Exhibit A

Property Value Impact Report



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July 21, 2021

Conor Goodson Silicon Ranch 222 Second Avenue S. Suite 1900 Nashville, TN 37201

RE: Russellville Solar Project, Harrison County, KY

Mr. Goodson,

At your request, I have considered the impact of a 208 MW solar farm proposed to be constructed on a 1,612-acre portion of a larger parent tract assemblage on Watermelon Road, Russellville, Logan County, Kentucky. Specifically, I have been asked to give my professional opinion on whether the proposed solar farm will have any impact on adjoining property value and whether "the location and character of the use, if developed according to the plan as submitted and approved, will be in harmony with the area in which it is to be located."

To form an opinion on these issues, I have researched and visited existing and proposed solar farms in Kentucky as well as other states, researched articles through the Appraisal Institute and other studies, and discussed the likely impact with other real estate professionals. I have not been asked to assign any value to any specific property.

This letter is a limited report of a real property appraisal consulting assignment and subject to the limiting conditions attached to this letter. My client is Silicon Ranch represented to me by Conor Goodson. My findings support the Kentucky Siting Board Application. The effective date of this consultation is July 21, 2021.

While based in NC, I am also a Kentucky State Certified General Appraiser #5522.

Conclusion

The adjoining properties are well set back from the proposed solar panels and most of the site has good existing landscaping for screening the proposed solar farm. Additional supplemental vegetation is proposed to supplement the areas where the existing trees are insufficient to provide a proper screen.

The matched pair analysis shows no impact on home values due to abutting or adjoining a solar farm as well as no impact to abutting or adjacent vacant residential or agricultural land where the solar farm is properly screened and buffered. The criteria that typically correlates with downward adjustments on property values such as noise, odor, and traffic all indicate that a solar farm is a compatible use for rural/residential transition areas and that it would function in a harmonious manner with this area.

Data from the university studies, broker commentary, and other appraisal studies support a finding of no impact on property value adjoining a solar farm with proper setbacks and landscaped buffers.

Very similar solar farms in very similar areas have been found by hundreds of towns and counties not to have a substantial negative effect to abutting or adjoining properties, and many of those findings of no impact have been upheld by appellate courts. Similar solar farms have been approved with adjoining agricultural uses, schools, churches, and residential developments.

Based on the data and analysis in this report, it is my professional opinion that the solar farm proposed at the subject property will have no impact on the value of adjoining or abutting properties and that the proposed use is in harmony with the area in which it is located. I note that some of the positive implications of a solar farm that have been expressed by people living next to solar farms include protection from future development of residential developments or other more intrusive uses, reduced dust, odor and chemicals from former farming operations, protection from light pollution at night, it's quiet, and there is minimal traffic.

If you have any questions please contact me.

Sincerely,

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Richard C. Kirkland, Jr., MAI Kentucky Certified General Appraiser #5522



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I. <u>Proposed Project and Adjoining Uses</u>

Proposed Use Description

This 208 MW solar farm is proposed to be constructed on a 1,612-acre portion of a larger parent tract assemblage on Watermelon Road, Russellville, Logan County, Kentucky. Adjoining land is a mix of residential and agricultural uses, which is very typical of solar farm sites.

Adjoining Properties

I have considered adjoining uses and included a map to identify each parcel's location. The closest adjoining home will be 250 feet from the closest solar panel and the average distance to adjoining homes will be 1,058 feet to the nearest solar panel. These setbacks are much larger than what is typically found and will go beyond what is needed to protect adjoining property values.

The breakdown of those uses by acreage and number of parcels is summarized below.

	Acreage	Parcels
Residential	3.52%	45.71%
Agricultural	51.30%	37.14%
Agri/Res	45.06%	14.29%
Religious	0.12%	2.86%
Total	100.00%	100.00%

Tax Parcel Map



Surrounding Uses

	C		GIS Data		Adjoin	Adjoin	Distance (ft)
#	MAP ID	Owner	Acres	Present Use	Acres	Parcels	Home/Panel
1	055-00-00-005-00	Stratton	0.42	Residential	0.02%	2.86%	1,020
2	055-00-00-004-00	Lee	2.29	Residential	0.08%	2.86%	960
3	055-00-00-003-00	Norris	5.76	Residential	0.21%	2.86%	920
4	055-00-00-001-00	McCormick	56.00	Agricultural	2.07%	2.86%	N/A
5	055-00-00-015-04	Chick	9.14	Residential	0.34%	2.86%	N/A
6	055-00-00-015-07	Chick	10.00	Residential	0.37%	2.86%	1,195
7	055-00-00-015-06	Campbell	12.00	Residential	0.44%	2.86%	1,015
8	055-00-00-015-05	Ferris	16.75	Residential	0.62%	2.86%	720
9	054-00-00-020-01	Riley	59.00	Agricultural	2.18%	2.86%	N/A
10	055-00-00-012-00	Vick	134.81	Agri/Res	4.97%	2.86%	1,390
11	055-00-00-018-00	Shackelford	9.60	Residential	0.35%	2.86%	N/A
12	055-00-00-019-00	Black Church	3.28	Religious	0.12%	2.86%	N/A
13	055-00-00-013-00	Dawson	174.00	Agricultural	6.42%	2.86%	N/A
14	055-00-00-014-00	Harper	167.00	Agricultural	6.16%	2.86%	N/A
15	055-00-00-014-02	Statton	6.00	Residential	0.22%	2.86%	N/A
16	069-00-00-008-00	Hall	205.41	Agricultural	7.58%	2.86%	N/A
17	070-00-00-005-00	Bell	139.00	Agricultural	5.13%	2.86%	N/A
18	055-00-00-017-00	Miles	907.00	Agri/Res	33.46%	2.86%	2,140
19	055-00-00-009-00	Miles	36.00	Agricultural	1.33%	2.86%	N/A
20	056-00-00-001-01	Miles	120.00	Agricultural	4.43%	2.86%	N/A
21	041-00-00-009-02	Kemp	82.00	Agricultural	3.03%	2.86%	N/A
22	041-00-00-009-00	Gotts	46.61	Agri/Res	1.72%	2.86%	1,580
23	041-00-00-006-00	Dawson	109.00	Agri/Res	4.02%	2.86%	2,205
24	041-00-00-004-00	Dawson	85.00	Agricultural	3.14%	2.86%	N/A
25	041-00-00-005-02	Dawson	2.00	Residential	0.07%	2.86%	255
26	040-00-00-024-01	Crawford	7.34	Residential	0.27%	2.86%	250
27	041-00-00-005-01	Dawson	24.00	Agri/Res	0.89%	2.86%	900
28	040-00-00-024-00	Kemp	139.00	Agricultural	5.13%	2.86%	N/A
29	055-00-00-007-00	Robertson	1.48	Residential	0.05%	2.86%	355
30	040-00-00-023-02	Kemp	100.00	Agricultural	3.69%	2.86%	N/A
31	055-00-00-007-01	Latham	4.98	Residential	0.18%	2.86%	270
32	040-00-00-023-01	Kemp	28.00	Agricultural	1.03%	2.86%	N/A
33	040-00-00-023-03	Coots	1.29	Residential	0.05%	2.86%	1,420
34	055-00-00-006-02	Cox	3.21	Residential	0.12%	2.86%	1,385
35	055-00-00-006-01	Cox	3.21	Residential	0.12%	2.86%	1,070
		Total	2710.582		100.00%	100.00%	1,058

N/A indicates that there is no adjoining home to which to measure.

II. <u>Methodology and Discussion of Issues</u>

Standards and Methodology

I conducted this analysis using the standards and practices established by the Appraisal Institute and that conform to the Uniform Standards of Professional Appraisal Practice. The analyses and methodologies contained in this report are accepted by all major lending institutions, and they are used in Kentucky and across the country as the industry standard by certified appraisers conducting appraisals, market analyses, or impact studies and are considered adequate to form an opinion of the impact of a land use on neighboring properties. These standards and practices have also been accepted by the courts at the trial and appellate levels and by federal courts throughout the country as adequate to reach conclusions about the likely impact a use will have on adjoining or abutting properties.

The aforementioned standards compare property uses in the same market and generally within the same calendar year so that fluctuating markets do not alter study results. Although these standards do not require a linear study that examines adjoining property values before and after a new use (e.g. a solar farm) is developed, some of these studies do in fact employ this type of analysis. Comparative studies, as used in this report, are considered an industry standard.

The type of analysis employed is a Matched Pair Analysis or Paired Sales Analysis. This methodology is outlined in **The Appraisal of Real Estate**, Twelfth Edition by the Appraisal Institute pages 438-439. It is further detailed in **Real Estate Damages**, Third Edition, pages 33-36 by Randall Bell PhD, MAI. Paired sales analysis is used to support adjustments in appraisal work for factors ranging from the impact of having a garage, golf course view, or additional bedrooms. It is an appropriate methodology for addressing the question of impact of an adjoining solar farm. The paired sales analysis is based on the theory that when two properties are in all other respects equivalent, a single difference can be measured to indicate the difference in price between them. Dr. Bell describes it as comparing a test area to control areas. In the example provided by Dr. Bell he shows five paired sales in the test area compared to 1 to 3 sales in the control areas to determine a difference. I have used 3 sales in the control areas in my analysis for each sale developed into a matched pair.

Determining what is an External Obsolescence

An external obsolescence is a use of property that, because of its characteristics, might have a negative impact on the value of adjacent or nearby properties because of identifiable impacts. Determining whether a use would be considered an external obsolescence requires a study that isolates that use, eliminates any other causing factors, and then studies the sales of nearby versus distant comparable properties. The presence of one or a combination of key factors does not mean the use will be an external obsolescence, but a combination of these factors tend to be present when market data reflects that a use is an external obsolescence.

External obsolescence is evaluated by appraisers based on several factors. These factors include but are not limited to:

- 1) Traffic. Solar Farms are not traffic generators.
- 2) Odor. Solar farms do not produce odor.
- 3) Noise. Solar farms generate no noise concerns and are silent at night.

4) Environmental. Solar farms do not produce toxic or hazardous waste. Grass is maintained underneath the panels so there is minimal impervious surface area.

5) Appearance/Viewshed. This is the one area that potentially applies to solar farms. However, solar farms are generally required to provide significant setbacks and landscaping buffers to address that concern. Furthermore, any consideration of appearance of viewshed impacts has to be considered in comparison with currently allowed uses on that site. For example if a residential subdivision is already an allowed use, the question becomes in what way does the appearance impact adjoining property owners above and beyond the appearance of that allowed subdivision or other similar allowed uses.

6) Other factors. I have observed and studied many solar farms and have never observed any characteristic about such facilities that prevents or impedes neighbors from fully using their homes or farms or businesses for the use intended.

Relative Solar Farm Sizes

Solar farms have been increasing in size in recent years. Much of the data collected is from existing, older solar farms of smaller size, but there are numerous examples of sales adjoining 75 to 80 MW facilities that show a similar trend as the smaller solar farms. This is understandable given that the primary concern relative to a solar farm is the appearance or view of the solar farm, which is typically addressed through setbacks and landscaping buffers. The relevance of data from smaller solar farms to larger solar farms is due to the primary question being one of appearance. If the solar farm is properly screened, then little of the solar farm would be seen from adjoining property regardless of how many acres are involved.

Larger solar farms are often set up in sections where any adjoining owner would only be able to see a small section of the project even if there were no landscaping screen. Once a landscaping screen is in place, the primary view is effectively the same whether you are adjoining a 5 MW, 20 MW or 100 MW facility.

I have split out the data for the matched pairs adjoining larger solar farms only to illustrate the similarities later in this report. I note that I have matched pairs adjoining solar farms up to 620 MWs in size showing no impact on property value.

Steps Involved in the Analysis

The paired sales analysis employed in this report follows the following process:

- 1. Identify sales of property adjoining existing solar farms.
- 2. Compare those sales to similar property that does not adjoin an existing solar farm.
- 3. Confirmation of sales are noted in the analysis write ups.
- 4. Distances from the homes to panels are included as a measure of the setbacks.
- 5. Topographic differences across the solar farms themselves are likewise noted along with demographic data for comparing similar areas.

There are a number of Sale/Resale comparables included in the write ups, but most of the data shown is for sales of homes after a solar farm has been announced (where noted) or after a solar farm has been constructed.

III. <u>Research on Solar Farms</u>

A. Appraisal Market Studies

I have also considered a number of impact studies completed by other appraisers as detailed below.

CohnReznick – Property Value Impact Study: Adjacent Property Values Solar Impact Study: A Study of Eight Existing Solar Facilities

Patricia McGarr, MAI, CRE, FRICS, CRA and Andrew R. Lines, MAI with CohnReznick completed an impact study for a proposed solar farm in Cheboygan County, Michigan completed on June 10, 2020. I am familiar with this study as well as a number of similar such studies completed by CohnReznick. I have not included all of these studies but I submit this one as representative of those studies.

This study addresses impacts on value from eight different solar farms in Michgian, Minnesota, Indina, Illinois, Virginia and North Carolina. These solar farms are 19.6 MW, 100 MW, 11.9 MW, 23 MW, 71 MW, 61 MW, 40 MW, and 19 MW for a range from 11.9 MW to 100 MW with an average of 31 MW and a median of 31.5 MW. They analyzed a total of 24 adjoining property sales in the Test Area and 81 comparable sales in the Control Area over a five-year period.

The conclusion of this study is that there is no evidence of any negative impact on adjoining property values based on sales prices, conditions of sales, overall marketability, potential for new development or rate of appreciation.

Christian P. Kaila & Associates – Property Impact Analysis – Proposed Solar Power Plant Guthrie Road, Stuarts Draft, Augusta County, Virginia

Christian P. Kaila, MAI, SRA and George J. Finley, MAI developed an impact study as referenced above dated June 16, 2020. This was for a proposed 83 MW facility on 886 acres.

Mr. Kaila interviewed appraisers who had conducted studies and reviewed university studies and discussed the comparable impacts of other development that was allowed in the area for a comparative analysis of other impacts that could impact viewshed based on existing allowed uses for the site. He also discussed in detail the various other impacts that could cause a negative impact and how solar farms do not have such characteristics.

Mr. Kaila also interviewed County Planners and Real Estate Assessor's in eight different Virginia counties with none of the assessor's identifying any negative impacts observed for existing solar projects.

Mr. Kaila concludes on a finding of no impact on property values adjoining the indicated solar farm.

Fred Beck, MAI, CCIM – Impact Analysis in Lincoln County 2013

Mr. Fred Beck, MAI, CCIM completed an impact analysis in 2013 for a proposed solar farm that concluded on a negative impact on value. That report relied on a single cancelled contract for an adjoining parcel where the contracted buyers indicated that the solar farm was the reason for the cancellation. It also relied on the activities of an assessment impact that was applied in a nearby county.

Mr. Beck was interviewed as part of the Christian Kalia study noted above. From that I quote "Mr. Beck concluded on no effect on moderate priced homes, and only a 5% change in his limited research of higher priced homes. His one sale that fell through is hardly a reliable sample. It also was misleading on Mr. Beck's part to report the lower re-assessments since the primary cause of the

re-assessments were based on the County Official, who lived adjacent to the solar farm, appeal to the assessor for reductions with his own home." In that Clay County Case study the noted lack of lot sales after announcement of the solar farm also coincided with the recession in 2008/2009 and lack of lot sales effectively defined that area during that time.

I further note, that I was present at the hearing where Mr. Beck presented these findings and the predominance of his argument before the Lincoln County Board of Commissioner's was based on the one cancelled sale as well as a matched pair analysis of high-end homes adjoining a four-story call center. He hypothesized that a similar impact from that example could be compared to being adjacent solar farm without explaining the significant difference in view, setbacks, landscaping, traffic, light, and noise. Furthermore, Mr. Beck did have matched pairs adjoining a solar farm in his study that he put in the back of his report and then ignored as they showed no impact on property value.

Also noted in the Christian Kalia interview notes is a response from Mr. Beck indicating that in his opinion "the homes were higher priced homes and had full view of the solar farm." Based on a description of screening so that "the solar farm would not be in full view to adjoining property owners. Mr. Beck said in that case, he would not see any drop in property value."

NorthStar Appraisal Company – Impact Analysis for Nichomus Run Solar, Pilesgrove, NJ, September 16, 2020

Mr. William J. Sapio, MAI with NorthStar Appraisal Company considered a matched pair analysis for the potential impact on adjoining property values to this proposed 150 MW solar farm. Mr. Sapio considered sales activity in a subdivision known as Point of Woods in South Brunswick Township and identified two recent new homes that were constructed and sold adjoining a 13 MW solar farm and compared them to similar homes in that subdivision that did not adjoin the solar farm. These homes sold in the \$1,290,450 to \$1,336,613 price range and these homes were roughly 200 feet from the closest solar panel.

Based on this analysis, he concluded that the adjoining solar farm had no impact on adjoining property value.

Conclusion of Impact Studies

Of the four studies noted two included actual sales data to derive an opinion of no impact on value. The only study to conclude on a negative impact was the Fred Beck study based on no actual sales data, and he has since indicated that with landscaping screens he would not conclude on a negative impact.

I have relied on these studies as additional support for the findings in this impact analysis.

B. Articles

I have also considered a number of articles on this subject as well as conclusions and analysis as noted below.

Farm Journal Guest Editor, March 22, 2021 - Solar's Impact on Rural Property Values

Andy Ames, ASFMRA (American Society of Farm Managers and Rural Appraisers) published this article that includes a discussion of his survey of appraisers and studies on the question of property value related to solar farms. He discusses the university studies that I have cited as well as Patricia McGarr, MAI.

He also discusses the findings of Donald A. Fisher, ARA, who served six years at the Chair of the ASFMRA's National Appraisal Review Committee. He is also the Executive Vice President of the CNY

Pomeroy Appraiser and has conducted several market studies on solar farms and property impact. He is quoted in the article as saying, "Most of the locations were in either suburban or rural areas, and all of those studies found either a neutral impact, or ironically, a positive impact, where values on properties after installation of solar farms went up higher than time trends."

Howard Halderman, AFM, President and CEO of Halderman Real Estate and Farm Management attended the ASFMRA solar talk hosted by the Indiana Chapter of the ASFMRA and he concludes that other rural properties would likely see no impact and farmers and landowners shown even consider possible benefits. "In some cases, farmers who rent land to a solar company will insure the viability of their farming operation for a longer time period. This makes them better long-term tenants or land buyers so one can argue that higher rents and land values will follow due to the positive impact the solar leases offer."

National Renewable Energy Laboratory - Top Five Large-Scale Solar Myths, February 3, 2016

Megan Day reports form NREL regarding a number of concerns neighbors often express. Myth #4 regarding property value impacts addresses specifically the numerous studies on wind farms that show no impact on property value and that solar farms have a significantly reduced visual impact from wind farms. She highlights that the appearance can be addressed through mitigation measures to reduce visual impacts of solar farms through vegetative screening. Such mitigations are not available to wind farms given the height of the windmills and again, those studies show no impact on value adjoining wind farms.

North Carolina State University: NC Clean Energy Technology Center White Paper: Balancing Agricultural Productivity with Ground-Based Solar Photovoltaic (PV) Development (Version 2), May 2019

Tommy Cleveland and David Sarkisian wrote a white paper for NCSU NC Clean Energy Technology Center regarding the potential impacts to agricultural productivity from a solar farm use. I have interviewed Tommy Cleveland on numerous occasions and I have also heard him speak on these issues at length as well. He addresses many of the common questions regarding how solar farms work and a detailed explanation of how solar farms do not cause significant impacts on the soils, erosion and other such concerns. This is a heavily researched paper with the references included.

North Carolina State University: NC Clean Energy Technology Center White Paper: Health and Safety Impacts of Solar Photovoltaics, May 2017

Tommy Cleveland wrote a white paper for NCSU NC Clean Energy Technology Center regarding the health and safety impacts to address common questions and concerns related to solar farms. This is a heavily researched white paper addressing questions ranging from EMFs, fire safety, as well as vegetation control and the breakdown of how a solar farm works.

C. Broker Commentary

In the process of working up the matched pairs used later in this report, I have collected comments from brokers who have actually sold homes adjoining solar farms indicating that the solar farm had no impact on the marketing, timing, or sales price for the adjoining homes. I have comments from 12 such brokers within this report including brokers from Kentucky, Virginia, Tennessee, and North Carolina.

I have additional commentary from other states including New Jersey and Michigan that provide the same conclusion.

IV. **University Studies**

I have also considered the following studies completed by four different universities related to solar farms and impacts on property values.

A. University of Texas at Austin, May 2018 An Exploration of Property-Value Impacts Near Utility-Scale Solar Installations

This study considers solar farms from two angles. First it looks at where solar farms are being located and concludes that they are being located primarily in low density residential areas where there are fewer homes than in urban or suburban areas.

The second part is more applicable in that they conducted a survey of appraisers/assessors on their opinions of the possible impacts of proximity to a solar farm. They consider the question in terms of size of the adjoining solar farm and how close the adjoining home is to the solar farm. I am very familiar with this part of the study as I was interviewed by the researchers multiple times as they were developing this. One very important question that they ask within the survey is very illustrative. They asked if the appraiser being surveyed had ever appraised a property next to a solar farm. There is a very noticeable divide in the answers provided by appraisers who have experience appraising property next to a solar farm versus appraisers who self-identify as having no experience or knowledge related to that use.

On Page 16 of that study they have a chart showing the responses from appraisers related to proximity to a facility and size of the facility, but they separate the answers as shown below with appraisers with experience in appraising properties next to a solar farm shown in blue and those inexperienced shown in brown. Even within 100 feet of a 102 MW facility the response from experienced appraisers were -5% at most on impact. While inexperienced appraisers came up with significantly higher impacts. This chart clearly shows that an uninformed response widely diverges from the sales data available on this subject.





Furthermore, the question cited above does not consider any mitigating factors such as landscaping buffers or screens which would presumably reduce the minor impacts noted by experienced appraisers on this subject.

The conclusion of the researchers is shown on Page 23 indicated that "Results from our survey of residential home assessors show that the majority of respondents believe that proximity to a solar installation has either no impact or a positive impact on home values."

This analysis supports the conclusion of this report that the data supports no impact on adjoining property values.

B. University of Rhode Island, September 2020

Property Value Impacts of Commercial-Scale Solar Energy in Massachusetts and Rhode Island

The University of Rhode Island published a study entitled **Property Value Impacts of Commercial-Scale Solar Energy in Massachusetts and Rhode Island** on September 29, 2020 with lead researchers being Vasundhara Gaur and Corey Lang. I have read that study and interviewed Mr. Corey Lang related to that study. This study is often cited by opponents of solar farms but the findings of that study have some very specific caveats according to the report itself as well as Mr. Lang from the interview.

While that study does state in the Abstract that they found depreciation of homes within 1-mile of a solar farm, that impact is limited to non-rural locations. On Pages 16-18 of that study under Section 5.3 Heterogeneity in treatment effect they indicate that the impact that they found was limited to non-rural locations with the impact in rural locations effectively being zero. For the study they defined "rural" as a municipality/township with less than 850 population per square mile.

They further tested the robustness of that finding and even in areas up to 2,000 population per square mile they found no statistically significant data to suggest a negative impact. They have not specifically defined a point at which they found negative impacts to begin, as the sensitivity study stopped checking at the 2,000-population per square mile.

Where they did find negative impacts was in high population density areas that was largely a factor of running the study in Massachusetts and Rhode Island which the study specifically cites as being the 2nd and 3rd most population dense states in the USA. Mr. Lang in conversation as well as in recorded presentations has indicated that the impact in these heavily populated areas may reflect a loss in value due to the scarce greenery in those areas and not specifically related to the solar farm itself. In other words, any development of that site might have a similar impact on property value.

Based on this study I have checked the population for the Russelville CCD of Logan County, which has a population of 15,371 population for 2021 based on SiteToDoBusiness by ESRI and a total area of 213.7 square miles. This indicates a population density of 72 people per square mile which puts this well below the threshold indicated by the Rhode Island Study.

I therefore conclude that the Rhode Island Study supports the indication of no impact on adjoining properties for the proposed solar farm project.

C. Master's Thesis: ECU by Zachary Dickerson July 2018

A Solar Farm in *My* Backyard? Resident Perspectives of Utility-Scale Solar in Eastern North Carolina

This study was completed as part of a Master of Science in Geography Master's Thesis by Zachary Dickerson in July 2018. This study sets out to address three questions:

- 1. Are there different aspects that affect resident satisfaction regarding solar farms?
- 2. Are there variations in satisfaction for residents among different geographic settings, e.g. neighborhoods adjacent to the solar farms or distances from the solar farms?
- 3. How can insight from both the utility and planning sectors, combined with knowledge gained from residents, fill gaps in communication and policy writing in regard to solar farms?

This was done through survey and interview with adjacent and nearby neighbors of existing solar farms. The positive to neutral comments regarding the solar farms were significantly higher than negative. The researcher specifically indicates on Page 46 "The results show that respondents generally do not believe the solar farms pose a threat to their property values."

The most negative comments regarding the solar farms were about the lack of information about the approval process and the solar farm project prior to construction.



Figure 11: Residents' positive/negative word choices by geographic setting for both questions

D. Ernest Orlando Lawrence Berkeley National Laboratory, December, 2019

The Impact of Wind Power Projects on Residential Property Values in the United States: A Multi-Site Hedonic Analysis

This study addresses wind farms and not solar farms but it is a reasonable consideration. The activity on a wind farm is significantly different in terms of the mechanics and more particularly on the appearance or viewshed as wind farms cannot be screened from adjoining property owners. This study was commissioned by the Department of Energy and not by any developer. This study examined 7,500 home sales between 1996 and 2007 in order to track sales prices both before and after a wind energy facility was announced or built. This study specifically looked into possible stigma, nuisance, and scenic vista.

On page 17 of that study they conclude "Although the analysis cannot dismiss the possibility that individual homes or small numbers of homes have been or could be negatively impacted, it finds that if these impacts do exist, they are either too small and/or too infrequent to result in any widespread, statistically observable impact."

Given that solar farms are a similar use, but with a lower profile and therefore a lower viewshed than the wind farms, it is reasonable to translate these findings of no impact to solar farms.

V. Summary of Solar Projects in Kentucky

I have researched the solar projects in Kentucky. I identified the solar farms through the Solar Energy Industries Association (SEIA) Major Projects List and then excluded the roof mounted facilities. This leaves only six solar farms in Kentucky for analysis at this time.

One of these six solar farms has limited analysis potential: E.W. Brown near Harrodsburg in Mercer County. The E. W. Brown 10 MW solar farm was built in 2014 and adjoins three coal-fired units. Given that research studies that I have read regarding fossil fuel power plants including "The Effect of Power Plants on Local Housing Values and Rents" by Lucas W. Davis and published May 2010, it would not be appropriate to use any data from this solar farm due to the influence of the coal-fired power plant that could have an impact on up to a one-mile radius. I note that the closest home to a solar panel at this site is 565 feet and the average distance is 1,026 feet. The homes are primarily clustered at the Herrington Lake frontage. Recent sales in this area range from \$164,000 to \$212,000 for these waterfront homes. Again, no usable data can be derived from this solar farm due to the adjoining coal fired plant.

Furthermore, the Cooperative solar farm in Shelby County is a 0.5 MW facility on 35 acres built in 2020 that is proposed to eventually be 4 MW. This project is too new and there have been no home sales adjoining this facility. I also cannot determine how close the nearby homes are to the adjoining solar panels as the aerial imagery does not yet show these panels.

I have provided a summary of projects below and additional detailed information on the projects on the following pages. I specifically note the similarity in most of the sites in Kentucky in terms of mix of adjoining uses, topography, and distances to adjoining homes.

The number of solar farms currently in Kentucky is low compared to a number of other states and North Carolina in particular. I have looked at solar farms in Kentucky for sales activity, but the small number of sites coupled with the relatively short period of time these solar farms have been in place has not provided as many examples of sales adjoining a solar farm as I am able to pull from other places. I have therefore also considered sales in other states, but I have shown in the summary how the demographics around the solar farms in other locations relate to the demographics around the proposed solar farm to show that generally similar locations are being considered. The similarity of the sites in terms of adjoining uses and surrounding demographics makes it reasonable to compare the lack of significant impacts in other areas would translate into a similar lack of significant impacts at the subject site.

