

The proposed photovoltaic solar project will consist of solar panels installed on racks with an approximate maximum height of 15 feet, inverters, transformers, an energy storage system, associated wiring and balance of system, and a substation. The power generated by the project will be linked to the electric transmission grid via the existing transmission easement that crosses the property. The project will install a visual vegetative buffer along portions of the perimeter of the project that will be comprised of two staggered rows of native, evergreen plantings.

Anyone with questions about the August 6th public meeting or the Mt Olive Creek Solar Project may request information by emailing [info@carolinasolarenergy.com](mailto:info@carolinasolarenergy.com) or calling (984) 260-8038.

# Alpha-gal syndrome info

Source: Jonathan Larson, UK extension entomologist, Heather Norman-Burgdolf, extension specialist in food and nutrition

During the summer, our chances of tick interactions increase. Most tick bites are an itchy nuisance that last between seven to 10 days, but ticks can also transmit diseases such as Lyme disease and erlichiosis, a bacterial disease. A relatively new tick-borne illness that is increasingly attracting attention is Alpha-gal syndrome.

Known as the "red meat allergy," alpha-gal syndrome was discovered by medical researchers in 2009 to be a reaction in humans from lone star tick bites. Scientists found the saliva the tick injects as it feeds causes individuals to develop a reaction to galactose-alpha-1,3-galactose, a sugar found in mammalian meats. Alpha-gal is a rare disease but is increasingly becoming more common.

Individuals who have alpha-gal syndrome can have reactions similar to individuals with other food allergies with symptoms that include skin irritations, hives, digestive tract issues and breathing problems. But unlike the typical person with a food allergy, a person with alpha-gal syndrome may have a delayed allergic reaction, anywhere between three and six hours after ingesting mammalian meat or its by-products.

Medical professionals can diagnose alpha-gal through a blood test. Individuals who are diagnosed with the disease must refrain from consuming beef, pork, lamb and venison. Fortunately, they can still eat all fruits, vegetables, grains, nuts, legumes,

## Extension Notes

extension.ca.uky.edu  
Family & Consumer Sciences

### Russell County Extension Office

poultry and seafood. Some people may also have reactions to mammal-derived products including milk, cheese, gelatin and lard. As a result, they and their family members must check ingredient labels before consuming pre-packaged food. As individuals with alpha-gal tend to have different tolerance levels to these meat-derived products, individuals should work with a health care provider, such as a registered dietitian, to find a diet that works for them.

Education and prevention are key in reducing your exposure to ticks and any tick-borne diseases. The lone star tick is found throughout Kentucky and the eastern United States, most likely in or near wooded areas. The tick, which gets its name from the iconic white spot found on the female's back, needs three blood meals for survival during its lifetime. It is most active during April through August.

There are several effective precautions to take to lower your chances of getting a tick bite. Wear a repellent. One repellent containing permethrin can be put on clothing and is particularly effective. Avoid walking through uncut fields or brush and areas with tall vegetation where ticks are most likely to occur. Wear light-colored clothing so ticks are easy to spot. If you are spending a significant amount of

time hiking or pursuing other outdoor activities in a tick-prone area, check yourself, your children and other family members for ticks when returning home. Check pets when they come in from outdoors. Common places that you will find ticks are behind ears, hair, neck, legs and around the waist.

If you find a tick on your body, remove it by using fine-tipped tweezers, getting as close to the skin as possible to make sure the entire tick is removed. Once it's removed, you should wash the bite area and your hands and apply an antiseptic to the bite site.

Additional information is available in UK's publication ENTFACT-618: Ticks and Disease in Kentucky. It is available online at <https://entomology.ca.uky.edu/ef618> or through the Russell County office of the University of Kentucky Cooperative Extension Service.

Educational programs of the Cooperative Extension Service serve all people regardless of economic or social status and will not discriminate on the basis of race, color, ethnic origin, national origin, creed, religion, political belief, sex, sexual orientation, gender identity, gender expressions, pregnancy, marital status, genetic information, age, veteran status, or physical or mental disability.



## ASK Dr. Angelia Let's Relax

"I wanted to talk about it. I wanted to scream. I wanted to yell. I wanted to shout about it. But all I could do was whisper, 'I'm fine.'" -Unknown

In this Pandemic, it is normal to feel a little sad. We all experience moments of sadness. Around one million people also experience depression. So, what's the difference? If sadness is a cold, depression is a serious flu. They might look similar, but they're different.

We feel sad when something happens to us and we feel a sense of loss. Sadness is usually tied to a specific situation. In response we might feel upset, flat, teary, or even in pain. When you're sad about something, you can usually still feel happy about other things.

Sad feelings come and go as a part of life. Sadness is not a negative thing or something to be avoided. In fact, happiness wouldn't exist without sadness. Sadness reminds us that we care. It's a price we pay for engaging in life.

Depression is different. Sadness is a response to a situation but depression overshadows your life. Depression hangs on longer than sadness and impacts more areas of your life. Looking through the lens of Depression everything looks negative

- you, others, the world and the future. Depression can feel like your body is shutting down. It's not just a low mood but being unable to enjoy almost anything in your life. You might lose or gain weight, have difficulty sleeping (or over sleep), experience extreme fatigue and have difficulty concentrating or making decisions.

Depression makes you become very self-critical, even convincing you - you're worthless. The pain that comes with this, when combined with the belief that the future holds no hope for improvement, can lead to thoughts that life isn't worth living. If you or someone you know is Depressed, getting help is as easy as making a phone call. A national helpline is available

-SAMHSA's National Helpline is a free, confidential, 24/7, 365-day-a-year treatment referral and information service (in English and Spanish) for individuals and families facing mental and/or substance use disorders. The number is 1-800-662-4357. You can also call The Adanta Group in your county. During the Pandemic, counseling services can be accessed on your phone.

Remember Jude 1:2, "May mercy, peace, and love be multiplied to you." This week, Seek Peace. Be Grateful in all things. Love God and People. Amen.

Dr. Angelia S. Bryant, Professional Counselor and Educator [angelia.s.bryant@gmail.com](mailto:angelia.s.bryant@gmail.com) 270.566.1122

### Super Crossword

#### Answers

S	P	A	R	E	D	N	O	N	E	T	S	D	A	B	B	L	E	R	
A	R	S	E	N	E	O	C	E	L	O	T	E	M	U	L	A	T	E	
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N	A	S	T	A	S	E	A	W	A	K	E	D	S	A	Y	Y	E	S	

## GROW YOUR BUSINESS!

Call Today to place your business advertisement in the Times Journal - 866-3191

### PUBLIC NOTICE

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In order to comply with current guidelines for social distancing, the public meeting and information about the project will be accessible as follows:

- (1) All representatives and experts from Mt Olive Creek Solar, LLC making presentations at the public meeting will do so via a Zoom online meeting.
- (2) Members of the public will be able to view the public meeting live, on-line on Zoom, without cost, by registering with a valid email address at <http://solar-projects.net/russellcountysolar>. Participants will be able to ask questions either orally or in writing at the end of the presentation.
- (3) Members of the public are strongly encouraged to participate via the online meeting. The public meeting will also be projected for viewing at the Lake Cumberland Area Development District office, located at 2384 Lakeway Dr., Russell Springs, KY at which a representative of Mt Olive Creek Solar, LLC will be present and a mechanism will be provided for any in-person attendees to ask questions. In-person attendance at the public meeting will be consistent with guidelines and directives from the CDC and the Office of the Governor in effect at the time of the meeting, including, but not limited to, social distancing and the requirement that masks be properly worn at all times. In order to allow for social distancing, the number of attendees at the in-person meeting will be limited and spaces allocated to the public on a first-come, first-served basis. To sign up for a space at the in-person meeting please email [info@carolinasolarenergy.com](mailto:info@carolinasolarenergy.com) or call (984) 260-8038.
- (4) A large-scale layout map of the proposed project will be available to the public for review in the entrance to the Russell County Courthouse at 410 Monument Square, Russell Springs KY for the three business days prior to the public meeting.
- (5) Information about the proposed project is also available online at <https://www.carolinasolarenergy.com/projects-in-development-source/mt-olive-creek>

The proposed photovoltaic solar project will consist of solar panels installed on racks with an approximate maximum height of 15 feet, inverters, transformers, an energy storage system, associated wiring and balance of system, and a substation. The power generated by the project will be linked to the electric transmission grid via the existing transmission easement that crosses the property. The project will install a visual vegetative buffer along portions of the perimeter of the project that will be comprised of two staggered rows of native, evergreen plantings.

Anyone with questions about the August 6th public meeting or the Mt Olive Creek Solar Project may request information by emailing [info@carolinasolarenergy.com](mailto:info@carolinasolarenergy.com) or calling (984) 260-8038.

## Somerset Community College makes enrolling for fall easy

The fall semester is just around the corner and that means it's time to enroll in college. Whether you are a returning student, first-time student or an unemployed adult looking for a new career, Somerset Community College (SCC) is offering Pathway to Enrollment the week of July 20. Staff members from Admissions, Financial Aid, Recruiting, Advising and the Bookstore are available by appointment to make enrolling as easy as possible.

By attending the Pathway to Enrollment Event, you'll be entered to win prizes including a Dell Latitude 3301 and VISA Gift Cards.

We invite you to join us on SCC's Somerset and Laurel campuses. When coming to campus you will have to answer a few health check questions. Masks or other face coverings will be required as well social distancing. Signage is posted

throughout all campuses to remind visitors of CDC guidelines. Plexiglas has been installed for the safety of our students and employees.

Attending SCC is one way to stay healthy at home while moving forward with college classes. Fall term classes will be offered in a variety of formats. This includes fully online classes as well as face-to-face classes and some options that are a mixture of both. Face-to-face classes will have a

strong online or remote instruction component, so if classroom classes must move online for a while the transition will be smooth. There are a variety of scheduling options, including 16-, 12-, and 8-week sessions so you can create a schedule of classes that fits your schedule.

For more information about Pathway to Enrollment or to schedule an appointment, visit <https://someset.kctcs.edu/admissions/pathway>.

### NOTICE

The Lake Cumberland Natural Gas Authority will be accepting Design - Build proposals for the design and construction of a 40'x70' pre-engineered metal building to be located in the Russell Springs Business Park. Proposals will be accepted on or before August 4, 2020 by 6:00 p.m. CST, at which time proposals will be opened and read aloud. Proposals are to be delivered to Mr. Terry Russell at 42 Utilities Drive, Russell Springs, KY 42642.

Copies of Bid Specifications can be obtained from Mr. Terry Russell with the Lake Cumberland Natural Gas Authority at 42 Utilities Drive, Russell Springs, KY 42642. He can be contacted at 270-585-1287.

AFFIDAVIT

This is to certify that the 23 day of July,  
2020 an ad for MT Olive Creek Solar LLC

was published in the regular edition of the Times Journal  
\_\_\_\_\_, a newspaper published for general  
circulation in the City of Russell Springs, Russell  
County and adjoining counties.

Pam Wright

COMMONWEALTH OF KENTUCKY

County of Hart

The foregoing was subscribed and sworn to before me by \_\_\_\_\_  
Pam Wright on this 26 day of October  
\_\_\_\_\_ in 2020.

Lesli Logston

Notary Public, Kentucky, State-At-Large

My commission expires: 02-09-23



400 West Main, Suite 503 Durham, NC 27701  
919-682-6822 [www.carolinasolarenergy.com](http://www.carolinasolarenergy.com)

Name

1

2

September 21, 2020

**Re: Mt Olive Creek Solar Project – Invitation to Public Meeting**

Dear Name,

I'm writing to invite you to a public meeting that our company is hosting for a solar project we are developing on parcels adjacent to a parcel you own in Russell County. We are hosting the public meeting to meet the neighbors of the project and members of the public, share information about the solar project, and provide you with an opportunity to ask us questions and share comments. The proposed solar project is located to the North and South of Sano Road, and North and South of Kentucky Hwy 76, West of Mt Olive Creek Road, approximately 5 miles north of Russell Springs. Please note, this meeting is a repeat of a public meeting held on August 6th, 2020 for the same project, and includes 1 additional new parcel of land that has been added to the project.

The meeting will be held at 5:30pm Central (6:30pm EDT) on Thursday, October 8, 2020. There is no scheduled in-person screening of the meeting, however, a local screening of the meeting will be set up if it is requested by at least 1 community member. The physical meeting, if held, will be projected for viewing at a site in Russell Springs at which a representative of Mt Olive Creek Solar, LLC will be present and a mechanism will be provided for any in-person attendees to ask questions. The physical portion of the meeting, if held, will be subject to CDC guidelines on the wearing of masks and social distancing. If you would like to attend in person, please sign up by contacting Tyler Caron at the contact information on the next page. All of our presenters will participate remotely.

During the public meeting we will show a video with information on the project, our company, solar energy technology, real estate property values, and health and safety. You can also watch the video any time by accessing it from our website at <https://www.carolinasolarenergy.com/projects-in-development-source/mt-olive-creek>.<sup>1</sup> There you will see a link to watch the video, as well as the layout map and additional information about the project.

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<sup>1</sup> (You can also access the page by visiting [www.carolinasolarenergy.com](http://www.carolinasolarenergy.com), clicking on our "Projects" page, scrolling down to the bottom, and clicking on the Mt Olive Creek project.)



400 West Main, Suite 503 Durham, NC 27701  
919-682-6822 [www.carolinasolarenergy.com](http://www.carolinasolarenergy.com)

If you would like to speak with us about the project, please call Project Developer Tyler Caron at (984) 260-8038 or email us at [info@carolinasolarenergy.com](mailto:info@carolinasolarenergy.com).

We look forward to seeing you virtually at the public meeting!

Sincerely,

A handwritten signature in black ink, appearing to read "Carson Harkrader". The signature is fluid and cursive, with a long horizontal stroke at the end.

Carson Harkrader  
CEO

To attend the October 8<sup>th</sup> online Zoom public meeting, please register at:

<http://solar-projects.net/russellcountysolar2>

To attend the October 8<sup>th</sup> in-person broadcast of the public meeting  
In Russell County (held by RVSP ONLY):

Please call Tyler Caron at (984) 260-8038 or email [info@carolinasolarenergy.com](mailto:info@carolinasolarenergy.com).



400 West Main, Suite 503 Durham, NC 27701  
919-682-6822 [www.carolinasolarenergy.com](http://www.carolinasolarenergy.com)

## Mt Olive Creek Solar Fact Sheet

Mt Olive Creek Solar is a new proposed solar energy facility planned to the North and South of Sano Road, West of Mt Olive Creek Road, approximately 5 miles north of Russell Springs, in Russell County Kentucky. This 60MW facility will generate enough electricity to power approximately 15,000 homes.

