BEFORE THE OHIO POWER SITING BOARD

)

)

)

)

In The Matter of The Application of Wild Grains Solar, LLC for a Certificate of Environmental Compatibility and Public Need. Located in Van Wert County, Ohio.

Case No. 21-0823-EL-BGN

DIRECT TESTIMONY OF

JEFFREY REINKEMEYER, P.E., C.E.M.

on behalf of

Wild Grains Solar, LLC

May 13, 2022

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

A-1. My name is Jeffrey Reinkemeyer, P.E. (IN, IL, WI, MO, KY, TN, SC, NC, NE), C.E.M,
and I am the Director of Eastern Renewables Development, for Avangrid Renewables, Inc.
("Avangrid"). My business address is 1237 Inverness CT, Schererville, IN 46375.
Applicant Wild Grains Solar, LLC ("Wild Grains") is a subsidiary of Avangrid

6 Q-2. What are your duties as Director of Eastern Renewables Development at Avangrid?

7 A-2. My duties consist of developing energy infrastructure projects in the clean energy space. I 8 have worked in this area since 2007. Currently, my duties and experience include 9 identifying project opportunities in the Eastern region of the United States (the PJM 10 interconnect) and leading work across the project development lifecycle for solar power projects, including but not limited to Wild Grains. These efforts include market analysis, 11 12 site screening, landowner outreach, permitting and late-stage development until transition 13 to our construction team. While at Avangrid, I have developed renewable energy projects 14 in multiple states, and utilize this experience to lead Avangrid's renewable development activity in the Eastern region of the United States. 15

16 (

Q-3. What is your education and professional background?

- A-3. I received a Bachelor of Science Degree in 1990 from University of Missouri-Rolla (now
 Missouri University of Science and Technology) in Mechanical Engineering. I then
 received a Master's of Business Administration, focusing on Sustainable Business, in 2013
 from Marylhurst University.
- I have worked with Avangrid since 2007 as the Director of Eastern Renewables Development. Prior to Avangrid, I was Manager of the CM Project Management Group for RMT (now IEA) Construction for five years, where I was responsible for project development, design engineering/engineering oversight, estimating, and project management. Prior to this role, I worked as a consulting engineer, and a plant/process engineer in the Petrochemical and Rubber industries.

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

28 A-4. I am offering testimony on behalf of Wild Grains.

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

2 A-5. The purpose of my testimony is twofold. First, I intend to provide a summary of the Wild Grains Solar Project ("Project" or "Wild Grains"), including background 3 information concerning Wild Grain's Application and the Exhibits thereto. Second, I 4 intend to summarize the primary components of the Application and sponsor its admission 5 into evidence along with certain Exhibits to the Application, all certificates of service, all 6 7 required proofs of publications, and all other letters and documents required by OPSB 8 rules. The Exhibits I am sponsoring are the reports prepared at my direction by our 9 consultant Westwood: Substation General Arrangement (Applicant Exhibit 1, at Exhibit A); Geotechnical Report (Application Exhibit 1, at Exhibit C); Traffic Study (Applicant 10 11 Exhibit 1, at Exhibit K); Decommissioning Plan (Applicant Exhibit 1, at Exhibit L); 12 Groundwater, Hydrogeological, and Geotechnical Desktop Review (Applicant Exhibit 1, 13 at Exhibit P), the Phase IA Cultural Resources Survey and the Phase I Archaeological 14 Survey (Applicant Exhibit 1, at Exhibits S and U). The remaining Exhibits to the Application are being sponsored by additional witnesses. 15

Q-6. Are the Wild Grains Application, Exhibits, and responses to Staff Data Requests true and accurate to the best of your knowledge and belief?

A-6. Yes, the Application and Exhibits (Applicant Exhibit 1) and all of Wild Grain's Responses
 to the Staff Data Requests (Applicant Exhibit 2) are true and accurate and were prepared
 under my direction.