Parcel # State County City Name Output Acres Acres to home Home Res Agri Agri/Res Com Resider/Agricul Comm/Ind % 610 KV Warren Bowling Green 2 17.36 17.36 720 720 1% 64% 0% 36% # 10% 30% 60% 100%						Total Used		Avg. Dist Closest		Adjoining Use by Acre				Adjoining Use by Number					
	Parcel # Sta	te County	City	Name	-	Acres	Acres	to home	Home	Res	Agri	Agri/Res	Com		ResiderA	gricul C	Comm/I	nd %	
610 KY Warren Bowling Green Bowling Green 2 17 36 17 36 720 720 1% 64% 0% 36% / 100% 10% 30% 60% 100%					(111 11)														
	610 KY	Warren	Bowling Green	Bowling Green	2	17.36	17.36	720	720	1%	64%	0%	36% 🗖	100%	10%	30%	60%	100%	
611 KY Clark Winchester Cooperative Solar I 8.5 181.47 63 2,110 2,040 0% 96% 3% 0% 100% 22% 78% 0% 100%	611 KY	Clark	Winchester	Cooperative Solar I	8.5	181.47	63	2,110	2,040	0%	96%	3%	0%	100%	22%	78%	0%	100%	
612 KY Kenton Walton Walton 2 2 58.03 58.03 891 120 21% 0% 60% 19% 700% 65% 0% 35% 100%	612 KY	Kenton	Walton	Walton 2	2	58.03	58.03	891	120	21%	0%	60%	19% 🗖	100%	65%	0%	35%	100%	
613 KY Grant Crittenden Crittenden 2.7 181.7 34.1 1,035 345 22% 27% 51% 0% 7 100% 96% 4% 0% 100%	613 KY	Grant	Crittenden	Crittenden	2.7	181.7	34.1	1,035	345	22%	27%	51%	0% 🗖	100%	96%	4%	0%	100%	
617 KY Metcalfe Summer Shade Glover Creek 968.2 322.4 1,731 375 6% 25% 69% 0% 100% 83% 17% 0% 100%	617 KY	Metcalfe	Summer Shade	Glover Creek		968.2	322.4	1,731	375	6%	25%	69%	0% 🗖	100%	83%	17%	0%	100%	
618 KY Garrard Lancaster Turkey Creek 752.8 297.1 976 240 8% 36% 51% 5% 🖡 100% 73% 12% 15% 100%	618 KY	Garrard	Lancaster	Turkey Creek		752.8	297.1	976	240	8%	36%	51%	5%	100%	73%	12%	15%	100%	
Total Number of Solar Farms 6		Total Num	ber of Solar Farms	5	6														
Average 3.80 359.9 132.0 1244 640 9% 41% 39% 10% 58% 24% 18%				Average	3.80	359.9	132.0	1244	640	9%	41%	39%	10%		58%	24%	18%		
Median 2.35 181.6 60.5 1006 360 7% 32% 51% 3% 69% 14% 7%				Median	2.35	181.6	60.5	1006	360	7%	32%	51%	3%		69%	14%	7%		
High 8.50 968.2 322.4 2110 2040 22% 96% 69% 36% 96% 78% 60%				High	8.50	968.2	322.4	2110	2040	22%	96%	69%	36%		96%		60%		
Low 2.00 17.4 17.4 720 120 0% 0% 0% 0% 3% 0% 0%				Low	2.00	17.4	17.4	720	120	0%	0%	0%	0%		3%	0%	0%		

610: Bowling Green Solar, Bowling Green, KY



This project was built in 2011 and located on 17.36 acres for a 2 MW project on Scotty's Way with the adjoining uses being primarily industrial. The closest dwelling is 720 feet from the nearest panel.

	Acreage	Parcels
Residential	0.58%	10.00%
Agricultural	63.89%	30.00%
Industrial	35.53%	60.00%
Total	100.00%	100.00%

611: Cooperative Solar I, Winchester, KY



This project was built in 2017 on 63 acres of a 181.47-acre parent tract for an 8.5 MW project with the closest home at 2,040 feet from the closest solar panel.

Adjoining U	se Breakdow	n n
	Acreage	Parcels
Residential	0.15%	11.11%
Agricultural	96.46%	77.78%
Agri/Res	3.38%	11.11%
Total	100.00%	100.00%

612: Walton 2 Solar, Walton, KY



This project was built in 2017 on 58.03 acres for a 2 MW project with the closest home 120 feet from the closest panel.

Adjoining U	se Breakdow	'n
	Acreage	Parcels
Residential	20.84%	47.06%
Agri/Res	59.92%	17.65%
Commercial	19.25%	35.29%
Total	100.00%	100.00%

613: Crittenden Solar, Crittenden, KY



This project was built in late 2017 on 34.10 acres out of a 181.70-acre tract for a 2.7 MW project where the closest home is 345 feet from the closest panel.

- J		
	Acreage	Parcels
Residential	1.65%	32.08%
Agricultural	73.39%	39.62%
Agri/Res	23.05%	11.32%
Commercial	0.64%	9.43%
Industrial	0.19%	3.77%
Airport	0.93%	1.89%
Substation	0.15%	1.89%
Total	100.00%	100.00%

659: Cooperative Shelby Solar, Simpsonville, KY



This project was built in 2020 on 35 acres for a 0.5 MW project that is approved for expansion up to 4 MW.

	Acreage	Parcels
Residential	6.04%	44.44%
Agricultural	10.64%	11.11%
Agri/Res	31.69%	33.33%
Institutional	51.62%	11.11%
Total	100.00%	100.00%



660: E.W. Brown Solar, Harrodsburg, KY

This project was built in 2016 on 50 acres for a 10 MW project. This solar facility adjoins three coalfired units, which makes analysis of these nearby home sales problematic as it is impossible to extract the impact of the coal plant on the nearby homes especially given the lake frontage of the homes shown.

	Acreage	Parcels
Residential	2.77%	77.27%
Agricultural	43.92%	9.09%
Agri/Res	28.56%	9.09%
Industrial	24.75%	4.55%
Total	100.00%	100.00%

VI. Market Analysis of the Impact on Value from Solar Farms

I have researched hundreds of solar farms in numerous states to determine the impact of these facilities on the value of adjoining properties. This research has primarily been in North Carolina, but I have also conducted market impact analyses in Virginia, South Carolina, Tennessee, Texas, Oregon, Mississippi, Maryland, New York, California, Missouri, Florida, Montana, Georgia, Kentucky, and New Jersey.

I have derived a breakdown of the adjoining uses to show where solar farms are located. A summary showing the results of compiling that data over hundreds of solar farms is shown later in the Scope of Research section of this report.

I also consider whether the properties adjoining a solar farm in one location have characteristics similar to the properties abutting or adjoining the proposed site so that I can make an assessment of market impact on each proposed site. Notably, in most cases solar farms are placed in areas very similar to the site in question, which is surrounded by low density residential and agricultural uses. In my over 700 studies, I have found a striking repetition of that same typical adjoining property use mix in over 90% of the solar farms I have looked at. Matched pair results in multiple states are strikingly similar, and all indicate that solar farms – which generate very little traffic, and do not generate noise, dust or have other harmful effects – do not negatively impact the value of adjoining or abutting properties.

I have previously been asked by the Kentucky Siting Board about how the solar farms and the matched pair sets were chosen. This is the total of all the usable home and land sales adjoining the 750+ solar farms that I have looked at over the last 10 years. Most of the solar farms that I have looked at are only a few years old and have not been in place long enough for home or land sales to occur next to them for me to analyze. There is nothing unusual about this given the relatively rural locations of most of the solar farms where home and land sales occur much less frequently than they do in urban and suburban areas and the number of adjoining homes is relatively small.

I review the solar farms that I have looked at periodically to see if there are any new sales. If there is a sale I have to be sure it is not an inhouse sale or to a related family member. A great many of the rural sales that I find are from one family member to another, which makes analysis impossible given that these are not "arm's length" transactions. There are also numerous examples of sales that are "arm's length" but are still not usable due to other factors such as adjoining significant negative factors such as a coal fired plant or at a landfill or prison. I have looked at homes that require a driveway crossing a railroad spur, homes in close proximity to large industrial uses, as well as homes adjoining large state parks, or homes that are over 100 years old with multiple renovations. Such sales are not usable as they have multiple factors impacting the value that are tangled together. You can't isolate the impact of the coal fired plant, the industrial building, or the railroad unless you are comparing that sale to a similar property with similar impacts. Matched pair analysis requires that you isolate properties that only have one differential to test for, which is why the type of sales noted above is not appropriate for analysis.

After my review of all sales and elimination of the family transactions and those sales with multiple differentials, I am left with the matched pairs shown in this report to analyze. I do have additional matched pair data in other areas of the United States that were not included in this report due to being states less comparable to Kentucky than those shown. The only other sales that I have eliminated from the analysis are home sales under \$100,000, which there haven't been many such examples, but at that price range it is difficult to identify any impacts through matched pair analysis. I have not cherry picked the data to include just the sales that support one direction in value, but I have included all of them both positive and negative with a preponderance of the evidence supporting no impact to mild positive impacts.

A. Kentucky and Adjoining States Data



1. Matched Pair - Crittenden Solar, Crittenden, KY

This solar farm was built in December 2017 on a 181.70-acre tract but utilizing only 34.10 acres. This is a 2.7 MW facility with residential subdivisions to the north and south.

I have identified five home sales to the north of this solar farm on Clairborne Drive and one home sale to the south on Eagle Ridge Drive since the completion of this solar farm. The home sale on Eagle Drive is for a \$75,000 home and all of the homes along that street are similar in size and price range. According to local broker Steve Glacken with Cutler Real Estate these are the lowest price range/style home in the market. I have not analyzed that sale as it would unlikely provide significant data to other homes in the area.

Mr. Glacken is currently selling lots at the west end of Clairborne for new home construction. He indicated that the solar farm near the entrance of the development has been a complete non-factor and none of the home sales are showing any concern over the solar farm. Most of the homes are in the \$250,000 to \$280,000 price range. The vacant residential lots are being marketed for \$28,000 to \$29,000. The landscaping buffer is considered light, but the rolling terrain allows for distant views of the panels from the adjoining homes along Clairborne Drive.

The first home considered is a bit of an anomaly for this subdivision in that it is the only manufactured home that was allowed in the community. It sold on January 3, 2019. I compared that sale to three other manufactured home sales in the area making minor adjustments as shown on the next page to account for the differences. After all other factors are considered the adjustments show a -1% to +13% impact due to the adjacency of the solar farm. The best indicator is 1250 Cason, which shows a 3% impact. A 3% impact is within the normal static of real estate transactions and therefore not considered indicative of a positive impact on the property, but it strongly supports an indication of no negative impact.

Adjoini	ng Residen	tial S	Sales Afte	r Solar Fa	arm Appro	oved	l							
Parcel	Solar	Ađ	dress	Acres	Date So	1d S	Sales Price	Built	GBA	\$/GBA	BR/H	BA Park	Style	Other
	Adjoins	250 C	laiborne	0.96	1/3/201	19	\$120,000	2000	2,016	\$59.52	3/2	2 Drive	Manuf	
	Not	1250) Cason	1.40	4/18/20	18	\$95,000	1994	1,500	\$63.33	3/2	2 2-Det	Manuf	Carport
	Not	410	Reeves	1.02	11/27/20	018	\$80,000	2000	1,456	\$54.95	3/2	2 Drive	Manuf	
	Not	315	N Fork	1.09	5/4/201	19	\$107,000	1992	1,792	\$59.71	3/2	2 Drive	Manuf	
Adjustn	nents												Avg	
Solar	Addres	s	Time	Site	YB	GI	LA BR/B	A Park	Oth	er T	otal	% Diff	% Diff	Distance
Adjoins	250 Claibe	orne								\$12	0,000			373
Not	1250 Cas	son	\$2,081		\$2,850	\$26	,144	-\$5,00	0 -\$5,	000 \$11	6,075	3%		
Not	410 Reev	ves	\$249		\$0	\$24	,615			\$10	4,865	13%		
Not	315 N Fo	ork	-\$1,091		\$4,280	\$10	,700			\$12	0,889	-1%		
													5%	

I also looked at three other home sales on this street as shown below. These are stick-built homes and show a higher price range.

Parcel	Solar	Ad	dress	Acres	Date So	d Sale	s Price	Built	GBA	\$/GBA	BR/B	A Park	Style	Other
	Adjoins	300 C	laiborne	1.08	9/20/20	18 \$21	2,720	2003	1,568	\$135.66	3/3	2-Car	Ranch	Brick
	Not	460 C	laiborne	0.31	1/3/201	9 \$22	9,000	2007	1,446	\$158.37	3/2	2-Car	Ranch	Brick
	Not	2160 \$	Sherman	1.46	6/1/201	9 \$26	5,000	2005	1,735	\$152.74	3/3	2-Car	Ranch	Brick
	Not	215 L	exington	1.00	7/27/20	18 \$23	1,200	2000	1,590	\$145.41	5/4	2-Car	Ranch	Brick
Adjustr Solar	Addre		Time	Site	ΥВ	GLA	BR/B	A Park	Otl			% Diff	Avg % Diff	Distance
Adjoins	300 Clai	borne								\$213	3,000			488
Not	460 Clai	borne	-\$2,026		-\$4,580	\$15,457	\$5,00	0		\$242	2,850	-14%		
Not	2160 She	erman	-\$5,672		-\$2,650	-\$20,406	, ,			\$236	5,272	-11%		
Not	215 Lexi	ngton	\$1,072		\$3,468	-\$2,559	-\$5,00	0		\$228	3,180	-7%		
													-11%	

This set of matched pairs shows a minor negative impact for this property. I was unable to confirm the sales price or conditions of this sale. The best indication of value is based on 215 Lexington, which required the least adjusting and supports a -7% impact.

Adjoini	ng Reside	ntial	Sales Afte	r Solar Fa	arm Appr	oved								
Parcel	Solar	Ad	dress	Acres	Date So	ld S	ales Price	Built	GBA	\$/GBA	BR/B	A Park	Style	Other
	Adjoins	350 0	Claiborne	1.00	7/20/20	18	\$245,000	2002	1,688	\$145.14	3/3	2-Car	Ranch	Brick
	Not	460 0	Claiborne	0.31	1/3/20	19	\$229,000	2007	1,446	\$158.37	3/2	2-Car	Ranch	Brick
	Not	2160	Sherman	1.46	6/1/20	19	\$265,000	2005	1,735	\$152.74	3/3	2-Car	R/FBsm	t Brick
	Not	215 L	exington	1.00	7/27/20	18	\$231,200	2000	1,590	\$145.41	5/4	2-Car	Ranch	Brick
Adjustn	nents												Avg	
Solar	Addre	ess	Time	Site	YB	GL	A BR/B	A Park	Oth	ner To	tal	% Diff	% Diff	Distance
Adjoins	350 Clail	borne								\$245	5,000			720
Not	460 Clail	borne	-\$3,223		-\$5,725	\$30,	660 \$5,00	0		\$255	5,712	-4%		
Not	2160 She	rman	-\$7,057		-\$3,975	-\$5,7	743			\$248	3,225	-1%		
Not	215 Lexis	ngton	-\$136		\$2,312	\$11,4	400 -\$5,00	0		\$239	9,776	2%		
													-1%	

The following photograph shows the light landscaping buffer and the distant view of panels that was included as part of the marketing package for this property. The panels are visible somewhat on the left and somewhat through the trees in the center of the photograph. The first photograph is from the home, with the second photograph showing the view near the rear of the lot.



This set of matched pairs shows a no negative impact for this property. The range of adjusted impacts is -4% to +2%. The best indication is -1%, which as described above is within the typical market static and supports no impact on adjoining property value.

Parcel	Solar	Ad	dress	Acres	Date So	ld Sales	Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
	Adjoins	370 C	laiborne	1.06	8/22/20	19 \$273	3,000	2005	1,570	\$173.89	4/3	2-Car	2-Story	Brick
	Not	2160 \$	Sherman	1.46	6/1/20	19 \$265	5,000	2005	1,735	\$152.74	3/3	2-Car	R/FBsmt	Brick
	Not	229	90 Dry	1.53	5/2/20	19 \$239	9,400	1988	1,400	\$171.00	3/2.5	2-Car	R/FBsmt	Brick
	Not	125 L	exington	1.20	4/17/20	18 \$240	0,000	2001	1,569	\$152.96	3/3	2-Car	Split	Brick
Adjusti	nents												Avg	
Solar														
Solai	Addr	ess	Time	Site	YB	GLA	BR/B/	A Park	Oth	ier To	tal %	6 Diff	% Diff	Distance
Adjoins			Time	Site	YB	GLA	BR/B	A Park	Otł		tal % 8,000	6 Diff	% Diff	Distance 930
		borne	Time \$1,831	Site	YB \$0	GLA -\$20,161	BR/B	A Park	Otł	\$273		6 Diff 10%	% Diff	
Adjoins	370 Clai	borne erman		Site			BR/B \$2,500		Otł	\$273 \$246	8,000		% Diff	
Adjoins Not	370 Clai 2160 Sh	borne erman Dry	\$1,831	Site	\$0	-\$20,161			Otł	\$273 \$246	8,000 5,670 7,765	10%	% Diff	

This set of matched pairs shows a general positive impact for this property. The range of adjusted impacts is -5% to +10%. The best indication is +7%. I typically consider measurements of +/-5% to be within the typical variation in real estate transactions. This indication is higher than that and suggests a positive relationship.

The photograph from the listing shows panels visible between the home and the trampoline shown in the picture.



Adjoinin	g Residential Sa	les After S	olar Farm A	pproved							
Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
Adjoin	s 330 Claiborn	e 1.00	12/10/201	9 \$282,500	2003	1,768	\$159.79	3/3	2-Car	Ranch	Brick/pool
Not	895 Osborne	1.70	9/16/2019	\$249,900	2002	1,705	\$146.57	3/2	2-Car	Ranch	Brick/pool
Not	2160 Sherma	n 1.46	6/1/2019	\$265,000	2005	1,735	\$152.74	3/3	2-Car I	R/FBsmt	Brick
Not	215 Lexingto:	n 1.00	7/27/2018	\$\$231,200	2000	1,590	\$145.41	5/4	2-Car	Ranch	Brick
										Avg	
Solar	Address	Time	Site Y	B GLA	BR/BA	Park	Other	Total	% Diff	% Diff	Distance
Adjoins	330 Claiborne							\$282,50	0		665
Not	895 Osborne	\$1,790	\$1	250 \$7,387	\$5,000		\$0	\$265,32	7 6%		
Not	2160 Sherman	\$4,288	-\$2	,650 \$4,032			\$20,000	\$290,67	0 -3%		
Not	215 Lexington	\$9,761	\$3	468 \$20,706	-\$5,000		\$20,000	\$280,13	5 1%		
										1%	

This set of matched pairs shows a general positive impact for this property. The range of adjusted impacts is -3% to +6%. The best indication is +6%. I typically consider measurements of +/-5% to be within the typical variation in real estate transactions. This indication is higher than that and suggests a positive relationship. The landscaping buffer on these is considered light with a fair visibility of the panels from most of these comparables and only thin landscaping buffers separating the homes from the solar panels.

The five matched pairs considered in this analysis includes two that show no impact on value, one that shows a negative impact on value, and two that show a positive impact. The negative indication supported by one matched pair is -7% and the positive impacts are +6% and +7%. The two neutral indications show impacts of -1% and +3%. The average indicated impact is +0% when all five of these indicators are blended.

Furthermore, the comments of the local real estate broker strongly support the data that shows no negative impact on value due to the proximity to the solar farm. This is further supported by the national data that is shown on the following pages.



This 16 MW solar farm was built in 2014 on 208.89 acres with the closest home being 480 feet.

This solar farm adjoins two subdivisions with Central Hills having a mix of existing and new construction homes. Lots in this development have been marketed for \$15,000 each with discounts offered for multiple lots being used for a single home site. I spoke with the agent with Rhonda Wheeler and Becky Hearnsberger with United County Farm & Home Realty who noted that they have seen no impact on lot or home sales due to the solar farm in this community.

I have included a map below as well as data on recent sales activity on lots that adjoin the solar farm or are near the solar farm in this subdivision both before and after the announced plan for this solar farm facility. I note that using the same method I used to breakdown the adjoining uses at the subject property I show that the predominant adjoining uses are residential and agricultural, which is consistent with the location of most solar farms.

Adjoining Use Breakdown

	Acreage	Parcels
Commercial	3.40%	0.034
Residential	12.84%	79.31%
Agri/Res	10.39%	3.45%
Agricultural	73.37%	13.79%
Total	100.00%	100.00%

I have run a number of direct matched comparisons on the sales adjoining this solar farm as shown below. These direct matched pairs include some of those shown above as well as additional more recent sales in this community. In each of these I have compared the one sale adjoining the solar farm to multiple similar homes nearby that do not adjoin a solar farm to look for any potential impact from the solar farm.

Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
3	Adjoins	491 Dusty	6.86	10/28/2016	\$176,000	2009	1,801	\$97.72	3/2	2-Gar	Ranch	
	Not	820 Lake Trail	1.00	6/8/2018	\$168,000	2013	1,869	\$89.89	4/2	2-Gar	Ranch	
	Not	262 Country	1.00	1/17/2018	\$145,000	2000	1,860	\$77.96	3/2	2-Gar	Ranch	
	Not	35 April	1.15	8/16/2016	\$185,000	2016	1,980	\$93.43	3/2	2-Gar	Ranch	

			Adjoining Sales Adjusted								
Parcel	Solar	Address	Time	Site	YB	GLA	Park	Other	Total	% Diff	Distance
3	Adjoins	491 Dusty							\$176,000		480
	Not	820 Lake Trail	-\$8,324	\$12,000	-\$3,360	-\$4,890			\$163,426	7%	
	Not	262 Country	-\$5,450	\$12,000	\$6,525	-\$3,680			\$154,396	12%	
	Not	35 April	\$1,138	\$12,000	-\$6,475	-\$13,380			\$178,283	-1%	
									Average	6%	

The best matched pair is 35 April Loop, which required the least adjustment and indicates a -1% increase in value due to the solar farm adjacency.

Adjoin	Adjoining Residential Sales After Solar Farm Built											
Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
12	Adjoins	57 Cooper	1.20	2/26/2019	\$163,000	2011	1,586	\$102.77	3/2	2-Gar	1.5 Story	Pool
	Not	191 Amelia	1.00	8/3/2018	\$132,000	2005	1,534	\$86.05	3/2	Drive	Ranch	
	Not	75 April	0.85	3/17/2017	\$134,000	2012	1,588	\$84.38	3/2	2-Crprt	Ranch	
	Not	345 Woodland	1.15	12/29/2016	\$131,000	2002	1,410	\$92.91	3/2	1-Gar	Ranch	

Adjoining Sales Adjusted												
		Address	Sales Price	Time	Site	YB	GLA	Park	Other	Total	% Diff	Distance
12	Adjoins	57 Cooper	\$163,000							\$163,000		685
	Not	191 Amelia	\$132,000	\$2,303		\$3,960	\$2,685	\$10,000	\$5,000	\$155,947	4%	
	Not	75 April	\$134,000	\$8,029	\$4,000	-\$670	-\$135	\$5,000	\$5,000	\$155,224	5%	
	Not	345 Woodland	\$131,000	\$8,710		\$5,895	\$9,811		\$5,000	\$160,416	2%	
										Average	4%	

The best matched pair is 191 Amelia, which was most similar in time frame of sale and indicates a +4% increase in value due to the solar farm adjacency.

Parcel 15	Solar Adjoins Not	Address 297 Countr 185 Dusty	5	9/30/2016 8/17/2015	Sales Price \$150,000 \$126,040	2002 2009	1,596 1,463	\$/GBA \$93.98 \$86.15	BR/BA 3/2 3/2	Park 4-Gar 2-Gar	Styl Rano Rano	ch
	Not	53 Glen	1.13	3/9/2017 Adjoining S	\$126,000 ales Adjuste	1999 d	1,475	\$85.42	3/2	2-Gar	Rano	h Brick
Parcel 15	Solar Adjoins	Address 297 Country	Sales Price \$150,000	Time	Site YB	GLA	Par	k Otl		o tal 9 0,000	% Diff	Distance 650
	Not	185 Dusty	\$126,040	\$4,355	-\$4,41	1 \$9,16	7 \$10,0	000	\$145	5,150	3%	
	Not	53 Glen	\$126,000	-\$1,699	\$1,89	0 \$8,26	9 \$10,0	000	\$144	4,460	4%	
									Ave	rage	3%	

The best matched pair is 53 Glen, which was most similar in time frame of sale and required less adjustment. It indicates a +4% increase in value due to the solar farm adjacency.

The average indicated impact from these three sets of matched pairs is +4%, which suggests a mild positive relationship due to adjacency to the solar farm. The landscaping buffer for this project is mostly natural tree growth that was retained as part of the development but much of the trees separating the panels from homes are actually on the lots for the homes themselves. I therefore consider the landscaping buffer to be thin to moderate for these adjoining homes.

I have also looked at several lot sales in this subdivision as shown below.

Adjoining Residential Sales After Solar Farm Built

These are all lots within the same community and the highest prices paid are for lots one parcel off from the existing solar farm. These prices are fairly inconsistent, though they do suggest about a \$3,000 loss in the lots adjoining the solar farm. This is an atypical finding and additional details suggest there is more going on in these sales than the data crunching shows. First of all Parcel 4 was purchased by the owner of the adjoining home and therefore an atypical buyer seeking to expand a lot and the site is not being purchased for home development. Moreover, using the SiteToDoBusiness demographic tools, I found that the 1-mile radius around this development is expecting a total population increase over the next 5 years of 3 people. This lack of growing demand for lots is largely explained in that context. Furthermore, the fact that finished home sales as shown above are showing no sign of a negative impact on property value makes this data unreliable and inconsistent with the data shown in sales to an end user. I therefore place little weight on this outlier data.

						4/18/2019		4/18/2019
Parcel	Solar	Address	Acres	Date Sold	Sales Price	Adj for Time	\$/AC	Adj for Time
4	Adjoins	Shelter	2.05	10/25/2017	\$16,000	\$16,728	\$7,805	\$8,160
10	Adjoins	Carter	1.70	8/2/2018	\$14,000	\$14,306	\$8,235	\$8,415
11	Adjoins	Cooper	1.28	9/17/2018	\$12,000	\$12,215	\$9,375	\$9,543
	Not	75 Dusty	1.67	4/18/2019	\$20,000	\$20,000	\$11,976	\$11,976
	Not	Lake Trl	1.47	11/7/2018	\$13,000	\$13,177	\$8,844	\$8,964
	Not	Lake Trl	1.67	4/18/2019	\$20,000	\$20,000	\$11,976	\$11,976
		Adjoins	Per Acre	Not Adjoins	Per Acre	% DIF/Lot	% DIF/AC	
	Average	\$14,416	\$8,706	\$17,726	\$10,972	19%	21%	
	Median	\$14,306	\$8,415	\$20,000	\$11,976	28%	30%	
	High	\$16,728	\$9,543	\$20,000	\$11,976	16%	20%	
	Low	\$12,215	\$8,160	\$13,177	\$8,964	7%	9%	



3. Matched Pair - Grand Ridge Solar, Streator, IL

This solar farm has a 20 MW output and is located on a 160-acre tract. The project was built in 2012.

I have considered the recent sale of Parcel 13 shown above, which sold in October 2016 after the solar farm was built. I have compared that sale to a number of nearby residential sales not in proximity to the solar farm as shown below. Parcel 13 is 480 feet from the closest solar panel. The landscaping buffer is considered light.

Adjoining Residential Sales After Solar Farm Completed													
#	TAX ID	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA						
13	34-21-237-000	2	Oct-16	\$186,000	1997	2,328	\$79.90						
Not Adjoining Residential Sales After Solar Farm Completed													
#	TAX ID	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA						
712 Columbus Rd	32-39-134-005	1.26	Jun-16	\$166,000	1950	2,100	\$79.05						
504 N 2782 Rd	18-13-115-000	2.68	Oct-12	\$154,000	1980	2,800	\$55.00						
7720 S Dwight Rd	11-09-300-004	1.14	Nov-16	\$191,000	1919	2,772	\$68.90						
701 N 2050th Rd	26-20-105-000	1.97	Aug-13	\$200,000	2000	2,200	\$90.91						
9955 E 1600th St	04-13-200-007	1.98	May-13	\$181,858	1991	2,600	\$69.95						

			Adjustments	5
TAX ID	Date Sold	Time	Total	\$/Sf
34-21-237-000	Oct-16		\$186,000	\$79.90
32-39-134-005	Jun-16		\$166,000	\$79.05
18-13-115-000	Oct-12	\$12,320	\$166,320	\$59.40
11-09-300-004	Nov-16		\$191,000	\$68.90
26-20-105-000	Aug-13	\$12,000	\$212,000	\$96.36
04-13-200-007	May-13	\$10,911	\$192,769	\$74.14

Not Adjoin Solar Farm

	Average	Median	Average	Median
Sales Price/SF	\$79.90	\$79.90	\$75.57	\$74.14
GBA	2,328	2,328	2,494	2,600

Based on the matched pairs I find no indication of negative impact due to proximity to the solar farm.

The most similar comparable is the home on Columbus that sold for \$79.05 per square foot. This is higher than the median rate for all of the comparables. Applying that price per square foot to the subject property square footage indicates a value of \$184,000.

There is minimal landscaping separating this solar farm from nearby properties and is therefore considered light.

4. Matched Pair – Portage Solar, Portage, IN



This solar farm has a 2 MW output and is located on a portion of a 56-acre tract. The project was built in 2012.

I have considered the recent sale of Parcels 5 and 12. Parcel 5 is an undeveloped tract, while Parcel 12 is a residential home. I have compared each to a set of comparable sales to determine if there was any impact due to the adjoining solar farm. This home is 1,320 feet from the closest solar panel. The landscaping buffer is considered light.