The solar technology used is photovoltaic, and the solar panels sit on racks that are up to 15 feet tall that rotate once per day on a North-South axis to track the sun throughout the day. The project will not generate any emissions, and there is no noise audible outside of the project boundary. A battery storage system will be connected to the facility to store electricity generated during the day for delivery to the grid at other times. The solar farm will be set back from property lines and a vegetative buffer will be planted in areas to help screen the facility from sight. The footprint of the facility is approximately 500 acres. Grass will be maintained under the panels with minimal amounts of concrete or gravel used throughout the facility. The facility will be surrounded by a locked security fence.

The solar farm will pay significant county taxes over the course of the project lifetime, with little to no expenditure from the county. The project will generate hundreds of construction jobs for approximately 1 year, as well as a handful of long-term maintenance and landscaping positions. The solar farm will not impact local electricity rates.

Mt Olive Creek Solar will include a strip of native pollinator plantings and pollinator trees in sections of the vegetative buffer.

Real estate appraisers have completed many matched-pair analyses on residential homes adjacent to solar farms. These matched-pair analyses compare the value of homes before and after the construction of a solar farm, and show that the construction of a solar farm has no discernable impact on the sales price of surrounding homes. A report from a Kentucky licensed professional appraiser detailing this analysis for Mt Olive Creek Solar is available on our website and on request.

## PUBLIC NOTICE

Mt Olive Creek Solar, LLC, is proposing to construct and operate a solar energy project in Russell County, Kentucky. The proposed Mt Olive Creek Solar Project will be located on approximately 500 acres to the North and South of Sano Road, West of Mt Olive Creek Road, approximately 5 miles north of Russell Springs. A public meeting to inform the community about the project will take place on Thursday, October 8th, 2020 at 5:30PM Central (6:30PM EDT). Please note, this meeting is a repeat of a public meeting held on August 6<sup>th</sup>, 2020 for the same project, and includes 1 additional new parcel of land that has been added to the project.

In order to comply with current guidelines for social distancing, the public meeting and information about the project will be accessible as follows:

- (1) All representatives and experts from Mt Olive Creek Solar, LLC making presentations at the public meeting will do so via a Zoom online meeting.
- (2) Members of the public will be able to view the public meeting live, on-line on Zoom, without cost, by registering with a valid email address at <http://solar-projects.net/russellcountysolar2>. Participants will be able to ask questions either orally or in writing at the end of the presentation.
- (3) Members of the public are strongly encouraged to participate via the online meeting. There is no scheduled in-person screening of the meeting, however, a local screening of the meeting will be set up if it is requested by at least 1 community member. The physical meeting, if held, will be projected for viewing at a site in Russell Springs at which a representative of Mt Olive Creek Solar, LLC will be present and a mechanism will be provided for any in-person attendees to ask questions. In-person attendance at the public meeting will be consistent with guidelines and directives from the CDC and the Office of the Governor in effect at the time of the meeting, including, but not limited to, social distancing and the requirement that masks be properly worn at all times. In order to allow for social distancing, the number of attendees at the in-person meeting will be limited. To request an in-person meeting, please email [info@carolinasolarenergy.com](mailto:info@carolinasolarenergy.com) or call (984) 260-8038 at least 48 hours in advance of the meeting time.
- (4) Information about the proposed project, including the layout map, is available online at <https://www.carolinasolarenergy.com/projects-in-development-source/mt-olive-creek>

The proposed photovoltaic solar project will consist of solar panels installed on racks with an approximate maximum height of 15 feet, inverters, transformers, an energy storage system, associated wiring and balance of system, and a substation. The power generated by the project will be linked to the electric transmission grid via the existing transmission easement that crosses the property. The project will install a visual vegetative buffer along portions of the perimeter of the project that will be comprised of two staggered rows of native, evergreen plantings.

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AFFIDAVIT

This is to certify that the 24 day of September  
2020 an ad for MT Olive Creek Solar LLC

was published in the regular edition of the Times Journal  
\_\_\_\_\_, a newspaper published for general  
circulation in the City of Russell Springs, Russell  
County and adjoining counties.

Pam Wright

COMMONWEALTH OF KENTUCKY

County of Hart

The foregoing was subscribed and sworn to before me by Pam Wright  
2020 on this 26 day of October  
\_\_\_\_\_ in \_\_\_\_\_.

Lesi Logston

Notary Public, Kentucky, State-At-Large

My commission expires: 02-09-23



400 West Main, Suite 503 Durham, NC 27701  
919-682-6822 [www.carolinasolarenergy.com](http://www.carolinasolarenergy.com)

Name  
Address 1

July 21, 2020

**Re: Mt Olive Creek Solar Project – Invitation to Public Meeting**

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The meeting will be held at 5:30pm Central (6:30pm EDT) on Thursday, August 6, 2020. In order to help us adhere to CDC guidelines on social distancing, attendees are strongly encouraged to attend the meeting remotely via video link, by registering at the link shown on the next page. You will need an email address in order to register and login to the meeting, and you will be able to ask questions verbally or in writing live at the end of the meeting. The meeting will also be broadcast at the meeting room in the Lake Cumberland Area Development District building, 2384 Lakeway Dr, Russell Springs, KY 42642. A limited number of spaces are available to attend the broadcast in-person, which will be subject to CDC guidelines on the wearing of masks and social distancing. If you would like to attend in person, please sign up by contacting Tyler Caron at the contact information on the next page. All of our presenters will participate remotely.

If you would like to see a map of the solar project, a large printed map of the proposed layout will be posted at the entrance to the Russell County Courthouse at 410 Monument Square, Russell Springs KY for the 3 business days prior to the public meeting (August 3-5, 2020).

During the public meeting we will show a video with information on the project, our company, solar energy technology, real estate property values, and health and safety. You can also watch the video any time after August 4<sup>th</sup> by accessing it from our website at <https://www.carolinasolarenergy.com/projects-in-development-source/mt-olive-creek>.<sup>1</sup> There you will see a link to watch the video, as well as the layout map and additional information about the project.

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400 West Main, Suite 503 Durham, NC 27701  
919-682-6822 www.carolinasolarenergy.com

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We look forward to seeing you virtually at the public meeting!

Sincerely,

Carson Harkrader  
CEO

*To attend the August 6<sup>th</sup> online Zoom public meeting, please register at:*

<http://solar-projects.net/russellcountysolar>

*To attend the August 6<sup>th</sup> in-person broadcast of the public meeting at the Lake Cumberland Area Development District (limited spaces available):*

Please call Tyler Caron at (984) 260-8038 or email [info@carolinasolarenergy.com](mailto:info@carolinasolarenergy.com).



400 West Main, Suite 503 Durham, NC 27701  
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- (5) Information about the proposed project is also available online at <https://www.carolinasolarenergy.com/projects-in-development-source/mt-olive-creek>

The proposed photovoltaic solar project will consist of solar panels installed on racks with an approximate maximum height of 15 feet, inverters, transformers, an energy storage system, associated wiring and balance of system, and a substation. The power generated by the project will be linked to the electric transmission grid via the existing transmission easement that crosses the property. The project will install a visual vegetative buffer along portions of the perimeter of the project that will be comprised of two staggered rows of native, evergreen plantings.

Anyone with questions about the August 6th public meeting or the Mt Olive Creek Solar Project may request information by emailing [info@carolinasolarenergy.com](mailto:info@carolinasolarenergy.com) or calling (984) 260-8038.

# Alpha-gal syndrome info

Source: Jonathan Larson, UK extension entomologist, Heather Norman-Burgdolf, extension specialist in food and nutrition

During the summer, our chances of tick interactions increase. Most tick bites are an itchy nuisance that last between seven to 10 days, but ticks can also transmit diseases such as Lyme disease and erlichiosis, a bacterial disease. A relatively new tick-borne illness that is increasingly attracting attention is Alpha-gal syndrome.

Known as the "red meat allergy," alpha-gal syndrome was discovered by medical researchers in 2009 to be a reaction in humans from lone star tick bites. Scientists found the saliva the tick injects as it feeds causes individuals to develop a reaction to galactose-alpha-1,3-galactose, a sugar found in mammalian meats. Alpha-gal is a rare disease but is increasingly becoming more common.

Individuals who have alpha-gal syndrome can have reactions similar to individuals with other food allergies with symptoms that include skin irritations, hives, digestive tract issues and breathing problems. But unlike the typical person with a food allergy, a person with alpha-gal syndrome may have a delayed allergic reaction, anywhere between three and six hours after ingesting mammalian meat or its by-products.

Medical professionals can diagnose alpha-gal through a blood test. Individuals who are diagnosed with the disease must refrain from consuming beef, pork, lamb and venison. Fortunately, they can still eat all fruits, vegetables, grains, nuts, legumes,

## Extension Notes

extension.ca.uky.edu  
Family & Consumer Sciences

### Russell County Extension Office

poultry and seafood. Some people may also have reactions to mammal-derived products including milk, cheese, gelatin and lard. As a result, they and their family members must check ingredient labels before consuming pre-packaged food. As individuals with alpha-gal tend to have different tolerance levels to these meat-derived products, individuals should work with a health care provider, such as a registered dietitian, to find a diet that works for them.

Education and prevention are key in reducing your exposure to ticks and any tick-borne diseases. The lone star tick is found throughout Kentucky and the eastern United States, most likely in or near wooded areas. The tick, which gets its name from the iconic white spot found on the female's back, needs three blood meals for survival during its lifetime. It is most active during April through August.

There are several effective precautions to take to lower your chances of getting a tick bite. Wear a repellent. One repellent containing permethrin can be put on clothing and is particularly effective. Avoid walking through uncut fields or brush and areas with tall vegetation where ticks are most likely to occur. Wear light-colored clothing so ticks are easy to spot. If you are spending a significant amount of

time hiking or pursuing other outdoor activities in a tick-prone area, check yourself, your children and other family members for ticks when returning home. Check pets when they come in from outdoors. Common places that you will find ticks are behind ears, hair, neck, legs and around the waist.

If you find a tick on your body, remove it by using fine-tipped tweezers, getting as close to the skin as possible to make sure the entire tick is removed. Once it's removed, you should wash the bite area and your hands and apply an antiseptic to the bite site.

Additional information is available in UK's publication ENTFACT-618: Ticks and Disease in Kentucky. It is available online at <https://entomology.ca.uky.edu/ef618> or through the Russell County office of the University of Kentucky Cooperative Extension Service.

Educational programs of the Cooperative Extension Service serve all people regardless of economic or social status and will not discriminate on the basis of race, color, ethnic origin, national origin, creed, religion, political belief, sex, sexual orientation, gender identity, gender expressions, pregnancy, marital status, genetic information, age, veteran status, or physical or mental disability.



## ASK Dr. Angelia

### Let's Relax

"I wanted to talk about it. I wanted to scream. I wanted to yell. I wanted to shout about it. But all I could do was whisper, 'I'm fine.'" -Unknown

In this Pandemic, it is normal to feel a little sad. We all experience moments of sadness. Around one million people also experience depression. So, what's the difference? If sadness is a cold, depression is a serious flu. They might look similar, but they're different.

We feel sad when something happens to us and we feel a sense of loss. Sadness is usually tied to a specific situation. In response we might feel upset, flat, teary, or even in pain. When you're sad about something, you can usually still feel happy about other things.

Sad feelings come and go as a part of life. Sadness is not a negative thing or something to be avoided. In fact, happiness wouldn't exist without sadness. Sadness reminds us that we care. It's a price we pay for engaging in life.

Depression is different. Sadness is a response to a situation but depression overshadows your life. Depression hangs on longer than sadness and impacts more areas of your life. Looking through the lens of Depression everything looks negative

- you, others, the world and the future.

Depression can feel like your body is shutting down. It's not just a low mood but being unable to enjoy almost anything in your life. You might lose or gain weight, have difficulty sleeping (or over sleep), experience extreme fatigue and have difficulty concentrating or making decisions.

Depression makes you become very self-critical, even convincing you - you're worthless. The pain that comes with this, when combined with the belief that the future holds no hope for improvement, can lead to thoughts that life isn't worth living. If you or someone you know is Depressed, getting help is as easy as making a phone call. A national helpline is available

-SAMHSA's National Helpline is a free, confidential, 24/7, 365-day-a-year treatment referral and information service (in English and Spanish) for individuals and families facing mental and/or substance use disorders. The number is 1-800-662-4357. You can also call The Adanta Group in your county. During the Pandemic, counseling services can be accessed on your phone.

Remember Jude 1:2, "May mercy, peace, and love be multiplied to you." This week, Seek Peace. Be Grateful in all things. Love God and People. Amen.

Dr. Angelia S. Bryant, Professional Counselor and Educator [angelia.s.bryant@gmail.com](mailto:angelia.s.bryant@gmail.com) 270.566.1122

## Super Crossword

### Answers

S	P	A	R	E	D	N	O	N	E	T	S	D	A	B	B	L	E	R	
A	R	S	E	N	E	O	C	E	L	O	T	E	M	U	L	A	T	E	
H	O	L	D	E	N	G	R	A	H	A	M	S	C	I	T	Y	M	A	P
A	T	E	S	U	D	S	I	N	G	I	O	N	A	L	E				
R	E	E	S	E	L	I	E	D	I	T	S	Y	D	A	R	I	N		
A	M	P	L	E	J	A	C	K	S	R	A	I	S	I	N	B	R	A	T
O	L	E	G	O	W	L	E	T	N	A	H								
D	O	J	O	W	E	N	T	T	O	B	O	L	T	O	N	U	S		
A	D	E	P	T	R	E	O	R	O	O	K	I	E	C	R	I	S	P	
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L	U	C	K	Y	C	H	A	R	T	S	L	A	H	D	A	R	E	R	
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V	O	L	C	A	N	O	S	H	R	E	D	D	E	D	C	H	E	A	T
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N	A	S	T	A	S	E	A	W	A	K	E	D	S	A	Y	Y	E	S	

## GROW YOUR BUSINESS!

Call Today to place your business advertisement in the Times Journal - 866-3191

## PUBLIC NOTICE

Mt Olive Creek Solar, LLC, is proposing to construct and operate a solar energy project in Russell County, Kentucky. The proposed Mt Olive Creek Solar Project will be located on approximately 475 acres to the North and South of Sano Road, West of Mt Olive Creek Road, approximately 5 miles north of Russell Springs. A public meeting to inform the community about the project will take place on Thursday, August 6th, 2020 at 5:30PM Central (6:30PM EDT).

