#### BEFORE THE OHIO POWER SITING BOARD

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In the Matter of the Application of **Union Ridge** ) **Solar, LLC** for a Certificate of Environmental ) Compatibility and Public Need for a Solar ) Facility Located in Licking County, Ohio.

Case No. 20-1757-EL-BGN

#### DIRECT TESTIMONY OF

#### **ANDREW R. LINES**

on behalf of

**Union Ridge Solar, LLC** 

September 2, 2021

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#### Q-1. Please state your name, title and business address.

A-1. My name is Andrew R. Lines, MAI. I am a Principal of the Valuation Advisory Services
group for CohnReznick LLP. My business address is 200 S. Wacker Drive, Suite 2600,
Chicago, Illinois 60606.

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#### Q-2. What are your duties as a Principal of Valuation Advisory?

6 A-2. My duties as a Principal of CohnReznick LLP's Valuation Advisory group include 7 overseeing a staff of 30 appraisers and valuation experts in all types of real estate. One of my specialty practices is property value impact studies. I have testified before numerous 8 9 governmental bodies regarding proposed new developments, including solar power 10 installations, and addressed community concerns regarding those proposed developments. 11 I have worked on numerous redevelopment projects in multiple states, including 12 determining values for acquisitions of property, easements and leases, and the evaluation of impacts caused by proposed projects on real estate values. 13

#### 14 Q-3. What is your educational and professional background?

15 A-3. I have a B.F.A. degree from Syracuse University. I am a designated Member of the 16 Appraisal Institute (MAI), a recognized designation by courts of law, government agencies, 17 as well as financial institutions, with over 16 years of real estate appraisal experience. I am 18 a Certified General Real Estate Appraiser with active licenses in the following states: 19 Arizona, Florida, Georgia, Illinois, Indiana, Maryland, New Jersey, New York, Ohio, 20 Kentucky, and the District of Columbia. I have performed valuations on a wide variety of 21 real property types including single- and multi-unit residential (including Low Income 22 Housing Tax Credit properties), student housing, office, retail, industrial, mixed-use and 23 special purpose properties including landfills, waste transfer stations, marinas, hospitals,

1 universities, telecommunications facilities, data centers, self- storage facilities, racetracks, 2 continuing care retirement communities, and railroad corridors. I am also experienced in 3 the valuation of leasehold, leased fee, and partial interests, as well as purchase price 4 allocations (GAAP, International Financial Reporting Standards and IRC 1060) for 5 financial reporting. I have also completed valuations nationwide for a variety of 6 assignments including mortgage financing, litigation, tax appeal, estate gifts, asset 7 management, workouts, and restructuring, as well as valuation for financial reporting 8 including purchase price allocations (ASC 805), impairment studies, and appraisals for 9 investment company guidelines and REIS standards. I have gualified as an expert witness, 10 providing testimony for eminent domain cases in the states of Illinois and Maryland. I have completed valuation impact studies on landfills, big box retail developments, electric 11 12 power transmission lines, environmental stigma, view amenities, as well as solar farms. I have been previously accepted as an expert at zoning hearings in the states of Illinois, 13 14 Indiana, Michigan, Colorado, New York, and Pennsylvania. I have also provided 15 testimony to the Ohio Power Board for the Big Plain Solar proceeding (Case No. 19-1823-16 EL-BGN), and the Yellowbud Solar proceeding (Case No. 20-0972-EL-BGN).

17 **Q-4.** On whose behalf are you offering testimony?

A-4. I am testifying on behalf of the Applicant, Union Ridge Solar, LLC in support of its
application filed in Case No. 20-1757-EL-BGN.

20 **Q-5.** What is the purpose of your testimony?

A-5. The purpose of my testimony is to evaluate the potential impact of the Union Ridge Solar
 Farm ("Project") on property values in the area surrounding the Project.

23 Q-6. Are you familiar with the Project?

A-6. Yes. I have reviewed, and am familiar with, the Application filed by the Applicant on
 March 26, 2021, and am familiar with the area in which the Project is proposed to be
 located.