Adjoining Residential Sal	les After Solar Farm Comple	eted					
#	TAX ID	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA
12	64-06-19-326-007.000-015	1.00	Sep-13	\$149,800	1964	1,776	\$84.35
Nearby Residential Sales	After Solar Farm Completed	1					
#	TAX ID	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA
2501 Architect Dr	64-04-32-202-004.000-021	1.31	Nov-15	\$191,500	1959	2,064	\$92.78
336 E 1050 N	64-07-09-326-003.000-005	1.07	Jan-13	\$155,000	1980	1,908	\$81.24
2572 Pryor Rd	64-05-14-204-006.000-016	1.00	Jan-16	\$216,000	1960	2,348	\$91.99
Adjoining Land Sales Afte	er Solar Farm Completed						
#	TAX ID	Acres	Date Sold	Sales Price	\$/AC		
5	64-06-19-200-003.000-015	18.70	Feb-14	\$149,600	\$8,000		
Nearby Land Sales After S	olar Farm Completed						
#	TAX ID	Acres	Date Sold	Sales Price	\$/AC		
	64-07-22-401-001.000-005	74.35	Jun-17	\$520,450	\$7,000		
	64-15-08-200-010.000-001	15.02	Jan-17	\$115,000	\$7,658		

Residential Sale Adjustment Chart

TAX ID	Date Sold	Time	Total	\$/Sf
64-06-19-326-007.000-015	Sep-13	\$8,988	\$158,788	\$89.41
64-04-32-202-004.000-021	Nov-15	\$3,830	\$195,330	\$94.64
64-07-09-326-003.000-005	Jan-13	\$9,300	\$164,300	\$86.11
64-05-14-204-006.000-016	Jan-16		\$216,000	\$91.99

2% adjustment/year Adjusted to 2017

	Adjoins Solar Fa	djoins Solar Farm		Not Adjoin Solar Farm		
	Average	Median		Average	Median	
Sales Price/SF	\$89.41	\$89.41		\$90.91	\$91.99	
GBA	1,776	1,776		2,107	2,064	

After adjusting the price per square foot is 2.88% less for the home adjoining the solar farm versus those not adjoining the solar farm. This is within the typical range of variation to be anticipated in any real estate transaction and indicates no impact on property value.

Applying the price per square foot for the 336 E 1050 N sale, which is the most similar to the Parcel 12 sale, the adjusted price at \$81.24 per square foot applied to the Parcel 12 square footage yields a value of \$144,282.

The landscaping separating this solar farm from the homes is considered light.
Land Sale Adjustment Chart

		Adjustments		
TAX ID	Date Sold	Time	Total	\$/Acre
64-06-19-200-003.000-015	Feb-14	\$8,976	\$158,576	\$8,480
64-07-22-401-001.000-005	Jun-17		\$520,450	\$7,000
64-15-08-200-010.000-001	Jan-17		\$115,000	\$7,658

2% adjustment/year Adjusted to 2017

	Adjoins Solar Fa	arm	Not Adjoi	n Solar F	arm	
	Average	Median	Av	Average M		
Sales Price/Ac	\$8,480	\$8,480	\$	7,329	\$7,329	
Acres	18.70	18.70	4	14.68	44.68	

After adjusting the price per acre is higher for the property adjoining the solar farm, but the average and median size considered is higher which suggests a slight discount. This set of matched pair supports no indication of negative impact due to the adjoining solar farm.

Alternatively, adjusting the 2017 sales back to 2014 I derive an indicated price per acre for the comparables at \$6,580 per acre to \$7,198 per acre, which I compare to the unadjusted subject property sale at \$8,000 per acre.



This solar farm has an 8.6 MW output and is located on a portion of a 134-acre tract. The project was built in 2013.

There are a number of homes on small lots located along the northern boundary and I have considered several sales of these homes. I have compared those homes to a set of nearby not adjoining home sales as shown below. The adjoining homes that sold range from 380 to 420 feet from the nearest solar panel, with an average of 400 feet. The landscaping buffer is considered light.

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Adjoining Residential Sales After Solar Farm Completed

#	TAX ID	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA
2	2013249	0.38	12/9/2015	\$140,000	2006	2,412	\$58.04
4	2013251	0.23	9/6/2017	\$160,000	2006	2,412	\$66.33
5	2013252	0.23	5/10/2017	\$147,000	2009	2,028	\$72.49
11	2013258	0.23	12/9/2015	\$131,750	2011	2,190	\$60.16
13	2013260	0.23	3/4/2015	\$127,000	2005	2,080	\$61.06
14	2013261	0.23	2/3/2014	\$120,000	2010	2,136	\$56.18

Nearby Not Adjoining Residential Sales After Solar Farm Completed

#	TAX ID	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA
5836 Sable Dr	2013277	0.14	Jun-16	\$141,000	2005	2,280	\$61.84
5928 Mosaic Pl	2013845	0.17	Sep-15	\$145,000	2007	2,280	\$63.60
5904 Minden Dr	2012912	0.16	May-16	\$130,000	2004	2,252	\$57.73
5910 Mosaic Pl	2000178	0.15	Aug-16	\$146,000	2009	2,360	\$61.86
5723 Minden Dr	2012866	0.26	Nov-16	\$139,900	2005	2,492	\$56.14

			Adjustments	
TAX ID	Date Sold	Time	Total	\$/Sf
2013249	12/9/2015	 \$5,600	\$145,600	\$60.36
2013251	9/6/2017		\$160,000	\$66.33
2013252	5/10/2017		\$147,000	\$72.49
2013258	12/9/2015	\$5,270	\$137,020	\$62.57
2013260	3/4/2015	\$5,080	\$132,080	\$63.50
2013261	2/3/2014	\$7,200	\$127,200	\$59.55
2013277	6/1/2016	\$2,820	\$143,820	\$63.08
2013845	9/1/2015	 \$5,800	\$150,800	\$66.14
2012912	5/1/2016	\$2,600	\$132,600	\$58.88
2000178	8/1/2016	\$2,920	\$148,920	\$63.10
2012866	11/1/2016	\$2,798	\$142,698	\$57.26

2% adjustment/year Adjusted to 2017

	Adjoins S	olar Farm	Not Adjoin Solar Farm			
	Average	Median	Average	Median		
Sales Price/SF	\$64.13	\$63.03	\$61.69	\$63.08		
GBA	2,210	2,163	2,333	2,280		

This set of homes provides very strong indication of no impact due to the adjacency to the solar farm and includes a large selection of homes both adjoining and not adjoining in the analysis.

The landscaping screen is considered light in relation to the homes considered above.

6. Matched Pair - Clarke County Solar, Clarke County, VA



This project is a 20 MW facility located on a 234-acre tract that was built in 2017.

I have considered a recent sale or Parcel 3. The home on this parcel is 1,230 feet from the closest panel as measured in the second map from Google Earth, which shows the solar farm under construction.

I've compared this home sale to a number of similar rural homes on similar parcels as shown below. I have used multiple sales that bracket the subject property in terms of sale date, year built, gross living area, bedrooms and bathrooms. Bracketing the parameters insures that all factors are well balanced out in the adjustments. The trend for these sales shows a positive value for the adjacency to the solar farm.

Solar	Address	Acres	Date	Sold Sal	es Price	Built	GBA	\$/GB.	A BR/I	BA Pa	ark	Style	Other
Adjoins	833 Nations Spr	5.13	1/9/2	2017 \$2	95,000	1979	1,392	\$211.9	3 3/	2 Det	Gar	Ranch U	Unfin bsm
Not	85 Ashby	5.09	9/11/	2017 \$	315,000	1982	2,333	\$135.0	2 3/	2 2	Gar	Ranch	
Not	541 Old Kitchen	5.07	9/9/2	2018 \$3	370,000	1986	3,157	\$117.2	0 4/	4 2	Gar	2 story	
Not	4174 Rockland	5.06	1/2/2	2017 \$3	800,000	1990	1,688	\$177.7	3 3/	2 3	Gar	2 story	
Not	400 Sugar Hill	1.00	6/7/2	2018 \$	80,000	1975	1,008	\$178.5	7 3/	1 D1	rive	Ranch	
djoining l	Residential Sales Af	ter Solar Fa	rm Approve	ed	Adjoinin	g Sales Ad	justed						
djoining l	Residential Sales Af	ter Solar Fa	rm Approve	ed	Adjoinin	g Sales Adj	•						
Solar	Address	Acres	Date Sold	Sales Pric	•	g Sales Ad Acres	justed YB	GLA	BR/BA	Park	Other	Total	% Diff
Solar Adjoins	Address 833 Nations Spr	Acres 5.13	Date Sold 1/9/2017	Sales Pric \$295,000	e Time		YB		BR/BA			\$295,00	0
Solar	Address	Acres 5.13	Date Sold	Sales Pric	•		•	GLA -\$38,116	BR/BA	Park -\$7,000	Other \$15,000	\$295,00	0
Solar Adjoins	Address 833 Nations Spr	Acres 5.13	Date Sold 1/9/2017	Sales Pric \$295,000	e Time	Acres	YB		BR/BA			\$295,000 \$271,969	0 9 8%
Solar Adjoins Not	Address 833 Nations Spr 85 Ashby	Acres 5.13 5.09	Date Sold 1/9/2017 9/11/2017	Sales Pric \$295,000 \$315,000	e Time -\$6,300	Acres	YB -\$6,615	-\$38,116	BR/BA	-\$7,000	\$15,000	\$295,000 \$271,969 \$279,313	0 9 8% 3 5%
Solar Adjoins Not Not	Address 833 Nations Spr 85 Ashby 541 Old Kitchen	Acres 5.13 5.09 5.07	Date Sold 1/9/2017 9/11/2017 9/9/2018	Sales Pric \$295,000 \$315,000 \$370,000	e Time -\$6,300	Acres	YB -\$6,615 -\$18,130	-\$38,116 -\$62,057	BR/BA \$10,000	-\$7,000 -\$7,000	\$15,000 \$15,000	\$295,000 \$271,969 \$279,313 \$264,118	0 9 8% 3 5% 8 10%

The landscaping screen is primarily a newly planted buffer with a row of existing trees being maintained near the northern boundary and considered light.



7. Matched Pair - Walker-Correctional Solar, Barham Road, Barhamsville, VA

This project was built in 2017 and located on 484.65 acres for a 20 MW with the closest home at 110 feet from the closest solar panel with an average distance of 500 feet.

I considered the recent sale identified on the map above as Parcel 19, which is directly across the street and based on the map shown on the following page is 250 feet from the closest panel. A limited buffering remains along the road with natural growth being encouraged, but currently the panels are visible from the road. Alex Uminski, SRA with MGMiller Valuations in Richmond VA

confirmed this sale with the buying and selling broker. The selling broker indicated that the solar farm was not a negative influence on this sale and in fact the buyer noticed the solar farm and then discovered the listing. The privacy being afforded by the solar farm was considered a benefit by the buyer. I used a matched pair analysis with a similar sale nearby as shown below and found no negative impact on the sales price. Property actually closed for more than the asking price. The landscaping buffer is considered light.

Solar	Address	Acres	Date Sold	Sales	Price	Built G	BA	\$/GBA	BR/B	A Park	Style	Othe
Adjoins	5241 Barham	2.65	10/18/201	8 \$264	,000	2007 1,	660	\$159.04	3/2	Drive	Ranch	Modul
Not	17950 New Kent	5.00	9/5/2018	\$290	,000	1987 1,	756	\$165.15	3/2.5	5 3 Gar	Ranch	
Not	9252 Ordinary	4.00	6/13/2019	\$277	,000	2001 1,	610	\$172.05	3/2	1.5-Gar	Ranch	
Not	2416 W Miller	1.04	9/24/2018	\$299	,000	1999 1,	864	\$160.41	3/2.5	5 Gar	Ranch	
	Ad	ljoining	g Sales Adju	sted								
	A	*****	Colos Adin	atad								
Solar			g Sales Adju Ac/Loc	sted YB	GLA	BR/BA	Р	ark (Other	Total	% Diff	Dist
Solar Adjoins			, ,		GLA	BR/BA	P	ark (Total \$264,000	% Diff	Dist 250
Adjoins	Address 7		Ac/Loc		GLA -\$4,75						% Diff -1%	
Adjoins Not 1	Address 7 5241 Barham 7950 New Kent		Ac/Loc	ΥВ		6 -\$5,000	-\$2	0,000 -\$	15,000	\$264,000		

I also spoke with Patrick W. McCrerey of Virginia Estates who was marketing a property that sold at 5300 Barham Road adjoining the Walker-Correctional Solar Farm. He indicated that this property was unique with a home built in 1882 and heavily renovated and updated on 16.02 acres. The solar farm was through the woods and couldn't be seen by this property and it had no impact on marketing this property. This home sold on April 26, 2017 for \$358,000. I did not set up any matched pairs for this property as it was such a unique property that any such comparison would be difficult to rely on. The broker's comments do support the assertion that the adjoining solar farm had no impact on value. The home in this case was 510 feet from the closest panel.

Average Diff

0%



This project is a 30 MW facility located on a 322.68-acre tract that was built in the fourth quarter of 2017.

I have considered the 2018 sale of Parcel 17 as shown below. From Parcel 17 the retained trees and setbacks are a light to medium landscaped buffer.

Adjoin	ing Resid	dential	Sales Afte	r Solar F	arm Approv	ed							
Parcel	Solar	Ad	dress	Acres	Date Sold	Sales Price	Built	GBA	\$/GLA	BR/BA	Park	Styl	e Other
	Adjoins	12511	Palestine	6.00	7/31/2018	\$128,400	2013	1,900	\$67.58	4/2.5	Open	Manı	ıf
	Not	15698	Concord	3.92	7/31/2018	\$150,000	2010	2,310	\$64.94	4/2	Open	Manı	lf Fence
	Not	23209	Sussex	1.03	7/7/2020	\$95,000	2005	1,675	\$56.72	3/2	Det Crpt	Manı	ıf
	Not	6494	Rocky Br	4.07	11/8/2018	\$100,000	2004	1,405	\$71.17	3/2	Open	Manı	ıf
Adjoin	ning Sal	les Adj	usted								Av	g	
Tin	ie S	Site	YB	GLA	BR/BA	A Park	Othe	r 1	fotal	% Diff	f % D	iff	Distance
								\$1	28,400				1425
\$C)		\$2,250	-\$21,29	99 \$5,000)		\$1	35,951	-6%			
d r (- co di 1	2 000	#0.000	¢10.00		¢1 E00		¢1	22,849	4%			
-\$5,6	560 \$1	3,000	\$3,800	\$10,20	9 \$5,000) \$1,500		φı	22,049	470			
-\$5,6 -\$84		.3,000	\$3,800 \$4,500	\$10,20 \$28,18		φ1,500			22,849 31,842	-3%			



9. Matched Pair - Spotsylvania Solar, Paytes, VA

This solar farm is being built in four phases with the area known as Site C having completed construction in November 2020 after the entire project was approved in April 2019. Site C, also known as Pleinmont 1 Solar, includes 99.6 MW located in the southeast corner of the project and shown on the maps above with adjoining parcels 111 through 144. The entire Spotsylvania project totals 617 MW on 3500 acres out of a parent tract assemblage of 6,412 acres.

I have identified three adjoining home sales that occurred during construction and development of the site in 2020.

The first is located on the north side of Site A on Orange Plank Road. The second is located on Nottoway Lane just north of Caparthin Road on the south side of Site A and east of Site C. The third is located on Post Oak Road for a home that backs up to Site C that sold in September 2020 near the completion of construction for Site C.

Spotsylvania Solar Farm

Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
Adjoins	12901 Orng Plnk	5.20	8/27/2020	\$319,900	1984	1,714	\$186.64	3/2	Drive	1.5	Un Bsmt
Not	8353 Gold Dale	3.00	1/27/2021	\$415,000	2004	2,064	\$201.07	3/2	3 Gar	Ranch	
Not	6488 Southfork	7.26	9/9/2020	\$375,000	2017	1,680	\$223.21	3/2	2 Gar	1.5	Barn/Patio
Not	12717 Flintlock	0.47	12/2/2020	\$290,000	1990	1,592	\$182.16	3/2.5	Det Gar	Ranch	

Adjoining	Sales	Adjusted	
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Address	Time	Ac/Loc	YB	GLA	BR/BA	Park	Other	Total	% Diff	Dist
12901 Orng Plnk								\$319,900		1270
8353 Gold Dale	-\$5,219	\$20,000	-\$41,500	-\$56,298		-\$20,000		\$311,983	2%	
6488 Southfork	-\$401	-\$20,000	-\$61,875	\$6,071		-\$15,000		\$283,796	11%	
12717 Flintlock	-\$2,312	\$40,000	-\$8,700	\$17,779	-\$5,000	-\$5,000		\$326,767	-2%	

Average Diff 4%

I contacted Keith Snider to confirm this sale. This is considered to have a medium landscaping screen.

Solar	Address	Acres	Date Sold	Sales Pric	e Built	GBA	\$/GBA	BR/BA	Park	Style	Other
Adjoins	9641 Nottoway	11.00	5/12/2020	\$449,900	2004	3,186	\$141.21	4/2.5	Garage	2-Story	Un Bsmt
Not	26123 Lafayette	1.00	8/3/2020	\$390,000	2006	3,142	\$124.12	3/3.5 (Gar/DtG :	2-Story	
Not	11626 Forest	5.00	8/10/2020	\$489,900	2017	3,350	\$146.24	4/3.5	2 Gar	2-Story	
Not	10304 Pny Brnch	6.00	7/27/2020	\$485,000	1998	3,076	\$157.67	4/4 2	Gar/Dt2	Ranch	Fn Bsmt
Addr 9641 No	ottoway	e	Ac/Loc			BR/BA	Park	Other	Total \$449,900		Dist 1950
26123 La	afayette -\$2,6	61	\$45,000	-\$3,900 \$	4,369 -	-\$10,000	-\$5,000		\$417,809	9 7%	
11626 I	Forest -\$3,6	24		-\$31,844 -\$	19,187		-\$5,000		\$430,240	б 4%	
10304 Pn	y Brnch -\$3,0	30		\$14,550 \$	13,875 -	\$15,000	-\$15,000	-\$10,000	\$470,39	б -5%	

Average Diff 2%

I contacted Annette Roberts with ReMax about this transaction. This is considered to have a medium landscaping screen.

Solar	Addr		Acres						\$/GBA		Park	Style	Other
Adjoins	13353 Po	ost Oak	5.20	9/21/2020	\$300,0	. 000	1992	2,400	\$125.00	4/3	Drive	2-Story	Fn Bsmt
Not	9609 Log	gan Hgt	5.86	7/4/2019	\$330,0	00 2	2004	2,352	\$140.31	3/2	2Gar	2-Story	
Not	12810 Cat	tharpian	6.18	1/30/2020	\$280,0	00 2	2008	2,240	\$125.00	4/2.5	Drive	2-Story Bs	smt/Nd Pnt
Not	10725 R	brt Lee	5.01	10/26/2020	\$295,0	000	1995	2,166	\$136.20	4/3	Gar	2-Story	Fn Bsmt
Adjoinin	ng Sales A	Adjusted	L										
Add	ress	Tim	e	Ac/Loc	YB	GLA	A 1	BR/BA	Park	Other	Total	% Diff	Dist
13353 P	ost Oak										\$300,00	0	1171
9609 Lo	gan Hgt	\$12,0	70		-\$19,800	\$5,38	88		-\$15,000	\$15,000	\$327,65	8 -9%	
12810 Ca	tharpian	\$5,40	08		-\$22,400	\$16,0	000	\$5,000		\$15,000	\$299,00	8 0%	
10725 R	brt Lee	-\$84	.9		-\$4,425	\$25,4	196		-\$10,000)	\$305,22	2 -2%	
										Ave	erage Di	ff -4%	
.		P			1					m 1 ·			

I contacted Joy Pearson with CTI Real Estate about this transaction. This is considered to have a heavy landscaping screen.

All three of these homes are well set back from the solar panels at distances over 1,000 feet and are well screened from the project. All three show no indication of any impact on property value.

Conclusion

The solar farm matched pairs shown above have similar characteristics to each other in terms of population, but with several outliers showing solar farms in far more urban areas. The median income for the population within 1 mile of a solar farm among this subset of matched pairs is \$65,695 with a median housing unit value of \$186,463. Most of the comparables are under \$300,000 in the home price, with \$483,333 being the high end of the set, though I have matched pairs in other states over \$1,000,000 in price adjoining large solar farms. The predominate adjoining uses are residential and agricultural. These figures are in line with the larger set of solar farms that I have looked at with the predominant adjoining uses being residential and agricultural and similar to the solar farm breakdown shown for Kentucky and adjoining states as well as the proposed subject property.

Based on the similarity of adjoining uses and demographic data between these sites and the subject property, I consider it reasonable to compare these sites to the subject property.

Mat	ched Pair Sun	nmary					Adj. Us	ses By	Acreage		1 mile	Radius (2	010-2020 Data)
						Торо						Med.	Avg. Housing	
	Name	City	State	Acres	MW	Shift	Res	Ag	Ag/Res	Com/Ind	Popl.	Income	Unit	Veg. Buffer
1	Crittenden	Crittenden	KY	34	2.70	40	22%	51%	27%	0%	1,419	\$60,198	\$178,643	Light
2	Mulberry	Selmer	TN	160	5.00	60	13%	73%	10%	3%	467	\$40,936	\$171,746	Lt to Med
3	Grand Ridge	Streator	IL	160	20.00	1	8%	87%	5%	0%	96	\$70,158	\$187,037	Light
4	Portage	Portage	IN	56	2.00	0	19%	81%	0%	0%	6,642	\$65,695	\$186,463	Light
5	Dominion	Indianapolis	IN	134	8.60	20	3%	97%	0%	0%	3,774	\$61,115	\$167,515	Light
6	Walker	Barhamsville	VA	485	20.00	N/A	12%	68%	20%	0%	203	\$80,773	\$320,076	Light
7	Clarke Cnty	White Post	VA	234	20.00	70	14%	39%	46%	1%	578	\$81,022	\$374,453	Light
8	Sappony	Stony Crk	VA	322	20.00	N/A	2%	98%	0%	0%	74	\$51,410	\$155,208	Medium
9	Spotyslvania	Paytes	VA	3,500	617.00	160	37%	52%	11%	0%	74	\$120,861	\$483,333	Med to Hvy
	Average			565	79.48	50	14%	72%	13%	0%	1,481	\$70,241	\$247,164	
	Median			160	20.00	40	13%	73%	10%	0%	467	\$65,695	\$186,463	
	High			3,500	617.00	160	37%	98%	46%	3%	6,642	\$120,861	\$483,333	
	Low			34	2.00	0	2%	39%	0%	0%	74	\$40,936	\$155,208	

Proposed Solar Farm at a 1-mile radius has 73 people with an average income of \$56,014 and an average home price of \$201,190.

Proposed Solar Farm at a 3-mile radius has 756 people with an average income of \$56,765 and an average home price of \$256,385.

These are very similar to the demographics shown around these comparable solar farms.

On the following page is a summary of the matched pairs for all of the solar farms noted above. They show a pattern of results from -7% to +7%. As can be seen in the chart of those results below, most of the data points are between -2% and +5%. This variability is common with real estate and consistent with market "static." I therefore conclude that these results strongly support an indication of no impact on property value due to the adjacent solar farm.



Residential Dwelling Matched Pairs Adjoining Solar Farms

Residential Dwein	ing matcheu r	ans Aujo	Jining C	Approx	15			Adj. Sale		Veg.
Pair Solar Farm	City	State	мw		Tax ID/Address	Date	Sale Price	-	% Diff	Buffer
1 Crittenden	Crittenden	KY	2.7	373	250 Claiborne	Jan-19	\$120,000	1 1100	/0 2111	Light
	onteenden		2.7	0,0	315 N Fork	May-19	\$107,000	\$120,889	-1%	
2 Crittenden	Crittenden	кү	2.7	488	300 Claiborne	Sep-18	\$213,000	Ş120,005	1/0	Light
2 chittenden	cintenden	K I	2.7	400		Dec-17		¢220 100	-7%	Light
3 Crittenden	Crittondon	KY	2 7	720	1795 Bay Valley		\$231,200	\$228,180	- / 70	Linht
3 Crittenden	Crittenden	Κĭ	2.7	720	350 Claiborne	Jul-18	\$245,000	6240 225	40/	Light
		101		000	2160 Sherman	Jun-19	\$265,000	\$248,225	-1%	
4 Crittenden	Crittenden	KY	2.7	930	370 Claiborne	Aug-19	\$273,000			Light
5 Marthamma	0 - 1	TIM	5	400	125 Lexington	Apr-18	\$240,000	\$254,751	7%	T :
5 Mulberry	Selmer	TN	э	400	0900A011 099CA043	Jul-14	\$130,000	¢126.000		Light
6 Mailhours	Colmon	TN	5	400		Feb-15	\$148,900	\$136,988	-5%	Linha
6 Mulberry	Selmer	TN	5	400	099CA002 0990NA040	Jul-15 Mar-15	\$130,000	\$101.000	7%	Light
7 Mulberry	Selmer	TN	5	480	491 Dusty	Oct-16	\$120,000 \$176,000	\$121,200		Light
7 Mulberry	Senner	1 11	5	400	35 April	Aug-16	\$170,000	\$178,283	-1%	Ligin
Q Maalloo mura	Selmer	TN	5	650	297 Country	0		\$176,265		Medium
8 Mulberry	Seimer	IN	5	050	53 Glen	Sep-16 Mar-17	\$150,000	\$144,460	4%	Medium
9 Mulberry	Selmer	TN	5	685	57 Cooper	Feb-19	\$126,000 \$163,000	\$144,400	470	Medium
9 Mulberry	Senner	1 11	5	085	191 Amelia	Aug-18	\$132,000	\$155,947	4%	Mearum
10 Grand Ridge	Streator	IL	20	480	1497 E 21st	Oct-16	\$132,000	\$155,947		Light
10 Granu Ruge	Sucator	1L	20	+00	712 Columbus	Jun-16	\$166,000	\$184,000	1%	Ligin
11 Dominion	Indianapolis	IN	8.6	400	2013249 (Tax ID)	Dec-15	\$140,000	\$104,000		Light
	indianapons	110	0.0	+00	5723 Minden	Nov-16	\$139,900	\$132,700	5%	Ligin
12 Dominion	Indianapolis	IN	8.6	400	2013251 (Tax ID)	Sep-17	\$160,000	φ102,700		Light
12 Dominion	indianapons	114	0.0	400	5910 Mosaic	Aug-16	\$146,000	\$152,190	5%	Light
13 Dominion	Indianapolis	IN	8.6	400	2013252 (Tax ID)	May-17	\$147,000	\$102,190		Light
10 200000	maianapono		0.0		5836 Sable	Jun-16	\$141,000	\$136,165	7%	2.9
14 Dominion	Indianapolis	IN	8.6	400	2013258 (Tax ID)	Dec-15	\$131,750	\$100,100		Light
11200000	indianapono		0.0		5904 Minden	May-16	\$130,000	\$134,068	-2%	219111
15 Dominion	Indianapolis	IN	8.6	400	2013260 (Tax ID)	Mar-15	\$127,000	+,		Light
					5904 Minden	May-16	\$130,000	\$128,957	-2%	0
16 Dominion	Indianapolis	IN	8.6	400	2013261 (Tax ID)	Feb-14	\$120,000			Light
					5904 Minden	May-16	\$130,000	\$121,930	-2%	0
17 Clarke Cnty	White Post	VA	20	1230	833 Nations Spr	Jan-17	\$295,000	. ,		Light
,					6801 Middle	Dec-17	\$249,999	\$296,157	0%	0
18 Walker	Barhamsville	VA	20	250	5241 Barham	Oct-18	\$264,000			Light
					9252 Ordinary	Jun-19	\$277,000	\$246,581	7%	0
19 Clarke Cnty	White Post	VA	20	1230	833 Nations Spr	Aug-19	\$385,000			Light
					2393 Old Chapel	Aug-20	\$330,000	\$389,286	-1%	0
20 Sappony	Stony Creek	VA	20	1425	12511 Palestine	Jul-18	\$128,400			Medium
					6494 Rocky Branch	Nov-18	\$100,000	\$131,842	-3%	
21 Spotsylvania	Paytes	VA	617	1270	12901 Orange Plnk	Aug-20	\$319,900			Medium
					12717 Flintlock	Dec-20	\$290,000	\$326,767	-2%	
22 Spotsylvania	Paytes	VA	617	1950	9641 Nottoway	May-20	\$449,900			Medium
					11626 Forest	Aug-20	\$489,900	\$430,246	4%	
23 Spotsylvania	Paytes	VA	617	1171	13353 Post Oak	Sep-20	\$300,000			Heavy
					12810 Catharpin	Jan-20	\$280,000	\$299,008	0%	

	Avg.		Indicated
МW	Distance		Impact
106.72	738	Average	1%
8.60	480	Median	0%
617.00	1,950	High	7%
5.00	250	Low	-5%

I have further broken down these results based on the MWs, Landscaping, and distance from panel to show the following range of findings for these different categories.

This breakdown shows no homes between 100-200 homes. Solar farms up to 75 MW show homes between 201 and 500 feet with no impact on value. Most of the findings are for homes between 201 and 500 feet.

Light landscaping screens are showing no impact on value at any distances, though solar farms over 75.1 MW only show Medium and Heavy landscaping screens in the 3 examples identified. Light landscaping is 20-foot wide or less landscaping and is often a planted mix by the solar farm developer. Medium landscaping is 20 to 100 feet of landscaped buffer and is generally a retained existing wooded area. Heavy landscaping is over 100 feet of wooded buffer.