In order to comply with current guidelines for social distancing, the public meeting and information about the project will be accessible as follows:

- (1) All representatives and experts from Mt Olive Creek Solar, LLC making presentations at the public meeting will do so via a Zoom online meeting.
- (2) Members of the public will be able to view the public meeting live, on-line on Zoom, without cost, by registering with a valid email address at <http://solar-projects.net/russellcountysolar>. Participants will be able to ask questions either orally or in writing at the end of the presentation.
- (3) Members of the public are strongly encouraged to participate via the online meeting. The public meeting will also be projected for viewing at the Lake Cumberland Area Development District office, located at 2384 Lakeway Dr., Russell Springs, KY at which a representative of Mt Olive Creek Solar, LLC will be present and a mechanism will be provided for any in-person attendees to ask questions. In-person attendance at the public meeting will be consistent with guidelines and directives from the CDC and the Office of the Governor in effect at the time of the meeting, including, but not limited to, social distancing and the requirement that masks be properly worn at all times. In order to allow for social distancing, the number of attendees at the in-person meeting will be limited and spaces allocated to the public on a first-come, first-served basis. To sign up for a space at the in-person meeting please email [info@carolinasolarenergy.com](mailto:info@carolinasolarenergy.com) or call (984) 260-8038.
- (4) A large-scale layout map of the proposed project will be available to the public for review in the entrance to the Russell County Courthouse at 410 Monument Square, Russell Springs KY for the three business days prior to the public meeting.
- (5) Information about the proposed project is also available online at <https://www.carolinasolarenergy.com/projects-in-development-source/mt-olive-creek>

The proposed photovoltaic solar project will consist of solar panels installed on racks with an approximate maximum height of 15 feet, inverters, transformers, an energy storage system, associated wiring and balance of system, and a substation. The power generated by the project will be linked to the electric transmission grid via the existing transmission easement that crosses the property. The project will install a visual vegetative buffer along portions of the perimeter of the project that will be comprised of two staggered rows of native, evergreen plantings.

Anyone with questions about the August 6th public meeting or the Mt Olive Creek Solar Project may request information by emailing [info@carolinasolarenergy.com](mailto:info@carolinasolarenergy.com) or calling (984) 260-8038.

## Somerset Community College makes enrolling for fall easy

The fall semester is just around the corner and that means it's time to enroll in college. Whether you are a returning student, first-time student or an unemployed adult looking for a new career, Somerset Community College (SCC) is offering Pathway to Enrollment the week of July 20. Staff members from Admissions, Financial Aid, Recruiting, Advising and the Bookstore are available by appointment to make enrolling as easy as possible.

By attending the Pathway to Enrollment Event, you'll be entered to win prizes including a Dell Latitude 3301 and VISA Gift Cards.

We invite you to join us on SCC's Somerset and Laurel campuses. When coming to campus you will have to answer a few health check questions. Masks or other face coverings will be required as well social distancing. Signage is posted

throughout all campuses to remind visitors of CDC guidelines. Plexiglas has been installed for the safety of our students and employees.

Attending SCC is one way to stay healthy at home while moving forward with college classes. Fall term classes will be offered in a variety of formats. This includes fully online classes as well as face-to-face classes and some options that are a mixture of both. Face-to-face classes will have a

strong online or remote instruction component, so if classroom classes must move online for a while the transition will be smooth. There are a variety of scheduling options, including 16-, 12-, and 8-week sessions so you can create a schedule of classes that fits your schedule.

For more information about Pathway to Enrollment or to schedule an appointment, visit <https://someset.kctcs.edu/admissions/pathway>.

## NOTICE

The Lake Cumberland Natural Gas Authority will be accepting Design - Build proposals for the design and construction of a 40'x70' pre-engineered metal building to be located in the Russell Springs Business Park. Proposals will be accepted on or before August 4, 2020 by 6:00 p.m. CST, at which time proposals will be opened and read aloud. Proposals are to be delivered to Mr. Terry Russell at 42 Utilities Drive, Russell Springs, KY 42642.

Copies of Bid Specifications can be obtained from Mr. Terry Russell with the Lake Cumberland Natural Gas Authority at 42 Utilities Drive, Russell Springs, KY 42642. He can be contacted at 270-585-1287.

AFFIDAVIT

This is to certify that the 23 day of July,  
2020 an ad for MT Olive Creek Solar LLC

was published in the regular edition of the Times Journal  
\_\_\_\_\_, a newspaper published for general  
circulation in the City of Russell Springs, Russell  
County and adjoining counties.

Pam Wright

COMMONWEALTH OF KENTUCKY

County of Hart

The foregoing was subscribed and sworn to before me by \_\_\_\_\_  
Pam Wright on this 26 day of October  
\_\_\_\_\_ in 2020.

Lesli Logston

Notary Public, Kentucky, State-At-Large

My commission expires: 02-09-23





400 West Main, Suite 503 Durham, NC 27701  
919-682-6822 [www.carolinasolarenergy.com](http://www.carolinasolarenergy.com)

Name

1  
2

September 21, 2020

**Re: Mt Olive Creek Solar Project – Invitation to Public Meeting**

Dear Name,

I'm writing to invite you to a public meeting that our company is hosting for a solar project we are developing on parcels adjacent to a parcel you own in Russell County. We are hosting the public meeting to meet the neighbors of the project and members of the public, share information about the solar project, and provide you with an opportunity to ask us questions and share comments. The proposed solar project is located to the North and South of Sano Road, and North and South of Kentucky Hwy 76, West of Mt Olive Creek Road, approximately 5 miles north of Russell Springs. Please note, this meeting is a repeat of a public meeting held on August 6th, 2020 for the same project, and includes 1 additional new parcel of land that has been added to the project.

The meeting will be held at 5:30pm Central (6:30pm EDT) on Thursday, October 8, 2020. There is no scheduled in-person screening of the meeting, however, a local screening of the meeting will be set up if it is requested by at least 1 community member. The physical meeting, if held, will be projected for viewing at a site in Russell Springs at which a representative of Mt Olive Creek Solar, LLC will be present and a mechanism will be provided for any in-person attendees to ask questions. The physical portion of the meeting, if held, will be subject to CDC guidelines on the wearing of masks and social distancing. If you would like to attend in person, please sign up by contacting Tyler Caron at the contact information on the next page. All of our presenters will participate remotely.

During the public meeting we will show a video with information on the project, our company, solar energy technology, real estate property values, and health and safety. You can also watch the video any time by accessing it from our website at <https://www.carolinasolarenergy.com/projects-in-development-source/mt-olive-creek>.<sup>1</sup> There you will see a link to watch the video, as well as the layout map and additional information about the project.

---

<sup>1</sup> (You can also access the page by visiting [www.carolinasolarenergy.com](http://www.carolinasolarenergy.com), clicking on our "Projects" page, scrolling down to the bottom, and clicking on the Mt Olive Creek project.)



400 West Main, Suite 503 Durham, NC 27701  
919-682-6822 [www.carolinasolarenergy.com](http://www.carolinasolarenergy.com)

If you would like to speak with us about the project, please call Project Developer Tyler Caron at (984) 260-8038 or email us at [info@carolinasolarenergy.com](mailto:info@carolinasolarenergy.com).

We look forward to seeing you virtually at the public meeting!

Sincerely,

A handwritten signature in black ink, appearing to read "Carson Harkrader", with a stylized flourish at the end.

Carson Harkrader  
CEO

To attend the October 8<sup>th</sup> online Zoom public meeting, please register at:

<http://solar-projects.net/russellcountysolar2>

To attend the October 8<sup>th</sup> in-person broadcast of the public meeting  
In Russell County (held by RVSP ONLY):

Please call Tyler Caron at (984) 260-8038 or email [info@carolinasolarenergy.com](mailto:info@carolinasolarenergy.com).



400 West Main, Suite 503 Durham, NC 27701  
919-682-6822 [www.carolinasolarenergy.com](http://www.carolinasolarenergy.com)

## Mt Olive Creek Solar Fact Sheet

Mt Olive Creek Solar is a new proposed solar energy facility planned to the North and South of Sano Road, West of Mt Olive Creek Road, approximately 5 miles north of Russell Springs, in Russell County Kentucky. This 60MW facility will generate enough electricity to power approximately 15,000 homes.

The solar technology used is photovoltaic, and the solar panels sit on racks that are up to 15 feet tall that rotate once per day on a North-South axis to track the sun throughout the day. The project will not generate any emissions, and there is no noise audible outside of the project boundary. A battery storage system will be connected to the facility to store electricity generated during the day for delivery to the grid at other times. The solar farm will be set back from property lines and a vegetative buffer will be planted in areas to help screen the facility from sight. The footprint of the facility is approximately 500 acres. Grass will be maintained under the panels with minimal amounts of concrete or gravel used throughout the facility. The facility will be surrounded by a locked security fence.

The solar farm will pay significant county taxes over the course of the project lifetime, with little to no expenditure from the county. The project will generate hundreds of construction jobs for approximately 1 year, as well as a handful of long-term maintenance and landscaping positions. The solar farm will not impact local electricity rates.

Mt Olive Creek Solar will include a strip of native pollinator plantings and pollinator trees in sections of the vegetative buffer.

Real estate appraisers have completed many matched-pair analyses on residential homes adjacent to solar farms. These matched-pair analyses compare the value of homes before and after the construction of a solar farm, and show that the construction of a solar farm has no discernable impact on the sales price of surrounding homes. A report from a Kentucky licensed professional appraiser detailing this analysis for Mt Olive Creek Solar is available on our website and on request.

## PUBLIC NOTICE

Mt Olive Creek Solar, LLC, is proposing to construct and operate a solar energy project in Russell County, Kentucky. The proposed Mt Olive Creek Solar Project will be located on approximately 500 acres to the North and South of Sano Road, West of Mt Olive Creek Road, approximately 5 miles north of Russell Springs. A public meeting to inform the community about the project will take place on Thursday, October 8th, 2020 at 5:30PM Central (6:30PM EDT). Please note, this meeting is a repeat of a public meeting held on August 6<sup>th</sup>, 2020 for the same project, and includes 1 additional new parcel of land that has been added to the project.

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- (4) Information about the proposed project, including the layout map, is available online at <https://www.carolinasolarenergy.com/projects-in-development-source/mt-olive-creek>

The proposed photovoltaic solar project will consist of solar panels installed on racks with an approximate maximum height of 15 feet, inverters, transformers, an energy storage system, associated wiring and balance of system, and a substation. The power generated by the project will be linked to the electric transmission grid via the existing transmission easement that crosses the property. The project will install a visual vegetative buffer along portions of the perimeter of the project that will be comprised of two staggered rows of native, evergreen plantings.

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AFFIDAVIT

This is to certify that the 24 day of September  
2020 an ad for MT Olive Creek Solar LLC

was published in the regular edition of the Times Journal  
\_\_\_\_\_, a newspaper published for general  
circulation in the City of Russell Springs, Russell  
County and adjoining counties.

Pam Wright

COMMONWEALTH OF KENTUCKY

County of Hart

The foregoing was subscribed and sworn to before me by \_\_\_\_\_  
Pam Wright on this 26 day of October  
2020 in \_\_\_\_\_.

Lesi Logston  
Notary Public, Kentucky, State-At-Large  
My commission expires: 02-09-23

# **Attachment**

## **G. PJM Interconnection Feasibility Study Report**



# **Generation Interconnection**

## **Feasibility Study Report**

**for**

## **Queue Project AF1-038**

**SEWELLTON JCT-WEBBS CROSSROADS 69 KV**

**36 MW Capacity / 60 MW Energy**

January, 2020



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## 1 Preface

The intent of the feasibility study is to determine a plan, with ballpark cost and construction time estimates, to connect the subject generation to the PJM network at a location specified by the Interconnection Customer. The Interconnection Customer may request the interconnection of generation as a capacity resource or as an energy-only resource. As a requirement for interconnection, the Interconnection Customer may be responsible for the cost of constructing: (1) Direct Connections, which are new facilities and/or facilities upgrades needed to connect the generator to the PJM network, and (2) Network Upgrades, which are facility additions, or upgrades to existing facilities, that are needed to maintain the reliability of the PJM system.

In some instances a generator interconnection may not be responsible for 100% of the identified network upgrade cost because other transmission network uses, e.g. another generation interconnection, may also contribute to the need for the same network reinforcement. Cost allocation rules for network upgrades can be found in PJM Manual 14A, Attachment B. The possibility of sharing the reinforcement costs with other projects may be identified in the feasibility study, but the actual allocation will be deferred until the impact study is performed.

The Interconnection Customer seeking to interconnect a wind or solar generation facility shall maintain meteorological data facilities as well as provide that meteorological data which is required per Schedule H to the Interconnection Service Agreement and Section 8 of Manual 14D.

PJM utilizes manufacturer models to ensure the performance of turbines is properly captured during the simulations performed for stability verification and, where applicable, for compliance with low voltage ride through requirements. Turbine manufacturers provide such models to their customers. The list of manufacturer models PJM has already validated is contained in Attachment B of Manual 14G. Manufacturer models may be updated from time to time, for various reasons such as to reflect changes to the control systems or to more accurately represent the capabilities turbines and controls which are currently available in the field. Additionally, as new turbine models are developed, turbine manufacturers provide such new models which must be used in the conduct of these studies. PJM needs adequate time to evaluate the new models in order to reduce delays to the System Impact Study process timeline for the Interconnection Customer as well as other Interconnection Customers in the study group. Therefore, PJM will require that any Interconnection Customer with a new manufacturer model must supply that model to PJM, along with a \$10,000 fully refundable deposit, no later than three (3) months prior to the starting date of the System Impact Study (See Section 4.3 for starting dates) for the Interconnection Request which shall specify the use of the new model. The Interconnection Customer will be required to submit a completed dynamic model study request form (Attachment B-1 of Manual 14G) in order to document the request for the study.

The Feasibility Study estimates do not include the feasibility, cost, or time required to obtain property rights and permits for construction of the required facilities. The project developer is responsible for the right of way, real estate, and construction permit issues. For properties currently owned by Transmission Owners, the costs may be included in the study.

## 2 General

The Interconnection Customer (IC), has proposed a Solar generating facility located in Russell County VA. The installed facilities will have a total capability of 60 MW with 36 MW of this output being recognized by PJM as Capacity. The proposed in-service date for this project is 12/31/2022. This study does not imply a TO commitment to this in-service date.

