

BEFORE THE OHIO POWER SITING BOARD

In the Matter of the Application of)	
Angelina Solar I, LLC)	
for a Certificate of Environmental)	Case No. 18-1579-EL-BGN
Compatibility and Public Need)	

REBUTTAL TESTIMONY OF DOUGLAS HERLING

Q.1. Please state your name and business address.

A.1. My name is Douglas Herling. I am Director of Business Development with Open Road Renewables, LLC (“Open Road”), 1105 Navasota Street, Austin, Texas 78702. The sole member of Applicant, Angelina Solar I, LLC (“Applicant”), is Blue Planet Renewable Energy, LLC, whose members are Open Road and MAP 2015, L.P. I am the project manager for the Angelina Solar Project (“Project”).

Q.2. Did you previously present direct testimony in this proceeding?

A.2. Yes.

Q.3. What is the purpose of your rebuttal testimony?

A.3. I am filing rebuttal testimony on behalf of the Applicant, Angelina Solar I, LLC in response to testimony by Rachel Vonderhaar.

Q.4. Have you reviewed Ms. Vonderhaar’s testimony?

A.4. Yes. I reviewed Ms. Vonderhaar’s direct testimony marked as CCPC Ex. 2.

Q.5. What portions of Ms. Vonderhaar’s testimony will you address?

A.5. I will address Ms. Vonderhaar’s concern in her testimony about electromagnetic fields (EMF).

1 **Q.6. Are her concerns warranted?**

2 **A.6.** No. The project will generate only very weak electromagnetic fields (“EMFs”),
3 and only during the day. PV arrays generate EMF in the same extremely low frequency
4 (“ELF”) range as electrical appliances and wiring found in most homes and buildings.
5 CCPC Ex. 1 titled “Study of Acoustic and EMF Levels From Solar Photovoltaic Project”
6 is helpful in understanding why EMF from solar projects is not a concern. The study,
7 which was referenced in my direct testimony, was prepared for the Massachusetts Clean
8 Energy Center by Tech Environmental, Inc. The study involved sound pressure level and
9 EMF measurements at three utility-scale sites with solar photovoltaic (PV) arrays with a
10 capacity range of 1,000 to 3,500 kW under a full-load condition. EMF measurements were
11 also made at one residential PV installation with a capacity of 8.6 kW under a partial load
12 condition. The study found that electric field levels were not elevated above background
13 levels along the fenced PV array boundary and near the inverters. Magnetic field levels
14 along the fenced boundaries were very low (.2 to .4 mG). There were significant magnetic
15 fields at locations a few feet from inverters, in the range of 150 to 500 mG, but at a distance
16 of 150 feet from the inverters, the fields dropped back to very low levels of .5 mG or less,
17 and in many cases to background levels. By comparison, as noted in the study, the
18 International Commission on Non-Ionizing Radiation Protection has recommended
19 exposure limits of 833 mG.

20 **Q.7. Does this conclude your rebuttal testimony?**

21 **A.7.** Yes, it does.

CERTIFICATE OF SERVICE

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/s/ Michael J. Settineri

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Summary: Testimony - Rebuttal Testimony of Douglas Herling electronically filed by Mr. Michael J. Settineri on behalf of Angelina Solar I, LLC