MW Range									
4.4 to 10 Landscaping	Light	Light	Light	Medium	Medium	Medium	Heavy	Heavy	Heavy
Distance	100-200	201-500	500+	100-200	201-500	500+	100-200	201-500	500+
#	0	11	2	0	0	2	0	0	0
	-		_	-	-	_	-	-	-
Average	N/A	1%	N/A	N/A	N/A	4%	N/A	N/A	N/A
Median	N/A	-1%	N/A	N/A	N/A	4%	N/A	N/A	N/A
High	N/A	7%	N/A	N/A	N/A	4%	N/A	N/A	N/A
Low	N/A	-5%	N/A	N/A	N/A	4%	N/A	N/A	N/A
10.1 to 30									
Landscaping	Light	Light	Light	Medium	Medium	Medium	Heavy	Heavy	Heavy
Distance	100-200	201-500	500+	100-200	201-500	500+	100-200	201-500	500+
#	0	2	2	0	0	1	0	0	0
Average	N/A	4%	-1%	N/A	N/A	-3%	N/A	N/A	N/A
Median	N/A	4%	-1%	N/A	N/A	-3%	N/A	N/A	N/A
High	N/A	7%	0%	N/A	N/A	-3%	N/A	N/A	N/A
Low	N/A	1%	-1%	N/A	N/A	-3%	N/A	N/A	N/A
30.1 to 75									
Landscaping	Light	Light	Light	Medium	Medium	Medium	Heavy	Heavy	Heavy
Distance	100-200	201-500	500+	100-200	201-500	500+	100-200	201-500	500+
#	0	0	0	0	0	0	0	0	0
Average	N/A	1%	0%	N/A	N/A	0%	N/A	N/A	N/A
Median	N/A	1%	0%	N/A	N/A	0%	N/A	N/A	N/A
High	N/A	2%	2%	N/A	N/A	9%	N/A	N/A	N/A
Low	N/A	1%	-2%	N/A	N/A	-7%	N/A	N/A	N/A
75.1+									
Landscaping	Light	Light	Light	Medium	Medium	Medium	Heavy	Heavy	Heavy
Distance	100-200	201-500	500+	100-200	201-500	500+	100-200	201-500	500+
#	0	0	0	0	0	2	0	0	1
Average	N/A	N/A	N/A	N/A	N/A	1%	N/A	N/A	0%
Median	N/A	N/A	N/A	N/A	N/A	1%	N/A	N/A	0%
High	N/A	N/A	N/A	N/A	N/A	4%	N/A	N/A	0%
Low	N/A	N/A	N/A	N/A	N/A	-2%	N/A	N/A	0%

B. Southeastern USA Data – Over 5 MW

1. Matched Pair - AM Best Solar Farm, Goldsboro, NC

This 5 MW solar farm adjoins Spring Garden Subdivision which had new homes and lots available for new construction during the approval and construction of the solar farm. The recent home sales have ranged from \$200,000 to \$250,000. This subdivision sold out the last homes in late 2014.

The solar farm is clearly visible particularly along the north end of this street where there is only a thin line of trees separating the solar farm from the single-family homes.

Homes backing up to the solar farm are selling at the same price for the same floor plan as the homes that do not back up to the solar farm in this subdivision. According to the builder, the solar farm has been a complete non-factor. Not only do the sales show no difference in the price paid for the various homes adjoining the solar farm versus not adjoining the solar farm, but there are actually more recent sales along the solar farm than not. There is no impact on the sellout rate, or time to sell for the homes adjoining the solar farm.

I spoke with a number of owners who adjoin the solar farm and none of them expressed any concern over the solar farm impacting their property value.

The data presented on the following page shows multiple homes that have sold in 2013 and 2014

adjoining the solar farm at prices similar to those not along the solar farm. These series of sales indicate that the solar farm has no impact on the adjoining residential use.

The homes that were marketed at Spring Garden are shown below.



The homes adjoining the solar farm are considered to have a light landscaping screen as it is a narrow row of existing pine trees supplemented with evergreen plantings.



Matched Pairs

As of Date: 9/3/2014

Adjoining Sales After Solar Farm Completed

TAX ID	Owner	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	Style
3600195570	Helm	0.76	Sep-13	\$250,000	2013	3,292	\$75.94	2 Story
3600195361	Leak	1.49	Sep-13	\$260,000	2013	3,652	\$71.19	2 Story
3600199891	McBrayer	2.24	Jul-14	\$250,000	2014	3,292	\$75.94	2 Story
3600198632	Foresman	1.13	Aug-14	\$253,000	2014	3,400	\$74.41	2 Story
3600196656	Hinson	0.75	Dec-13	\$255,000	2013	3,453	\$73.85	2 Story
	Average Median	1.27 1.13		\$253,600 \$253,000	2013.4 2013	3,418 3,400	\$74.27 \$74.41	

Adjoining Sales After Solar Farm Announced

TAX ID	Owner	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA Style
0	Feddersen	1.56	Feb-13	\$247,000	2012	3,427	\$72.07 Ranch
0	Gentry	1.42	Apr-13	\$245,000	2013	3,400	\$72.06 2 Story
	Average	1.49		\$246,000	2012.5	3,414	\$72.07
	Median	1.49		\$246,000	2012.5	3,414	\$72.07

Adjoining Sales Before Solar Farm Announced

TAX ID	Owner	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA Style
3600183905	Carter	1.57	Dec-12	\$240,000	2012	3,347	\$71.71 1.5 Story
3600193097	Kelly	1.61	Sep-12	\$198,000	2012	2,532	\$78.20 2 Story
3600194189	Hadwan	1.55	Nov-12	\$240,000	2012	3,433	\$69.91 1.5 Story
	Average	1.59		\$219,000	2012	2,940	\$74.95
	Median	1.59		\$219,000	2012	2,940	\$74.95

Nearby Sales After Solar Farm Completed

TAX ID	Owner	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	Style
3600193710	Barnes	1.12	Oct-13	\$248,000	2013	3,400	\$72.94	2 Story
3601105180	Nackley	0.95	Dec-13	\$253,000	2013	3,400	\$74.41	2 Story
3600192528	Mattheis	1.12	Oct-13	\$238,000	2013	3,194	\$74.51	2 Story
3600198928	Beckman	0.93	Mar-14	\$250,000	2014	3,292	\$75.94	2 Story
3600196965	Hough	0.81	Jun-14	\$224,000	2014	2,434	\$92.03	2 Story
3600193914	Preskitt	0.67	Jun-14	\$242,000	2014	2,825	\$85.66	2 Story
3600194813	Bordner	0.91	Apr-14	\$258,000	2014	3,511	\$73.48	2 Story
3601104147	Shaffer	0.73	Apr-14	\$255,000	2014	3,453	\$73.85	2 Story
	Average	0.91		\$246,000	2013.625	3,189	\$77.85	
	Median	0.92		\$249,000	2014	3,346	\$74.46	

Nearby Sales Before Solar Farm Announced

TAX ID	Owner	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA Style
3600191437	Thomas	1.12	Sep-12	\$225,000	2012	3,276	\$68.68 2 Story
3600087968	Lilley	1.15	Jan-13	\$238,000	2012	3,421	\$69.57 1.5 Story
3600087654	Burke	1.26	Sep-12	\$240,000	2012	3,543	\$67.74 2 Story
3600088796	Hobbs	0.73	Sep-12	\$228,000	2012	3,254	\$70.07 2 Story
	Average	1.07		\$232,750	2012	3,374	\$69.01
	Median	1.14		\$233,000	2012	3,349	\$69.13

Matched Pair Su	ımmary			
	Adjoins Sola	r Farm	Nearby Solar	Farm
	Average	Median	Average	Median
Sales Price	\$253,600	\$253,000	\$246,000	\$249,000
Year Built	2013	2013	2014	2014
Size	3,418	3,400	3,189	3,346
Price/SF	\$74.27	\$74.41	\$77.85	\$74.46
Percentage Diff	erences			
Median Price	-2%	6		
Median Size	-2%	6		
Median Price/SF	0%	6		

I note that 2308 Granville Drive sold again in November 2015 for \$267,500, or \$7,500 more than when it was purchased new from the builder two years earlier (Tax ID 3600195361, Owner: Leak). The neighborhood is clearly showing appreciation for homes adjoining the solar farm.

The Median Price is the best indicator to follow in any analysis as it avoids outlying samples that would otherwise skew the results. The median sizes and median prices are all consistent throughout the sales both before and after the solar farm whether you look at sites adjoining or nearby to the solar farm. The average size for the homes nearby the solar farm shows a smaller building size and a higher price per square foot. This reflects a common occurrence in real estate where the price per square foot goes up as the size goes down. So even comparing averages the indication is for no impact, but I rely on the median rates as the most reliable indication for any such analysis.

I have also considered four more recent resales of homes in this community as shown on the following page. These comparable sales adjoin the solar farm at distances ranging from 315 to 400 feet. The matched pairs show a range from -9% to +6%. The range of the average difference is -2% to +1% with an average of 0% and a median of +0.5%. These comparable sales support a finding of no impact on property value.

Adjoining Residential Sales After Solar Farm Approved Parcel Solar Address Acres Date Sold S

cel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other	Distance
	Adjoins	103 Granville Pl	1.42	7/27/2018	\$265,000	2013	3,292	\$80.50	4/3.5	2-Car	2-Story		385
	Not	2219 Granville	1.15	1/8/2018	\$260,000	2012	3,292	\$78.98	4/3.5	2-Car	2-Story		
	Not	634 Friendly	0.96	7/31/2019	\$267,000	2018	3,053	\$87.45	4/4.5	2-Car	2-Story		
	Not	2403 Granville	0.69	4/23/2019	\$265,000	2014	2,816	\$94.11	5/3.5	2-Car	2-Story		
												Avg	
	Solar	Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	% Diff	
	Adjoins	103 Granville Pl								\$265,000		-2%	
	Not	2219 Granville	\$4,382		\$1,300	\$0				\$265,682	0%		
	Not	634 Friendly	-\$8,303		-\$6,675	\$16,721	-\$10,000			\$258,744	2%		
	Not	2403 Granville	-\$6,029		-\$1,325	\$31,356				\$289,001	-9%		

Adjoining Residential Sales After Solar Farm Approved

Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other	Distance
	Adjoins	104 Erin	2.24	6/19/2017	\$280,000	2014	3,549	\$78.90	5/3.5	2-Car	2-Story		315
	Not	2219 Granville	1.15	1/8/2018	\$260,000	2012	3,292	\$78.98	4/3.5	2-Car	2-Story		
	Not	634 Friendly	0.96	7/31/2019	\$267,000	2018	3,053	\$87.45	4/4.5	2-Car	2-Story		
	Not	2403 Granville	0.69	4/23/2019	\$265,000	2014	2,816	\$94.11	5/3.5	2-Car	2-Story		
	Solar	Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	Avg % Diff	

Adjoins	104 Erin				\$280,000		0%
Not	2219 Granville	-\$4,448	\$2,600	\$16,238	\$274,390	2%	
Not	634 Friendly	-\$17,370	-\$5,340	\$34,702 -\$10,000	\$268,992	4%	
Not	2403 Granville	-\$15,029	\$0	\$48,285	\$298,256	-7%	

Adjoining Residential Sales After Solar Farm Approved

Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other	Distance
	Adjoins	2312 Granville	0.75	5/1/2018	\$284,900	2013	3,453	\$82.51	5/3.5	2-Car	2-Story		400
	Not	2219 Granville	1.15	1/8/2018	\$260,000	2012	3,292	\$78.98	4/3.5	2-Car	2-Story		
	Not	634 Friendly	0.96	7/31/2019	\$267,000	2018	3,053	\$87.45	4/4.5	2-Car	2-Story		
	Not	2403 Granville	0.69	4/23/2019	\$265,000	2014	2,816	\$94.11	5/3.5	2-Car	2-Story		
												Avg	
	Solar	Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	% Diff	
	Adjoins	2312 Granville								\$284,900		1%	
	Not	2219 Granville	\$2,476		\$1,300	\$10,173				\$273,948	4%		
	Not	634 Friendly	-\$10,260		-\$6,675	\$27,986	-\$10,000			\$268,051	6%		
	Not	2403 Granville	-\$7,972		-\$1,325	\$47,956				\$303,659	-7%		

Adjoining Residential Sales After Solar Farm Approved

Parcel	Solar Adjoins	Address 2310 Granville	Acres 0.76	Date Sold 5/14/2019	Sales Price \$280,000	Built 2013	GBA 3,292	\$/GBA \$85.05	BR/BA 5/3.5	Park 2-Car	Style 2-Story	Other	Distance 400
	Not	2219 Granville	1.15	1/8/2018	\$260,000	2012	3,292	\$78.98	4/3.5	2-Car	2-Story		
	Not	634 Friendly	0.96	7/31/2019	\$267,000	2018	3,053	\$87.45	4/4.5	2-Car	2-Story		
	Not	2403 Granville	0.69	4/23/2019	\$265,000	2014	2,816	\$94.11	5/3.5	2-Car	2-Story		
												Avg	
	Solar	Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	% Diff	
	Adjoins	2310 Granville								\$280,000		1%	
	Not	2219 Granville	\$10,758		\$1,300	\$0				\$272,058	3%		
	Not	634 Friendly	-\$1,755		-\$6,675	\$16,721	-\$10,000			\$265,291	5%		
	Not	2403 Granville	\$469		-\$1,325	\$31,356				\$295,500	-6%		

I have also considered the original sales prices in this subdivision relative to the recent resale values as shown in the chart below. This rate of appreciation is right at 2.5% over the last 6 years. Zillow indicates that the average home value within the 27530 zip code as of January 2014 was \$101,300 and as of January 2020 that average is \$118,100. This indicates an average increase in the market of 2.37%. I conclude that the appreciation of the homes adjoining the solar farm are not impacted by the presence of the solar farm based on this data.

	Initial Sale		Second Sale	!	Year			%	Apprec.
Address	Date	Price	Date	Price	Diff		Apprec.	Apprec.	%/Year
1 103 Granville Pl	4/1/2013	\$245,000	7/27/2018	\$265,000		5.32	\$20,000	8.16%	1.53%
2 105 Erin	7/1/2014	\$250,000	6/19/2017	\$280,000		2.97	\$30,000	12.00%	4.04%
3 2312 Granville	12/1/2013	\$255,000	5/1/2015	\$262,000		1.41	\$7,000	2.75%	1.94%
4 2312 Granville	5/1/2015	\$262,000	5/1/2018	\$284,900		3.00	\$22,900	8.74%	2.91%
5 2310 Granville	8/1/2013	\$250,000	5/14/2019	\$280,000		5.79	\$30,000	12.00%	2.07%
6 2308 Granville	9/1/2013	\$260,000	11/12/2015	\$267,500		2.20	\$7,500	2.88%	1.31%
7 2304 Granville	9/1/2012	\$198,000	6/1/2017	\$225,000		4.75	\$27,000	13.64%	2.87%
8 102 Erin	8/1/2014	\$253,000	11/1/2016	\$270,000		2.25	\$17,000	6.72%	2.98%

Average 2.46% Median 2.47%



This 16 MW solar farm was built in 2014 on 208.89 acres with the closest home being 480 feet.

This solar farm adjoins two subdivisions with Central Hills having a mix of existing and new construction homes. Lots in this development have been marketed for \$15,000 each with discounts offered for multiple lots being used for a single home site. I spoke with the agent with Rhonda Wheeler and Becky Hearnsberger with United County Farm & Home Realty who noted that they have seen no impact on lot or home sales due to the solar farm in this community.

I have included a map below as well as data on recent sales activity on lots that adjoin the solar farm or are near the solar farm in this subdivision both before and after the announced plan for this solar farm facility. I note that using the same method I used to breakdown the adjoining uses at the subject property I show that the predominant adjoining uses are residential and agricultural, which is consistent with the location of most solar farms.

Adjoining Use Breakdown

	Acreage	Parcels
Commercial	3.40%	0.034
Residential	12.84%	79.31%
Agri/Res	10.39%	3.45%
Agricultural	73.37%	13.79%
Total	100.00%	100.00%

I have run a number of direct matched comparisons on the sales adjoining this solar farm as shown below. These direct matched pairs include some of those shown above as well as additional more recent sales in this community. In each of these I have compared the one sale adjoining the solar farm to multiple similar homes nearby that do not adjoin a solar farm to look for any potential impact from the solar farm.

Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
3	Adjoins	491 Dusty	6.86	10/28/2016	\$176,000	2009	1,801	\$97.72	3/2	2-Gar	Ranch	
	Not	820 Lake Trail	1.00	6/8/2018	\$168,000	2013	1,869	\$89.89	4/2	2-Gar	Ranch	
	Not	262 Country	1.00	1/17/2018	\$145,000	2000	1,860	\$77.96	3/2	2-Gar	Ranch	
	Not	35 April	1.15	8/16/2016	\$185,000	2016	1,980	\$93.43	3/2	2-Gar	Ranch	

			Adjoining Sales Adjusted								
Parcel	Solar	Address	Time	Site	YB	GLA	Park	Other	Total	% Diff	Distance
3	Adjoins	491 Dusty							\$176,000		480
	Not	820 Lake Trail	-\$8,324	\$12,000	-\$3,360	-\$4,890			\$163,426	7%	
	Not	262 Country	-\$5,450	\$12,000	\$6,525	-\$3,680			\$154,396	12%	
	Not	35 April	\$1,138	\$12,000	-\$6,475	-\$13,380			\$178,283	-1%	
									Average	6%	

The best matched pair is 35 April Loop, which required the least adjustment and indicates a -1% increase in value due to the solar farm adjacency.

Adjoin	Adjoining Residential Sales After Solar Farm Built													
Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other		
12	Adjoins	57 Cooper	1.20	2/26/2019	\$163,000	2011	1,586	\$102.77	3/2	2-Gar	1.5 Story	Pool		
	Not	191 Amelia	1.00	8/3/2018	\$132,000	2005	1,534	\$86.05	3/2	Drive	Ranch			
	Not	75 April	0.85	3/17/2017	\$134,000	2012	1,588	\$84.38	3/2	2-Crprt	Ranch			
	Not	345 Woodland	1.15	12/29/2016	\$131,000	2002	1,410	\$92.91	3/2	1-Gar	Ranch			

Adjoining Sales Adjusted												
Parcel		Address	Sales Price	Time	Site	YB	GLA	Park	Other	Total	% Diff	Distance
12	Adjoins	57 Cooper	\$163,000							\$163,000		685
	Not	191 Amelia	\$132,000	\$2,303		\$3,960	\$2,685	\$10,000	\$5,000	\$155,947	4%	
	Not	75 April	\$134,000	\$8,029	\$4,000	-\$670	-\$135	\$5,000	\$5,000	\$155,224	5%	
	Not	345 Woodland	\$131,000	\$8,710		\$5,895	\$9,811		\$5,000	\$160,416	2%	
										Average	4%	

The best matched pair is 191 Amelia, which was most similar in time frame of sale and indicates a +4% increase in value due to the solar farm adjacency.

Parcel 15	Solar Adjoins Not	Address 297 Countr 185 Dusty	5	9/30/2016 8/17/2015	Sales Price \$150,000 \$126,040	2002 2009	1,596 1,463	\$/GBA \$93.98 \$86.15	BR/BA 3/2 3/2	Park 4-Gar 2-Gar	Styl Rano Rano	ch
	Not	53 Glen	1.13	3/9/2017 Adjoining S	\$126,000 ales Adjuste	1999 d	1,475	\$85.42	3/2	2-Gar	Rano	h Brick
Parcel 15	Solar Adjoins	Address 297 Country	Sales Price \$150,000	Time	Site YB	GLA	Par	k Otl		o tal 9 0,000	% Diff	Distance 650
	Not	185 Dusty	\$126,040	\$4,355	-\$4,41	1 \$9,16	7 \$10,0	000	\$145	5,150	3%	
	Not	53 Glen	\$126,000	-\$1,699	\$1,89	0 \$8,26	9 \$10,0	000	\$144	4,460	4%	
									Ave	rage	3%	

The best matched pair is 53 Glen, which was most similar in time frame of sale and required less adjustment. It indicates a +4% increase in value due to the solar farm adjacency.

The average indicated impact from these three sets of matched pairs is +4%, which suggests a mild positive relationship due to adjacency to the solar farm. The landscaping buffer for this project is mostly natural tree growth that was retained as part of the development but much of the trees separating the panels from homes are actually on the lots for the homes themselves. I therefore consider the landscaping buffer to be thin to moderate for these adjoining homes.

I have also looked at several lot sales in this subdivision as shown below.

Adjoining Residential Sales After Solar Farm Built

These are all lots within the same community and the highest prices paid are for lots one parcel off from the existing solar farm. These prices are fairly inconsistent, though they do suggest about a \$3,000 loss in the lots adjoining the solar farm. This is an atypical finding and additional details suggest there is more going on in these sales than the data crunching shows. First of all Parcel 4 was purchased by the owner of the adjoining home and therefore an atypical buyer seeking to expand a lot and the site is not being purchased for home development. Moreover, using the SiteToDoBusiness demographic tools, I found that the 1-mile radius around this development is expecting a total population increase over the next 5 years of 3 people. This lack of growing demand for lots is largely explained in that context. Furthermore, the fact that finished home sales as shown above are showing no sign of a negative impact on property value makes this data unreliable and inconsistent with the data shown in sales to an end user. I therefore place little weight on this outlier data.

						4/18/2019		4/18/2019
Parcel	Solar	Address	Acres	Date Sold	Sales Price	Adj for Time	\$/AC	Adj for Time
4	Adjoins	Shelter	2.05	10/25/2017	\$16,000	\$16,728	\$7,805	\$8,160
10	Adjoins	Carter	1.70	8/2/2018	\$14,000	\$14,306	\$8,235	\$8,415
11	Adjoins	Cooper	1.28	9/17/2018	\$12,000	\$12,215	\$9,375	\$9,543
	Not	75 Dusty	1.67	4/18/2019	\$20,000	\$20,000	\$11,976	\$11,976
	Not	Lake Trl	1.47	11/7/2018	\$13,000	\$13,177	\$8,844	\$8,964
	Not	Lake Trl	1.67	4/18/2019	\$20,000	\$20,000	\$11,976	\$11,976
		Adjoins	Per Acre	Not Adjoins	Per Acre	% DIF/Lot	% DIF/AC	
	Average	\$14,416	\$8,706	\$17,726	\$10,972	19%	21%	
	Median	\$14,306	\$8,415	\$20,000	\$11,976	28%	30%	
	High	\$16,728	\$9,543	\$20,000	\$11,976	16%	20%	
	Low	\$12,215	\$8,160	\$13,177	\$8,964	7%	9%	

3. Matched Pair - Leonard Road Solar Farm, Hughesville, MD



This 5 MW solar farm is located on 47 acres and mostly adjoins agricultural and residential uses to the west, south and east as shown above. The property also adjoins retail uses and a church. I looked at a 2016 sale of an adjoining home with a positive impact on value adjoining the solar farm of 2.90%. This is within typical market friction and supports an indication of no impact on property value.

I have shown this data below. The landscaping buffer is considered heavy.

Leonardtown Road Solar Farm, Hughesville, MD

Nearby Residential Sale	Nearby Residential Sale After Solar Farm Construction													
Address	Solar Farm	Acres	Date Sold S	ales Price*	Built	GBA	\$/GBA	Style	BR/BA	Bsmt	Park	Upgrades	s Other	
14595 Box Elder Ct	Adjoins	3.00	2/12/2016	\$291,000	1991	2,174	\$133.85	Colonial	5/2.5	No	2 Car Att	N/A	Deck	
15313 Bassford Rd	Not	3.32	7/20/2016	\$329,800	1990	2,520	\$130.87	Colonial	3/2.5	Finished	2 Car Att	Custom	Scr Por/Patio	

*\$9,000 concession deducted from sale price for Box Elder and \$10,200 deducted from Bassford

Adjoining Sales Adju	sted			Adjustmen	ts			
Address	Date Sold	Sales Price	Time	GLA	Bsmt	Upgrades	Other	Total
14595 Box Elder Ct	2/12/2016	\$291,000						\$291,000
15313 Bassford Rd	7/20/2016	\$329,800	-\$3,400	-\$13,840	-\$10,000	-\$15,000	-\$5,000	\$282,560
				Difference	Attributa	ble to Loc	ation	\$8,440
								2.90%

This is within typical market friction and supports an indication of no impact on property value.



This 5 MW project is located on the south side of Neal Hawkins Road just outside of Gastonia. The property identified above as Parcel 4 was listed for sale while this solar farm project was going

through the approval process. The property was put under contract during the permitting process with the permit being approved while the due diligence period was still ongoing. After the permit was approved the property closed with no concerns from the buyer. I spoke with Jennifer Bouvier, the broker listing the property and she indicated that the solar farm had no impact at all on the sales price. She considered some nearby sales to set the price and the closing price was very similar to the asking price within the typical range for the market. The buyer was aware that the solar farm was coming and they had no concerns.

This two-story brick dwelling was sold on March 20, 2017 for \$270,000 for a 3,437 square foot dwelling built in 1934 in average condition on 1.42 acres. The property has four bedrooms and two bathrooms. The landscaping screen is light for this adjoining home due to it being a new planted landscaping buffer.

Adjoining	Residential	Sales A	fter Sola	r Farm App	roved							
Solar	Address		Acres	Date Sold	Sales Price	Built	GBA	\$/GLA	BR/BA	Park	Style	Other
Adjoins 6	509 Neal Haw	kins	1.42	3/20/2017	\$270,000	1934	3,427	\$78.79	4/2	Open	2-Brick	
Not	1418 N Mode	ena	4.81	4/17/2018	\$225,000	1930	2,906	\$77.43	3/3	2-Crprt	2-Brick	
Not	363 Dallas B	ess	2.90	11/29/2018	\$265,500	1968	2,964	\$89.57	3/3	Open	FinBsmt	
Not	1612 Dallas C	Chry	2.74	9/17/2018	\$245,000	1951	3,443	\$71.16	3/2	Open	2-Brick	Unfin bath
Adjoining	g Sales Adju	sted									Avg	
Adjoining Addr	, ,	sted Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	Avg % Diff	Distance
•	ress		Site	ΥВ	GLA	BR/BA	Park	Other	Total \$270,000	% Diff	•	Distance 225
Addr	r ess Hawkins			YB \$2,700	GLA \$32,271	BR/BA	Park -\$10,000	Other		% Diff 5%	•	
Addr 609 Neal 1	r ess Hawkins Modena	Time			\$32,271	BR/BA		Other \$53,100	\$270,000		•	
Addr 609 Neal 1 1418 N M	r ess Hawkins Modena as Bess	Time \$7,319		\$2,700	\$32,271 \$33,179				\$270,000 \$257,290	5%	•	

I also considered the newer adjoining home identified as Parcel 5 that sold later in 2017 and it likewise shows no negative impact on property value. This is also considered a light landscaping buffer.

Adjoining Residential Sales After Solar Farm Approved

Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GLA	BR/BA	Park	Style
Adjoins	611 Neal Hawkins	0.78	7/6/2017	\$288,000	1991	2,256	\$127.66	5/3	2-Gar	1.5 Brick
Not	1211 Still Frst	0.51	7/30/2018	\$280,000	1989	2,249	\$124.50	3/3	2-Gar	Br Rnch
Not	2867 Colony Wds	0.52	8/14/2018	\$242,000	1990	2,006	\$120.64	3/3	2-Gar	Br Rnch
Not	1010 Strawberry	1.00	10/4/2018	\$315,000	2002	2,330	\$135.19	3/2.5	2-Gar	1.5 Brick

Adjoining Sales Ad	ljusted									Avg	
Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	% Diff	Distance
611 Neal Hawkins								\$288,000			145
1211 Still Frst	\$1,341		\$2,800	\$697				\$284,838	1%		
2867 Colony Wds	\$7,714		\$1,210	\$24,128				\$275,052	4%		
1010 Strawberry	-\$4,555		-\$17,325	-\$8,003	\$5,000			\$290,116	-1%		
										2%	

5. Matched Pair - Summit/Ranchlands Solar, Moyock, NC



This project is located at 1374 Caritoke Highway, Moyock, NC. This is an 80 MW facility on a parent tract of 2,034 acres. Parcels Number 48 and 53 as shown in the map above were sold in 2016. The project was under construction during the time period of the first of the matched pair sales and the permit was approved well prior to that in 2015.

I looked at multiple sales of adjoining and nearby homes and compared each to multiple comparables to show a range of impacts from -10% up to +11% with an average of +2% and a median of +3%. These ranges are well within typical real estate variation and supports an indication of no impact on property value.