<b>Queue Number</b>	<b>AF1-038</b>
<b>Project Name</b>	SEWELLTON JCT-WEBBS CROSSROADS 69 KV
<b>State</b>	Virginia
<b>County</b>	Russell
<b>Transmission Owner</b>	EKPC
<b>MFO</b>	60
<b>MWE</b>	60
<b>MWC</b>	36
<b>Fuel</b>	Solar
<b>Basecase Study Year</b>	2023

## 2.1 Point of Interconnection

AF1-038 will interconnect with the EKPC transmission system tapping the Swellton Jct. to Webb Crossroad 69 kV line..

## 2.2 Cost Summary

The AF1-038 project will be responsible for the following costs:

Description	Total Cost
Attachment Facilities	\$400,000
Direct Connection Network Upgrade	\$2,875,000
Non Direct Connection Network Upgrades	\$345,000
<b>Total Costs</b>	<b>\$3,620,000</b>

In addition, the AF1-038 project may be responsible for a contribution to the following costs

Description	Total Cost
System Upgrades	\$670,000

Cost allocations for these upgrades will be provided in the System Impact Study Report.

### 3 Transmission Owner Scope of Work

#### 4 Attachment Facilities

The total preliminary cost estimate for the Attachment work is given in the table below. These costs do not include CIAC Tax Gross-up.

	<b>Total Cost</b>
<b>Install necessary equipment (a 69 kV isolation switch structure and associated switch, plus interconnection metering, fiber-optic connection and telecommunications equipment, circuit breaker and associated switches, and relay panel) at the new North Russell County switching station, to accept the IC generator lead line/bus (Estimated time to implement is 24 months)</b>	\$400,000
<b>Total Attachment Facility Costs</b>	\$400,000

#### 5 Direct Connection Cost Estimate

The total preliminary cost estimate for the Direct Connection work is given in the table below. These costs do not include CIAC Tax Gross-up.

<b>Description</b>	<b>Total Cost</b>
<b>Construct a new 69 kV switching station (North Russell County Switching) to facilitate connection of the IC solar generation project to the existing Sewellton Junction-Webbs Crossroads 69 kV line (Estimated time to implement is 24 months)</b>	\$2,875,000
<b>Total Direct Connection Facility Costs</b>	\$2,875,000

#### 6 Non-Direct Connection Cost Estimate

The total preliminary cost estimate for the Non-Direct Connection work is given in the table below. These costs do not include CIAC Tax Gross-up.

<b>Description</b>	<b>Total Cost</b>
<b>Construct facilities to loop the existing Sewellton Junction-Webbs Crossroads 69 kV line into the new North Russell County switching station (Estimated time to implement is 24 months)</b>	\$120,000
<b>Modify relays and/or settings at Sewellton Junction substation for the existing line to the new North Russell County switching station (Estimated time to implement is 9 months)</b>	\$45,000

Description	Total Cost
Modify relays and/or settings at Windsor substation for the existing line to the new North Russell County switching station (Estimated time to implement is 9 months)	\$45,000
Install OPGW on the North Russell County-Sewellton Junction 69 kV line (1.1 miles) (Estimated time to implement is 10 months)	\$135,000
<b>Total Non-Direct Connection Facility Costs</b>	<b>\$345,000</b>

## 7 Incremental Capacity Transfer Rights (ICTRs)

Will be determined at a later study phase

## 8 Interconnection Customer Requirements

1. An Interconnection Customer entering the New Services Queue on or after October 1, 2012 with a proposed new Customer Facility that has a Maximum Facility Output equal to or greater than 100 MW shall install and maintain, at its expense, phasor measurement units (PMUs). See Section 8.5.3 of Appendix 2 to the Interconnection Service Agreement as well as section 4.3 of PJM Manual 14D for additional information.
2. The Interconnection Customer may be required to install and/or pay for metering as necessary to properly track real time output of the facility as well as installing metering which shall be used for billing purposes. See Section 8 of Appendix 2 to the Interconnection Service Agreement as well as Section 4 of PJM Manual 14D for additional information.

## 9 Revenue Metering and SCADA Requirements

### 9.1 PJM Requirements

The Interconnection Customer will be required to install equipment necessary to provide Revenue Metering (KWH, KVARH) and real time data (KW, KVAR) for IC's generating Resource. See PJM Manuals M-01 and M-14D, and PJM Tariff Sections 24.1 and 24.2.

### 9.2 EKPC Requirements

The Interconnection Customer will be required to comply with all EKPC Revenue Metering Requirements for Generation Interconnection Customers. The Revenue Metering Requirements may be found within the "EKPC Facility Connection Requirements" document located at the following link:

<http://www.pjm.com/planning/design-engineering/to-tech-standards/ekpc.aspx>

## 10 Network Impacts

The Queue Project AF1-038 was evaluated as a 60.0 MW (Capacity 36.0 MW) injection tapping the Swellton Jct. to Webb Crossroad 69 kV line. in the EKPC area. Project AF1-038 was evaluated for compliance with applicable reliability planning criteria (PJM, NERC, NERC Regional Reliability Councils, and Transmission Owners). Project AF1-038 was studied with a commercial probability of 0.53. Potential network impacts were as follows:



# Summer Peak Load Flow

## 11 Generation Deliverability

(Single or N-1 contingencies for the Capacity portion only of the interconnection)

None

## 12 Multiple Facility Contingency

(Double Circuit Tower Line, Fault with a Stuck Breaker, and Bus Fault contingencies for the full energy output)

None

## 13 Contribution to Previously Identified Overloads

(This project contributes to the following contingency overloads, i.e. "Network Impacts", identified for earlier generation or transmission interconnection projects in the PJM Queue)

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
40952440	342286	2SOMERSET	69.0	EKPC	342287	2SOMERSET KU	69.0	EKPC	1	EKPC_P7-1_COOP161 DBL2	tower	115.0	103.63	112.64	DC	10.32
40952340	342287	2SOMERSET KU	69.0	EKPC	324531	2FERGUSON SO	69.0	LGEE	1	EKPC_P7-1_COOP161 DBL2	tower	105.0	111.12	124.56	DC	14.09
40952377	342718	SCOOPER2	161.0	EKPC	324141	5ELIHU	161.0	LGEE	1	EKPC_P7-1_LAURL161 DBL	tower	277.0	111.46	115.49	DC	11.14
41123167	342718	SCOOPER2	161.0	EKPC	324141	5ELIHU	161.0	LGEE	1	EKPC_P1-2_LAURL DAM161	single	277.0	104.33	106.75	DC	6.71
41468920	342718	SCOOPER2	161.0	EKPC	324141	5ELIHU	161.0	LGEE	1	EKPC_P4-5_LAURL S50-1024	breaker	277.0	111.43	115.45	DC	11.14

## 14 Potential Congestion due to Local Energy Deliverability

PJM also studied the delivery of the energy portion of this interconnection request. Any problems identified below are likely to result in operational restrictions to the project under study. The developer can proceed with network upgrades to eliminate the operational restriction at their discretion by submitting a Merchant Transmission Interconnection request.

Note: Only the most severely overloaded conditions are listed below. There is no guarantee of full delivery of energy for this project by fixing only the conditions listed in this section. With a Transmission Interconnection

Request, a subsequent analysis will be performed which shall study all overload conditions associated with the overloaded element(s) identified.

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADIN G %	POST PROJECT LOADIN G %	AC D C	MW IMPACT
41123165	342718	SCOOPER2	161.0	EKPC	324141	5ELIHU	161.0	LGEE	1	EKPC_P1-2_LAURL DAM161	operation	277.0	111.23	115.27	DC	11.19

## 15 System Reinforcements

ID	Index	Facility	Upgrade Description	Cost
40952440	1	2SOMERSET 69.0 kV - 2SOMERSET KU 69.0 kV Ckt 1	r0080 (82) : Replace the 500 MCM copper jumpers at the Somerset substation using 750 MCM copper or equivalent Project Type : FAC Cost : \$10,000 Time Estimate : 6.0 Months	\$10,000
40952340	2	2SOMERSET KU 69.0 kV - 2FERGUSON SO 69.0 kV Ckt 1	r0077 (79) : LGE/KU violation. EKPC emergency rating is 152 MVA. Project Type : FAC Cost : \$0 Time Estimate : 0.0 Months	\$0
41468920,40952377, 41123167	3	5COOPER2 161.0 kV - 5ELIHU 161.0 kV Ckt 1	r0076 (78) : Increase the maximum operating temperature of the 795 MCM ACSR conductor in the Cooper-Elihu 161 kV line section to 275 degrees F (6.7 miles) Project Type : FAC Cost : \$660,000 Time Estimate : 9.0 Months	\$660,000
			TOTAL COST	\$670,000

## 16 Flow Gate Details

The following indices contain additional information about each flowgate presented in the body of the report. For each index, a description of the flowgate and its contingency was included for convenience. However, the intent of the appendix section is to provide more information on which projects/generators have contributions to the flowgate in question. Although this information is not used "as is" for cost allocation purposes, it can be used to gage other generators impact. It should be noted the generator contributions presented in the appendices sections are full contributions, whereas in the body of the report, those contributions take into consideration the commercial probability of each project.

---

## 16.1 Index 1

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
40952440	342286	2SOMERSET	EKPC	342287	2SOMERSET KU	EKPC	1	EKPC_P7-1_COOP 161 DBL 2	tower	115.0	103.63	112.64	DC	10.32

Bus #	Bus	MW Impact
342900	1COOPER1 G	4.4802
342903	1COOPER2 G	8.6895
939131	AE1-143 C	5.3375
939132	AE1-143 E	2.6438
940041	AE1-246 C O1	4.2392
940042	AE1-246 E O1	2.0644
940051	AE1-247 C O1	7.2019
940052	AE1-247 E O1	3.5668
940831	AE2-071 C	1.2979
940832	AE2-071 E	0.8652
943701	AF1-038 C	6.1942
943702	AF1-038 E	4.1294
943821	AF1-050 C	1.1896
943822	AF1-050 E	0.7931
944151	AF1-083 C O1	1.2604
944152	AF1-083 E O1	0.8403
944511	AF1-116 C	3.1726
944512	AF1-116 E	2.1150
944981	AF1-163 C O1 (Withdrawn : 12/11/2019)	2.1292
944982	AF1-163 E O1 (Withdrawn : 12/11/2019)	1.2371
945381	AF1-203 C	0.3931
945382	AF1-203 E	0.2620
LGEE	LGEE	0.0120
CPL	CPL	0.0304
WEC	WEC	0.0479
LGE-0012019	LGE-0012019	5.0391
CBM-W2	CBM-W2	3.5463
NY	NY	0.0431
CBM-W1	CBM-W1	1.6763
TVA	TVA	1.0696
O-066	O-066	0.5242
CBM-S2	CBM-S2	0.5953
CBM-S1	CBM-S1	5.3335
G-007	G-007	0.0811
MADISON	MADISON	0.7540
MEC	MEC	0.4481

## 16.2 Index 2

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
40952340	342287	2SOMERSET KU	EKPC	324531	2FERGUSON SO	LGEE	1	EKPC_P7-1_COOP 161 DBL 2	tower	105.0	111.12	124.56	DC	14.09

Bus #	Bus	MW Impact
342900	1COOPER1 G	4.3847
342903	1COOPER2 G	8.5042
939131	AE1-143 C	6.4726
939132	AE1-143 E	3.2061
940041	AE1-246 C O1	5.3429
940042	AE1-246 E O1	2.6019
940051	AE1-247 C O1	9.0769
940052	AE1-247 E O1	4.4954
940831	AE2-071 C	1.6418
940832	AE2-071 E	1.0946
943701	AF1-038 C	8.4535
943702	AF1-038 E	5.6357
943821	AF1-050 C	1.3743
943822	AF1-050 E	0.9162
944151	AF1-083 C O1	1.3582
944152	AF1-083 E O1	0.9055
944511	AF1-116 C	7.2590
944512	AF1-116 E	4.8394
944981	AF1-163 C O1 (Withdrawn : 12/11/2019)	2.6865
944982	AF1-163 E O1 (Withdrawn : 12/11/2019)	1.5610
945381	AF1-203 C	0.4972
945382	AF1-203 E	0.3315
CPLE	CPLE	0.0642
WEC	WEC	0.0617
LGE-0012019	LGE-0012019	5.1436
CBM-W2	CBM-W2	4.6028
NY	NY	0.0442
CBM-W1	CBM-W1	2.1893
TVA	TVA	1.4140
O-066	O-066	0.5174
CBM-S2	CBM-S2	1.0057
CBM-S1	CBM-S1	6.9779
G-007	G-007	0.0801
MADISON	MADISON	0.9919
MEC	MEC	0.5800

### 16.3 Index 3

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
41468920	342718	SCOOPER2	EKPC	324141	SELIHU	LGEE	1	EKPC_P4-5_LAURL S50-1024	breaker	277.0	111.43	115.45	DC	11.14

Bus #	Bus	MW Impact
342900	1COOPER1 G	8.9959
342903	1COOPER2 G	17.5008
342945	1LAUREL 1G	5.4447
939131	AE1-143 C	10.0845
939132	AE1-143 E	4.9951
940041	AE1-246 C O1	9.0965
940042	AE1-246 E O1	4.4299
940051	AE1-247 C O1	15.4539
940052	AE1-247 E O1	7.6537
940831	AE2-071 C	2.5752
940832	AE2-071 E	1.7168
943701	AF1-038 C	6.6859
943702	AF1-038 E	4.4573
943821	AF1-050 C	4.5500
943822	AF1-050 E	3.0334
944151	AF1-083 C O1	4.6078
944152	AF1-083 E O1	3.0719
944511	AF1-116 C	11.3098
944512	AF1-116 E	7.5398
944981	AF1-163 C O1 (Withdrawn : 12/11/2019)	8.6420
944982	AF1-163 E O1 (Withdrawn : 12/11/2019)	5.0212
945381	AF1-203 C	1.4716
945382	AF1-203 E	0.9810
CPL	CPL	0.0886
WEC	WEC	0.0728
LGE-0012019	LGE-0012019	7.9453
CBM-W2	CBM-W2	6.5438
NY	NY	0.0912
CBM-W1	CBM-W1	2.5020
TVA	TVA	2.1098
O-066	O-066	1.0685
CBM-S2	CBM-S2	1.4912
CBM-S1	CBM-S1	10.2410
G-007	G-007	0.1654
MADISON	MADISON	1.5745
MEC	MEC	0.7802



# Affected Systems

## **17 Affected Systems**

### **17.1 LG&E**

LG&E Impacts to be determined during later study phases (as applicable).

### **17.2 MISO**

MISO Impacts to be determined during later study phases (as applicable).

### **17.3 TVA**

TVA Impacts to be determined during later study phases (as applicable).

### **17.4 Duke Energy Progress**

Duke Energy Progress Impacts to be determined during later study phases (as applicable).