Q-7. Were copies of the accepted Application served on local public officials and libraries in accordance with OAC Rule 4906-3-07(A)?

A-7. Yes, such service was made, and I am sponsoring Applicant Exhibit 3, which is proof of
 service of the Application.

Q-8. Did Wild Grains file and serve a copy of the letter sent to property owners and tenants with the plan or contiguous to the plan site pursuant to OAC Rule 4906-3-03(B)?

A-8. Yes. A letter was sent to property owners and tenants within the plan site or contiguous to
the plan site on July 28, 2021 announcing that the Public Informational Meeting would be
held on August 18, 2021. (Applicant Exhibit 4.)

1	Q-9.	Did Wild Grains cause notice of the Public Informational Meetings, the Application,		
2		and the hearing dates to be published in the local newspaper?		
3	A-9.	Yes. Such notice was published in The Times Bulletin at the appropriate times. Proof of		
4		publications in this newspaper was filed on the docket on August 26, 2021. (Applicant		
5		Exhibit 5.)		
6	Q-10.	Please list all consultants Wild Grains retained to prepare its Application and		
7		Exhibits, including for each the respective areas of responsibility.		
8	A-10.	Under my direction and supervision, Wild Grains worked with Environmental Design &		
9		Research, Landscape Architecture, Engineering & Environmental Services, D.C.P.		
10		("EDR") as the lead consultant on the Application. EDR assisted in coordinating the studies		
11		used in the Application and Exhibits. I directed and supervised consultants in the following		
12		areas of responsibility:		
13 14 15 16 17 18 19 20		 <u>Terracon</u>: Geotechnical Report (Application Exhibit 1, at Exhibit C). <u>Westwood</u>: Substation General Arrangement (Applicant Exhibit 1, at Exhibit A); Traffic Study (Applicant Exhibit 1, at Exhibit K); Decommissioning Plan (Applicant Exhibit 1, at Exhibit L); Groundwater, Hydrogeological, and Geotechnical Desktop Review (Applicant Exhibit 1, at Exhibit P). ESI: Ecological Survey Report (Applicant Exhibit 1, at Exhibit Q). 		
21 22 23 24 25 26 27 28 29 30 31 32		 <u>ESI</u>: Ecological Survey Report (Applicant Exhibit 1, at Exhibit Q). <u>EDR</u>: Vegetation Management Plan (Application Exhibit 1, at Exhibit D); Lighting Strategy (Applicant Exhibit 1, at Exhibit F); Socioeconomic Report (Applicant Exhibit 1, at Exhibit H); Public Information Program (Applicant Exhibit 1, at Exhibit I); Complaint Resolution Plan (Applicant Exhibit 1, at Exhibit J); Solar Glare Analysis Report (Applicant Exhibit 1, at Exhibit N); Typical Best Management Practices (Applicant Exhibit 1, at Exhibit R); Phase 1A Cultural Resources Survey (Applicant Exhibit 1, at Exhibit S); Historic Resources Survey (Applicant Exhibit 1, at Exhibit T); Visual Resources Assessment (Applicant Exhibit 1, at Exhibit V). Jacobs: Noise Assessment (Applicant Exhibit 1, at Exhibit 0). 		
33	Q-11.	What is the general purpose of the Project?		
34 35	A-11.	The general purpose of the Project is to produce solar-powered electricity that will maximize energy production from solar resources to deliver clean, renewable energy to the		

36 Ohio bulk power transmission system to serve the needs of electric utilities and their

customers. The electricity generated by the Project will be transferred to the transmission
 grid operated by PJM Interconnection, LLC ("PJM") for sale at wholesale to the grid or
 under a power purchase agreement.

4 Q-12. Would you describe the proposed Project, the Project Area, and the power generation 5 potential of the solar farm?