	Adjoinin	g Residential Sa	les After S	Solar Farm A	pproved								
Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other	Distance
48	Adjoins	129 Pinto	4.29	4/15/2016	\$170,000	1985	1,559	\$109.04	3/2	Drive	MFG		1,060
	Not	102 Timber	1.30	4/1/2016	\$175,500	2009	1,352	\$129.81	3/2	Drive	MFG		
	Not	120 Ranchland	0.99	10/1/2014	\$170,000	2002	1,501	\$113.26	3/2	Drive	MFG		
												Avg	
	Solar	Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	% Diff	
	Adjoins	129 Pinto								\$170,000		-3%	
	Not	102 Timber	\$276	\$10,000	-\$29,484	\$18,809				\$175,101	-3%		
	Not	120 Ranchland	\$10,735	\$10,000	-\$20,230	\$4,598				\$175,103	-3%		

Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GLA	BR/BA	Park	Style	Other
Adjoins	105 Pinto	4.99	12/16/2016	\$206,000	1978	1,484	\$138.81	3/2	Det G	Ranch	
Not	111 Spur	1.15	2/1/2016	\$193,000	1985	2,013	\$95.88	4/2	Gar	Ranch	
Not	103 Marshall	1.07	3/29/2017	\$196,000	2003	1,620	\$120.99	3/2	Drive	Ranch	
Not	127 Ranchland	0.00	6/9/2015	\$219,900	1988	1,910	\$115.13	3/2	Gar/3Det	Ranch	

Adjoining Sales Adjusted Avg													
Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	% Diff	Distance		
105 Pinto								\$206,000			980		
111 Spur	\$6,747	\$10,000	-\$6,755	-\$25,359				\$177,633	14%				
103 Marshall	-\$2,212	\$10,000	-\$24,500	-\$8,227		\$5,000		\$176,212	14%				
127 Ranchland	\$13,399	\$10,000	-\$10,995	-\$24,523		-\$10,000		\$197,781	4%				
										11%			

Adjoin	ing Resi	dential Sales Aft	er Solar Fa	arm Built									
Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other	Distance
15	Adjoins	318 Green View	0.44	9/15/2019	\$357,000	2005	3,460	\$103.18	4/4	2-Car	1.5 Brick		570
	Not	195 St Andrews	0.55	6/17/2018	\$314,000	2002	3,561	\$88.18	5/3	2-Car	2.0 Brick		
	Not	336 Green View	0.64	1/13/2019	\$365,000	2006	3,790	\$96.31	6/4	3-Car	2.0 Brick		
	Not	275 Green View	0.36	8/15/2019	\$312,000	2003	3,100	\$100.65	5/3	2-Car	2.0 Brick		
												Avg	
	Solar	Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	% Diff	
	Adjoins	318 Green View								\$357,000		4%	
	Not	195 St Andrews	\$12,040		\$4,710	-\$7,125	\$10,000			\$333,625	7%		
	Not	336 Green View	\$7,536		-\$1,825	-\$25,425			-\$5,000	\$340,286	5%		
	Not	275 Green View	\$815		\$3,120	\$28,986	\$10,000			\$354,921	1%		

Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style
29	Adjoins	164 Ranchland	1.01	4/30/2019	\$169,000	1999	2,052	\$82.36	4/2	Gar	MFG
	Not	150 Pinto	0.94	3/27/2018	\$168,000	2017	1,920	\$87.50	4/2	Drive	MFG
	Not	105 Longhorn	1.90	10/10/2017	\$184,500	2002	1,944	\$94.91	3/2	Drive	MFG
	Not	112 Pinto	1.00	7/27/2018	\$180,000	2002	1,836	\$98.04	3/2	Drive	MFG
	Solar	Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff
	Adjoins	164 Ranchland								\$169,000	
	Not	150 Pinto	\$5,649		-\$21,168	\$8,085			\$5,000	\$165,566	2%
	Not	105 Longhorn	\$8,816	-\$10,000	-\$3,875	\$7,175			\$5,000	\$191,616	-13%
	Not	112 Pinto	\$4,202		-\$3,780	\$14,824			\$5,000	\$200,245	-18%

Adjoini	ng Resi	dential Sales Afte	er Solar F	arm Built									
Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other	Distance
	Adjoins	358 Oxford	10.03	9/16/2019	\$478,000	2008	2,726	\$175.35	3/3	2 Gar	Ranch		635
	Not	276 Summit	10.01	12/20/2017	\$355,000	2006	1,985	\$178.84	3/2	2 Gar	Ranch		
	Not	176 Providence	6.19	5/6/2019	\$425,000	1990	2,549	\$166.73	3/3	4 Gar	Ranch	Brick	
	Not	1601 B Caratoke	12.20	9/26/2019	\$440,000	2016	3,100	\$141.94	4/3.5	5 Gar	Ranch	Pool	
												Avg	
	Solar	Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	% Diff	
	Adjoins	358 Oxford								\$478,000		5%	
	Not	276 Summit	\$18,996		\$3,550	\$106,017	\$10,000			\$493,564	-3%		
	Not	176 Providence	\$4,763		\$38,250	\$23,609		-\$10,000	-\$25,000	\$456,623	4%		
	Not	1601 B Caratoke	-\$371	\$50,000	-\$17,600	-\$42,467	-\$5,000	-\$10,000		\$414,562	13%		

Adjoining Residential Sales After Solar Farm Approved

Parcel	Solar Nearby Not Not	Address 343 Oxford 287 Oxford 301 Oxford	Acres 10.01 10.01 10.00	Date Sold 3/9/2017 9/4/2017 4/23/2018	Sales Price \$490,000 \$600,000 \$434,000	Built 2016 2013 2013	GBA 3,753 4,341 3,393	\$/GBA \$130.56 \$138.22 \$127.91	BR/BA 3/3 5/4.5 5/3	8-Gar	Style 1.5 Story 1.5 Story 1.5 Story	Other Pool Pool	Distance 970
	Not	218 Oxford	10.00	4/4/2017	\$525,000	2013	4,215	\$124.56	4/3		1.5 Story	VG Barn	
												Avg	
	Solar Adjoins	Address 343 Oxford	Time	Site	YB	GLA	BR/BA	Park	Other	Total \$490,000	% Diff	% Diff 3%	
	Not	287 Oxford	-\$9,051		\$9,000	-\$65,017	-\$15,000	-\$25,000		\$494,932	-1%		
	Not	301 Oxford	-\$14,995	-\$10,000	\$6,510	\$36,838				\$452,353	8%		
	Not	218 Oxford	-\$1,150		\$26,250	-\$46,036		-\$10,000	-\$10,000	\$484,064	1%		

Fenced Avg % Diff -10%

Other Distance 440

6. Matched Pair – Tracy Solar, Bailey, NC



This project is located in rural Nash County on Winters Road with a 5 MW facility that was built in 2016 on 50 acres. A local builder acquired parcels 9 and 10 following construction as shown below

at rates comparable to other tracts in the area. They then built a custom home for an owner and sold that at a price similar to other nearby homes as shown in the matched pair data below. The retained woods provide a heavy landscaped buffer for this homesite.

#	Solar Farm		TAX ID	Grantor	Grante	e A	ddress	Acres	Date Sold	Sales Pri	ice \$/AC	Other	
&10	Adjoins		316003	Cozart	Kingsmi	11 916	2 Winters	13.22	7/21/2016	\$70,000	\$5,295		
		8	ة 316004										
	Not		6056	Billingsly		42	7 Young	41	10/21/2016	\$164,00	0 \$4,000		
	Not		33211	Fulcher	Weikel	105	33 Cone	23.46	7/18/2017	\$137,00	0 \$5,840	Doublewide	, structures
	Not		106807	Perry	Gardne		ude Lewis	11.22	8/10/2017	\$79,000			for sub, cleared
	Not		3437	Vaughan	N/A		354 Old	18.73	Listing	\$79,900	\$4,266	Small ceme	tery,wooded
						Le	wis Sch						
			Adj	joining	Sales A	djuste	d						
				Time	Acre	s Loc	ation	Othe	r Adj\$	S/Ac 9	% Diff		
									\$5,2	295			
				\$0	\$400)	\$0	\$0	\$4,4	400	17%		
				-\$292	\$292	2	\$0	-\$500) \$5,3	340	-1%		
				-\$352	\$0		\$0	-\$1,00	00 \$5,6	589	-7%		
				-\$213	\$0		\$0	\$213	\$4,2	266	19%		
									Aver	age	7%		
										0			
diain	ing Residen Solar Farm		Sales Aft Addres		-		Sales Pric	. Bu	ilt GL	\$/61	A BR/BA	Style	Other
-	Solar Faim		9162 Win			/5/2017	\$255,000		16 1,61			Ranch	1296 sf wrksht
#	Adioins	rc				/ 5/ 2017	φ200,000				,	2-story	1290 31 wikan
-	Adjoins Not					30/2016	\$176.000) 20	010 1.52				
#	Adjoins Not		7352 Red			30/2016	\$176,000) 20	010 1,52	9 \$115.	11 3/2		
#	Not	,,	7352 Red ning S		0.93 6, justed	30/2016	. ,					·	
#	Not	,,	7352 Red	l Fox	0.93 6/ justed	30/2016	\$176,000 GLA) 20 Sty		9 \$113.	Total	% Diff	

The comparables for the land show either a significant positive relationship or a mild negative relationship to having and adjoining solar farm, but when averaged together they show no negative impact. The wild divergence is due to the difficulty in comping out this tract of land and the wide variety of comparables used. The two comparables that show mild negative influences include a property that was partly developed as a residential subdivision and the other included a doublewide with some value and accessory agricultural structures. The tax assessed value on the improvements were valued at \$60,000. So both of those comparables have some limitations for comparison. The two that show significant enhancement due to adjacency includes a property with a cemetery located in the middle and the other is a tract almost twice as large. Still that larger tract after adjustment provides the best matched pair as it required the least adjustment. I therefore conclude that there is no negative impact due to adjacency to the solar farm shown by this matched pair.

\$5,007

\$5,000 \$15,000 \$252,399

1%

\$0

\$44,000 \$7,392

The dwelling that was built on the site was a build-to-suit and was compared to a nearby homesale of a property on a smaller parcel of land. I adjusted for that differenced based on a \$25,000 value for a 1-acre home site versus the \$70,000 purchase price of the larger subject tract. The other adjustments are typical and show no impact due to the adjacency to the solar farm.

The closest solar panel to the home is 780 feet away.

I note that the representative for Kingsmill Homes indicated that the solar farm was never a concern in purchasing the land or selling the home. He also indicated that they had built a number of nearby homes across the street and it had never come up as an issue. 7. Matched Pair - Manatee Solar Farm, Parrish, FL



This solar farm is located near Seminole Trail, Parrish, FL. The solar farm has a 74.50 MW output and is located on a 1,180.38 acre tract and was built in 2016. The tract is owned by Florida Power & Light Company.

I have considered the recent sale of 13670 Highland Road, Wimauma, Florida. This one-story, concrete block home is located just north of the solar farm and separated from the solar farm by a railroad corridor. This home is a 3 BR, 3 BA 1,512 s.f. home with a carport and workshop. The property includes new custom cabinets, granite counter tops, brand new stainless steel appliances, updated bathrooms and new carpet in the bedrooms. The home is sitting on 5 acres. The home was built in 1997.

I have compared this sale to several nearby homesales as part of this matched pair analysis as shown below. The landscaping separating the home from the solar farm is considered heavy.

Solar	TAX ID/Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Parl	£	Style	Note	
Adjoins	13670 Highland	5.00	8/21/2017	\$255,000	1997	1,512	\$168.65	5 3/3	Carport/V	Vrkshp 1	Ranch	Renov.	
Not	2901 Arrowsmith	1.91	1/31/2018	\$225,000	1979	1,636	\$137.53	3 3/2	2 Garage/	Wrkshp 1	Ranch		
Not	602 Butch Cassidy	1.00	5/5/2017	\$220,000	2001	1,560	\$141.03	3 3/2	N/A	\]	Ranch	Renov.	
Not	2908 Wild West	1.23	7/12/2017	\$254,000	2003	1,554	\$163.45	5 3/2	2 Garage/	Wrkshp 1	Ranch	Renov.	
Not	13851 Highland	5.00	9/13/2017	\$240,000	1978	1,636	\$146.70) 4/2	3 Gara	age 1	Ranch	Renov.	
Adjoining Sales Adjusted													
Solar	TAX ID/Address	Tim	e Acres	YB	GLA	B	R/BA	Park	Note	Total	l %	6 Diff	
Adjoins	13670 Highland									\$255,0	00		
Not	2901 Arrowsmith	\$2,25	50 \$10,00	\$28,350	-\$8,52	27 \$5	5,000	-\$10,000	\$10,000	\$262,0	73	-3%	
Not	602 Butch Cassid	y -\$2,20	00 \$10,00	0 -\$6,160	-\$3,38	35 \$5	5,000	\$2,000		\$225,2	55	12%	
Not	2908 Wild West	\$0	\$10,00	0 -\$10,668	-\$3,43	32 \$5	5,000	-\$10,000		\$244,9	00	4%	
Not	13851 Highland	\$0	\$0	\$31,920	-\$9,09	95 \$3	3,000	-\$10,000		\$255,8	25	0%	

Average 3%

The sales prices of the comparables before adjustments range from \$220,000 to \$254,000. After adjustments they range from \$225,255 to \$262,073. The comparables range from no impact to a strong positive impact. The comparables showing -3% and +4% impact on value are considered within a typical range of value and therefore not indicative of any impact on property value.

This set of matched pair data falls in line with the data seen in other states. The closest solar panel to the home at 13670 Highland is 1,180 feet. There is a wooded buffer between these two properties.

I have included a map showing the relative location of these properties below.





Matched Pair - McBride Place Solar Farm, Midland, NC

8.

This project is located on Mount Pleasant Road, Midland, North Carolina. The property is on 627 acres on an assemblage of 974.59 acres. The solar farm was approved in early 2017 for a 74.9 MW facility.

I have considered the sale of 4380 Joyner Road which adjoins the proposed solar farm near the northwest section. This property was appraised in April of 2017 for a value of \$317,000 with no consideration of any impact due to the solar farm in that figure. The property sold in November

2018 for \$325,000 with the buyer fully aware of the proposed solar farm. The landscaping buffer relative to Joyner Road, Hayden Way, Chanel Court and Kristi Lane is considered medium, while the landscaping for the home at the north end of Chanel Court is considered very light.

I have considered the following matched pairs to the subject property.

Adjoining Re	esidential Sale	es After Solar	Farm Approved								
Solar	Address	Acre	s Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
Adjoins	4380 Joyne	er 12.00	0 11/22/2017	\$325,000	1979	1,598	\$203.38	3/2	2xGar	Ranch	Outbldg
Not	3870 Elkwo	od 5.50	8/24/2016	\$250,000	1986	1,551	\$161.19	3/2.5	Det 2xGar	Craft	
Not	8121 Lower R	ocky 18.00	0 2/8/2017	\$355,000	1977	1,274	\$278.65	2/2	2xCarprt	Ranch	Eq. Fac.
Not	13531 Cabar	rus 7.89	5/20/2016	\$267,750	1981	2,300	\$116.41	3/2	2xGar	Ranch	
Adjoining	g Sales Adj	usted									
Time	Acres	YB	Condition	GLA	BR/BA	Р	ark	Other	Total	%	Diff
									\$325,00	00	
\$7,500	\$52,000	-\$12,250	\$10,000	\$2,273	-\$2,000	\$2	,500	\$7,500	\$317,52	23	2%
\$7,100	-\$48,000	\$4,970		\$23,156	\$0	\$3	,000	-\$15,000	\$330,22	26 -	-2%
\$8,033	\$33,000	-\$3,749	\$20,000	-\$35,832	\$0		\$0	\$7,500	\$296,70)2	9%

The home at 4380 Joyner Road is 275 feet from the closest solar panel.

I also considered the recent sale of a lot at 5800 Kristi Lane that is on the east side of the proposed solar farm. This 4.22-acre lot sold in December 2017 for \$94,000. A home was built on this lot in 2019 with the closest point from home to panel at 689 feet. The home site is heavily wooded and their remains a wooded buffer between the solar panels and the home. I spoke with the broker, Margaret Dabbs, who indicated that the solar farm was considered a positive by both buyer and seller as it insures no subdivision will be happening in that area. Buyers in this market are looking for privacy and seclusion.

The breakdown of recent lot sales on Kristi are shown below with the lowest price paid for the lot with no solar farm exposure, though that lot has exposure to Mt Pleasant Road South. Still the older lot sales have exposure to the solar farm and sold for higher prices than the front lot and adjusting for time would only increase that difference.

Adjoinin	Adjoining Lot Sales After Solar Farm Built														
Parcel S	Solar	Address	Acres	Date Sold	Sales Price	\$/AC	\$/Lot								
A	djoins	5811 Kristi	3.74	5/1/2018	\$100,000	\$26,738	\$100,000								
A	djoins	5800 Kristi	4.22	12/1/2017	\$94,000	\$22,275	\$94,000								
	Not	5822 Kristi	3.43	2/24/2020	\$90,000	\$26,239	\$90,000								

The lot at 5811 Kristi Lane sold in May 2018 for \$100,000 for a 3.74-acre lot. The home that was built later in 2018 is 505 feet to the closest solar panel. This home then sold to a homeowner for \$530,000 in April 2020. I have compared this home sale to other properties in the area as shown below.

3%

Average

Adjoining Residential Sales After Solar Farm Built

Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
Adjoins	5811 Kristi	3.74	3/31/2020	\$530,000	2018	3,858	\$137.38	5/3.5	2 Gar	2-story	Cement Ext
Not	3915 Tania	1.68	12/9/2019	\$495,000	2007	3,919	\$126.31	3/3.5	2 Gar	2-story	3Det Gar
Not	6782 Manatee	1.33	3/8/2020	\$460,000	1998	3,776	\$121.82	4/2/2h	2 Gar	2-story	Water
Not	314 Old Hickory	1.24	9/20/2019	\$492,500	2017	3,903	\$126.18	6/4.5	2 Gar	2-story	
											Avg
Solar	Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	% Diff
Adjoins	5811 Kristi								\$530,000		5%
Not	3915 Tania	\$6,285		\$27,225	-\$3,852		-\$20,000		\$504,657	5%	
Not	6782 Manatee	\$1,189		\$46,000	\$4,995	\$5,000			\$517,183	2%	
Not	314 Old Hickory	\$10,680		\$2,463	-\$2,839	-\$10,000			\$492,803	7%	
1.0			T C 1					1			

After adjusting the comparables, I found that the average adjusted value shows a slight increase in value for the subject property adjoining a solar farm. As in the other cases, this is a mild positive impact on value but within the typical range of real estate transactions.

I also looked at 5833 Kristi Lane that sold on 9/14/2020 for \$625,000. This home is 470 feet from the closest panel.

Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GLA	BR/BA	Park	Style	Other
Nearby	5833 Kristi	4.05	9/14/2020	\$625,000	2008	4,373	\$142.92	5/4	3-Car	2-Brick	
Not	4055 Dakeita	4.90	12/30/2020	\$629,000	2005	4,427	\$142.08	4/4	4-Car	2-Brick	4DetGar/Stable
Not	9615 Bales	2.16	6/30/2020	\$620,000	2007	4,139	\$149.79	4/5	3-Car	2-Stone	2DetGar
Not	9522 Bales	1.47	6/18/2020	\$600,000	2007	4,014	\$149.48	4/4.5	3-Car	2-Stone	

Adjoining Sales Adjusted

Aujoining Saic	s Aujustei	u								AVS	
Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	% Diff	Distance
5833 Kristi								\$625,000			470
4055 Dakeita	-\$9,220		\$5,661	-\$6,138		-\$25,000		\$594,303	5%		
9615 Bales	\$6,455		\$1,860	\$28,042	-\$10,000	-\$15,000		\$631,356	-1%		
9522 Bales	\$7,233		\$1,800	\$42,930	-\$5,000			\$646,963	-4%		
										0%	

The average difference is 0% impact and the differences are all within a close range with this set of comparables and supports a finding of no impact on property value.

I have also looked at 4504 Chanel Court. This home sold on January 1, 2020 for \$393,500 for this 3,010 square foot home built in 2004 with 3 bedroooms, 3.5 bathrooms, and a 3-car garage. This home includes a full partially finished basement that significantly complicates comparing this to other sales. This home previously sold on January 23, 2017 for \$399,000. This was during the time that the solar farm was a known factor as the solar farm was approved in early 2017 and public discussions had already commenced. I spoke with Rachelle Killman with Real Estate Realty, LLC the buyer's agent for this transaction and she indicated that the solar farm was not a factor or consideration for the buyer. She noted that you could see the panels sort of through the trees, but it wasn't a concern for the buyer. She was not familiar with the earlier 2017 sale, but indicated that it was likely too high. This again goes back to the partially finished basement issue. The basement has a fireplace, and an installed 3/4 bathroom but otherwise bare studs and concrete floors with different buyers assigning varying value to that partly finished space. I also reached out to Don Gomez with Don Anthony Realty, LLC as he was the listing agent.

I also looked at the recent sale of 4599 Chanel Court. This home is within 310 feet of solar panels but notably does not have a good landscaping screen in place as shown in the photo below. The plantings appear to be less than 3-feet in height and only a narrow, limited screen of existing hardwoods were kept. The photograph is from the listing.

According to Scott David with Better Homes and Gardens Paracle Realty, this property was under contract for \$550,000 contingent on the buyer being able to sell their former home. The former home was apparently overpriced and did not sell and the contract stretched out over 2.5 months.

Avo
The seller was in a bind as they had a home they were trying to buy contingent on this closing and were about to lose that opportunity. A cash buyer offered them a quick close at \$500,000 and the seller accepted that offer in order to not lose the home they were trying to buy. According to Mr. David, the original contracted buyer and the actual cash buyer never considered the solar farm as a negative. In fact Mr. David noted that the actual buyer saw it as a great opportunity to purchase a home where a new subdivision could not be built behind his house. I therefore conclude that this property supports a finding of no impact on adjoining property, even where the landscaping screen still requires time to grow in for a year-round screen.

I also considered a sale/resale analysis on this property. This same home sold on September 15, 2015 for \$462,000. Adjusting this upward by 5% per year for the five years between these sales dates suggests a value of \$577,500. Comparing that to the \$550,000 contract that suggests a 5% downward impact, which is within a typical market variation. Given that the broker noted no negative impact from the solar farm and the analysis above, I conclude this sale supports a finding of no impact on value.





This project is a 5 MW facility located on 35.80 acres out of a parent tract of 87.61 acres at 517 Blacksnake Road, Stanley that was built in 2016.

I have considered a number of recent sales around this facility as shown below.

The first is identified in the map above as Parcel 1, which is 215 Mariposa Road. This is an older dwelling on large acreage with only one bathroom. I've compared it to similar nearby homes as shown below. The landscaping buffer for this home is considered light.

Adjoining Residential Sales After Solar Farm Approved

Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style
Adjoins	215 Mariposa	17.74	12/12/2017	\$249,000	1958	1,551	\$160.54	3/1	Garage	Br/Rnch
Not	249 Mariposa	0.48	3/1/2019	\$153,000	1974	1,792	\$85.38	4/2	Garage	Br/Rnch
Not	110 Airport	0.83	5/10/2016	\$166,000	1962	2,165	\$76.67	3/2	Crprt	Br/Rnch
Not	1249 Blacksnake	5.01	9/20/2018	\$242,500	1980	2,156	\$112.48	3/2	Drive	1.5
Not	1201 Abernathy	27.00	5/3/2018	\$390,000	1970	2,190	\$178.08	3/2	Crprt	Br/Rnch

Adjoining Residential Sales After Sola	r Farm Approved	Adjoining Sales Adjusted
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Solar	Address	Acres	Date Sold	Sales Price	Time	YB	Acres	GLA	BR/BA	Park	Other	Total	% Diff
Adjoins	215 Mariposa	17.74	12/12/2017	\$249,000								\$249,000	
Not	249 Mariposa	0.48	3/1/2019	\$153,000	-\$5,583	-\$17,136	\$129,450	-\$20,576	-\$10,000			\$229,154	8%
Not	110 Airport	0.83	5/10/2016	\$166,000	\$7,927	-\$4,648	\$126,825	-\$47,078	-\$10,000			\$239,026	4%
Not	1249 Blacksnake	5.01	9/20/2018	\$242,500	-\$5,621	-\$37,345	\$95,475	-\$68,048	-\$10,000	\$5,000		\$221,961	11%
Not	1201 Abernathy	27.00	5/3/2018	\$390,000	-\$4,552	-\$32,760	-\$69,450	-\$60,705	-\$10,000			\$212,533	15%

Average 9%

The average difference after adjusting for all factors is +9% on average, which suggests an enhancement due to the solar farm across the street. Given the large adjustments for acreage and size, I will focus on the low end of the adjusted range at 4%, which is within the typical deviation and therefore suggests no impact on value.

I have also considered Parcel 4 that sold after the solar farm was approved but before it had been constructed in 2016. The landscaping buffer for this parcel is considered light.

Solar	Address	Acre	Date S	Sold	Sales Price	e Built	GBA	\$/GBA	BR/BA	Park	Style	Other	
Adjoins	242 Mariposa	2.91	9/21/2	2015	\$180,000	1962	1,880	\$95.74	3/2	Carport	Br/Rnc	h Det W	rkshop
Not	249 Mariposa	0.48	3/1/2	019	\$153,000	1974	1,792	\$85.38	4/2	Garage	Br/Rnc	h	
Not	110 Airport	0.83	5/10/2	2016	\$166,000	1962	2,165	\$76.67	3/2	Crprt	Br/Rnc	h	
Not	1249 Blacksnak	e 5.01	9/20/2	2018	\$242,500	1980	2,156	\$112.48	3/2	Drive	1.5		
dioining	Residential Sales	s After So	lar Farm		. ,	ning Sales	Adjusted		,				
djoining	Residential Sales	s After So	lar Farm		. ,	ning Sales	Adjusted		,				
Solar	Address	Acres D	ate Sold	Appro Sales	oved Adjoi Price Tin	0	•	s GL	A BR/BA	Park	Other	Total	% Diff
• •		Acres D		Appro Sales	oved Adjoi	0	•	es GL	A BR/BA	A Park	Other	Total \$180,000	
Solar	Address	Acres D 2.91 9	ate Sold	Appro Sales \$180	oved Adjoi Price Tin	ne YB	Acre						
Solar Adjoins	Address 242 Mariposa	Acres D 2.91 9 0.48 3	ate Sold /21/2015	Appro Sales \$180 \$153	oved Adjoi Price Tin),000	ne YB 807 -\$12,8	Acre 352 \$18,4	68 \$7,5	13		\$25,000	\$180,000	4%

Average 6%

The average difference after adjusting for all factors is +6%, which is again suggests a mild increase in value due to the adjoining solar farm use. The median is a 4% adjustment, which is within a standard deviation and suggests no impact on property value.

I have also considered the recent sale of Parcel 13 that is located on Blacksnake Road south of the project. I was unable to find good land sales in the same 20-acre range, so I have considered sales of larger and smaller acreage. I adjusted each of those land sales for time. I then applied the price per acre to a trendline to show where the expected price per acre would be for 20 acres. As can be seen in the chart below, this lines up exactly with the purchase of the subject property. I therefore conclude that there is no impact on Parcel 13 due to proximity to the solar farm.

Adjoinin	g Residential Land	ved	Adjoining Sales Adjusted				
Solar	Tax/Street	Acres	Date Sold	Sales Price	\$/Ac	Time	\$/Ac
Adjoins	174339/Blacksnake	21.15	6/29/2018	\$160,000	\$7,565		\$7,565
Not	227852/Abernathy	10.57	5/9/2018	\$97,000	\$9,177	\$38	\$9,215
Not	17443/Legion	9.87	9/7/2018	\$64,000	\$6,484	-\$37	\$6,447
Not	164243/Alexis	9.75	2/1/2019	\$110,000	\$11,282	-\$201	\$11,081
Not	176884/Bowden	55.77	6/13/2018	\$280,000	\$5,021	\$7	\$5,027



Finally, I have considered the recent sale of Parcel 17 that sold as vacant land. I was unable to find good land sales in the same 7 acre range, so I have considered sales of larger and smaller acreage. I adjusted each of those land sales for time. I then applied the price per acre to a trendline to show where the expected price per acre would be for 7 acres. As can be seen in the chart below, this lines up with the trendline running right through the purchase price for the subject property. I therefore conclude that there is no impact on Parcel 13 due to proximity to the solar farm. I note that this property was improved with a 3,196 square foot ranch built in 2018 following the land purchase, which shows that development near the solar farm was unimpeded.

Adjoinin	g Residential Land	ved	Adjoining Sales Adjusted					
Solar	Tax/Street	Acres	Date Sold	Sales Price	\$/Ac	Time	Location	\$/Ac
Adjoins	227039/Mariposa	6.86	12/6/2017	\$66,500	\$9,694			\$9,694
Not	227852/Abernathy	10.57	5/9/2018	\$97,000	\$9,177	-\$116		\$9,061
Not	17443/Legion	9.87	9/7/2018	\$64,000	\$6,484	-\$147		\$6,338
Not	177322/Robinson	5.23	5/12/2017	\$66,500	\$12,715	\$217	-\$1,272	\$11,661
Not	203386/Carousel	2.99	7/13/2018	\$43,500	\$14,548	-\$262	-\$1,455	\$12,832



10. Matched Pair - Clarke County Solar, Clarke County, VA



This project is a 20 MW facility located on a 234-acre tract that was built in 2017.

I have considered two recent sales of Parcel 3. The home on this parcel is 1,230 feet from the closest panel as measured in the second map from Google Earth, which shows the solar farm under construction. This home sold in January 2017 for \$295,000 and again in August 2019 for \$385,000. I show each sale below and compare those to similar home sales in each time frame. The significant increase in price between 2017 and 2019 is due to a major kitchen remodel, new roof, and related upgrades as well as improvement in the market in general. The sale and later resale of the home with updates and improvements speaks to pride of ownership and increasing overall value as properties perceived as diminished are less likely to be renovated and sold for profit.