### **17.5 NYISO**

NYISO Impacts to be determined during later study phases (as applicable).

## 18 Contingency Descriptions

Contingency Name	Contingency Definition
<b>EKPC_P1-2_LAUR-L DAM161</b>	CONTINGENCY 'EKPC_P1-2_LAUR-L DAM161' /* LAUREL CO - LAUREL DAM OPEN BRANCH FROM BUS 342754 TO BUS 342757 CKT 1 /* 342754 5LAUREL CO 161.00 342757 5LAUREL DAM 161.00 END
<b>EKPC_P4-5_LAURL S50-1024</b>	CONTINGENCY 'EKPC_P4-5_LAURL S50-1024' /* LAUREL CO OPEN BUS 342754 /* 5LAUREL CO DROPS BUS OPEN BRANCH FROM BUS 324688 TO BUS 342781 CKT 1 /* 324688 2PITTSKU 69.000 342781 5PITTSBURG 161.00 OPEN BRANCH FROM BUS 342781 TO BUS 342820 CKT 1 /* 342781 5PITTSBURG 161.00 342820 5TYNER 161.00 END
<b>EKPC_P7-1_LAURL 161 DBL</b>	CONTINGENCY 'EKPC_P7-1_LAURL 161 DBL' /* LAUREL CO - LAUREL DAM 161 & LAUREL CO - TYNER 161 OPEN BRANCH FROM BUS 342754 TO BUS 342757 CKT 1 /* 342754 5LAUREL CO 161.00 342757 5LAUREL DAM 161.00 OPEN BRANCH FROM BUS 342754 TO BUS 342781 CKT 1 /* 342754 5LAUREL CO 161.00 342781 5PITTSBURG 161.00 OPEN BRANCH FROM BUS 342781 TO BUS 342820 CKT 1 /* 342781 5PITTSBURG 161.00 342820 5TYNER 161.00 END
<b>EKPC_P7-1_COOP 161 DBL 2</b>	CONTINGENCY 'EKPC_P7-1_COOP 161 DBL 2' /* COOPER - ELIHU 161 & COOPER - LAUREL DAM 161 OPEN BRANCH FROM BUS 324141 TO BUS 342718 CKT 1 /* 324141 5ELIHU 161.00 342718 5COOPER2 161.00 OPEN BRANCH FROM BUS 342718 TO BUS 342757 CKT 1 /* 342718 5COOPER2 161.00 342757 5LAUREL DAM 161.00 END

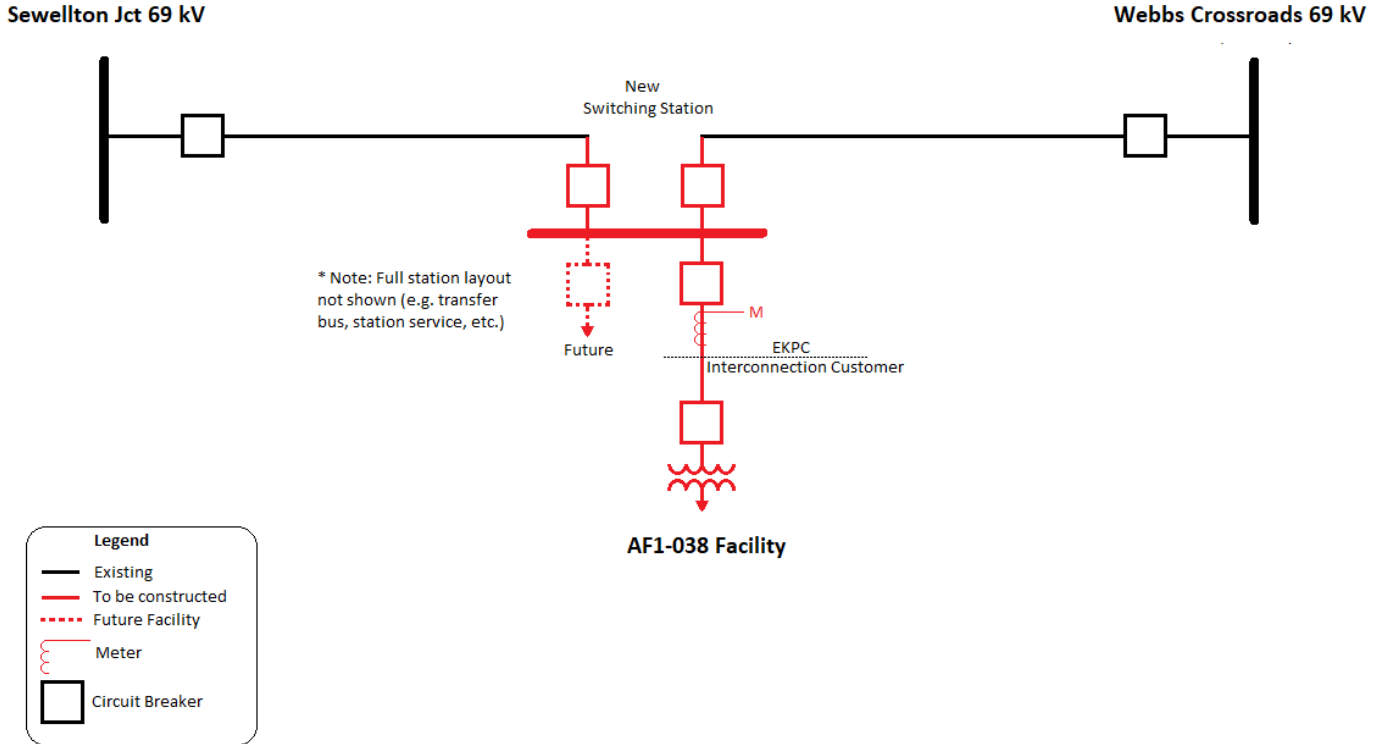
# Short Circuit

## 19 Short Circuit

The following Breakers are overduty

Bus Number	Bus Name	BREAKER	Type	Capacity (Amps)	Duty Percentage Post Queue	Duty Percentage Pre Queue

## 20 Single Line Diagram



# **Attachment**

## **H. PJM Interconnection System Impact Study Report**



**Generation Interconnection  
System Impact Study Report**

**for**

**Queue Project AF1-038**

**SEWELLTON JCT-WEBBS CROSSROADS 69 KV**

**36 MW Capacity / 60 MW Energy**

August, 2020



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## 1 Introduction

This System Impact Study has been prepared in accordance with the PJM Open Access Transmission Tariff, 205, as well as the System Impact Study Agreement between the Interconnection Customer (IC), and PJM Interconnection, LLC (PJM), Transmission Provider (TP). The Interconnected Transmission Owner (ITO) is EKPC.

## 2 Preface

The intent of the System Impact Study is to determine a plan, with approximate cost and construction time estimates, to connect the subject generation interconnection project to the PJM network at a location specified by the Interconnection Customer. As a requirement for interconnection, the Interconnection Customer may be responsible for the cost of constructing: Network Upgrades, which are facility additions, or upgrades to existing facilities, that are needed to maintain the reliability of the PJM system. All facilities required for interconnection of a generation interconnection project must be designed to meet the technical specifications (on PJM web site) for the appropriate transmission owner.

In some instances an Interconnection Customer may not be responsible for 100% of the identified network upgrade cost because other transmission network uses, e.g. another generation interconnection or merchant transmission upgrade, may also contribute to the need for the same network reinforcement. The possibility of sharing the reinforcement costs with other projects may be identified in the Feasibility Study, but the actual allocation will be deferred until the System Impact Study is performed.

The System Impact Study estimates do not include the feasibility, cost, or time required to obtain property rights and permits for construction of the required facilities. The project developer is responsible for the right of way, real estate, and construction permit issues. For properties currently owned by Transmission Owners, the costs may be included in the study.

The Interconnection Customer seeking to interconnect a wind or solar generation facility shall maintain meteorological data facilities as well as provide that meteorological data which is required per Schedule H to the Interconnection Service Agreement and Section 8 of Manual 14D.

### 3 General

The Interconnection Customer (IC), has proposed a Solar; Storage generating facility located in Russell County, Virginia. The installed facilities will have a total capability of 60 MW with 36 MW of this output being recognized by PJM as Capacity.

The proposed in-service date for this project is December 31, 2021. This study does not imply a TO commitment to this in-service date.

The objective of this System Impact Study is to determine budgetary cost estimates and approximate construction timelines for identified transmission facilities required to connect the proposed generating facilities to the ITO transmission system. These reinforcements include the Attachment Facilities, Local Upgrades, and Network Upgrades required for maintaining the reliability of the ITO transmission system.

<b>Queue Number</b>	<b>AF1-038</b>
<b>Project Name</b>	SEWELLTON JCT-WEBBS CROSSROADS 69 KV
<b>State</b>	Virginia
<b>County</b>	Russell
<b>Transmission Owner</b>	EKPC
<b>MFO</b>	60
<b>MWE</b>	60
<b>MWC</b>	36
<b>Fuel</b>	Solar; Storage
<b>Basecase Study Year</b>	2023

Any new service customers who can feasibly be commercially operable prior to June 1st of the basecase study year are required to request interim deliverability analysis.

## 4 Point of Interconnection

AF1-038 will interconnect with the EKPC transmission system tapping the Swellton Jct. to Webb Crossroad 69 kV line.

## 5 Cost Summary

The AF1-038 project will be responsible for the following costs:

Description	Total Cost
Attachment Facilities	\$400,000
Direct Connection Network Upgrade	\$2,875,000
Non Direct Connection Network Upgrades	\$345,000
Allocation for New System Upgrades*	\$0
Contribution to Previously Identified Upgrades*	\$0
<b>Total Costs</b>	<b>\$3,620,000</b>

\*As your project progresses through the study process and other projects modify their request or withdraw, then your cost allocation could change.

This cost excludes a Federal Income Tax Gross Up charges. This tax may or may not be charged based on whether this project meets the eligibility requirements of IRS Notice 88-129. If at a future date it is determined that the Federal Income Tax Gross charge is required, the Transmission Owner shall be reimbursed by the Interconnection Customer for such taxes.

Note 1: PJM Open Access Transmission Tariff (OATT) section 217.3A outline cost allocation rules. The rules are further clarified in PJM Manual 14A Attachment B. The allocation of costs for a network upgrade will start with the first Queue project to cause the need for the upgrade. Later queue projects will receive cost allocation contingent on their contribution to the violation and are allocated to the queues that have not closed less than 5 years following the execution of the first Interconnection Service Agreement which identifies the need for this upgrade.

## 6 Transmission Owner Scope of Work

### 6.1 Attachment Facilities

The total preliminary cost estimate for the Attachment work is given in the table below. These costs do not include CIAC Tax Gross-up.

Description	Total Cost
Install necessary equipment (a 69 kV isolation switch structure and associated switch, plus interconnection metering, fiber-optic connection and telecommunications equipment, circuit breaker and associated switches, and relay panel) at the new North Russell County switching station, to accept the IC generator lead line/bus (Estimated time to implement is 24 months)	\$400,000
<b>Total Attachment Facility Costs</b>	<b>\$400,000</b>

### 6.2 Direct Connection Cost Estimate

The total preliminary cost estimate for the Direct Connection work is given in the table below. These costs do not include CIAC Tax Gross-up.

Description	Total Cost
Construct a new 69 kV switching station (North Russell County Switching) to facilitate connection of the IC solar generation project to the existing Sewellton Junction-Webbs Crossroads 69 kV line (Estimated time to implement is 24 months)	\$2,875,000
<b>Total Direct Connection Facility Costs</b>	<b>\$2,875,000</b>

### 6.3 Non-Direct Connection Cost Estimate

The total preliminary cost estimate for the Non-Direct Connection work is given in the table below. These costs do not include CIAC Tax Gross-up.

Description	Total Cost
Construct facilities to loop the existing Sewellton Junction-Webbs Crossroads 69 kV line into the new North Russell County switching station (Estimated time to implement is 24 months)	\$120,000
Modify relays and/or settings at Sewellton Junction substation for the existing line to the new North Russell County switching station (Estimated time to implement is 9 months)	\$45,000

Description	Total Cost
Modify relays and/or settings at Windsor substation for the existing line to the new North Russell County switching station (Estimated time to implement is 9 months)	\$45,000
Install OPGW on the North Russell County-Sewellton Junction 69 kV line (1.1 miles) (Estimated time to implement is 10 months)	\$135,000
<b>Total Non-Direct Connection Facility Costs</b>	<b>\$345,000</b>

## 7 Incremental Capacity Transfer Rights (ICTRs)

None

## 8 Interconnection Customer Requirements

It is understood that the Interconnection Customer (IC) is responsible for all costs associated with this interconnection. The costs above are reimbursable to the Transmission Owner. The cost of the IC's generating plant and the costs for the line connecting the generating plant to the Point of Interconnection are not included in this report; these are assumed to be the IC's responsibility.

The Generation Interconnection Agreement does not in or by itself establish a requirement for the Transmission Owner to provide power for consumption at the developer's facilities. A separate agreement may be reached with the local utility that provides service in the area to ensure that infrastructure is in place to meet this demand and proper metering equipment is installed. It is the responsibility of the developer to contact the local service provider to determine if a local service agreement is required.

1. An Interconnection Customer entering the New Services Queue on or after October 1, 2012 with a proposed new Customer Facility that has a Maximum Facility Output equal to or greater than 100 MW shall install and maintain, at its expense, phasor measurement units (PMUs). See Section 8.5.3 of Appendix 2 to the Interconnection Service Agreement as well as section 4.3 of PJM Manual 14D for additional information.
2. The Interconnection Customer may be required to install and/or pay for metering as necessary to properly track real time output of the facility as well as installing metering which shall be used for billing purposes. See Section 8 of Appendix 2 to the Interconnection Service Agreement as well as Section 4 of PJM Manual 14D for additional information.

## 9 Revenue Metering and SCADA Requirements

### 9.1 PJM Requirements

The Interconnection Customer will be required to install equipment necessary to provide Revenue Metering (KWH, KVARH) and real time data (KW, KVAR) for IC's generating Resource. See PJM Manuals M-01 and M-14D, and PJM Tariff Section 8 of Attachment O.

