



Chipmunk Solar

Exhibit F

Lighting Strategy

Case No. 21-0960 EL BGN

Lighting Strategy

Chipmunk Solar Project

Deer Creek, Jackson, and Monroe Townships and the Village of Williamsport
Pickaway County, Ohio

Prepared for:



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1.0 INTRODUCTION

Chipmunk Solar, LLC is proposing a 400-megawatt (MW) solar-powered electric energy generation facility (the Facility) to be located within Deer Creek, Jackson, and Monroe Townships, and the Village of Williamsport, Pickaway County, Ohio. Chipmunk Solar, LLC intends to provide sufficient lighting for the safety and security of the Facility and its operation, while minimizing glare, shadow, light pollution, and light trespass. All lighting appurtenances will be selected for the purposes of conserving energy, limiting excessive lighting levels, preserving community character, and complying with local lighting ordinances.

2.0 CONSTRUCTION LIGHTING

Construction lighting will be required where necessary for the safety of standard equipment operation and will be regularly maintained as required for worker safety. Facility construction will typically occur between the hours of 7:00 a.m. and 7:00 p.m. but may extend from dawn to dusk. Supplemental lighting will be required to illuminate active work sites during limited periods of low-light or nighttime construction work and will include standard equipment lighting such as illuminated controls, headlights, affixed floodlights, and portable floodlights mounted on temporary structures. Where practicable, lights will be directed inwards toward the site, away from adjacent roads and residences.

Security lighting will also be required to enhance security measures for temporary construction trailers, equipment, and laydown yards. Where practicable, lights will be directed inwards toward the site, away from adjacent roads and residences.

3.0 OPERATIONAL LIGHTING

Minimal lighting is required for the general operation of the Facility. Site plans will be developed to show the final locations of the Facility lighting, which is expected to include fixtures at all site entrances, inverters, and the Facility substation and switchyard area. The project operations and maintenance (O&M) facility will be located off site, eliminating the lighting and vehicular traffic typically associated with an O&M building. All lighting fixtures will utilize automatic controls for illumination from dusk till dawn, to prevent excess lighting beyond the time for which it is required. To the extent practicable, lighting fixtures will be directed inward toward the Facility. All outdoor lighting will be maintained in good working order and in a manner that serves the original design intent of the system.

3.1 Entrance Lighting

Lighting will be provided within the limits of the perimeter fence at each access driveway to the Facility. These lighting fixtures will be pole-mounted no higher than 20 feet, with fixtures directed downward to meet International Dark-Sky Association (IDA) standards. Lighting will be activated by both switch and motion sensors.

3.2 Inverter Lighting

Permanent lighting will not be installed at Facility inverters; however, the units will feature illuminated controls for the purpose of status monitoring. The impacts of this lighting will be minimal and are not anticipated to be visible off-site.

3.3 Switchyard Lighting

If determined to be necessary for safety and security, lighting will be located at the Facility switchyard. Any fixtures will be to the extent practicable, positioned in a manner that will not pollute adjacent properties or alter community character. All lighting will be directed downward to meet IDA standards and be mounted at a height no greater than 20 feet.

3.4 Substation Lighting

The Facility substation will require overnight lighting to maintain safe and secure operation. Lighting will be directed downward to meet IDA standards.

4.0 COMPLAINT RESOLUTION

Lighting will be limited in terms of quantity of fixtures and lighting levels to the minimum operational standards required for safety and regular operation. While Chipmunk Solar, LLC aims to reduce impacts of lighting outside the Facility, some light sources may be visible from neighboring properties during Facility construction, operation, and/or decommissioning. Chipmunk Solar, LLC will provide a means to receive and promptly respond to complaints regarding potential lighting impacts over the life of the Facility, as outlined in the Complaint Resolution Plan for the project.

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Summary: Application Exhibit F (Lighting Strategy) electronically filed by Mr.
Michael J. Settineri on behalf of Chipmunk Solar LLC