I note that 102 Tilthammer includes a number of barns that I did not attribute any value in the analysis. The market would typically give some value for those barns but even without that adjustment there is an indication of a positive impact on value due to the solar farm. The landscaping buffer from this home is considered light.

Adjoining	Residential	Sales After	Solar Farm	Approved
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Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GLA	BR/BA	Park	Style	Other
3	Adjoins	833 Nations Spr	5.13	8/18/2019	\$385,000	1979	1,392	\$276.58	3/2	Det Gar	Ranch	UnBsmt
	Not	167 Leslie	5.00	8/19/2020	\$429,000	1980	1,665	\$257.66	3/2	Det2Gar	Ranch	
	Not	2393 Old Chapel	2.47	8/10/2020	\$330,000	1974	1,500	\$220.00	3/1.5	Det Gar	Ranch	
	Not	102 Tilthammer	6.70	5/7/2019	\$372,000	1970	1,548	\$240.31	3/1.5	Det Gar	Ranch	UnBsmt

Adjoining	Avg									
Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	% Diff	Distance
							\$385,000			1230
-\$13,268		-\$2,145	-\$56,272		-\$5,000	\$50,000	\$402,315	-4%		
-\$9,956	\$25,000	\$8,250	-\$19,008	\$5,000		\$50,000	\$389,286	-1%		
\$3,229		\$16,740	-\$29,991	\$5,000			\$366,978	5%		
									0%	

Adjoining Residential Sales After Solar Farm Approved

Parcel	Solar	Ad	ldress	Acres	Date Sold	Sales Price	Built	GBA	\$/GLA	BR/BA	Park	Style	Other
3	Adjoins	833 N	ations Spr	5.13	1/9/2017	\$295,000	1979	1,392	\$211.93	3/2	Det Gar	Ranch	UnBsmt
	Not	680	1 Middle	2.00	12/12/2017	\$249,999	1981	1,584	\$157.83	3/2	Open	Ranch	
	Not	4174	Rockland	5.06	1/2/2017	\$300,000	1990	1,688	\$177.73	3/2	2 Gar	2-story	7
	Not	400 \$	Sugar Hill	1.00	6/7/2018	\$180,000	1975	1,008	\$178.57	3/1	Open	Ranch	
Adjoin	ning Sa	les Ad	justed								Av	g	
Tin	ie i	Site	YB	GLA	BR/BA	A Park	Other		Fotal	% Diff	% D	iff I	Distance
								\$2	95,000				1230
-\$7,1	100 \$2	25,000	-\$2,500	-\$24,24	42	\$5,000	\$50,000	0 \$2	96,157	0%			
\$17	77		-\$16,500	-\$42,08	85	-\$10,000	\$50,000	0 \$2	81,592	5%			
-\$7,7	797		\$3,600	\$54,85	57 \$10,000	0 \$5,000	\$50,000	0 \$2	95,661	0%			
											19	6	

11. Matched Pair - Simon Solar, Social Circle, GA



This 30 MW solar farm is located off Hawkins Academy Road and Social Circle Fairplay Road. I identified three adjoining sales to this tract after development of the solar farm. However, one of those is shown as Parcel 12 in the map above and includes a powerline easement encumbering over a third of the 5 acres and adjoins a large substation as well. It would be difficult to isolate those impacts from any potential solar farm impact and therefore I have excluded that sale. I also excluded the recent sale of Parcel 17, which is a farm with conservation restrictions on it that similarly would require a detailed examination of those conservation restrictions in order to see if there was any impact related to the solar farm. I therefore focused on the recent sale of Parcel 7 and the adjoining parcel to the south of that. They are technically not adjoining due to the access road for the flag-shaped lot to the east. Furthermore, there is an apparent access easement serving the two rear lots that encumber these two parcels which is a further limitation on these sales. This analysis assumes that the access easement does not negatively impact the subject property, though it may.

The landscaping buffer relative to this parcel is considered medium.

Adjoining Land Sales After Solar Farm Approved

Parcel	Solar	Address	Acres	Date Sold	Sales Price	\$/AC	Туре	Other
7+	Adjoins	4514 Hawkins	36.86	3/31/2016	\$180,000	\$4,883	Pasture	Esmts
	Not	HD Atha	69.95	12/20/2016	\$357,500	\$5,111	Wooded	N/A
	Not	Pannell	66.94	11/8/2016	\$322,851	\$4,823	Mixed	*
	Not	1402 Roy	123.36	9/29/2016	\$479,302	\$3,885	Mixed	**

* Adjoining 1 acre purchased by same buyer in same deed. Allocation assigned on the County Tax Record.

** Dwelling built in 1996 with a 2016 tax assessed value of \$75,800 deducted from sales price to reflect land value

Adjoining Sales Adjusted											
Time	Size	Туре	Other	Total/Ac	% Diff	% Diff					
				\$4,883							
\$89	\$256			\$5,455	-12%						
-\$90	\$241			\$4,974	-2%						
-\$60	\$389			\$4,214	14%						
						0%					

The range of impact identified by these matched pairs are -12% to +14%, with an average of 0% impact due to the solar farm. The best matched pair with the least adjustment supports a -2% impact due to the solar farm. I note again that this analysis considers no impact for the existing access easements that meander through this property and it may be having an impact. Still at -2% impact as the best indication for the solar farm, I consider that to be no impact given that market fluctuations support +/- 5%.



This 5 MW solar farm is located at 4839 US 70 Highway just east of Herring Road. This solar farm was completed on October 25, 2016.

I identified three adjoining sales to this tract after development of the solar farm with frontage on US 70. I did not attempt to analyze those sales as they have exposure to an adjacent highway and railroad track. Those homes are therefore problematic for a matched pair analysis unless I have similar homes fronting on a similar corridor.

I did consider a land sale and a home sale on adjoining parcels without those complications.

The lot at 499 Herring Road sold to Paradise Homes of Johnston County of NC, Inc. for \$30,000 in May 2017 and a modular home was placed there and sold to Karen and Jason Toole on September 29, 2017. I considered the lot sale first as shown below and then the home sale that followed. The landscaping buffer relative to this parcel is considered medium.

Adjoini	ing Land	Sales After So	lar Farm	Approved			Adjoinin	g Sales A	Adjusted	l	
Parcel	Solar	Address	Acres	Date Sold	Sales Price	Other	Time	Site	Other	Total	% Diff
16	Adjoins	499 Herring	2.03	5/1/2017	\$30,000					\$30,000	
	Not	37 Becky	0.87	7/23/2019	\$24,500	Sub/Pwr	-\$1,679	\$4,900		\$27,721	8%
	Not	5858 Bizzell	0.88	8/17/2016	\$18,000		\$390	\$3,600		\$21,990	27%
	Not	488 Herring	2.13	12/20/2016	\$35,000		\$389			\$35,389	-18%
										Average	5%

Following the land purchase, the modular home was placed on the site and sold. I have compared this modular home to the following sales to determine if the solar farm had any impact on the purchase price.

Adjoin	ing Resid	dential Sales	After Sola	ar Farm Appr	oved							
Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GB/	A BR/BA	Park	Style	Other
16	Adjoins	499 Herring	2.03	9/27/2017	\$215,000	2017	2,356	\$91.26	4/3	Drive	Modular	•
	Not	678 WC	6.32	3/8/2019	\$226,000	1995	1,848	\$122.2	9 3/2.5	Det Gar	Mobile	Ag bldgs
	Not	1810 Bay V	8.70	3/26/2018	\$170,000	2003	2,356	\$72.16	3/2	Drive	Mobile	Ag bldgs
	Not	1795 Bay V	1.78	12/1/2017	\$194,000	2017	1,982	\$97.88	4/3	Drive	Modular	•
•	0		• •					<i></i>	.	0/ D.00	-	
Adjoin: Parcel	ing Reside Solar	ential Sales Af. Address	Adjoining Time	Sales Adjuste Site Y		BR/BA	Park	Other	Total	% Diff	Avg % Diff	Distance
16	Adjoins	499 Herring							\$215,000			488
	Not	678 WC	-\$10,037	-\$25,000 \$24,	860 \$37,275	-\$5,000	-\$7,500	-\$20,000	\$220,599	-3%		
	Not	1810 Bay V	-\$2,579	-\$20,000 \$11,	900 \$0				\$159,321	26%		
	Not	1795 Bay V	-\$1,063	\$	\$21,964				\$214,902	0%		
											8%	

The best comparable is 1795 Bay Valley as it required the least adjustment and was therefore most similar, which shows a 0% impact. This signifies no impact related to the solar farm.

The range of impact identified by these matched pairs ranges are therefore -3% to +26% with an average of +8% for the home and an average of +4% for the lot, though the best indicator for the lot shows a \$5,000 difference in the lot value due to the proximity to the solar farm or a -12% impact.



13. Matched Pair - Walker-Correctional Solar, Barham Road, Barhamsville, VA

This project was built in 2017 and located on 484.65 acres for a 20 MW with the closest home at 110 feet from the closest solar panel with an average distance of 500 feet.

I considered the recent sale identified on the map above as Parcel 19, which is directly across the street and based on the map shown on the following page is 250 feet from the closest panel. A

limited buffering remains along the road with natural growth being encouraged, but currently the panels are visible from the road. Alex Uminski, SRA with MGMiller Valuations in Richmond VA confirmed this sale with the buying and selling broker. The selling broker indicated that the solar farm was not a negative influence on this sale and in fact the buyer noticed the solar farm and then discovered the listing. The privacy being afforded by the solar farm was considered a benefit by the buyer. I used a matched pair analysis with a similar sale nearby as shown below and found no negative impact on the sales price. Property actually closed for more than the asking price. The landscaping buffer is considered light.

Adjoinin	g Residential Sa	les Afte	r Solar Farn	1 Approve	ed							
Solar	Address	Acres	Date Sold	Sales Pr	ice B	uilt GI	3A \$	GBA/GBA	BR/B	A Park	Style	Other
Adjoins	s 5241 Barham	2.65	10/18/2018	\$264,00	00 2	2007 1,6	60 \$	159.04	3/2	Drive	Ranch	Modular
Not	17950 New Kent	5.00	9/5/2018	\$290,00	00 1	.987 1,7	'56 \$	165.15	3/2.5	5 3 Gar	Ranch	
Not	9252 Ordinary	4.00	6/13/2019	\$277,00	00 2	2001 1,6	510 \$	172.05	3/2	1.5-Gar	Ranch	
Not	2416 W Miller	1.04	9/24/2018	\$299,00	00 1	.999 1,8	864 \$	160.41	3/2.5	5 Gar	Ranch	
	Ac	ljoining	g Sales Adjus	sted								
Solar	Address 7	lime	Ac/Loc	YB	GLA	BR/BA	Par	rk C	Other	Total	% Diff	Dist
Adjoins	5241 Barham									\$264,000		250
Not	17950 New Kent		-\$8,000 \$2	29,000 -	\$4,756	-\$5,000	-\$20,	000 -\$	15,000	\$266,244	-1%	
Not	9252 Ordinary -\$	8,310	-\$8,000 \$	8,310 \$	\$2,581		-\$10,	000 -\$	15,000	\$246,581	7%	
Not	2416 W Miller		\$8,000 \$	11,960 -	\$9,817	-\$5,000	-\$10,	000 -\$	15,000	\$279,143	-6%	
									Ave	rage Diff	0%	

I also spoke with Patrick W. McCrerey of Virginia Estates who was marketing a property that sold at 5300 Barham Road adjoining the Walker-Correctional Solar Farm. He indicated that this property was unique with a home built in 1882 and heavily renovated and updated on 16.02 acres. The solar farm was through the woods and couldn't be seen by this property and it had no impact on marketing this property. This home sold on April 26, 2017 for \$358,000. I did not set up any matched pairs for this property since it is a unique property that any such comparison would be difficult to rely on. The broker's comments do support the assertion that the adjoining solar farm had no impact on value. The home in this case was 510 feet from the closest panel.



14. Matched Pair - Innovative Solar 46, Roslin Farm Rd, Hope Mills, NC

This project was built in 2016 and located on 532 acres for a 78.5 MW solar farm with the closest home at 125 feet from the closest solar panel with an average distance of 423 feet.

I considered the recent sale of a home on Roslin Farm Road just north of Running Fox Road as shown below. This sale supports an indication of no impact on property value. The landscaping buffer is considered light.

Adjoini	ng Residential Sa	les After	Solar Farm	Approved								
Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other	Distance
Adjoins	6849 Roslin Farm	1.00	2/18/2019	\$155,000	1967	1,610	\$96.27	3/3	Drive	Ranch	Brick	435
Not	6592 Sim Canady	2.43	9/5/2017	\$185,000	1974	2,195	\$84.28	3/2	Gar	Ranch	Brick	
Not	1614 Joe Hall	1.63	9/3/2019	\$145,000	1974	1,674	\$86.62	3/2	Det Gar	Ranch	Brick	
Not	109 Bledsoe	0.68	1/17/2019	\$150,000	1973	1,663	\$90.20	3/2	Gar	Ranch	Brick	
											Avg	
Solar	Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	% Diff	
Adjoins	6849 Roslin Farm								\$155,000		5%	
Not	6592 Sim Canady	\$8,278		-\$6,475	-\$39,444	\$10,000	-\$5,000		\$152,359	2%		
Not	1614 Joe Hall	-\$2,407		-\$5,075	-\$3,881	\$10,000	-\$2,500		\$141,137	9%		
Not	109 Bledsoe	\$404	\$10,000	-\$4,500	-\$3,346		-\$5,000		\$147.558	5%		



15. Matched Pair - Innovative Solar 42, County Line Rd, Fayetteville, NC

This project was built in 2017 and located on 413.99 acres for a 71 MW with the closest home at 135 feet from the closest solar panel with an average distance of 375 feet.

I considered the recent sales identified on the map above as Parcels 2 and 3, which is directly across the street these homes are 330 and 340 feet away. Parcel 2 includes an older home built in 1976, while Parcel 3 is a new home built in 2019. So the presence of the solar farm had no impact on new construction in the area.

The matched pairs for each of these are shown below. The landscaping buffer relative to these parcels is considered light.

Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other	Distanc
Adjoins	2923 County Ln	8.98	2/28/2019	\$385,000	1976	2,905	\$132.53	3/3	2-Car	Ranch	Brick/Pond	340
Not	1928 Shaw Mill	17.00	7/3/2019	\$290,000	1977	3,001	\$96.63	4/4	2-Car	Ranch	Brick/Pond/Rent	al
Not	2109 John McM.	7.78	4/25/2018	\$320,000	1978	2,474	\$129.35	3/2	Det Gar	Ranch	Vinyl/Pool,Stabl	e
											Avg	
Solar	Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	% Diff	
Adjoins	2923 County Ln								\$385,000)	3%	
Not	1928 Shaw Mill	-\$3,055	\$100,000	-\$1,450	-\$7,422	-\$10,000	C		\$368,074	4%		
Not	2109 John McM.	\$8,333		-\$3,200	\$39,023	\$10,000)	\$5,000	\$379,156	5 2%		
Adjoinir Solar Adjoins Not Not Not	ng Residential Sa Address 2935 County Ln 3005 Hemingway 7031 Glynn Mill 5213 Bree Brdg			Approved Sales Price \$266,000 \$269,000 \$255,000 \$260,000	Built 2019 2018 2017 2018	· ·	\$/GBA \$110.79 \$103.42 \$105.24 \$108.33	BR/BA 4/3 4/3 4/3 4/3	Park Gar Gar 3-Gar	Style 2-Story 2-Story 2-Story 2-Story	Other	Distance 330
Solar Adjoins Not Not Not	Address 2935 County Ln 3005 Hemingway 7031 Glynn Mill 5213 Bree Brdg	Acres 1.19 1.17 0.60 0.92	Date Sold 6/18/2019 5/16/2019 5/8/2018 5/7/2019	Sales Price \$266,000 \$269,000 \$255,000 \$260,000	2019 2018 2017 2018	2,401 2,601 2,423 2,400	\$110.79 \$103.42 \$105.24 \$108.33	4/3 4/3 4/3 4/3	Gar Gar Gar 3-Gar	2-Story 2-Story 2-Story 2-Story	Avg	
Solar Adjoins Not Not Not	Address 2935 County Ln 3005 Hemingway 7031 Glynn Mill 5213 Bree Brdg Address	Acres 1.19 1.17 0.60	Date Sold 6/18/2019 5/16/2019 5/8/2018	Sales Price \$266,000 \$269,000 \$255,000	2019 2018 2017 2018	2,401 2,601 2,423	\$110.79 \$103.42 \$105.24	4/3 4/3 4/3 4/3 Other	Gar Gar Gar 3-Gar Total	2-Story 2-Story 2-Story	Avg % Diff	
Solar Adjoins Not Not Not Solar Adjoins	Address 2935 County Ln 3005 Hemingway 7031 Glynn Mill 5213 Bree Brdg Address 2935 County Ln	Acres 1.19 1.17 0.60 0.92 Time	Date Sold 6/18/2019 5/16/2019 5/8/2018 5/7/2019	Sales Price \$266,000 \$269,000 \$255,000 \$260,000 YB	2019 2018 2017 2018 GLA	2,401 2,601 2,423 2,400	\$110.79 \$103.42 \$105.24 \$108.33	4/3 4/3 4/3 4/3 4/3 Other	Gar Gar 3-Gar Total \$266,000	2-Story 2-Story 2-Story 2-Story % Diff	Avg	
Solar Adjoins Not Not Not	Address 2935 County Ln 3005 Hemingway 7031 Glynn Mill 5213 Bree Brdg Address	Acres 1.19 1.17 0.60 0.92	Date Sold 6/18/2019 5/16/2019 5/8/2018 5/7/2019	Sales Price \$266,000 \$269,000 \$255,000 \$260,000 YB	2019 2018 2017 2018	2,401 2,601 2,423 2,400	\$110.79 \$103.42 \$105.24 \$108.33	4/3 4/3 4/3 4/3 4/3 Other	Gar Gar Gar 3-Gar Total	2-Story 2-Story 2-Story 2-Story	Avg % Diff	

Both of these matched pairs adjust to an average of +3% on impact for the adjoining solar farm, meaning there is a slight positive impact due to proximity to the solar farm. This is within the standard +/- of typical real estate transactions, which strongly suggests no impact on property value. I noted specifically that for 2923 County Line Road, the best comparable is 2109 John McMillan as it does not have the additional rental unit on it. I made no adjustment to the other sale for the value of that rental unit, which would have pushed the impact on that comparable downward – meaning there would have been a more significant positive impact.

Adjoining Residential Sales After Solar Farm Approved

16. Matched Pair - Sunfish Farm, Keenebec Rd, Willow Spring, NC



This project was built in 2015 and located on 49.6 acres (with an inset 11.25 acre parcel) for a 6.4 MW project with the closest home at 135 feet with an average distance of 105 feet.

I considered the 2017 sale identified on the map above, which is 205 feet away from the closest panel. The matched pairs for each of these are shown below followed by a more recent map showing the panels at this site. The average difference in the three comparables and the subject property is +3% after adjusting for differences in the sales date, year built, gross living area, and other minor differences. This data is supported by the comments from the broker Brian Schroepfer with Keller Williams that the solar farm had no impact on the purchase price. The landscaping screen is considered light.

Adjoini	ng Resid	iential Salo	es After S	Solar Far	m Approve	d							
Parcel	Solar	Addr	ess	Acres	Date Sold	Sales 1	Price	Built	GBA	\$/GBA	BR/BA	Park	Style
	Adjoins	7513 Gler	n Willow	0.79	9/1/2017	\$185,	,000	1989	1,492	\$123.99	3/2	Gar	BR/Rnch
	Not	2968 1	ſram	0.69	7/17/2017	′\$155,	,000	1984	1,323	\$117.16	3/2	Drive	BR/Rnch
	Not	205 Pin	e Burr	0.97	12/29/201	7 \$191,	,000	1991	1,593	\$119.90	3/2.5	Drive	BR/Rnch
	Not	1217 Old H	loneycutt	1.00	12/15/201	7 \$176,	,000	1978	1,558	\$112.97	3/2.5	2Carprt	VY/Rnch
Adjustn	nents												Avg
Solar	Ad	dress	Time	Site	YB	GLA	BR/B	A Paı	k O	ther 1	otal '	% Diff	% Diff
Adjoins	7513 Gl	len Willow								\$1	85,000		
Not	2968	8 Tram	\$601		\$3,875	\$15,840		\$10,	000	\$1	85,316	0%	
Not	205 P	ine Burr	-\$1,915		-\$1,910	-\$9,688	-\$5,00	0		\$1	72,487	7%	
Not	1217 Old	l Honeycut	-\$1,557		\$9,680	-\$5,965	-\$5,00	0	\$5	5,280 \$1	78,438	4%	

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This project is a 30 MW facility located on a 322.68-acre tract that was built in the fourth quarter of 2017.

I have considered the 2018 sale of Parcel 17 as shown below. This was a 1,900 s.f. manufactured home on a 6.00-acre lot that sold in 2018. I have compared that to three other nearby manufactured homes as shown below. The range of impacts is within typical market variation with an average of -1%, which supports a conclusion of no impact on property value. The landscaping buffer is considered medium.

Adjoin	ing Resi	dential	Sales Afte	r Solar F	arm Approv	ed							
Parcel	Solar	Ad	dress	Acres	Date Sold	Sales Price	Built	GBA	\$/GLA	BR/BA	Park	Style	Other
	Adjoins	12511	Palestine	6.00	7/31/2018	\$128,400	2013	1,900	\$67.58	4/2.5	Open	Manui	ſ
	Not	15698	Concord	3.92	7/31/2018	\$150,000	2010	2,310	\$64.94	4/2	Open	Manut	Fence
	Not	23209	Sussex	1.03	7/7/2020	\$95,000	2005	1,675	\$56.72	3/2	Det Crpt	Manut	
	Not	6494	Rocky Br	4.07	11/8/2018	\$100,000	2004	1,405	\$71.17	3/2	Open	Manut	
Adjoin	ning Sa	les Adj	justed								Av	g	
Tin	ne	Site	YB	GLA	BR/B	A Park	Othe	er 1	ſotal	% Diff	f % D	iff I	Distance
								\$1	28,400				1425
\$0)		\$2,250	-\$21,29	99 \$5,000)		\$1	35,951	-6%			
-\$5,6	560 \$	13,000	\$3,800	\$10,20	9 \$5,000	\$1,500		\$1	22,849	4%			
-\$84	43		\$4,500	\$28,18	5			\$1	31,842	-3%			
											-19	%	



This 5 MW project was built in 2019 and located on a portion of 49.83 acres.

Parcel 1 noted above along with the home on the adjoining parcel to the north of that parcel sold in late 2018 after this solar farm was approved but prior to construction being completed in 2019. I have considered this sale as shown below. The landscaping screen is considered light.

The comparable at 548 Trotman is the most similar and required the least adjustment shows no impact on property value. The other two comparables were adjusted consistently with one showing significant enhancement and another as showing a mild negative. The best indication is the one requiring the least adjustment. The other two sales required significant site adjustments which make them less reliable. The best comparable and the average of these comparables support a finding of no impact on property value.

Adjoining	g Resident	tial Sal	es After S	olar Farm	Approved	L								
Solar	Addre	ss	Acres	Date Sol	d Sales P	rice	Built	GBA	\$/G	LA BR/	BA	Park	Styl	e Other
Adjoins	122 N Mill	l Dam	12.19	11/29/20	18 \$350,0	000	2005	2,334	\$149	.96 3/3	.5	3-Gar	Ranc	h
Not	548 Trot	man	12.10	5/31/202	.8 \$309,0	000	2007	1,960	\$157	.65 4/	2	Det2G	Ranc	h Wrkshp
Not	198 Sand	Hills	2.00	12/22/20	17 \$235,0	000	2007	2,324	\$101	.12 4/	3	Open	Ranc	h
Not	140 Sleep	y Hlw	2.05	8/12/202	.9 \$330,0	000	2010	2,643	\$124	.86 4/	3	1-Gar	1.5 St	ory
•	ıg Sales A	•											Avg	
Addr		Time	Site	YB	GLA	BR/E	BA	Park	Other	Total	% E	Diff	% Diff	Distance
122 N Mi	ill Dam									\$350,000				342
548 Tro	tman \$	\$6,163		-\$3,090	\$35,377	\$5,00	00			\$352,450	-1	%		
198 San	d Hills 🖇	\$8,808	\$45,000	-\$2,350	\$607		\$	\$30,000		\$317,064	99	%		
140 Slee	py Hlw -	\$9,258	\$45,000	-\$8,250	-\$23,149	\$5,00	00 \$	\$30,000		\$369,343	-6	%		

1%



This 20 MW project was built in 2019 and located on a portion of 121 acres.

Parcels 40 and 50 have sold since construction began on this solar farm. I have considered both in matched pair analysis below. I note that the marketing for Parcel 40 (120 Par Four) identified the lack of homes behind the house as a feature in the listing. The marketing for Parcel 50 (269 Grandy) identified the property as "very private." Landscaping for both of these parcels is considered light.

Adjoining	g Reside	ential Sale	es After S	Solar Farm	Approved	4								
Solar	Add	ress	Acres	Date Solo	l Sales H	Price	Buil	t GBA	\$/G	LA BR/	BA 1	Park	Styl	e Other
Adjoins	120 Pa	ar Four	0.92	8/17/2019	9 \$315,	000	2006	5 2,188	\$143	.97 4/	/3 2	-Gar	1.5 St	ory Pool
Not	102 T	eague	0.69	1/5/2020	\$300,	000	2005	5 2,177	\$137	.80 3/	/2 D	et 3G	Ranc	h
Not	112 Me	adow Lk	0.92	2/28/2019	9 \$265,	000	1992	2,301	\$115	.17 3/	2	Gar	1.5 St	ory
Not	116 Ba	arefoot	0.78	9/29/2020	\$290,	000	2004	₽ 2,192	\$132	.30 4/	/3 2	l-Gar	2 Sto	ry
Adjoinin	g Sales	s Adjuste	d										Avg	
Addr	ess	Time	Site	YB	GLA	BR/I	BA	Park	Other	Total	% Di	ff 🤋	% Diff	Distance
120 Par	· Four									\$315,000				405
102 Tea	ague	-\$4,636		\$1,500	\$910	\$10,0	000		\$20,000	\$327,774	-4%			
112 Mea	dow Lk	\$4,937		\$18,550	-\$7,808	\$10,0	000	\$10,000	\$20,000	\$320,679	-2%			
116 Bar	refoot	-\$12,998		\$2,900	-\$318				\$20,000	\$299,584	5%			
													0%	

Adjoining	Reside	ntial Sale	es After \$	Solar Farm	Approved	1							
Solar	Add	ress	Acres	Date Sol	d Sales H	Price	Buil	t GBA	A \$/G	LA BR/	BA Par	k Sty	le Other
Adjoins	269 G	randy	0.78	5/7/2019	\$275,	000	2019	9 1,53	5 \$179	.15 3/2	2.5 2-G	ar Ran	ch
Not	307 G	randy	1.04	10/8/201	8 \$240,	000	2002	2 1,63	4 \$146	.88 3/	'2 Ga	r 1.5 St	tory
Not	103 B	ranch	0.95	4/22/202	0 \$230,	000	2000	0 1,53	2 \$150	.13 4/	2 2-G	ar 1.5 St	tory
Not	103 Sp	ring Lf	1.07	8/14/201	8 \$270,	000	2002	2 1,63	5 \$165	.14 3/	2 2-G	ar Ran	ch Pool
Adjoining	g Sales	Adjuste	d									Avg	
Addre	ess	Time	Site	YB	GLA	BR/	/BA	Park	Other	Total	% Diff	% Diff	Distance
269 Gra	andy									\$275,000			477
307 Gra	andy	\$5,550		\$20,400	-\$8,725	\$5,0	000	\$10,000		\$272,225	1%		
103 Bra	nch	-\$8,847		\$21,850	\$270					\$243,273	12%		
103 Spri	ng Lf	\$7,871		\$22,950	-\$9,908	\$5,0	000		-\$20,000	\$275,912	0%		
	U											4%	

Both of these matched pairs support a finding of no impact on value. This is reinforced by the listings for both properties identifying the privacy due to no housing in the rear of the property as part of the marketing for these homes.





This project is a 10 MW facility located on a 366.04-acre tract that was built in 2017.

I have considered the 2020 sale of an adjoining home located off 517 Old Charleston Road. Landscaping is considered light.