### 9.2 Meteorological Data Reporting Requirements

Solar generation facilities shall provide the Transmission Provider with site-specific meteorological data including:

- Back Panel temperature (Fahrenheit)
- Irradiance (Watts/meter<sup>2</sup>)
- Ambient air temperature (Fahrenheit) – (Accepted, not required)
- Wind speed (meters/second) – (Accepted, not required)



- Wind direction (decimal degrees from true north) – (Accepted, not required)

### 9.3 Interconnected Transmission Owner Requirements

The IC will be required to comply with all Interconnected Transmission Owner's revenue metering requirements for generation interconnection customers located at the following link:

<http://www.pjm.com/planning/design-engineering/to-tech-standards/>

## 10 Summer Peak Analysis

The Queue Project AF1-038 was evaluated as a 60.0 MW (Capacity 36.0 MW) injection tapping the Swellton Jct. to Webb Crossroad 69 kV line in the EKPC area. Project AF1-038 was evaluated for compliance with applicable reliability planning criteria (PJM, NERC, NERC Regional Reliability Councils, and Transmission Owners). Project AF1-038 was studied with a commercial probability of 100.0 %. Potential network impacts were as follows:

### 10.1 Generation Deliverability

(Single or N-1 contingencies for the Capacity portion only of the interconnection)

None

### 10.2 Multiple Facility Contingency

(Double Circuit Tower Line, Fault with a Stuck Breaker, and Bus Fault contingencies for the full energy output)

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADIN G %	POST PROJECT LOADIN G %	AC D C	MW IMPACT
41469357	342232	2SEWELLTON	69.0	EKPC	324787	2UNION UNDWR	69.0	LGEE	1	EKPC_P4 - 5_COOP S42-1039	breaker	42.0	93.35	101.27	AC	3.92
41758067	342232	2SEWELLTON	69.0	EKPC	324787	2UNION UNDWR	69.0	LGEE	1	EKPC_P2 - 3_COOP S42-1039	bus	42.0	93.35	101.27	AC	3.92
40952440	342286	2SOMERSET	69.0	EKPC	342287	2SOMERSET KU	69.0	EKPC	1	EKPC_P7 - 1_COOP 161 DBL 2	tower	115.0	94.02	103.25	AC	10.32
40952340	342287	2SOMERSET KU	69.0	EKPC	324531	2FERGUSON SO	69.0	LGEE	1	EKPC_P7 - 1_COOP 161 DBL 2	tower	105.0	99.71	113.39	AC	14.09

### 10.3 Contribution to Previously Identified Overloads

(This project contributes to the following contingency overloads, i.e. "Network Impacts", identified for earlier generation or transmission interconnection projects in the PJM Queue)

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADIN G %	POST PROJECT LOADIN G %	AC D C	MW IMPACT
40952377	342718	5SCOOPER 2	161.0	EKPC	324141	5ELIHU	161.0	LGEE	1	EKPC_P7-1_LAURL 161 DBL	tower	277.0	101.83	105.95	AC	11.15
41468920	342718	5SCOOPER 2	161.0	EKPC	324141	5ELIHU	161.0	LGEE	1	EKPC_P4-5_LAURL S50-1024	breaker	277.0	101.84	105.96	AC	11.15
41468921	342718	5SCOOPER 2	161.0	EKPC	324141	5ELIHU	161.0	LGEE	1	EKPC_P4-5_LAURL S50-1014	breaker	277.0	101.5	105.63	AC	11.17

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADIN G %	POST PROJECT LOADIN G %	AC D C	MW IMPACT
41757836	342718	SCOOPER2	161.0	EKPC	324141	SELIHU	161.0	LGEE	1	EKPC_P2-2_LAUREL CO 161	bus	277.0	101.5	105.63	AC	11.17

#### 10.4 Steady-State Voltage Requirements

None

#### 10.5 Potential Congestion due to Local Energy Deliverability

PJM also studied the delivery of the energy portion of this interconnection request. Any problems identified below are likely to result in operational restrictions to the project under study. The developer can proceed with network upgrades to eliminate the operational restriction at their discretion by submitting a Merchant Transmission Interconnection request.

Note: Only the most severely overloaded conditions are listed below. There is no guarantee of full delivery of energy for this project by fixing only the conditions listed in this section. With a Transmission Interconnection Request, a subsequent analysis will be performed which shall study all overload conditions associated with the overloaded element(s) identified.

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADIN G %	POST PROJECT LOADIN G %	AC D C	MW IMPACT
41123165	342718	SCOOPER2	161.0	EKPC	324141	SELIHU	161.0	LGEE	1	EKPC_P1 - 2_LAUREL DAM161	operation	277.0	101.48	105.63	AC	11.19

## 10.6 System Reinforcements

ID	Idx	Facility	Upgrade Description	Cost	Cost Allocated to AF1-038	Upgrade Number
40952440	3	2SOMERSET 69.0 kV - 2SOMERSET KU 69.0 kV Ckt 1	Upgrade the existing 500 MCM CU bus jumpers to 750 MCM CU. 6 month time estimate. New expected SE rating after the upgrade will be 152 MVA.  This line overload is presently driven by a prior queue cycle.	\$250 K	\$0	N6232
41468920,40952377,41757836,41123167,41468921	1	5SCOOPER2 161.0 kV - 5ELIHU 161.0 kV Ckt 1	EKPC: EKPC SE rating is 298 MVA. No EKPC upgrade required.  LG&E: LG&E SE rating is 277 MVA. A LG&E affected system study will be required to determine if LG&E upgrades are required on this line. Preliminary upgrade, if determined to be required, is to upgrade the line conductor at a cost estimate of \$28.083 K. New LG&E expected SE rating to be 335 MVA.	\$0	\$0	N/A
41758067,41469357	2	2SEWELLTON 69.0 kV - 2UNION UNDWR 69.0 kV Ckt 1	EKPC: SE rating is 90 MVA. No EKPC upgrade required.  LG&E: A LG&E affected system study will be required to determine if LG&E upgrades are required on this line.	\$0	\$0	N/A
40952340	4	2SOMERSET KU 69.0 kV - 2FERGUSON SO 69.0 kV Ckt 1	EKPC: SE rating is 152 MVA. No EKPC upgrade required.  LG&E: SE rating is 83 MVA. A LG&E affected system study will be required to determine if LG&E upgrades are required on this line. Preliminary upgrade, if determined to be required, is to replace terminal equipment at a cost estimate of \$897.613 K.	\$0	\$0	N/A
<b>Total Cost</b>				<b>\$250,000</b>	<b>\$0</b>	

Note : For customers with System Reinforcements listed: If your present cost allocation to a System Reinforcement indicates \$0, then please be aware that as changes to the interconnection process occur, such as prior queued projects withdrawing from the queue, reducing in size, etc, the cost responsibilities can change and a cost allocation may be assigned to your project. In addition, although your present cost allocation to a System Reinforcement is presently \$0, your project may need this system reinforcement completed to be deliverable to the PJM system. If your project comes into service prior to completion of the system reinforcement, an interim deliverability study for your project will be required.

## 10.7 Flow Gate Details

The following indices contain additional information about each facility presented in the body of the report. For each index, a description of the flowgate and its contingency was included for convenience. The intent of the indices is to provide more details on which projects/generators have contributions to the flowgate in question. All New Service Queue Requests, through the end of the Queue under study, that are contributors to a flowgate will be listed in the indices. Please note that there may be contributors that are subsequently queued after the queue under study that are not listed in the indices. Although this information is not used "as is" for cost allocation purposes, it can be used to gage the impact of other projects/generators. It should be noted the project/generator MW contributions presented in the body of the report are Full MW Impact contributions which are also noted in the indices column named "Full MW Impact", whereas the loading percentages reported in the body of the report, take into consideration the PJM Generator Deliverability Test rules such as commercial probability of each project as well as the ramping impact of "Adder" contributions. The MW Impact found and used in the analysis is shown in the indices column named "Gendeliv MW Impact".

## 10.7.1 Index 1

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
41757836	342718	SCOOPER2	EKPC	324141	SELIHU	LGEE	1	EKPC_P2-2_LAUREL CO 161	bus	277.0	101.5	105.63	AC	11.17

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
342900	1COOPER1 G	11.4249	50/50	11.4249
342903	1COOPER2 G	22.2261	50/50	22.2261
342945	1LAUREL 1G	6.9148	50/50	6.9148
939131	AE1-143 C	10.1012	50/50	10.1012
939132	AE1-143 E	5.0034	50/50	5.0034
940041	AE1-246 C O1	9.1151	50/50	9.1151
940042	AE1-246 E O1	4.4389	50/50	4.4389
940831	AE2-071 C	2.5805	50/50	2.5805
940832	AE2-071 E	1.7203	50/50	1.7203
943701	AF1-038 C	6.7007	50/50	6.7007
943702	AF1-038 E	4.4671	50/50	4.4671
943821	AF1-050 C	4.5587	50/50	4.5587
943822	AF1-050 E	3.0391	50/50	3.0391
944151	AF1-083 C O1	4.6160	50/50	4.6160
944152	AF1-083 E O1	3.0774	50/50	3.0774
944511	AF1-116 C	11.3285	50/50	11.3285
944512	AF1-116 E	7.5523	50/50	7.5523
945381	AF1-203 C	1.4746	50/50	1.4746
945382	AF1-203 E	0.9830	50/50	0.9830
WEC	WEC	0.0740	Confirmed LTF	0.0740
CPLE	CPLE	0.0939	Confirmed LTF	0.0939
LGE-0012019	LGE-0012019	7.9596	LTF	7.9596
CBM-W2	CBM-W2	6.6667	Confirmed LTF	6.6667
NY	NY	0.0874	Confirmed LTF	0.0874
TVA	TVA	2.1266	Confirmed LTF	2.1266
O-066	O-066	1.0282	Confirmed LTF	1.0282
CBM-S2	CBM-S2	1.5375	Confirmed LTF	1.5375
CBM-S1	CBM-S1	10.3348	Confirmed LTF	10.3348
G-007	G-007	0.1591	Confirmed LTF	0.1591
MADISON	MADISON	1.5886	Confirmed LTF	1.5886
MEC	MEC	0.7913	Confirmed LTF	0.7913
CBM-W1	CBM-W1	2.5771	Confirmed LTF	2.5771

## 10.7.2 Index 2

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
41758067	342232	2SEWELLTON	EKPC	324787	2UNION UNDWR	LGEE	1	EKPC_P2- 3_COOP S42-1039	bus	42.0	93.35	101.27	AC	3.92

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
943701	AF1-038 C	1.9970	Adder	2.35
943702	AF1-038 E	1.3313	Adder	1.57
WEC	WEC	0.0186	Confirmed LTF	0.0186
CPLE	CPLE	0.0476	Confirmed LTF	0.0476
CBM-W2	CBM-W2	1.4906	Confirmed LTF	1.4906
NY	NY	0.0017	Confirmed LTF	0.0017
TVA	TVA	0.4928	Confirmed LTF	0.4928
O-066	O-066	0.0067	Confirmed LTF	0.0067
CBM-S2	CBM-S2	0.5838	Confirmed LTF	0.5838
CBM-S1	CBM-S1	2.3430	Confirmed LTF	2.3430
G-007	G-007	0.0010	Confirmed LTF	0.0010
MADISON	MADISON	0.3447	Confirmed LTF	0.3447
MEC	MEC	0.1827	Confirmed LTF	0.1827
TRIMBLE	TRIMBLE	0.0039	Confirmed LTF	0.0039
CBM-W1	CBM-W1	0.6880	Confirmed LTF	0.6880

### 10.7.3 Index 3

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
40952440	342286	2SOMERSET	EKPC	342287	2SOMERSET KU	EKPC	1	EKPC_P7- 1_COOP 161 DBL 2	tower	115.0	94.02	103.25	AC	10.32

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
342900	1COOPER1 G	5.6852	50/50	5.6852
342903	1COOPER2 G	11.0266	50/50	11.0266
939131	AE1-143 C	5.3386	Adder	6.28
939132	AE1-143 E	2.6443	Adder	3.11
940041	AE1-246 C O1	4.2405	Adder	4.99
940042	AE1-246 E O1	2.0651	Adder	2.43
940831	AE2-071 C	1.2982	Adder	1.53
940832	AE2-071 E	0.8655	Adder	1.02
943701	AF1-038 C	6.1949	50/50	6.1949
943702	AF1-038 E	4.1299	50/50	4.1299
943821	AF1-050 C	2.2451	Adder	2.64
943822	AF1-050 E	1.4967	Adder	1.76
944151	AF1-083 C O1	2.3786	Adder	2.8
944152	AF1-083 E O1	1.5858	Adder	1.87
944511	AF1-116 C	5.9872	Adder	7.04
944512	AF1-116 E	3.9915	Adder	4.7
945381	AF1-203 C	0.7418	Adder	0.87
945382	AF1-203 E	0.4946	Adder	0.58
WEC	WEC	0.0482	Confirmed LTF	0.0482
LGEE	LGEE	0.0131	Confirmed LTF	0.0131
CPLE	CPLE	0.0318	Confirmed LTF	0.0318
LGE-0012019	LGE-0012019	5.0391	LTF	5.0391
CBM-W2	CBM-W2	3.5872	Confirmed LTF	3.5872
NY	NY	0.0426	Confirmed LTF	0.0426
TVA	TVA	1.0724	Confirmed LTF	1.0724
O-066	O-066	0.5040	Confirmed LTF	0.5040
CBM-S2	CBM-S2	0.6069	Confirmed LTF	0.6069
CBM-S1	CBM-S1	5.3506	Confirmed LTF	5.3506
G-007	G-007	0.0780	Confirmed LTF	0.0780
MADISON	MADISON	0.7560	Confirmed LTF	0.7560
MEC	MEC	0.4513	Confirmed LTF	0.4513
CBM-W1	CBM-W1	1.7014	Confirmed LTF	1.7014



10.7.4 Index 4

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
40952340	342287	2SOMERSET	EKPC	324531	2FERGUSON	LGEE	1	EKPC_P7-1_COOP 161 DBL 2	tower	105.0	99.71	113.39	AC	14.09

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
342900	1COOPER1 G	5.5640	50/50	5.5640
342903	1COOPER2 G	10.7915	50/50	10.7915
939131	AE1-143 C	6.4733	50/50	6.4733
939132	AE1-143 E	3.2064	50/50	3.2064
940041	AE1-246 C O1	5.3436	Adder	6.29
940042	AE1-246 E O1	2.6022	Adder	3.06
940831	AE2-071 C	1.6422	Adder	1.93
940832	AE2-071 E	1.0948	Adder	1.29
943701	AF1-038 C	8.4539	50/50	8.4539
943702	AF1-038 E	5.6359	50/50	5.6359
943821	AF1-050 C	2.5937	Adder	3.05
943822	AF1-050 E	1.7291	Adder	2.03
944151	AF1-083 C O1	2.5632	Adder	3.02
944152	AF1-083 E O1	1.7088	Adder	2.01
944511	AF1-116 C	7.2598	50/50	7.2598
944512	AF1-116 E	4.8398	50/50	4.8398
945381	AF1-203 C	0.9384	Adder	1.1
945382	AF1-203 E	0.6256	Adder	0.74
WEC	WEC	0.0621	Confirmed LTF	0.0621
CPLE	CPLE	0.0648	Confirmed LTF	0.0648
LGE-0012019	LGE-0012019	5.1436	LTF	5.1436
CBM-W2	CBM-W2	4.6437	Confirmed LTF	4.6437
NY	NY	0.0431	Confirmed LTF	0.0431
TVA	TVA	1.4154	Confirmed LTF	1.4154
O-066	O-066	0.5107	Confirmed LTF	0.5107
CBM-S2	CBM-S2	1.0115	Confirmed LTF	1.0115
CBM-S1	CBM-S1	6.9864	Confirmed LTF	6.9864
G-007	G-007	0.0790	Confirmed LTF	0.0790
MADISON	MADISON	0.9959	Confirmed LTF	0.9959
MEC	MEC	0.5816	Confirmed LTF	0.5816
CBM-W1	CBM-W1	2.2143	Confirmed LTF	2.2143

## 10.7.5 Index 5

None

## 10.8 Queue Dependencies

The Queue Projects below are listed in one or more indices for the overloads identified in your report. These projects contribute to the loading of the overloaded facilities identified in your report. The percent overload of a facility and cost allocation you may have towards a particular reinforcement could vary depending on the action of these earlier projects. The status of each project at the time of the analysis is presented in the table. This list may change as earlier projects withdraw or modify their requests.