A-12. The Project is a 150 MW solar-powered electric generating facility for which Wild Grains has applied for a certificate to construct in Hoaglin Township in Van Wert County, Ohio. The Project would occupy approximately 818 acres within an approximate 2,312-acre project area comprised of private land secured by Wild Grains through agreements with the landowners.

The Project will be located on rural, previously disturbed land that has been mostly cleared for agriculture and is generally flat. The facility will consist of large arrays of photovoltaic (PV) panels (known as solar panels), which will be ground-mounted on a tracking rack system. The racking includes steel posts driven five to ten feet into the ground. Depending on the PV module selected, the facility will include approximately 470,440 panels. The solar panel arrays will be fenced with gated entrances and electronic security systems.

The Project also includes access roads, electric collection lines, a collection substation, a 100 foot-long transmission line to the POI substation, a laydown area for construction 19 staging, an operation and maintenance (O&M) building, and pyranometers. The energy 20 generated at the facility will deliver power from the proposed Point of Interconnect ("POI") 21 substation to the existing Maddox Creek 345 kV transmission line owned by AEP.

22 Q-13. Do you believe the Project will have a positive impact on the local community?

A-13. Yes. As also noted in the Staff Report of Investigation ("Staff Report"), the Project is
 expected to create approximately 675 construction jobs for the State of Ohio during the
 construction period and 6 long-term operational jobs for the State of Ohio.

Additionally, the Project would generate revenue based on a payment in lieu of taxes ("PILOT") plan under the Ohio Air Quality Development Authority ("OAQDA"). The Wild Grains project pursued an OAQDA PILOT with the local county, township, and school district because of the ability to customize the PILOT in order to better target local needs. The Project interacted with these local stakeholders for multiple months. As a result, the Project and local stakeholders were able to develop a PILOT framework and agreement
 to accomplish a variety of goals.

First, this arrangement will continue to allocate annual PILOT revenue to a variety of local
taxing entities, including an increase the funding to the local township general revenue
fund.

Second, the arrangement will provide an annual payment to existing non-participating
homeowners in the township where the project is located. The annual payment will be
administered by a not for profit entity controlled by the local county and township.

9 Further, the Project is consistent with agricultural industry support, as the facility will 10 provide supplemental income to farmers, and the land can be returned to agricultural 11 production after decommissioning.

In recognition of these benefits, the Hoaglin Township Trustees have written a letter in support of the Project, which was posted in the Public Comments on January 3, 2021. In that letter, the Trustees indicate that "Hoaglin Township is excited the benefits of Wild Grains for our community" and request approval of the Project.

16 Q-14. Did you attend the local public hearing held on May 3, 2022?

17 **A-14.** Yes.

Q-15. What has Wild Grains done to address and respond to the comments raised at the local public hearing?

A-15. Nine individuals offered sworn testimony during the local public hearing. Six spoke in support of the Project, citing economic benefits, environmental stewardship, landowner rights, and productive land use. Two of these individuals testified that they would like the setback areas to be planted with crops. To the extent a landowner or tenant is interested in planting those areas, Wild Grains is amendable to that suggestion. As discussed later in my testimony, Wild Grains proposes a modification to Condition 17 in order to support this request.

Three individuals raised concerns related to property values and wildlife impacts. With respect to property values, the existing research suggests that there will be no negative impact to the surrounding property values. Solar development in rural and agricultural

5

areas has not been linked to lost property value. Further, to the extent the testimony was concerned about homes being "surrounded" by panels, Wild Grains has ensured that no nonparticipating residence has panels on more than one side of the property. The fear of being surrounded is unwarranted. Wild Grains is also willing to allow the setback areas to be planted with crops, where possible, in order to maintain the agricultural aesthetic the neighbors are accustomed to.

7

8

With respect to the impact to wildlife, the Application deals extensively with the environmental impact of the project and those studies will be the subject of other testimony.

9 Q-16. Are you aware that the OPSB must make certain determinations under Ohio Revised
 10 Code ("R.C.") 4906.10 before issuing the certificate for which Wild Grains has
 11 applied?