Adjoinin	ig Resident	ial Sales	After Sol	ar Farm A	pproved								
Solar	Addr	ess	Acres	Date So	old Sales	s Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
Adjoins	517 Old Ch	narleston	11.05	8/25/20	20 \$11	0,000	1962	925	\$118.92	3/1	Crport	Br Rnch	
Not	133 Buen	a Vista	2.65	6/21/20	20 \$11	5,000	1979	1,104	\$104.17	2/2	Crport	Br Rnch	
Not	214 Crys	tal Spr	2.13	6/10/20)19 \$10	2,500	1970	1,025	\$100.00	3/2	Crport	Rnch	
Not	1429 L	aurel	2.10	2/21/20)19 \$12	6,000	1960	1,250	\$100.80	2/1.5	Open	Br Rnch	3 Gar/Brn
Adjoinin	g Sales Adj	usted										Avg	
•	ig Sales Adj dress	usted Time	Site	YB	GLA	BR/I	BA	Park	Other	Total	% Diff	Avg % Diff	Distance
Add			Site	YB	GLA	BR/I	BA	Park	Other	Total \$110,000		-	Distance 505
Add 517 Old (dress		Site \$17,000	YB -\$9,775	GLA -\$14,917	BR/I -\$10,0		Park	Other			-	
Add 517 Old (133 Bud	dress Charleston	Time				•	000	Park	Other \$10,000	\$110,000	11%	-	
Add 517 Old (133 Bud 214 Cr	dress Charleston ena Vista	Time \$410	\$17,000	-\$9,775	-\$14,917	-\$10,0	000 000	Park \$5,000		\$110,000 \$97,718 \$110,882	11% -1%	-	

21. Matched Pair - Barefoot Bay Solar Farm, Barefoot Bay, FL



This project is located on 504 acres for a 704.5 MW facility. Most of the adjoining uses are medium density residential with some lower density agricultural uses to the southwest. This project was built in 2018. There is a new subdivision under development to the west.

I have considered a number of recent home sales from the Barefoot Bay Golf Course in the Barefoot Bay Recreation District. There are a number of sales of these mobile/manufactured homes along the eastern boundary and the lower northern boundary. I have compared those home sales to other similar homes in the same community but without the exposure to the solar farm. Staying within the same community keeps location and amenity impacts consistent. I did avoid any comparison with home sales with golf course or lakefront views as that would introduce another variable.

The six manufactured/double wide homes shown below were each compared to three similar homes in the same community and are consistently showing no impact on the adjoining property values. Based on the photos from the listings, there is limited but some visibility of the solar farm to the east, but the canal and landscaping between are providing a good visual buffer and actually are commanding a premium over the non-canal homes.

Landscaping for these adjoining homes is considered light, though photographs from the listings show that those homes on Papaya that adjoin the solar farm from east/west have no visibility of the solar farm and is effectively medium density due to the height differential. The homes that adjoin the solar farm from north/south along Papaya have some filtered view of the solar farm through the trees.

Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GLA	BR/BA	Park	Style	Other
14	Adjoins	465 Papaya Cr	0.12	7/21/2019	\$155,000	1993	1,104	\$140.40	2/2	Drive	Manuf	Canal
	Not	1108 Navajo	0.14	2/27/2019	\$129,000	1984	1,220	\$105.74	2/2	Crprt	Manuf	Canal
	Not	1007 Barefoot	0.11	9/3/2020	\$168,000	2005	1,052	\$159.70	2/2	Crprt	Manuf	Canal
	Not	1132 Waterway	y 0.11	7/10/2020	\$129,000	1982	1,012	\$127.47	2/2	Crprt	Manuf	Canal
Adjoin	ing Sale	s Adjusted									Avg	
	ldress	Time	YB	GLA	BR/BA	Park	Other	Tota		6 Diff	% Diff	Distance
	Papaya Cr		** ~~*	#0.040				\$155,0		100/		765
	3 Navajo	\$1,565	\$5,805	-\$9,812				\$126,		18%		
	Barefoot		\$10,080					\$158,'		-2%		
1132	Waterway	-\$3,859	\$7,095	\$9,382				\$141,0	518	9%	8%	
Adiaim	ing Booic	iential Sales A	Aton So		nnorod							
•	Solar	Address		-	Sales Price	Built	GBA	\$/GLA	BR/BA	Park	Style	Other
19	Adjoins	455 Papaya	0.12	9/1/2020	\$183,500	2005	1,620	\$113.27	3/2	Crprt	Manuf	Canal
	Not	938 Waterway		2/12/2020	\$160,000	1986	1,705	\$93.84	2/2	Crprt	Manuf	Canal
	Not	719 Barefoot	0.12	4/14/2020	\$150,000	1996	1,635	\$91.74	3/2	Crprt	Manuf	Canal
	Not	904 Fir	0.12		\$192,500	2010	1,626	\$118.39	3/2	Crprt	Manuf	Canal
	Not	501111	0.17	5/21/2020	φ192,000	2010	1,020	φ110.09	0/2	Cipit	manui	Canar
•	•	s Adjusted					.				Avg	
	ldress	Time	YB	GLA	BR/BA	Park	Other	Tota		6 Diff	% Diff	Distance 750
	Papaya	\$2,724	¢15 000	¢C 201				\$183,		70/		730
	Waterway Barefoot		\$15,200 \$6 750	-\$6,381				\$171, \$157,4		7%		
	04 Fir	\$1,770	\$6,750	-\$1,101 -\$568						14%		
9	04 111	-\$422	-\$4,813	-\$308				\$186,0	191	-2%	6%	
Adioin	ing Resid	lential Sales A	After So	lar Farm A	pproved							
•	Solar	Address		-	Sales Price	Built	GBA	\$/GLA	BR/BA	Park	Style	Other
37	Adjoins	419 Papaya	0.09	7/16/2019	\$127,500	1986	1,303	\$97.85	2/2	Crprt	Manuf	Green
	Not	865 Tamarind	0.12	2/4/2019	\$133,900	1995	1,368	\$97.88	2/2	Crprt	Manuf	Green
	Not	501 Papaya	0.10	6/15/2018	\$109,000	1986	1,234	\$88.33	2/2	Crprt	Manuf	
	Not	418 Papaya	0.09	8/28/2019	\$110,000	1987	1,248	\$88.14	2/2	Crprt	Manuf	
Adjoir	ing Sale	s Adjusted									Avg	
	ldress Papaya	Time	YB	GLA	BR/BA	Park	Other	Tota \$127,5		6 Diff	% Diff	Distance 690
865 1	Famarind	\$1,828	-\$6,026	-\$5,090				\$124,	613	2%		
000 1	Papaya	\$3,637	\$0	\$4,876			\$5,000	\$122,	513	4%		
			<i>MEEO</i>	\$2.070			\$5,000	\$117,9		8%		
501	Papava	-\$399	-\$330	DO.010								
501	Papaya	-\$399	-\$550	\$3,878							5%	
501 418		-\$399 iential Sales A			pproved						5%	
501 418 Adjoin			After So	lar Farm Aj	pproved Sales Price	Built	GBA		BR/BA		5% Style	Other
501 418 Adjoin	ing Resid	dential Sales A	After So	lar Farm Aj		Built 2001	GBA 918		BR/BA 2/2			Other Grn/Upd
501 418 Adjoin Parcel	ing Resid	lential Sales A Address	After So Acres	lar Farm Aj Date Sold	Sales Price			\$/GLA	-	Park	Style	

Adjoi	ning Sale	es Adjusted									Avg		
	Not	1367 Barefoot	0.10	1/12/2021	\$130,500	1987	902	\$144.68	2/2	Crprt	Manuf	Green/Upd	
	NOL	1119 Pocatella	0.19	1/5/2021	\$120,000	1995	999	φ120.12	2/2	Cipri	Manui	Green	

Adjoining Sales	Adjusted								Avg	
Address	Time	YB	GLA	BR/BA	Park	Other	Total	% Diff	% Diff	Distance
413 Papaya							\$130,000			690
341 Loquat	\$1,631	\$9,440	-\$6,777				\$122,294	6%		
1119 Pocatella	-\$1,749	\$4,800	-\$7,784			\$5,000	\$120,267	7%		
1367 Barefoot	-\$1,979	\$9,135	\$1,852				\$139,507	-7%		
									2%	

Adjoin	ning Resid	dential Sales A	After So	lar Farm Aj	proved							
Parce	l Solar	Address	Acres	Date Sold	Sales Price	e Built	GBA	\$/GLA	BR/BA	Park	Style	Other
48	Adjoins	343 Papaya	0.09	12/17/2019	\$145,000	1986	1,508	\$96.15	3/2	Crprt	Manuf	Gn/Fc/Upd
	Not	865 Tamarind	0.12	2/4/2019	\$133,900	1995	1,368	\$97.88	2/2	Crprt	Manuf	Green
	Not	515 Papaya	0.09	3/22/2018	\$145,000	2005	1,376	\$105.38	3/2	Crprt	Manuf	Green
	Not	849 Tamarind	0.15	6/26/2019	\$155,000	1997	1,716	\$90.33	3/2	Crprt	Manuf	Grn/Fnce
Adjoi	ning Sale:	s Adjusted									Avg	
	ddress 3 Papaya	Time	YB	GLA	BR/BA	Park	Other	Tot a \$145,		6 Diff	% Diff	Distance 690
865	Tamarind	\$3,566	-\$6,026	\$10,963				\$142,	403	2%		
515	5 Papaya	\$7,759 -	\$13,775	\$11,128				\$150,	112	-4%		
	Tamarind	\$2,273	-\$8,525	-\$15,030			\$5,000	\$138,	717	4%		
		. ,	. ,	. ,			. ,	. ,			1%	
•	0	dential Sales A		-	-			+ · ·				
	1 Solar	Address			Sales Price			••	BR/BA		Style	Other
52	Nearby	335 Papaya	0.09	4/17/2018	\$110,000	1987	1,180	\$93.22	2/2	Crprt	Manuf	Green
	Not	865 Tamarind		2/4/2019	\$133,900	1995	1,368	\$97.88	2/2	Crprt	Manuf	Green
	Not	501 Papaya	0.10	6/15/2018	\$109,000	1986	1,234	\$88.33	2/2	Crprt	Manuf	
	Not	604 Puffin	0.09	10/23/2018	\$110,000	1988	1,320	\$83.33	2/2	Crprt	Manuf	
Adjoi	ning Sale:	s Adjusted									Avg	
Α	ddress	Time	YB	GLA	BR/BA	Park	Other	Tota	al 9	6 Diff	% Diff	Distance
335	5 Papaya				-			\$110,	000			710
865	Tamarind	-\$3,306	-\$5,356	-\$14,721			\$0	\$110,	517	0%		
501	1 Papaya	-\$542	\$545	-\$3,816			\$5,000	\$110,	187	0%		
	4 Puffin	-\$1,752	-\$550	-\$9,333			\$5,000	\$103,	365	6%		
											2%	

I also identified a new subdivision being developed just to the west of this solar farm called The Lakes at Sebastian Preserve. These are all canal-lot homes that are being built with homes starting at \$271,000 based on the website and closed sales showing up to \$342,000. According to Monique, the onsite broker with Holiday Builders, the solar farm is difficult to see from the lots that back up to that area and she does not anticipate any difficulty in selling those future homes or lots or any impact on the sales price. The closest home that will be built in this development will be approximately 340 feet from the nearest panel.

Based on the closed home prices in Barefoot Bay as well as the broker comments and activity at The Lakes at Sebastian Preserve, the data around this solar farm strongly indicates no negative impact on property value.

22. Matched Pair - Miami-Dade Solar Farm, Miami, FL



This project is located on 346.80 acres for a 74.5 MW facility. All of the adjoining uses are agricultural and residential. This project was built in 2019.

I considered the recent sale of Parcel 26 to the south that sold for over \$1.6 million dollars. This home is located on 4.2 acres with additional value in the palm trees according to the listing. The comparables include similar homes nearby that are all actually on larger lots and several include avocado or palm tree income as well. All of the comparables are in similar proximity to the subject and all have similar proximity to the Miami-Dade Executive airport that is located 2.5 miles to the east.

These sales are showing no impact on the value of the property from the adjoining solar farm. The landscaping is considered light.

Adjoin	ing Reside	ential Sale	s After Se	olar Farm	Approved								
Parcel	Solar	Addre	SS	Acres I	Date Sold	Sales Price	Built	GBA	\$/GLA	BR/B	A Park	Style	Other
26	Adjoins	13600 SW	182nd	4.20	1/5/2020	\$1,684,000	2008	6,427	\$262.02	5/5.5	3 Gar	CBS Rncl	n Pl/Guest
	Not	18090 SW	158th	5.73	0/8/2020	\$1,050,000	1997	3,792	\$276.90	5/4	3 Gar	CBS Rncl	ı
	Not	14311 SW	187th	4.70 1	0/22/2020	\$1,100,000	2005	3,821	\$287.88	6/5	3 Gar	CBS Rncl	n Pool
	Not	17950 SW	158th	6.21 1	0/22/2020	\$1,730,000	2000	6,917	\$250.11	6/5.5	2 Gar	CBS Rncl	n Pool
Adjoin	ing Sales	Adjusted										Avg	
A	ddress	Time	Site	YB	GLA	BR/BA	Park	Oth	er To	tal	% Diff	% Diff	Distance
13600) SW 182nd	l							\$1,68	34,000			1390
18090) SW 158th	\$2,478		\$57,75	0 \$583,70	3 \$30,000			\$1,72	23,930	-2%		
14311	l SW 187th	\$1,298		\$16,50	0 \$600,17	78 \$10,000			\$1,72	27,976	-3%		

\$10,000

\$1,713,199

-2%

-2%

\$69,200 -\$98,043

\$2,041

17950 SW 158th



23. Matched Pair - Spotsylvania Solar, Paytes, VA

This solar farm is being built in four phases with the area known as Site C having completed construction in November 2020 after the entire project was approved in April 2019. Site C, also known as Pleinmont 1 Solar, includes 99.6 MW located in the southeast corner of the project and shown on the maps above with adjoining parcels 111 through 144. The entire Spotsylvania project totals 617 MW on 3500 acres out of a parent tract assemblage of 6,412 acres.

I have identified three adjoining home sales that occurred during construction and development of the site in 2020.

The first is located on the north side of Site A on Orange Plank Road. The second is located on Nottoway Lane just north of Caparthin Road on the south side of Site A and east of Site C. The third is located on Post Oak Road for a home that backs up to Site C that sold in September 2020 near the completion of construction for Site C.

Spotsylvania Solar Farm

Adjoining Soles Adjusted

Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
Adjoins	12901 Orng Plnk	5.20	8/27/2020	\$319,900	1984	1,714	\$186.64	3/2	Drive	1.5	Un Bsmt
Not	8353 Gold Dale	3.00	1/27/2021	\$415,000	2004	2,064	\$201.07	3/2	3 Gar	Ranch	
Not	6488 Southfork	7.26	9/9/2020	\$375,000	2017	1,680	\$223.21	3/2	2 Gar	1.5	Barn/Patio
Not	12717 Flintlock	0.47	12/2/2020	\$290,000	1990	1,592	\$182.16	3/2.5	Det Gar	Ranch	

ijusteu									
Time	Ac/Loc	YB	GLA	BR/BA	Park	Other	Total	% Diff	Dist
							\$319,900		1270
-\$5,219	\$20,000	-\$41,500	-\$56,298		-\$20,000		\$311,983	2%	
-\$401	-\$20,000	-\$61,875	\$6,071		-\$15,000		\$283,796	11%	
-\$2,312	\$40,000	-\$8,700	\$17,779	-\$5,000	-\$5,000		\$326,767	-2%	
	Time -\$5,219 -\$401	Time Ac/Loc -\$5,219 \$20,000 -\$401 -\$20,000	Time Ac/Loc YB -\$5,219 \$20,000 -\$41,500 -\$401 -\$20,000 -\$61,875	Time Ac/Loc YB GLA -\$5,219 \$20,000 -\$41,500 -\$56,298 -\$401 -\$20,000 -\$61,875 \$6,071	Time Ac/Loc YB GLA BR/BA -\$5,219 \$20,000 -\$41,500 -\$56,298 -\$401 -\$20,000 -\$61,875 \$6,071	Time Ac/Loc YB GLA BR/BA Park -\$5,219 \$20,000 -\$41,500 -\$56,298 -\$20,000 -\$401 -\$20,000 -\$61,875 \$6,071 -\$15,000	Time Ac/Loc YB GLA BR/BA Park Other -\$5,219 \$20,000 -\$41,500 -\$56,298 -\$20,000 -\$401 -\$20,000 -\$61,875 \$6,071 -\$15,000	Time Ac/Loc YB GLA BR/BA Park Other Total -\$5,219 \$20,000 -\$41,500 -\$56,298 -\$20,000 \$311,983 -\$401 -\$20,000 -\$61,875 \$6,071 -\$15,000 \$283,796	Time Ac/Loc YB GLA BR/BA Park Other Total % Diff -\$5,219 \$20,000 -\$41,500 -\$56,298 -\$20,000 \$311,983 2% -\$401 -\$20,000 -\$61,875 \$6,071 -\$15,000 \$283,796 11%

Average Diff 4%

Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
Adjoins	9641 Nottoway	11.00	5/12/2020	\$449,900	2004	3,186	\$141.21	4/2.5	Garage	2-Story	Un Bsmt
Not	26123 Lafayette	1.00	8/3/2020	\$390,000	2006	3,142	\$124.12	3/3.5	Gar/DtG	2-Story	
Not	11626 Forest	5.00	8/10/2020	\$489,900	2017	3,350	\$146.24	4/3.5	2 Gar	2-Story	
Not	10304 Pny Brnch	6.00	7/27/2020	\$485,000	1998	3,076	\$157.67	4/4	2Gar/Dt2	Ranch	Fn Bsmt

Adjoining Sales Adjusted												
Address	Time	Ac/Loc	YB	GLA	BR/BA	Park	Other	Total	% Diff	Dist		
9641 Nottoway								\$449,900		1950		
26123 Lafayette	-\$2,661	\$45,000	-\$3,900	\$4,369	-\$10,000	-\$5,000		\$417,809	7%			
11626 Forest	-\$3,624		-\$31,844	-\$19,187		-\$5,000		\$430,246	4%			
10304 Pny Brnch	-\$3,030		\$14,550	\$13,875	-\$15,000	-\$15,000	-\$10,000	\$470,396	-5%			

Average Diff 2%

Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
Adjoins	13353 Post Oak	5.20	9/21/2020	\$300,000	1992	2,400	\$125.00	4/3	Drive	2-Story	Fn Bsmt
Not	9609 Logan Hgt	5.86	7/4/2019	\$330,000	2004	2,352	\$140.31	3/2	2Gar	2-Story	
Not	12810 Catharpian	6.18	1/30/2020	\$280,000	2008	2,240	\$125.00	4/2.5	Drive	2-Story B	smt/Nd Pnt
Not	10725 Rbrt Lee	5.01	10/26/2020	\$295,000	1995	2,166	\$136.20	4/3	Gar	2-Story	Fn Bsmt

Adjoining Sales A	djusted									
Address	Time	Ac/Loc	YB	GLA	BR/BA	Park	Other	Total	% Diff	Dist
13353 Post Oak								\$300,000		1171
9609 Logan Hgt	\$12,070		-\$19,800	\$5,388		-\$15,000	\$15,000	\$327,658	-9%	
12810 Catharpian	\$5,408		-\$22,400	\$16,000	\$5,000		\$15,000	\$299,008	0%	
10725 Rbrt Lee	-\$849		-\$4,425	\$25,496		-\$10,000		\$305,222	-2%	
							Ave	erage Diff	-4%	

All three of these homes are well set back from the solar panels at distances over 1,000 feet and are well screened from the project. All three show no indication of any impact on property value.

Conclusion – SouthEast Over 5 MW

Southeast USA Over 5 MW Matched Pair Summary Ad												De diese (0	010 0000 D-4-V	
Mat	ched Pair Sun	imary				Торо	Adj. U	ses By	Acreage		1 mile	Med.	010-2020 Data) Avg. Housing	Veg.
	Name	City	State	Acres	мw	Shift	Res	Ag	Ag/Res	Com/Ind	Pop.	Income	Unit	Buffer
1	AM Best	Goldsboro	NC	38	5.00	2	38%	0%	23%	39%	1,523		\$148,375	Light
2	Mulberry	Selmer	TN	160	5.00	60	13%	73%	10%	3%	467	\$40,936	\$171,746	Lt to Med
3	Leonard	Hughesville	MD	47	5.00	20	18%	75%	0%	6%	525	\$106,550	\$350,000	Light
4	Gastonia SC	Gastonia	NC	35	5.00	48	33%	0%	23%	44%	4,689	\$35,057	\$126,562	Light
5	Summit	Moyock	NC	2,034	80.00	4	4%	0%	94%	2%	382	\$79,114	\$281,731	Light
6	Tracy	Bailey	NC	50	5.00	10	29%	0%	71%	0%	312	\$43,940	\$99,219	Heavy
7	Manatee	Parrish	FL	1,180	75.00	20	2%	97%	1%	0%	48	\$75,000	\$291,667	Heavy
8	McBride	Midland	NC	627	75.00	140	12%	10%	78%	0%	398	\$63,678	\$256,306	Lt to Med
9	Mariposa	Stanley	NC	36	5.00	96	48%	0%	52%	0%	1,716	\$36,439	\$137,884	Light
10	Clarke Cnty	White Post	VA	234	20.00	70	14%	39%	46%	1%	578	\$81,022	\$374,453	Light
11	Simon	Social Circle	GA	237	30.00	71	1%	63%	36%	0%	203	\$76,155	\$269,922	Medium
12	Candace	Princeton	NC	54	5.00	22	76%	24%	0%	0%	448	\$51,002	\$107,171	Medium
13	Walker	Barhamsville	VA	485	20.00	N/A	12%	68%	20%	0%	203	\$80,773	\$320,076	Light
14	Innov 46	Hope Mills	NC	532	78.50	0	17%	83%	0%	0%	2,247	\$58,688	\$183,435	Light
15	Innov 42	Fayetteville	NC	414	71.00	0	41%	59%	0%	0%	568	\$60,037	\$276,347	Light
16	Sunfish	Willow Spring	NC	50	6.40	30	35%	35%	30%	0%	1,515	\$63,652	\$253,138	Light
17	Sappony	Stony Crk	VA	322	20.00	N/A	2%	98%	0%	0%	74	\$51,410	\$155,208	Light
18	Camden Dam	Camden	NC	50	5.00	0	17%	72%	11%	0%	403	\$84,426	\$230,288	Light
19	Grandy	Grandy	NC	121	20.00	10	55%	24%	0%	21%	949	\$50,355	\$231,408	Light
20	Champion	Pelion	SC	100	10.00	N/A	4%	70%	8%	18%	1,336	\$46,867	\$171,939	Light
21	Barefoot Bay	Barefoot Bay	FL	504	74.50	0	11%	87%	0%	3%	2,446	\$36,737	\$143,320	Lt to Med
22	Miami-Dade	Miami	FL	347	74.50	0	26%	74%	0%	0%	127	\$90,909	\$403,571	Light
23	Spotyslvania	Paytes	VA	3,500	617.00	160	37%	52%	11%	0%	74	\$120,861	\$483,333	Md to Hvy
	Average			485	57.04	38	24%	48%	22%	6%	923	\$63,955	\$237,700	
	Median			234	20.00	20	17%	59%	11%	0%	467	\$60,037	\$231,408	
	High			3,500		160	76%	98%	94%	44%		\$120,861	\$483,333	
	Low			3,500	5.00	0	1%	0%	94% 0%	0%	48		\$99,219	
	LOW			55	0.00	0	1 /0	070	070	070	-10	φ00,007	ΨJJ,41J	

The solar farm matched pairs shown above have similar characteristics to each other in terms of population, but with several outliers showing solar farms in farm more urban areas. The median income for the population within 1 mile of a solar farm is \$60,037 with a median housing unit value of \$231,408. Most of the comparables are under \$300,000 in the home price, with \$483,333 being the high end of the set, though I have matched pairs in multiple states over \$1,000,000 adjoining solar farms. The adjoining uses show that residential and agricultural uses are the predominant adjoining uses. These figures are in line with the larger set of solar farms that I have looked at with the predominant adjoining uses being residential and agricultural and similar to the solar farm breakdown shown for Virginia and adjoining states as well as the proposed subject property.

Based on the similarity of adjoining uses and demographic data between these sites and the subject property, I consider it reasonable to compare these sites to the subject property.

I have pulled 56 matched pairs from the above referenced solar farms to provide the following summary of home sale matched pairs and land sales next to solar farms. The summary shows that the range of differences is from -10% to +10% with an average of +1% and median of +1%. This means that the average and median impact is for a slight positive impact due to adjacency to a solar farm. However, this +1 to rate is within the typical variability I would expect from real estate. I therefore conclude that this data shows no negative or positive impact due to adjacency to a solar farm.

While the range is seemingly wide, the graph below clearly shows that the vast majority of the data falls between -5% and +5% and most of those are clearly in the 0 to +5% range. This data strongly supports an indication of no impact on adjoining residential uses to a solar farm.

I therefore conclude that these matched pairs support a finding of no impact on value at the subject property for the proposed project, which as proposed will include a landscaped buffer to screen adjoining residential properties.



Residential Dwelling Matched Pairs Adjoining Solar Farms

Residential Dwelli	ng Matched P	airs Aujoi	ning So					Adj. Sale		Vor
Pair Solar Farm 1 AM Best	City Goldsboro	State NC	MW 5	Approx Distance 280	Tax ID/Address 3600195570	Date Sep-13	Sale Price \$250,000	-		Veg. Buffer Light
					3600198928	Mar-14	\$250,000	\$250,000	0%	-
2 AM Best	Goldsboro	NC	5	280	3600195361	Sep-13	\$260,000			Light
					3600194813	Apr-14	\$258,000	\$258,000	1%	
3 AM Best	Goldsboro	NC	5	280	3600199891	Jul-14	\$250,000			Light
					3600198928	Mar-14	\$250,000	\$250,000	0%	
4 AM Best	Goldsboro	NC	5	280	3600198632	Aug-14	\$253,000			Light
					3600193710	Oct-13	\$248,000	\$248,000	2%	
5 AM Best	Goldsboro	NC	5	280	3600196656	Dec-13	\$255,000			Light
					3601105180	Dec-13	\$253,000	\$253,000	1%	
6 AM Best	Goldsboro	NC	5	280	3600182511	Feb-13	\$247,000			Light
					3600183905	Dec-12	\$240,000	\$245,000	1%	
7 AM Best	Goldsboro	NC	5	280	3600182784	Apr-13	\$245,000			Light
					3600193710	Oct-13	\$248,000	\$248,000	-1%	
8 AM Best	Goldsboro	NC	5	280	3600195361	Nov-15	\$267,500			Light
					3600195361	Sep-13	\$260,000	\$267,800	0%	
9 Mulberry	Selmer	TN	5	400	0900A011	Jul-14	\$130,000			Light
					099CA043	Feb-15	\$148,900	\$136,988	-5%	
10 Mulberry	Selmer	TN	5	400	099CA002	Jul-15	\$130,000			Light
					0990NA040	Mar-15	\$120,000	\$121,200	7%	
11 Mulberry	Selmer	TN	5	480	491 Dusty	Oct-16	\$176,000			Light
					35 April	Aug-16	\$185,000	\$178,283	-1%	
12 Mulberry	Selmer	TN	5	650	297 Country	Sep-16	\$150,000			Medium
					53 Glen	Mar-17	\$126,000	\$144,460	4%	
13 Mulberry	Selmer	TN	5	685	57 Cooper	Feb-19	\$163,000			Medium
					191 Amelia	Aug-18	\$132,000	\$155,947	4%	
14 Leonard Rd	Hughesville	MD	5.5	230	14595 Box Elder	Feb-16	\$291,000			Light
					15313 Bassford Rd	Jul-16	\$329,800	\$292,760	-1%	
15 Neal Hawkins	Gastonia	NC	5	225	609 Neal Hawkins	Mar-17	\$270,000			Light
					1418 N Modena	Apr-18	\$225,000	\$242,520	10%	
16 Summit	Moyock	NC	80	1,060	129 Pinto	Apr-16	\$170,000			Light
					102 Timber	Apr-16	\$175,500	\$175,101	-3%	
17 Summit	Moyock	NC	80	980	105 Pinto	Dec-16	\$206,000			Light
					127 Ranchland	Jun-15	\$219,900	\$198,120	4%	
18 Tracy	Bailey	NC	5	780	9162 Winters	Jan-17	\$255,000			Heavy
					7352 Red Fox	Jun-16	\$176,000	\$252,399	1%	
19 Manatee	Parrish	FL	75	1180	13670 Highland	Aug-18	\$255,000			Heavy
					13851 Highland	Sep-18	\$240,000	\$255,825	0%	
20 McBride Place	Midland	NC	75	275	4380 Joyner	Nov-17	\$325,000			Medium
					3870 Elkwood	Aug-16	\$250,000	\$317,523	2%	
21 McBride Place	Midland	NC	75	505	5811 Kristi	Mar-20	\$530,000			Medium
					3915 Tania	Dec-19	\$495,000	\$504,657	5%	
22 Mariposa	Stanley	NC	5	1155	215 Mariposa	Dec-17	\$249,000			Light
					110 Airport	May-16	\$166,000	\$239,026	4%	
23 Mariposa	Stanley	NC	5	570	242 Mariposa	Sep-15	\$180,000			Light
-	Ū				110 Airport	Apr-16	\$166,000	\$175,043	3%	0
24 Clarke Cnty	White Post	VA	20	1230	833 Nations Spr	Jan-17	\$295,000			Light
5					6801 Middle	Dec-17	\$249,999	\$296,157	0%	0
25 Candace	Princeton	NC	5	488	499 Herring	Sep-17	\$215,000			Medium
					1795 Bay Valley	Dec-17	\$194,000	\$214,902	0%	
26 Walker	Barhamsville	VA	20	250	5241 Barham	Oct-18	\$264,000	. ,		Light
					9252 Ordinary	Jun-19	\$277,000	\$246,581	7%	0.
27 AM Best	Goldsboro	NC	5	385	103 Granville Pl	Jul-18	\$265,000			Light
2 2000	_51455010		0	000	2219 Granville	Jan-18	\$260,000	\$265,682	0%	9
28 AM Best	Goldsboro	NC	5	315	104 Erin	Jun-17	\$280,000			Light
20 1 2000			-	- 10	2219 Granville	Jan-18	\$265,000	\$274,390	2%	-0
29 AM Best	Goldsboro	NC	5	400	2312 Granville	May-18	\$284,900	÷=: 1,090		Light
25 min 2000	_51455010		0	.00	2219 Granville	Jan-18	\$265,000	\$273,948	4%	9
					010111110	5411 10	<i>~</i> 200,000	~ <u>_</u> .0,>10	170	