Queue Number	Project Name	Status
AE1-143	Marion County 161 kV	Active
AE1-246	Barren County-Summer Shade 161 kV	Active
AE2-071	Patton Rd-Summer Shade 69 kV	Active
AE2-254	Garrard County-Tommy-Gooch 69 kV	Active
AF1-038	Sewellton Jct-Webbs Crossroads 69 kV	Active
AF1-050	Summer Shade - Green County 161 kV	Active
AF1-083	Green County-Saloma 161 kV	Active
AF1-116	Marion County 161 kV	Active
AF1-203	Patton Rd-Summer Shade 69 kV	Active

## 10.9 Contingency Descriptions

Contingency Name	Contingency Definition
<b>EKPC_P2-3_MAR W38-1004</b>	CONTINGENCY 'EKPC_P2-3_MAR W38-1004' /* MARION CO OPEN BRANCH FROM BUS 324280 TO BUS 342769 CKT 1 /* 324280 4MARIONL 138.00 342769 5MARION CO 161.00 OPEN BRANCH FROM BUS 342733 TO BUS 342817 CKT 1 /* 342733 5GREEN CO 161.00 342817 5TAYLOR CO J161.00 OPEN BRANCH FROM BUS 342817 TO BUS 342818 CKT 1 /* 342817 5TAYLOR CO J161.00 342818 5TAYLR CO 161.00 OPEN BRANCH FROM BUS 342805 TO BUS 944150 CKT 1 /* 342805 5SALOMA T 161.00 342817 5TAYLOR CO J161.00 OPEN BRANCH FROM BUS 342802 TO BUS 342805 CKT 1 /* 342802 5SALOMA 161.00 342805 5SALOMA T 161.00 OPEN BRANCH FROM BUS 342775 TO BUS 342805 CKT 1 /* 342775 5MARION IP T161.00 342805 5SALOMA T 161.00 OPEN BRANCH FROM BUS 342772 TO BUS 342775 CKT 1 /* 342772 5MARION IP 161.00 342775 5MARION IP T161.00 OPEN BRANCH FROM BUS 342769 TO BUS 342775 CKT 1 /* 342769 5MARION CO 161.00 342775 5MARION IP T161.00 END
<b>EKPC_P2-3_MAR W38-1004-B</b>	CONTINGENCY 'EKPC_P2-3_MAR W38-1004-B' /* MARION CO OPEN BRANCH FROM BUS 324280 TO BUS 342769 CKT 1 /* 324280 4MARIONL 138.00 342769 5MARION CO 161.00 OPEN BRANCH FROM BUS 342733 TO BUS 342817 CKT 1 /* 342733 5GREEN CO 161.00 342817 5TAYLOR CO J161.00 OPEN BRANCH FROM BUS 342817 TO BUS 342818 CKT 1 /* 342817 5TAYLOR CO J161.00 342818 5TAYLR CO 161.00 OPEN BRANCH FROM BUS 342805 TO BUS 944150 CKT 1 /* 342805 5SALOMA T 161.00 342817 5TAYLOR CO J161.00 END
<b>EKPC_P1-2_LAUR-L DAM161</b>	CONTINGENCY 'EKPC_P1-2_LAUR-L DAM161' /* LAUREL CO - LAUREL DAM OPEN BRANCH FROM BUS 342754 TO BUS 342757 CKT 1 /* 342754 5LAUREL CO 161.00 342757 5LAUREL DAM 161.00 END
<b>EKPC_P2-3_COOP S42-1039</b>	CONTINGENCY 'EKPC_P2-3_COOP S42-1039' /* COOPER OPEN BUS 342715 /* 5COOPER1 OPEN BUS 342900 /* 1COOPER1 G OPEN BUS 342718 /* 5COOPER2 OPEN BUS 342903 /* 1COOPER2 G END
<b>EKPC_P2-2_LAUREL CO 161</b>	CONTINGENCY 'EKPC_P2-2_LAUREL CO 161' /* LAUREL 161 BUS OPEN BUS 342754 /* 5LAUREL CO END

Contingency Name	Contingency Definition
EKPC_P1-2_COOP-ELIHU161	CONTINGENCY 'EKPC_P1-2_COOP-ELIHU161' /* COOPER - KU ELIHU OPEN BRANCH FROM BUS 324141 TO BUS 342718 CKT 1 /* 324141 5ELIHU 161.00 342718 5COOPER2 161.00 END
EKPC_P7-1_COOP 161 DBL 2	CONTINGENCY 'EKPC_P7-1_COOP 161 DBL 2' /* COOPER - ELIHU 161 & COOPER - LAUREL DAM 161 OPEN BRANCH FROM BUS 324141 TO BUS 342718 CKT 1 /* 324141 5ELIHU 161.00 342718 5COOPER2 161.00 OPEN BRANCH FROM BUS 342718 TO BUS 342757 CKT 1 /* 342718 5COOPER2 161.00 342757 5LAUREL DAM 161.00 END
EKPC_P4-2_MAR W38-1004	CONTINGENCY 'EKPC_P4-2_MAR W38-1004' /* MARION CO OPEN BRANCH FROM BUS 324280 TO BUS 342769 CKT 1 /* 324280 4MARIONL 138.00 342769 5MARION CO 161.00 OPEN BRANCH FROM BUS 342805 TO BUS 944150 CKT 1 /* 342805 5SALOMA T 161.00 944150 AF1-083 TAP 161.00 OPEN BRANCH FROM BUS 342802 TO BUS 342805 CKT 1 /* 342802 5SALOMA 161.00 342805 5SALOMA T 161.00 OPEN BRANCH FROM BUS 342775 TO BUS 342805 CKT 1 /* 342775 5MARION IP T161.00 342805 5SALOMA T 161.00 OPEN BRANCH FROM BUS 342772 TO BUS 342775 CKT 1 /* 342772 5MARION IP 161.00 342775 5MARION IP T161.00 OPEN BRANCH FROM BUS 342769 TO BUS 342775 CKT 1 /* 342769 5MARION CO 161.00 342775 5MARION IP T161.00 END
EKPC_P7-1_LAURL 161 DBL	CONTINGENCY 'EKPC_P7-1_LAURL 161 DBL' /* LAUREL CO - LAUREL DAM 161 & LAUREL CO - TYNER 161 OPEN BRANCH FROM BUS 342754 TO BUS 342757 CKT 1 /* 342754 5LAUREL CO 161.00 342757 5LAUREL DAM 161.00 OPEN BRANCH FROM BUS 342754 TO BUS 342781 CKT 1 /* 342754 5LAUREL CO 161.00 342781 5PITTSBURG 161.00 OPEN BRANCH FROM BUS 342781 TO BUS 342820 CKT 1 /* 342781 5PITTSBURG 161.00 342820 5TYNER 161.00 END
EKPC_P4-5_LAURL S50-1014	CONTINGENCY 'EKPC_P4-5_LAURL S50-1014' /* LAUREL CO OPEN BUS 342754 /* 5LAUREL CO DROPS BUS END
Base Case	

Contingency Name	Contingency Definition
<b>EKPC_P4-5_COOP S42-1039</b>	CONTINGENCY 'EKPC_P4-5_COOP S42-1039' /* COOPER OPEN BUS 342715 /* 5COOPER1 DROPS BUS OPEN BUS 342900 /* 1COOPER1 G DROPS GEN OPEN BUS 342718 /* 5COOPER2 DROPS BUS OPEN BUS 342903 /* 1COOPER2 G DROPS GEN END
<b>EKPC_P4-5_LAURL S50-1024</b>	CONTINGENCY 'EKPC_P4-5_LAURL S50-1024' /* LAUREL CO OPEN BUS 342754 /* 5LAUREL CO DROPS BUS OPEN BRANCH FROM BUS 324688 TO BUS 342781 CKT 1 /* 324688 2PITTSKU 69.000 342781 5PITTSBURG 161.00 OPEN BRANCH FROM BUS 342781 TO BUS 342820 CKT 1 /* 342781 5PITTSBURG 161.00 342820 5TYNER 161.00 END

## 11 Light Load Analysis

The Queue Project AF1-038 was evaluated as a 60.0 MW injection/withdrawal (battery) tapping the Swellton Jct. to Webb Crossroad 69 kV line in the EKPC area. Project AF1-038 was evaluated for compliance with applicable reliability planning criteria (PJM, NERC, NERC Regional Reliability Councils, and Transmission Owners). Project AF1-038 was studied with a commercial probability of 100.0 %. Potential network impacts were as follows:

### 11.1 Generation Deliverability

(Single or N-1 contingencies)

None

### 11.2 Multiple Facility Contingency

(Double Circuit Tower Line, Fault with a Stuck Breaker, and Bus Fault contingencies)

None

### 11.3 Contribution to Previously Identified Overloads

(This project contributes to the following contingency overloads, i.e. "Network Impacts", identified for earlier generation or transmission interconnection projects in the PJM Queue)

None

### 11.4 Steady-State Voltage Requirements

None

### 11.5 Potential Congestion due to Local Energy Deliverability

PJM also studied the delivery of the energy portion of this interconnection request. Any problems identified below are likely to result in operational restrictions to the project under study. The developer can proceed with network upgrades to eliminate the operational restriction at their discretion by submitting a Merchant Transmission Interconnection request.

Note: Only the most severely overloaded conditions are listed below. There is no guarantee of full delivery of energy for this project by fixing only the conditions listed in this section. With a Transmission Interconnection Request, a subsequent analysis will be performed which shall study all overload conditions associated with the overloaded element(s) identified.

None

## 11.6 System Reinforcements

None



## 12 Short Circuit Analysis

The following Breakers are overdutied

None

## 13 Stability and Reactive Power Requirements for Low Voltage Ride Through

*(Summary of the VAR requirements based upon the results of the dynamic studies)*

To be evaluated during the Facilities Study Phase

## 14 Affected Systems

### 14.1 TVA

TVA Impacts to be determined during later study phases (as applicable).

### 14.2 Duke Energy Progress

Duke Energy Progress Impacts to be determined during later study phases (as applicable).

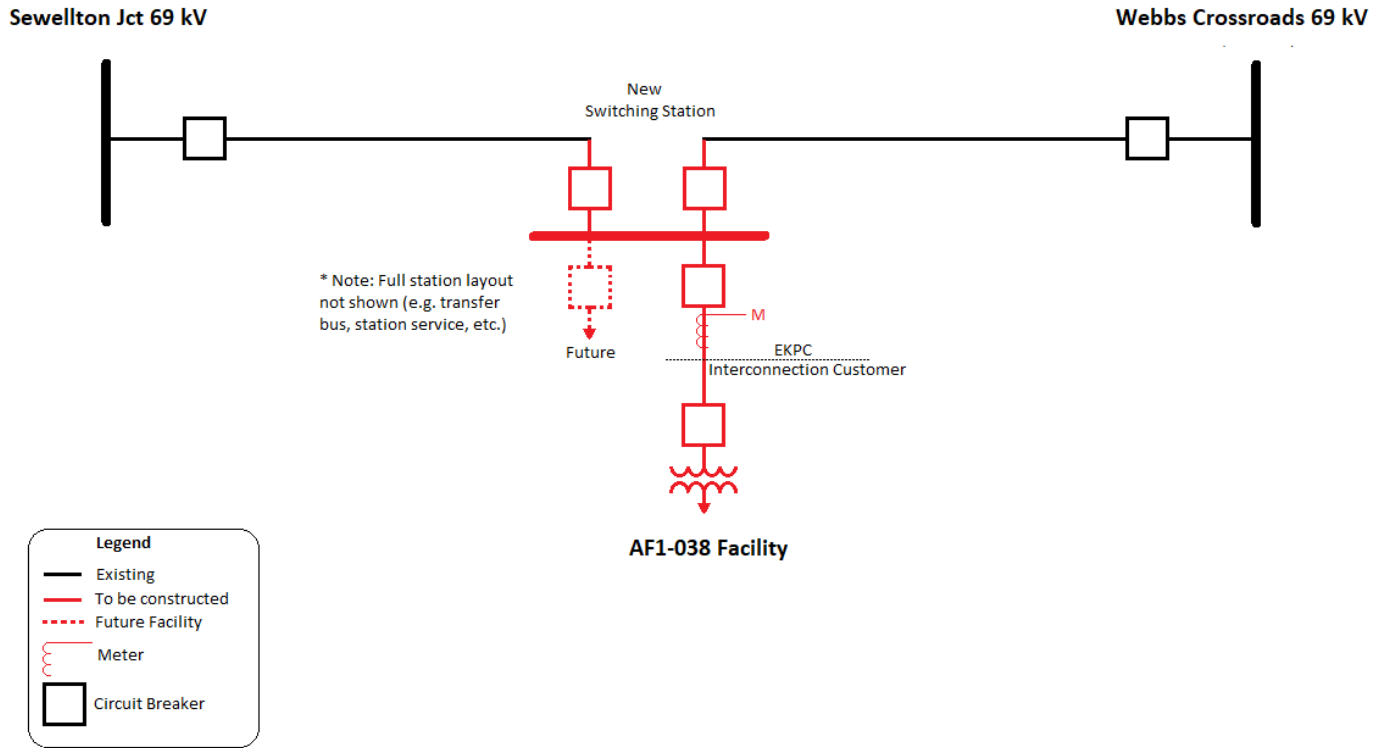
### 14.3 MISO

MISO Impacts to be determined during later study phases (as applicable).