A-16. Yes. I have been advised there are eight criteria considered by the OPSB in making its
decision whether or not to issue a certificate.

Q-17. Does the Application meet Wild Grains' obligation to make the required showings under R.C. 4906.10?

A-17. Yes. The Application and Exhibits thereto enable the OPSB to determine Wild Grains has
 met each of the eight criteria under R.C. 4906.10.

18 Q-18. Has the Project been designed to achieve minimum impacts?

A-18. Yes. From the inception of the Project through the studies completed in connection with
 the Application, Wild Grains has been working with landowners, consultants, and the
 community to minimize or eliminate the impacts of construction and operation of the
 Project.

With respect to construction, activities are expected to have typical and relatively limited impacts as they are temporary, intermittent, subject to time-of-day restrictions, and Wild Grains will use best management practices. Increased traffic during construction will be managed with no expected road closures and will end when the Project is operational. Wild Grains will obtain all required permits and authorizations. With respect to operations, on behalf of Wild Grains, I engaged, directed, and supervised
 consultants to study the potential environmental, ecological, cultural, and visual impacts of
 the Projects. (Applicant Exhibit 1, at Exhibits A-V.)

Among these, Wild Grains requested study of the Project Area to determine the presence of threatened or endangered species. The study revealed only that the Project Area includes the historical range and presence of the Indiana bat and the northern long-eared bat and is not of concern for other listed species. Wild Grains will avoid impacts to these bat species by minimizing and seasonally limiting tree-clearing activities during the proscribed months.

Wild Grain's Sound Assessment resulted in a finding that any noise impacts will be limited to construction. Construction noise will be minimized by practices such as limiting hours of work, locating staging away from sensitive receptors, and controlling vehicle movement to prevent backup alarms. Once operational, the ambient noise level will be higher than the Project operational noise. As a result, the Project will be essentially inaudible for participating and non-participating residences.

Visual impacts of the Project were studied by EDR within a five-mile radius of the Project Area and determined to be minimal. Visual impacts of the Project are mitigated by the flat terrain, low profile of the solar panels, efforts to preserve existing vegetation, and by adding vegetative screening, including the use of pollinator habitat in landscaping.

Additionally, Wild Grains' studies determined that there are no impacts to wetlands and surface waters. Similarly, the Project will generate no wastewater, no air emissions, and minimal solid waste. With respect to aviation, the nearest public-use airport is Van Wert Airport, 4.5 miles from the Project Area. No concerns have been identified by ODOT.

To the extent there are concerns, Wild Grains will implement a complaint resolution procedure to ensure any complaints regarding construction and operation of the Project are appropriately investigated and addressed.

27 Q-19. How did Wild Grains decide to locate the Project in Van Wert County?

A-19. Wild Grains selected the Project site using data and considering a number of factors. These
 include strong solar resources, manageable access to the bulk power transmission system,
 sufficiently low population density, positive feedback from local landowners and officials,

7

highly-compatible land-use characteristics, and few environmentally sensitive areas. 1 2 Specifically, data from the National Renewable Energy Laboratory's ("NREL") U.S. 3 National Solar Radiation Database, along with site visits and capacity analysis shows that 4 this region of Ohio, including Van Wert County, has suitable solar resources. Additionally, existing bulk transmission lines are located within the vicinity of the facility in Van Wert 5 County. Land use in Van Wert County is primarily agricultural and characterized by open 6 7 spaces suitable for hosting a utility-scale solar project. The Project Area is bounded and 8 traversed by roads appropriate for transportation purposes. Further, the Project site's 9 proximity to the Avangrid Blue Creek Wind Farm will allow for efficient use of existing 10 operations staff and infrastructure.

11

Q-20. Will the Project adversely impact cultural historic resources?