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#### Q-7. Are you familiar with the impact of commercial-scale solar projects on property

#### values in the area surrounding the projects?

6 A-7. Yes. I have been involved in studies evaluating the potential impact of utility-scale solar 7 projects on surrounding properties in the states of Indiana, Illinois, Michigan, Minnesota, 8 North Carolina, New York, Georgia, Florida, Missouri and Virginia, one of the largest 9 operational facilities being the North Star Solar plant in Minnesota, consisting of 100 MW 10 facility on over 1,000 acres. Additionally, I have been involved in over one dozen studies 11 evaluating the potential impact of community-sized solar farms in the states of Illinois, 12 Indiana, Colorado, Hawaii, New York, Florida, Pennsylvania, and Missouri. For both sizes of projects, I have provided expert testimony at local zoning and county board hearings. 13

#### 14 Q-8. Can you explain how those studies were conducted?

15 The purpose of the studies was to determine whether existing solar energy uses have had **A-8.** 16 any measurable impact on the value of adjacent properties. In our studies, the properties 17 adjacent to existing and established solar energy plants were researched and analyzed -18 focusing on rural and suburban areas with neighboring residential homes that are most 19 comparable to the areas and adjacent uses of the proposed solar facilities. Those sales 20 located physically contiguous to the solar farms, or the Target Group, are then compared 21 to similar properties that are removed from any solar facility influence, referred to as the 22 Control Group. This comparison was made in order to determine if proximity to solar 23 energy uses results in any consistent and measurable impact on property values.

1 We have studied established, commercial-scale solar farms in the Midwest, Florida, 2 Virginia, New York, and North Carolina, and their potential for impact on property values, 3 in addition to the adjacent uses and development trends. As a part of this study, we 4 examined other large-scale solar farms, including five solar farms in Ohio over 5 MW 5 (three were utility scale – ranging between 10 MW and 20 MW, while two were smaller 6 community scale projects) and in nearby states; however, they were mostly located in 7 outlying areas or did not have sufficient adjoining sales that qualified for a paired sales analysis either due to limited sale activity or the newer age of the solar farm. The basic 8 9 premise of this comparative analysis is that if there is any impact on the value of adjacent 10 properties by virtue of their proximity to a solar energy use, it would be reflected by such factors as the range of sale prices, differences in unit sale prices, conditions of sale, and 11 12 overall marketability. When comparing these factors for properties near an existing solar 13 energy use to properties locationally removed from the solar energy use, it would be 14 expected to see some emerging and consistent pattern of substantial difference in these 15 comparative elements – if, in fact, there was an effect. The paired sales analysis is an 16 effective method of determining if there is a measurable and consistent detrimental impact 17 on surrounding properties and has been recognized as so by Randall Bell, PhD, MAI, 18 author of the text Real Estate Damages, Third Edition, published by the Appraisal Institute 19 in 2016. As an approved method, this technique can be utilized to extract the effect of a 20 single characteristic on value, such as proximity to an existing solar energy use. By 21 definition, paired data analysis is "a quantitative technique used to identify and measure 22 adjustments to the sale prices or rents of comparable properties; to apply this technique, 23 sales or rental data on nearly identical properties is analyzed to isolate a single

characteristic's effect on value or rent." The difference in sale price is considered to be the impact of the proximity to the solar farm. For each existing solar energy use studied, we have identified Test Area Sales (sales adjacent to existing solar energy uses that occurred after announcement and subsequent development of the solar farm) and have compared those to Control Area Sales (sales of comparable properties that are removed from the influence of a solar energy use) that occurred within a reasonable time frame of the Test Area Sales, adjusted to a common date utilizing a Trend Analysis.

Ownership and sales history for each adjoining property to an existing solar farm is 8 9 maintained within our workfile through the effective date of the study. Adjoining 10 properties with no sales data or that sold prior to the announcement of the solar farm were excluded from further analysis. Adjoining properties that sold in a non-arm's length 11 12 transaction (such as a transaction between related parties, bank-owned transaction, or 13 between adjacent owners) were excluded from analysis as these are not considered to be 14 reflective of market price levels. The adjoining properties that remained after exclusions 15 were considered for a paired sale analysis (Test Area Sales). We have found Control Area 16 Sales data through the local Multiple Listing Service (MLS) and other real estate broker 17 databases and verified these sales through county records, conversations with brokers, the 18 individual county's GIS services, and the County Assessor's office. It is important to note 19 that these Control Area Sales are not adjoining to any solar farm, nor do they have a view 20 of a solar farm from the property. Therefore, neither the announcement nor the completion 21 of the solar farm use could have impacted the sales price of these properties. To make 22 direct comparisons, the sale prices of the Control Area Sales were adjusted for market 23 conditions to a common date. In this analysis, the common date is the date (or median sale

date) of the Test Area Sales. After adjustment, any measurable difference between the sale
 prices would be indicative of a possible price impact of the solar farm, if any.

In addition to our research and analysis of existing solar energy facilities, we have reviewed property value trends of the adjacent land uses, including agricultural, single-family and residential properties; reviewed published studies, and held discussions with market participants (real estate assessors and brokers).

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#### Q-9. And what were the results of the studies you conducted?