### 14.4 LG&E

An LG&E Affected System Study will be required. PJM has identified several EKPC-LG&E tie line overloads with limiting equipment on the LG&E side. LG&E will need to determine if LG&E upgrades are required.

# 15 Attachment 1: One-Line Diagram



# **Attachment**

## **I. Economic Report**

**Paul A. Coomes, Ph.D.**

*Consulting Economist*

3604 Trail Ridge Road    Louisville KY 40241    502.608.4797    coomes.economics@gmail.com  
*Emeritus Professor of Economics, University of Louisville*

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May 5, 2021

TO:    Carson Harkrader  
      Mt. Olive Creek Solar, LLC  
      400 W. Main St, Suite 503  
      Durham, NC 27701  
      [www.carolinasolarenergy.com](http://www.carolinasolarenergy.com)

FROM:        Paul Coomes

RE:            Economic and fiscal impact of the Mt. Olive Creek solar energy project

This note provides estimates of the new economic and fiscal activity expected from the proposed Mt. Olive Creek solar energy project just north of Russell Springs, in Russell County, Kentucky. Mt Olive Creek Solar, LLC is developing the 475 acre site, which will have an electricity generation capacity of 60 megawatts. The company anticipates an investment of approximately \$90-\$120 million. The company and the County government have negotiated an agreement in which the company will make annual payments in lieu of taxes (PILOT) to local government jurisdictions. The project is described on the company's website<sup>1</sup>.

There are two primary impacts expected from the project. First, there will be a one-time spike in construction and linked jobs as the site is constructed over approximately one year. Second, there will be four decades of new tax (PILOT) payments to local jurisdictions in Russell County due to the increased value of real estate and the new tangible property installed at the site. Using company estimates of construction jobs and payroll, I estimate that there will be a total of 199 new jobs in the County in year one, with new payroll of \$9.70 million. And, the PILOT agreement will result in \$1.62 million in payments to County jurisdictions over the next forty years.

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<sup>1</sup> See: [www.carolinasolarenergy.com/projects-in-development-source/mt-olive-creek](http://www.carolinasolarenergy.com/projects-in-development-source/mt-olive-creek)

## The site

The site is approximately five miles north of the County seat in Russell Springs and is currently in agricultural and sparse residential use. One can see in the Google Earth view below the farmland, homes, and Sano Road (Highway 1729).



## Construction phase

The company expects to invest over \$90 million in the solar project. The investment involves land acquisition, site preparation, solar panel and electrical equipment installation, plus landscaping and security fencing. ENGIE North America, likely to be the owner of the project, will hire a construction company for this project, and estimates that that it will require up to 150 workers over 8-12 months, with a payroll of \$7.5 million<sup>2</sup>. It is not possible to know precisely the ultimate number of construction-related jobs, since many subcontractors will be involved, each with their own decisions to make

<sup>2</sup> A University of California-Berkeley study looked at six large PV projects in California, and summarized the economics. He finds a ratio of 2.4 FTE construction jobs per MW. Applied to Mt. Olive's 60 MW implies 144 direct construction jobs. He shows the permanent operations jobs per MW, and applied to Mt. Olive's you get about 2 FTEs. See page 28 of *Economic and Environmental Benefits of Building Solar in California*, by Peter Philips, November 10, 2014, <https://laborcenter.berkeley.edu/pdf/2014/building-solar-ca14.pdf>

about staffing. The subcontractors, for example, may choose to use fewer highly skilled workers or more less-skilled workers, depending on local labor market conditions. I use the ENGIE estimate, as they have global experience with solar farm developments. Their estimates imply an average annual pay of \$50,000 per construction job.

Occupations include construction managers, earth grader operators, panel installers, electricians, and fencers. I searched the federal database on hundreds of occupations to learn how much these workers are likely to earn on the project. There is no listing in the Kentucky data for “Solar Photovoltaic Installer”, but the national average annual wage is \$46,850<sup>3</sup>. Good inferences about other relevant occupations can be gleaned from the next table. The construction managers are likely to earn over \$80,000, heavy equipment operators around \$50,000, installers around \$45,000, electricians around \$53,000, and fencers \$30,000. These data suggest that the \$50,000 average pay assumed for construction jobs is reasonable. The average annual pay for all jobs in Russell in 2019 was \$33,401.

Kentucky Wages for Related Occupations, 2019			
Occupation (SOC code)	Employment	Hourly mean wage	Annual mean wage
Construction Managers(119021)	1,770	\$40.18	\$83,570
Operating Engineers and Other Construction Equipment Operators(472073)	4,670	\$24.72	\$51,410
Electricians(472111)	9,880	\$25.69	\$53,440
Fence Erectors(474031)	250	\$14.47	\$30,090
Industrial Engineers(172112)	5,590	\$38.69	\$80,480
Materials Engineers(172131)	260	\$38.36	\$79,790
Mechanical Engineers(172141)	4,180	\$39.57	\$82,300
Heating, Air Conditioning, and Refrigeration Mechanics and Installers(499021)	4,290	\$20.57	\$42,780
Electrical Power-Line Installers and Repairers(499051)	2,680	\$29.95	\$62,300
Telecommunications Line Installers and Repairers(499052)	1,090	\$22.95	\$47,740

Source: US Bureau of Labor Statistics, Occupational Employment Survey, <https://data.bls.gov/oes/#/home>

### Spin-off impacts

The construction phase will have some spin-off effects in Russell County. I model this using a custom IMPLAN model of the County<sup>4</sup>. The relevant sector for the construction phase is number 52, “Construction of new power and communication structures”, and this can be used to model the initial investment. The likely owner expects construction

<sup>3</sup> See [www.bls.gov/ooh/construction-and-extraction/solar-photovoltaic-installers.htm#tab-1](http://www.bls.gov/ooh/construction-and-extraction/solar-photovoltaic-installers.htm#tab-1) , with details in the lookup database <https://data.bls.gov/oes/#/home> , Standard Occupational Code #472231 as of May 2019.

<sup>4</sup> For documentation of IMPLAN modeling, see [www.implan.com/history/](http://www.implan.com/history/) .

to last approximately one year and to support up to 150 jobs in the County, with a payroll of \$7.5 million. This is the direct effect.

The model has detailed information about the inter-industry linkages in each regional economy, as well as the expected household spending on retail goods and services due to the enhanced employee compensation. When there is new industrial activity in a region, the model can predict how much of the supply chain can be met by local businesses and how much the new payroll will result in additional sales by local businesses. Adding these two effects to the direct effect yields the total effect of a development, and dividing the total effect by the direct effect yields a multiplier. Using the Russell County multipliers for the relevant construction sector, and the assumed direct construction budget, I project there will be a total of 199 new jobs in the County, and new payroll of \$9.70 million.

There will also be some modest spin-off impacts from ongoing operations. The company expects operations to support only two or three jobs. Unfortunately, for the operations phase, the relevant IMPLAN sector, number 42, “Electric Power Generation – Solar”, is empty of data and results for Russell County. This is because there is no history of solar electricity generation and therefore no basic economic data to construct industry relationships. A reasonable recourse is to tap the literature on solar project impacts, find comparable places, and use other studies to estimate the likely operational impacts on local economies in Kentucky. For example, the California PV study cited above reports a ratio of 31.25 MW capacity per permanent FTE operations job. Applied to the Mt. Olive Creek project implies that operations would require only two permanent jobs. Also, the Shugart solar farm in Maryland was studied extensively, and analysts projected that annual operations will support a total of only four jobs in the County (including modest spinoff activity)<sup>5</sup>. Thus, ongoing annual economic impacts are expected to be very small relative to the one-time impacts of construction.

#### **Local tax revenues, IRB, PILOT agreement**

Russell County levies property taxes on real estate and tangible property. The table below provides the latest tax rates that are applied County-wide. They total about one percent of the assessed value of property. The only other taxing jurisdictions in the County are the City of Jamestown and the City of Russell Springs, but the Mt. Olive

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<sup>5</sup> See pages 13-14 of the July 31, 2019 study of the Shugart, Maryland project:  
<https://mde.maryland.gov/programs/Water/WetlandsandWaterways/Documents/Solar/Shugart-Solar-Socio-Economic-Justification-Report-FINAL.pdf>

Creek project is outside the urban boundary and thus would not subject to those property taxes. Also, because the project is outside the Cities, the payroll from construction jobs and any net profits from ongoing operations will not be subject to the Cities' occupational license fee and net profits tax, both with a rate of three-fourths of one percent.

<b>Russell County Property Tax Rates, 2020</b>		
in cents per \$100 valuation		
<b>Jurisdiction</b>	<b>Real Estate</b>	<b>Tangible Personal</b>
Ambulance	6.7000	9.2000
Extension Services	3.8010	6.3173
Fiscal Court - General	6.7000	9.2000
Health Department	4.5000	4.5000
Hospital	6.6000	9.2000
Library	6.3000	7.6100
Soil Conservation	0.9000	0.0000
Public Schools	52.2000	52.2000
<b>Total, County-wide</b>	<b>87.7010</b>	<b>98.2273</b>
Source: Kentucky Department of Revenue		

The County and the company have negotiated an Industrial Revenue Bond (IRB) and a Payment in Lieu of Taxes (PILOT) agreement, whereby the company makes annual payments to the County jurisdictions. The agreement calls for payments of \$1,000 per megawatt of stated capacity for twenty years, then \$350 per MW for the next twenty years. With a capacity of 60MW, this implies the company will pay \$1.62 million to the County over the next forty years. It should be pointed out that solar projects like this require almost no public services from local government; and because they require so few people to operate do not add students and expenses to the local public school system.



# **Attachment**

## **K. Mt Olive Creek Solar, LLC Certificate of Authority**

COMMONWEALTH OF KENTUCKY  
MICHAEL ADAMS, SECRETARY OF STATE

1102928.06

Bdennis  
ADD

Michael G. Adams  
Kentucky Secretary of State  
Received and Filed:  
7/1/2020 9:57 AM  
Fee Receipt: \$90.00

Division of Business Filings  
P.O. Box 718  
Frankfort, KY 40602  
(502) 564-3480  
www.sos.ky.gov

Certificate of Authority  
(Foreign Business Entity)

Pursuant to the provisions of KRS 14A and KRS 271B, 273, 274, 275, 362 and 366 the undersigned hereby applies for authority to transact business in Kentucky on behalf of the entity named below and, for that purpose, submits the following statements:

1. The entity is a:
- |  |   |   |
|--|---|---|
| <input type="checkbox"/> profit corporation (KRS 271B) | <input type="checkbox"/> nonprofit corporation (KRS 273)                | <input type="checkbox"/> professional service corporation (KRS 274)       |
| <input type="checkbox"/> business trust (KRS 366)      | <input checked="" type="checkbox"/> limited liability company (KRS 275) | <input type="checkbox"/> professional limited liability company (KRS 276) |
| <input type="checkbox"/> limited partnership (KRS 362) | <input type="checkbox"/> fed cooperative assn. (KRS)                    | <input type="checkbox"/> statutory trust                                  |
| <input type="checkbox"/> non-profit bc (KRS 275)       | <input type="checkbox"/> cooperative assn. (KRS)                        | <input type="checkbox"/> unincorporated association                       |

2. The name of the entity is MI Olive Creek Solar, LLC  
(The name must be identical to the name on record with the Secretary of State.)

3. The name of the entity to be used in Kentucky is (if applicable): MI Olive Creek Solar, LLC  
(Only provide if "real name" is unavailable for use; otherwise, leave blank.)

4. The state or country under whose law the entity is organized is North Carolina

5. The date of organization is 6/4/2019 and the period of duration is \_\_\_\_\_  
(If left blank, duration is considered perpetual.)

6. The mailing address of the entity's principal office is  
400 W. Main Street Durham NC 27701  
Street Address City State Zip Code

7. The street address of the entity's registered office in Kentucky is  
333 W. Vine Street, Suite 1500 Lexington KY 40507  
Street Address (No P.O. Box Numbers) City State Zip Code

and the name of the registered agent at that office is James W. Gardner

8. The names and business addresses of the entity's representatives (secretary, officers and directors, managers, trustees or general partners):

Carson Hankrader 400 W. Main Street Durham NC 27701  
Name Street or P.O. Box City State Zip Code

Name Street or P.O. Box City State Zip Code

Name Street or P.O. Box City State Zip Code

9. If a professional service corporation, all the individual shareholders, not less than one-tenth (10%) of the directors, and all of the officers other than the secretary and treasurer are licensed in one or more states or territories of the United States or District of Columbia to render a professional service described in the statement of purposes of the corporation.

10. I certify that, as of the date of filing this application, the above-named entity validly exists under the laws of the jurisdiction of its formation.

11. If a limited partnership, it elects to be a limited liability limited partnership. Check the box if applicable:

12. If a limited liability company, check box if manager-managed:

13. This application will be effective upon filing, unless a delayed effective date and/or time is provided.  
The effective date or the delayed effective date cannot be prior to the date the application is filed. The date and/or time is \_\_\_\_\_

Please indicate the Kentucky county in which your business operates:  
County: Russell

To complete the following, please shade the bar completely.

Please indicate the size of your business: <input type="checkbox"/> Small (Fewer than 50 employees) <input type="checkbox"/> Large (50 or more employees)	Please indicate whether any of the following make up more than fifty percent (50%) of your business ownership: <input checked="" type="checkbox"/> Women-Owned <input type="checkbox"/> Veteran Owned <input type="checkbox"/> Minority Owned
---	--

Please indicate which of the following best describes your business:

<input type="checkbox"/> Agriculture	<input type="checkbox"/> Mining	<input type="checkbox"/> Services	<input type="checkbox"/> Construction
<input type="checkbox"/> Wholesale Trade	<input type="checkbox"/> Retail Trade	<input type="checkbox"/> Manufacturing	<input type="checkbox"/> Finance, Insurance, Real Estate
<input type="checkbox"/> Public Administration	<input checked="" type="checkbox"/> Transportation, Communications, Electric, Gas, Sanitary Services		
<input type="checkbox"/> Other			

Signature of Authorized Representative: Carson Hankrader Carson Hankrader, CEO Date: 6/30/2020

I, James W. Gardner, consent to serve as the registered agent on behalf of the business entity.

Signature of Registered Agent: James W. Gardner James W. Gardner Attorney Date: 7/1/2020

Signature of Registered Agent: \_\_\_\_\_ Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_