12 A-20. Few cultural or historic resource impacts are anticipated, and those have been minimized. Wild Grains enlisted and directed EDR to gather information and complete a cultural 13 14 resources review for a 2-mile radius around the Project. Wild Grains' historical study resulted in finding a total of 98 archaeological sites that were newly identified within the 15 16 Project Area and four previously identified sites. All but 20 sites were recommended by 17 EDR as ineligible for listing in the National Register of Historic Places (NRHP), and EDR recommended avoidance of those 20 sites. On November 19, 2022, Wild Grains filed 18 correspondence on the docket stating concurrence had been obtained from the Ohio 19 20 Historic Preservation Office ("OHPO") that there are no adverse effects on historic 21 properties, resulting in no additional required mitigation.

Q-21. How will the Project protect existing drain tile in the Project Area? 22

23 A-21. With assistance from Avangrid, Wild Grains has developed and included as Exhibit E to its Application a Tile Maintenance Plan that will aid protection of existing drain tile in the 24 25 Project Area. Wild Grains has also agreed to repair or replace drain tiles damaged during 26 construction with modern, functional equivalent systems and to restore land temporarily impacted during construction to its original use. Wild Grains has consulted with 27 landowners and studied records and GIS data to determine the location of drain tile mains, 28 29 and has committed to trying to locate drain tiles as accurately as possible prior to 30 construction.

1 Q-22. How will Wild Grains address viewshed concerns?

A-22. At my direction and supervision, EDR performed a Visual Resource Assessment 2 3 (Applicant Exhibit 1, at Exhibit V). The visual impact of the Project is relatively modest, as the area is flat and the solar panels are low-profile. Wild Grains will also take additional 4 5 steps to minimize visual impact. These include avoiding removing existing vegetation when possible and using best practices in designing a landscaping plan. To the extent there 6 7 is a visual impact to an adjacent, non-participating parcel containing a residence with a 8 direct line of sight, Wild Grains will use landscape management and vegetative buffers to 9 mitigate effects.

10 **Q-23.** Will the Project comply with applicable safety and equipment standards?

A-23. Yes. With regard to safety, Wild Grains plans to use warning signs, gates, and fencing to
 restrict access to potential hazards within the Project Area.

Q-24. Have you reviewed the Staff Report and does Wild Grains have any concerns with or proposed revisions to any of the Conditions recommended by the Staff in the Staff Report?

- A-24. Yes, I reviewed the Staff Report. Wild Grains was generally satisfied with and amenable
 to the Recommended Conditions. Wild Grains does, however, have minor suggested edits
 as indicated by the underlined text below.
- For conditions 17 and 18, Wild Grains proposes language that will allow greater local input into the perimeter screening and fencing selected. Although the default fencing selection for the project will be "agricultural style" fencing, the local community may state a clear preference for an alternative. In addition, the community has expressed a preference for agricultural plantings on the perimeter of the Project. His proposed revision enables this local accommodation.
- 25 (17)Prior to commencement of any construction, the Applicant shall prepare a 26 landscape and lighting plan in consultation with a landscape architect licensed by the Ohio Landscape Architects Board that addresses the aesthetic and 27 lighting impacts of the facility with an emphasis on any locations where an 28 29 adjacent non-participating parcel contains a residence with a direct line of sight to the project area. The plan shall also address potential aesthetic impacts to 30 nearby communities, the travelling public, and recreationalists by incorporating 31 32 appropriate landscaping measures such as shrub plantings or enhanced