8 A-9. Based upon examination, research, and analyses of existing solar energy uses, the 9 surrounding areas, and an extensive market database, we concluded that no consistent and 10 measurable negative impact had occurred to adjacent property that could be attributed to 11 proximity to the adjacent, commercial-scale, solar energy use, with regard to unit sale 12 prices or other influential market indicators such as marketing time. In addition, interviews with market participants (local real estate assessors and brokers) were conducted to give 13 14 additional insight as to how the market evaluates farm land and single-family homes that 15 are proximate to solar energy uses. These interviews reaffirmed that there was no 16 difference in price, marketing periods or demand for property directly adjacent to existing 17 solar energy uses when compared to similar properties locationally removed from any solar energy use's influence. This conclusion has been confirmed by numerous county assessors 18 19 who have also investigated this use's potential impact.

#### 20 Q-10. Are there any existing or under construction solar projects in Ohio over 100 MW?

# A-10. Other than the following, there are no existing solar projects in Ohio over 100 MW. There are 7 unique solar power generation facilities that are planned for construction in Ohio, according to the EIA, that will produce 1,066 MW of power when in service, as of

1 December 2020 information, ranging from 46 MW to 300 MW. Two projects in Ohio 2 currently under construction are the 320 MW Hardin Solar Energy project (two phases) 3 being developed by Invenergy and the 200 MW Hillcrest Solar project being developed by 4 Innergex. The first phase (150 MW) of the Hardin Solar Energy project was placed in 5 operation earlier this year in 2021; however, due to its recent completion date, there are no 6 sales that sold after its completion that can be analyzed in a paired sale analysis. For 7 Hillcrest Solar, which is still under construction to my knowledge, there were 8 approximately three home sales adjacent to the project boundary that sold between late 9 January 2020 (start of construction) and the date of my written testimony. Each of these 10 sales sold during normal marketing time of 30-90 days on market and sold at list to sale 11 price discounts of -2.2% to 12.6% (above list). It does not appear that the Hillcrest Solar 12 project has had an impact on property values in the local area.

## Q-11. Is there any reason to expect that the conclusions of the studies you previously conducted would be different from a study evaluating the impact of the Project?

15 **A-11.** No.

### Q-12. What is your overall assessment of the potential impacts of the Project on property values?

A-12. Based on my experience with other commercial solar projects and my familiarity with the
 Union Ridge Solar Farm, as well as the results of the valuation study conducted, I would
 not expect the Project to be the cause of a decrease in property values in the project area.
 Specifically, my conclusion is supported by my experience on the North Star solar project
 in Minnesota, a comparably-sized solar project which has caused no decrease in property
 values. I note that our results on the North Star solar project were also corroborated by the

local county assessor who conducted their own study of properties that were adjacent to
the existing solar array, and over a two-year period were found to have suffered no negative
impact on their respective property values, further, all of the studied properties were found
to be appreciating at a rate consistent with the rest of the county. The assessor presented
this study in front of the Chisago County Board.

#### 6 **Q-13. Does this conclude your direct testimony?**

7 A-13. Yes, it does. However, I reserve the right to offer supplemental testimony if necessary.

#### **CERTIFICATE OF SERVICE**

The undersigned hereby certifies that a copy of the foregoing Testimony was served upon

the parties of record listed below this  $2^{nd}$  day of September 2021 via electronic mail.

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Dylan F. Borchers

Matthew D. Stewart, Esq. Assistant Prosecuting Attorney 20 South Second Street, Fourth Floor Newark, OH 43055 <u>mstewart@lcounty.com</u>

Counsel for Intervenors Licking County Planning Commission; Harrison Township Board of Trustees; Jared Knerr, Engineer of Licking County, Ohio; and Licking County Soil & Water Conservation District

Carolyn J. Carnes, Esq. Assistant Prosecuting Attorney 20 South Second Street, Fourth Floor Newark, OH 43055 <u>ccarnes@lcounty.com</u>

Counsel for Intervenor Board of County Commissioners, Licking County, Ohio

Chad A. Endsley, Esq. Leah F. Curtis, Esq. Amy M. Milam, Esq. Ohio Farm Bureau Federation 280 North High Street, P.O. 182383 Columbus, OH 43218-2383 <u>cendsley@ofbf.org</u> <u>lcurtis@ofbf.org</u> <u>amilam@ofbf.org</u>

Counsel for Intervenor Ohio Farm Bureau Federation

Kyle Kern Assistant Attorneys General Public Utilities Section 30 East Broad Street, 16<sup>th</sup> Floor Columbus, OH 43215 kyle.kern@ohioattorneygeneral.gov

Counsel for Staff of the Ohio Power Siting Board

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Summary: Testimony of Andrew R. Lines on behalf of Union Ridge Solar, LLC electronically filed by Teresa Orahood on behalf of Dylan F. Borchers