pollinator plantings. The plan shall include measures such as fencing, 1 2 vegetative screening, or good neighbor agreements. Unless alternative mitigation is agreed upon with the owner of any such adjacent, non-3 4 participating parcel containing a residence with a direct line of sight to the fence 5 of the facility, the plan shall provide for the planting of vegetative screening 6 designed by the landscape architect to enhance the view from the residence and 7 be in harmony with the existing vegetation and viewshed in the area, and/or 8 shall provide for crops to be planted on the perimeter of the Project that would 9 help maintain the existing agricultural viewshed if desired by the communit. 10 The Applicant shall maintain vegetative screening for the life of the facility and the Applicant shall replace any failed plantings so that, after five years, at least 11 90 percent of the vegetation has survived. Prior to commencement of 12 construction, the Applicant shall submit to Staff for approval a solar panel 13 perimeter fence type that is both small-wildlife permeable and aesthetically 14 fitting for a rural location. The determination that a fence type is "aesthetically 15 fitting" may be demonstrated by the Applicant through written feedback from 16 local government officials, landowners, and project neighbors. This condition 17 shall not apply to substation fencing. The Applicant shall maintain all fencing 18 along the perimeter of the project in good repair for the term of the project and 19 shall promptly repair any damage as needed. Lights shall be motion-activated 20 and designed to narrowly focus light inward toward the facility, such as being 21 downward facing and/or fitted with side shields. The Applicant shall provide 22 the plan to Staff and file it on the public docket for review and confirmation 23 that it complies with this condition. 24 25

(18) Prior to commencement of construction, the Applicant shall submit to Staff for approval a solar panel perimeter fence type that is both small-wildlife permeable and "aesthetically fitting" for a rural location. <u>The determination</u> <u>that a fence type is "aesthetically fitting" may be demonstrated by the</u> <u>Applicant through written feedback from local government officials,</u> <u>landowners, and project neighbors. This condition shall not apply to</u> <u>substation fencing.</u>

For Condition 24, Wild Grains proposes a minor clarification concerning the scope and applicability of the condition:

(24) All water wells within the project area shall be "ground-truthed" to determine the exact locations prior to construction. The Applicant shall adhere to a minimum project infrastructure setback of 50 feet from any existing domestic use water supply well. The Applicant shall obtain concurrence from the landowner prior to the plugging and abandonment of any water wells within the project area. Documentation of that concurrence shall be filed on the case docket. Plugging and abandonment of any water wells within the project area shall occur prior to construction <u>in the vicinity of the well.</u>

26

27

28

29

30

31

32

35

36

37

38

39 40

41

42

1		For Condition 26, Wild Grains proposes a revision to correct a typo in the recommended		
2		condition:		
3 4 5 6 7		(26)	The Applicant shall construct the facility in a manner that incorporates post construction stormwater management under OHC <u>0</u> 00005 (Part III.G.2.e, pp. 19-27) in accordance with the Ohio Environmental Protection Agency's Guidance on Post-Construction Storm Water Controls for Solar Panel Arrays.	
8	Q-25.	Does this con	clude your direct testimony?	

9 A-25. Yes, it does. However, I reserve the right to offer supplemental testimony if necessary.

CERTIFICATE OF SERVICE

The undersigned hereby certifies that a true and correct copy of the foregoing Direct Testimony of Jeffrey Reinkemeyer was served via electronic mail upon the parties of record listed below this <u>13th</u> day of May 2022:

Kara H. Herrnstein

Werner Margard Robert Eubanks Sarah Feldkamp Assistant Attorneys General Public Utilities Section 30 East Broad St., 16th Floor Columbus, OH 43215 robert.eubanks@ohioAGO.gov werner.margard@ohioAGO.gov sarah.feldkamp@ohioAGO.gov

Counsel for Ohio Power Siting Board Staff

Chad A. Endsley Leah F. Curtis Amy M. Milam Ohio Farm Bureau Federation 280 North High Street Columbus, OH 43218-2383 cendsley@ofbf.org lcurtis@ofbf.org amilam@ofbf.org

Counsel for Ohio Farm Bureau Federation

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

5/13/2022 4:29:34 PM

in

Case No(s). 21-0823-EL-BGN

Summary: Testimony of Jeffery Reinkemeyer on behalf of Wild Grains Solar, LLC electronically filed by Teresa Orahood on behalf of Herrnstein, Kara