Residential Dwelling Matched Pairs Adjoining Solar Farms

Residential Dwelli	ing matcheu i	ans Aujon	ining out	Approx				Adj. Sale		Veg.
Pair Solar Farm 30 AM Best	City Goldsboro	State NC	MW 5		Tax ID/Address 2310 Granville	Date May-19	Sale Price \$280,000	•	% Diff	Buffer Light
					634 Friendly	Jul-19	\$267,000	\$265,291	5%	
31 Summit	Moyock	NC	80	570	318 Green View	Sep-19	\$357,000			Light
					336 Green View	Jan-19	\$365,000	\$340,286	5%	
32 Summit	Moyock	NC	80	440	164 Ranchland	Apr-19	\$169,000			Light
					105 Longhorn	Oct-17	\$184,500	\$186,616	-10%	
33 Summit	Moyock	NC	80	635	358 Oxford	Sep-19	\$478,000			Light
					176 Providence	Sep-19	\$425,000	\$456,623	4%	
34 Summit	Moyock	NC	80	970	343 Oxford	Mar-17	\$490,000			Light
					218 Oxford	Apr-17	\$525,000	\$484,064	1%	
35 Innov 46	Hope Mills	NC	78.5	435	6849 Roslin Farm	Feb-19	\$155,000			Light
					109 Bledsoe	Jan-19	\$150,000	\$147,558	5%	
36 Innov 42	Fayetteville	NC	71	340	2923 County Line	Feb-19	\$385,000			Light
					2109 John McMillan	Apr-18	\$320,000	\$379,156	2%	
37 Innov 42	Fayetteville	NC	71	330	2935 County Line	Jun-19	\$266,000			Light
					7031 Glynn Mill	May-18	\$255,000	\$264,422	1%	
38 Sunfish	Willow Sprng	NC	6.4	205	7513 Glen Willow	Sep-17	\$185,000			Light
					205 Pine Burr	Dec-17	\$191,000	\$172,487	7%	
39 Neal Hawkins	s Gastonia	NC	5	145	611 Neal Hawkins	Jun-17	\$288,000			Light
					1211 Still Forrest	Jul-18	\$280,000	\$274,319	5%	
40 Clarke Cnty	White Post	VA	20	1230	833 Nations Spr	Aug-19	\$385,000			Light
					2393 Old Chapel	Aug-20	\$330,000	\$389,286	-1%	
41 Sappony	Stony Creek	VA	20	1425	12511 Palestine	Jul-18	\$128,400			Medium
					6494 Rocky Branch	Nov-18	\$100,000	\$131,842	-3%	
42 Camden Dam	Camden	NC	5	342	122 N Mill Dam	Nov-18	\$350,000			Light
					548 Trotman	May-18	\$309,000	\$352,450	-1%	
43 Grandy	Grandy	NC	20	405	120 Par Four	Aug-19	\$315,000			Light
					116 Barefoot	Sep-20	\$290,000	\$299,584	5%	
44 Grandy	Grandy	NC	20	477	269 Grandy	May-19	\$275,000			Light
					103 Spring Leaf	Aug-18	\$270,000	\$275,912	0%	
45 Champion	Pelion	SC	10	505	517 Old Charleston	Aug-20	\$110,000			Light
					1429 Laurel	Feb-19	\$126,000	\$107,856	2%	
46 Barefoot Bay	Barefoot Bay	FL	74.5	765	465 Papaya	Jul-19	\$155,000			Medium
					1132 Waterway	Jul-20	\$129,000	\$141,618	9%	
47 Barefoot Bay	Barefoot Bay	FL	74.5	750	455 Papaya	Sep-20	\$183,500			Medium
					904 Fir	Sep-20	\$192,500	\$186,697	-2%	
48 Barefoot Bay	Barefoot Bay	FL	74.5	690	419 Papaya	Jul-19	\$127,500	****		Medium
					865 Tamarind	Feb-19	\$133,900	\$124,613	2%	
49 Barefoot Bay	Barefoot Bay	FL	74.5	690	413 Papaya	Jul-20	\$130,000			Medium
				600	1367 Barefoot	Jan-21	\$130,500	\$139,507	-7%	- · · ·
50 Barefoot Bay	Bareloot Bay	FL	74.5	690	343 Papaya	Dec-19	\$145,000	<i><i>†</i> , , , , , , , , , ,</i>		Light
51 D () D				-10	865 Tamarind	Feb-19	\$133,900	\$142,403	2%	- · · ·
51 Barefoot Bay	Bareloot Bay	FL	74.5	710	335 Papaya	Apr-18	\$110,000		00/	Light
50.14° - D 1		171		1000	865 Tamarind	Feb-19	\$133,900	\$110,517	0%	
52 Miami-Dade	Miami	FL	74.5	1390	13600 SW 182nd	Nov-20	\$1,684,000	#1 712 100		Light
50.0 1 1	D (***	617	1070	17950 SW 158th	Oct-20		\$1,713,199	-2%	
53 Spotsylvania	raytes	VA	617	1270	12901 Orange Plnk	Aug-20	\$319,900	\$20C 7C7	00/	Medium
54.0 1 1	D (***	617	1050	12717 Flintlock	Dec-20	\$290,000	\$326,767	-2%	
54 Spotsylvania	Paytes	VA	617	1950	9641 Nottoway	May-20	\$449,900	\$400.04C	407	Medium
FF 0	Deartes	3.7.4	617	1171	11626 Forest	Aug-20	\$489,900	\$430,246	4%	
55 Spotsylvania	Paytes	VA	617	1171	13353 Post Oak	Sep-20	\$300,000	\$000 000	00/	Heavy
FC M-D 11 D	M. H. J	NO	75	470	12810 Catharpin	Jan-20	\$280,000	\$299,008	0%	T today
56 McBride Place	e miniand	NC	75	470	5833 Kristi 4055 Deltoite	Sep-20	\$625,000	¢E04 202	E0/	Light
					4055 Dakeita	Dec-20	\$600,000	\$594,303	5%	

	Avg.		Indicated
MW	Distance		Impact
64.91	612	Average	1%
20.00	479	Median	1%
617.00	1,950	High	10%
5.00	145	Low	-10%

I have further broken down these results based on the MWs, Landscaping, and distance from panel to show the following range of findings for these different categories.

Most of the findings are for homes between 201 and 500 feet. Most of the findings are for Light landscaping screens.

Light landscaping screens are showing no impact on value at any distances, including for solar farms over 75.1 MW.

MW Range									
4.4 to 10 Landscaping	Light	Light	Light	Medium	Medium	Medium	Heavy	Heavy	Heavy
Distance	100-200	201-500	500+	100-200	201-500	500+	100-200	201-500	неаvу 500+
#	1	19	2	0	1	2	0	0	1
	1	19	-	Ũ	-	-	0	Ū	1
Average	5%	2%	3%	N/A	0%	4%	N/A	N/A	1%
Median	5%	1%	3%	N/A	0%	4%	N/A	N/A	1%
High	5%	10%	4%	N/A	0%	4%	N/A	N/A	1%
Low	5%	-5%	3%	N/A	0%	4%	N/A	N/A	1%
10.1 to 30									
Landscaping	Light	Light	Light	Medium	Medium	Medium	Heavy	Heavy	Heavy
Distance	100-200	201-500	500+	100-200	201-500	500+	100-200	201-500	500+
#	0	3	2	0	0	1	0	0	0
Average	N/A	4%	-1%	N/A	N/A	-3%	N/A	N/A	N/A
Median	N/A	5%	-1%	N/A	N/A	-3%	N/A	N/A	N/A
High	N/A	7%	0%	N/A	N/A	-3%	N/A	N/A	N/A
Low	N/A	0%	-1%	N/A	N/A	-3%	N/A	N/A	N/A
30.1 to 75									
Landscaping	Light	Light	Light	Medium	Medium	Medium	Heavy	Heavy	Heavy
Distance	100-200	201-500	500+	100-200	201-500	500+	100-200	201-500	500+
#	0	2	3	0	0	4	0	0	0
Average	N/A	1%	0%	N/A	N/A	0%	N/A	N/A	N/A
Median	N/A	1%	0%	N/A	N/A	0%	N/A	N/A	N/A
High	N/A	2%	2%	N/A	N/A	9%	N/A	N/A	N/A
Low	N/A	1%	-2%	N/A	N/A	-7%	N/A	N/A	N/A
75.1+									
Landscaping	Light	Light	Light	Medium	Medium	Medium	Heavy	Heavy	Heavy
Distance	100-200	201-500	500+	100-200	201-500	500+	100-200	201-500	500+
#	0	2	5	0	0	2	0	0	1
Average	N/A	-3%	2%	N/A	N/A	1%	N/A	N/A	0%
Median	N/A	-3%	4%	N/A	N/A	1%	N/A	N/A	0%
High	N/A	5%	5%	N/A	N/A	4%	N/A	N/A	0%
Low	N/A	-10%	-3%	N/A	N/A	-2%	N/A	N/A	0%

C. Summary of National Data on Solar Farms

I have worked in 19 states related to solar farms and I have been tracking matched pairs in most of those states. On the following pages I provide a brief summary of those findings showing 37 solar farms over 5 MW studied with each one providing matched pair data supporting the findings of this report.

The solar farms summary is shown below with a summary of the matched pair data shown on the following page.

Mat	ched Pair Sum	mary					Adj. Us	es By	Acreage		1 mile F	Radius (20	10-2020 Data)	
						Торо						Med.	Avg. Housing	
	Name	City	State	Acres	мw	Shift	Res	Ag	Ag/Res	Com/Ind	Popl.	Income	Unit	Veg. Buffer
1	AM Best	Goldsboro	NC	38	5.00	2	38%	0%	23%	39%	1,523	\$37,358	\$148,375	Light
2	Mulberry	Selmer	TN	160	5.00	60	13%	73%	10%	3%	467	\$40,936	\$171,746	Lt to Med
3	Leonard	Hughesville	MD	47	5.00	20	18%	75%	0%	6%	525	\$106,550	\$350,000	Light
4	Gastonia SC	Gastonia	NC	35	5.00	48	33%	0%	23%	44%	4,689	\$35,057	\$126,562	Light
5	Summit	Moyock	NC	2,034	80.00	4	4%	0%	94%	2%	382	\$79,114	\$281,731	Light
7	Tracy	Bailey	NC	50	5.00	10	29%	0%	71%	0%	312	\$43,940	\$99,219	Heavy
8	Manatee	Parrish	FL	1,180	75.00	20	2%	97%	1%	0%	48	\$75,000	\$291,667	Heavy
9	McBride	Midland	NC	627	75.00	140	12%	10%	78%	0%	398	\$63,678	\$256,306	Lt to Med
10	Grand Ridge	Streator	IL	160	20.00	1	8%	87%	5%	0%	96	\$70,158	\$187,037	Light
11	Dominion	Indianapolis	IN	134	8.60	20	3%	97%	0%	0%	3,774	\$61,115	\$167,515	Light
12	Mariposa	Stanley	NC	36	5.00	96	48%	0%	52%	0%	1,716	\$36,439	\$137,884	Light
13	Clarke Cnty	White Post	VA	234	20.00	70	14%	39%	46%	1%	578	\$81,022	\$374,453	Light
14	Flemington	Flemington	NJ	120	9.36	N/A	13%	50%	28%	8%	3,477	\$105,714	\$444,696	Lt to Med
15	Frenchtown	Frenchtown	NJ	139	7.90	N/A	37%	35%	29%	0%	457	\$111,562	\$515,399	Light
16	McGraw	East Windsor	NJ	95	14.00	N/A	27%	44%	0%	29%	7,684	\$78,417	\$362,428	Light
17	Tinton Falls	Tinton Falls	NJ	100	16.00	N/A	98%	0%	0%	2%	4,667	\$92,346	\$343,492	Light
18	Simon	Social Circle	GA	237	30.00	71	1%	63%	36%	0%	203	\$76,155	\$269,922	Medium
19	Candace	Princeton	NC	54	5.00	22	76%	24%	0%	0%	448	\$51,002	\$107,171	Medium
20	Walker	Barhamsville	VA	485	20.00	N/A	12%	68%	20%	0%	203	\$80,773	\$320,076	Light
21	Innov 46	Hope Mills	NC	532	78.50	0	17%	83%	0%	0%	2,247	\$58,688	\$183,435	Light
22	Innov 42	Fayetteville	NC	414	71.00	0	41%	59%	0%	0%	568	\$60,037	\$276,347	Light
23	Demille	Lapeer	MI	160	28.40	10	10%	68%	0%	22%	2,010	\$47,208	\$187,214	Light
24	Turrill	Lapeer	MI	230	19.60	10	75%	59%	0%	25%	2,390	\$46,839	\$110,361	Light
25	Sunfish	Willow Spring	NC	50	6.40	30	35%	35%	30%	0%	1,515	\$63,652	\$253,138	Light
26	Picture Rocks	Tucson	AZ	182	20.00	N/A	6%	88%	6%	0%	102	\$81,081	\$280,172	None
27	Avra Valley	Tucson	AZ	246	25.00	N/A	3%	94%	3%	0%	85	\$80,997	\$292,308	None
28	Sappony	Stony Crk	VA	322	20.00	N/A	2%	98%	0%	0%	74	\$51,410	\$155,208	Medium
29	Camden Dam	Camden	NC	50	5.00	0	17%	72%	11%	0%	403	\$84,426	\$230,288	Light
30	Grandy	Grandy	NC	121	20.00	10	55%	24%	0%	21%	949	\$50,355	\$231,408	Light
31	Champion	Pelion	SC	100	10.00	N/A	4%	70%	8%	18%	1,336	\$46,867	\$171,939	Light
32	Eddy II	Eddy	TX	93	10.00	N/A	15%	25%	58%	2%	551	\$59,627	\$139,088	Light
33	Somerset	Somerset	TX	128	10.60	N/A	5%	95%	0%	0%	1,293	\$41,574	\$135,490	Light
34	DG Amp Piqua	Piqua	OH	86	12.60	2	26%	16%	58%	0%	6,735	\$38,919	\$96,555	Light
45	Barefoot Bay	Barefoot Bay	FL	504	74.50	0	11%	87%	0%	3%	2,446	\$36,737	\$143,320	Lt to Med
36	Miami-Dade	Miami	FL	347	74.50	0	26%	74%	0%	0%	127	\$90,909	\$403,571	Light
37	Spotyslvania	Paytes	VA	3,500	617.00	160	37%	52%	11%	0%	74	\$120,861	\$483,333	Med to Hvy
	Average			362	42.05	32	24%	52%	19%	6%	1,515	\$66,292	\$242,468	
	Median			150	17.80	10	16%	59%	7%	0%	560	\$62,384	\$230,848	
	High			3,500	617.00	160	98%	98%	94%	44%	7,684	\$120,861	\$515,399	
	Low			35	5.00	0	1%	0%	0%	0%	48	\$35,057	\$96,555	

From these 37 solar farms, I have derived 94 matched pairs. The matched pairs show no negative impact at distances as close as 105 feet between a solar panel and the nearest point on a home. The range of impacts is -10% to +10% with an average and median of +1%.

		Avg.		Indicated
	MW	Distance		Impact
Average	44.80	569	Average	1%
Median	14.00	400	Median	1%
High	617.00	1,950	High	10%
Low	5.00	145	Low	-10%

While the range is broad, the two charts below show the data points in range from lowest to highest. There is only 3 data points out of 94 that show a negative impact. The rest support either a finding of no impact or 9 of the data points suggest a positive impact due to adjacency to a solar farm. As discussed earlier in this report, I consider this data to strongly support a finding of no impact on value as most of the findings are within typical market variation and even within that, most are mildly positive findings.



D. Larger Solar Farms

I have also considered larger solar farms to address impacts related to larger projects. Projects have been increasing in size and most of the projects between 100 and 1000 MW are newer with little time for adjoining sales. I have included a breakdown of solar farms with 20 MW to 80 MW facilities with one 617 MW facility.

Mat	ched Pair Sun	1mary - @20 M	W And	Larger		Adj. Uses By Acreage					1 mile			
						Торо						Med.	Avg. Housing	Veg.
	Name	City	State	Acres	MW	Shift	Res	Ag	Ag/Res	Com/Ind	Popl.	Income	Unit	Buffer
1	Summit	Moyock	NC	2,034	80.00	4	4%	0%	94%	2%	382	\$79,114	\$281,731	Light
2	Manatee	Parrish	FL	1,180	75.00	20	2%	97%	1%	0%	48	\$75,000	\$291,667	Heavy
3	McBride	Midland	NC	627	75.00	140	12%	10%	78%	0%	398	\$63,678	\$256,306	Lt to Med
4	Grand Ridge	Streator	IL	160	20.00	1	8%	87%	5%	0%	96	\$70,158	\$187,037	Light
5	Clarke Cnty	White Post	VA	234	20.00	70	14%	39%	46%	1%	578	\$81,022	\$374,453	Light
6	Simon	Social Circle	GA	237	30.00	71	1%	63%	36%	0%	203	\$76,155	\$269,922	Medium
7	Walker	Barhamsville	VA	485	20.00	N/A	12%	68%	20%	0%	203	\$80,773	\$320,076	Light
8	Innov 46	Hope Mills	NC	532	78.50	0	17%	83%	0%	0%	2,247	\$58,688	\$183,435	Light
9	Innov 42	Fayetteville	NC	414	71.00	0	41%	59%	0%	0%	568	\$60,037	\$276,347	Light
10	Demille	Lapeer	MI	160	28.40	10	10%	68%	0%	22%	2,010	\$47,208	\$187,214	Light
11	Turrill	Lapeer	MI	230	19.60	10	75%	59%	0%	25%	2,390	\$46,839	\$110,361	Light
12	Picure Rocks	Tucson	AZ	182	20.00	N/A	6%	88%	6%	0%	102	\$81,081	\$280,172	Light
13	Avra Valley	Tucson	AZ	246	25.00	N/A	3%	94%	3%	0%	85	\$80,997	\$292,308	None
14	Sappony	Stony Crk	VA	322	20.00	N/A	2%	98%	0%	0%	74	\$51,410	\$155,208	None
15	Grandy	Grandy	NC	121	20.00	10	55%	24%	0%	21%	949	\$50,355	\$231,408	Medium
16	Barefoot Bay	Barefoot Bay	FL	504	74.50	0	11%	87%	0%	3%	2,446	\$36,737	\$143,320	Lt to Med
17	Miami-Dade	Miami	FL	347	74.50	0	26%	74%	0%	0%	127	\$90,909	\$403,571	Light
18	Spotyslvania	Paytes	VA	3,500	617.00	160	37%	52%	11%	0%	74	\$120,861	\$483,333	Med to Hvy
	Average			640	76.03		19%	64%	17%	4%	721	\$69,501	\$262,659	
	Median			335	29.20		12%	68%	2%	0%	293	\$72,579	\$273,135	
	High			3,500	617.00		75%	98%	94%	25%		\$120,861	\$483,333	
	Low			121	19.60		1%	0%	0%	0%	48	\$36,737	\$110,361	

The breakdown of adjoining uses, population density, median income and housing prices for these projects are very similar to those of the larger set. The matched pairs for each of these were considered earlier and support a finding of no negative impact on the adjoining home values.

I have included a breakdown of solar farms with 50 MW to 617 MW facilities adjoining.

Mat	ched Pair Sum	nmary - @50 M	W And	Larger		4	Adj. Us	es By A	creage		1 mile			
						Торо						Med.	Avg. Housing	Veg.
	Name	City	State	Acres	MW	Shift	Res	Ag	Ag/Res	Com/Ind	Popl.	Income	Unit	Buffer
1	Summit	Moyock	NC	2,034	80.00	4	4%	0%	94%	2%	382	\$79,114	\$281,731	Light
2	Manatee	Parrish	FL	1,180	75.00	20	2%	97%	1%	0%	48	\$75,000	\$291,667	Heavy
3	McBride	Midland	NC	627	75.00	140	12%	10%	78%	0%	398	\$63,678	\$256,306	Lt to Med
4	Innov 46	Hope Mills	NC	532	78.50	0	17%	83%	0%	0%	2,247	\$58,688	\$183,435	Light
5	Innov 42	Fayetteville	NC	414	71.00	0	41%	59%	0%	0%	568	\$60,037	\$276,347	Light
6	Barefoot Bay	Barefoot Bay	FL	504	74.50	0	11%	87%	0%	3%	2,446	\$36,737	\$143,320	Lt to Med
7	Miami-Dade	Miami	FL	347	74.50	0	26%	74%	0%	0%	127	\$90,909	\$403,571	Light
8	Spotyslvania	Paytes	VA	3,500	617.00	160	37%	52%	11%	0%	74	\$120,861	\$483,333	Med to Hvy
	Average			1,142	143.19		19%	58%	23%	1%	786	\$73,128	\$289,964	
	Median			580	75.00		15%	67%	0%	0%	390	\$69,339	\$279,039	
	High			3,500	617.00		41%	97%	94%	3%	2,446	\$120,861	\$483,333	
	Low			347	71.00		2%	0%	0%	0%	48	\$36,737	\$143,320	

The breakdown of adjoining uses, population density, median income and housing prices for these projects are very similar to those of the larger set. The matched pairs for each of these were considered earlier and support a finding of no negative impact on the adjoining home values.

The data for these larger solar farms is shown in the SE USA and the National data breakdowns with similar landscaping, setbacks and range of impacts that fall mostly in the +/-5% range as can be seen earlier in this report.

On the following page I show 81 projects ranging in size from 50 MW up to 1,000 MW with an average size of 111.80 MW and a median of 80 MW. The average closest distance for an adjoining home is 263 feet, while the median distance is 188 feet. The closest distance is 57 feet. The mix of adjoining uses is similar with most of the adjoining uses remaining residential or agricultural in nature. This is the list of solar farms that I have researched for possible matched pairs and not a complete list of larger solar farms in those states.

Parcel #	State	City	Name	-	Total Acres		Avg. Dist to home		Res	Agri	Ag/R	Com
78	NC	Moyock	Summit/Ranchland	80	2034		674	360	4%	94%	0%	2%
133	MS	Hattiesburg	Hattiesburg	50	1129	479.6	650	315	35%	65%	0%	0%
179	SC	Ridgeland	Jasper	140	1600	1000	461	108	2%	85%	13%	0%
211	NC	Enfield	Chestnut	75	1428.1		1,429	210	4%	96%	0%	0%
222	VA	Chase City	Grasshopper	80	946.25				6%	87%	5%	1%
226	VA	Louisa	Belcher	88	1238.1			150	19%	53%	28%	0%
305		Dade City	Mountain View	55	347.12		510	175	32%	39%	21%	8%
319	FL	Jasper	Hamilton	74.9	1268.9	537	3,596	240	5%	67%	28%	0%
336		Parrish	Manatee	74.5	1180.4		1,079	625	2%	50%	1%	47%
337		Arcadia	Citrus	74.5	640				0%	0%	100%	0%
338		Port Charlotte	Babcock	74.5	422.61				0%	0%	100%	0%
	VA	Oak Hall	Amazon East(ern sh		1000		645	135	8%	75%	17%	0%
	VA	Stevensburg	Greenwood	100	2266.6	1800	788	200	8%	62%	29%	0%
	NC	Warsaw	Warsaw	87.5	585.97	499	526	130	11%	66%	21%	3%
	NC	Ellerbe	Innovative Solar 34	50	385.24		N/A	N/A	1%	99%	0%	0%
	NC	Midland	McBride	74.9	974.59		1,425	140	12%	78%	9%	0%
400		Mulberry	Alafia	51	420.35		490	105	7%	90%	3%	0%
406		Clover	Foxhound	91	1311.8		885	185	5%	61%	17%	18%
410		Trenton	Trenton	74.5	480		2,193	775	0%	26%	55%	19%
	NC	Battleboro	Fern	100		960.71	1,494	220	5%	76%	19%	0%
	MD	Goldsboro	Cherrywood	202		1073.7	429	200	10%	76%	13%	0%
	NC	Conetoe	Conetoe	80	1389.9	910.6	1,152	120	5%	78%	17%	0%
440		Debary	Debary	74.5	844.63		654	190	3%	27%	0%	70%
441		Hawthorne	Horizon	74.5	684				3%	81%	16%	0%
	VA	Newsoms	Southampton	100	3243.9		-	-	3%	78%	17%	3%
	VA	Stuarts Draft	Augusta	125	3197.4		588	165	16%	61%	16%	7%
	NC	Misenheimer	Misenheimer 2018	80	740.2		504	130	11%	40%	22%	27%
	VA	Shacklefords	Walnut	110	1700		641	165	14%	72%	13%	1%
	VA	Clover	Piney Creek	80	776.18		523	195	15%	62%	24%	0%
	NC	Scotland Neck	American Beech	160		1807.8	1,262	205	2%	58%	38%	3%
	NC	Reidsville	Williamsburg	80	802.6		734	200	25%	12%	63%	0%
	VA	Luray	Cape	100	566.53		519	110	42%	12%	46%	0%
	VA	Emporia	Fountain Creek	80	798.3	595	862	300	6%	23%	71%	0%
	NC	Plymouth	Macadamia	484		4813.5	1,513	275	1%	90%	9%	0%
	NC	Mooresboro	Broad River	50	759.8	365	419	70	29%	55%	16%	0%
555		Mulberry	Durrance	74.5		324.65	438	140	3%	97%	0%	0%
	NC	Yadkinville Enfield	Sugar Halifax 80mw 2019	60 80	477	357	382	65	19%	39%	20%	22% 0%
	N C VA	Windsor	Windsor	85		1007.6	672 572	190 160	8% 9%	73% 67%	19%	0%
	VA VA	Pavtes	Spotsylvania	85 500	564.1 6412	564.1 3500	512	100	9% 9%	52%	24% 11%	27%
		5					120	05				21% 0%
	NC NC	Salisbury Walnut Cove	China Grove Lick Creek	65 50		324.26 185.11	438 410	85 65	58% 20%	4% 64%	38% 11%	0% 5%
	NC	Enfield	Sweetleaf	94	1956.3	1250	968	160	20 %	63%	32%	0%
	VA	Aylett	Sweet Sue	94 77	1950.5		908 1,617	680	5% 7%	68%	32% 25%	0%
	NC	Windsor	Sumac	120		1257.9	876	160	4%	90%	23% 6%	0%
	TN	Somerville	Yum Yum	120	4000		1,862	330	4 % 3%	32%	64%	1%
	GA	Waynesboro	White Oak	76.5	516.7		2,995	1,790	1%	34%	65%	0%
	GA	Butler	Butler GA	103		2395.1	1,534	255	2%	73%	23%	2%
	GA	Butler	White Pine	101.2		2393.1 505.94	1,044	100	1%	51%	48%	1%
	GA	Metter	Live Oak	51		417.84	910	235	4%	72%	23%	0%
	GA	Hazelhurst	Hazelhurst II	52.5		490.42	2,114	105	9%	64%	23% 27%	0%
	GA	Bainbridge	Decatur Parkway	80	781.5		1,123	450	2%	27%	22%	49%
	GA	Leslie-DeSoto	Americus	1000	9661.2		5,210	430 510	2% 1%	63%	22% 36%	49%
616		Fort White		74.5			5,210 828		12%			
	VA		Fort White Loblolly	74.5 150	570.5 2181.9	457.2 1000	828 1,860	220 110	12% 7%	71% 62%	17% 31%	0% 0%
		Spring Grove Scottsville	Woodridge	130					7% 9%			
	VA NC	Middlesex	Phobos	80	2260.9 754.52	1000 734	1,094 356	170 57	9% 14%	63% 75%	28% 10%	0%
	MI	Deerfield	Carroll Road	200		1694.8	343	190	14%	86%	10% 0%	0% 2%
028		Emporia	Brunswick	200 150.2		1387.3	343 1,091	190 240	12% 4%	86% 85%	0% 11%	2% 0%
622						1007.5	1.091					
633	NC	Elkin	Partin	50		257.64	945	155	30%	25%	11%	30%

				Output	Total	Used	Avg. Dist	Closest	Adjoir	ning Us	e by Acro	e
Parcel #	State	City	Name	(MW)	Acres	Acres	to home	Home	Res	Agri	Ag/R	Com
638	GA	Dry Branch	Twiggs	200	2132.7	2132.7	-	-	10%	55%	35%	0%
639	NC	Hope Mills	Innovative Solar 46	78.5	531.87	531.87	423	125	17%	83%	0%	0%
640	NC	Hope Mills	Innovative Solar 42	71	413.99	413.99	375	135	41%	59%	0%	0%
645	NC	Stanley	Hornet	75	1499.5	858.4	663	110	30%	40%	23%	6%
650	NC	Grifton	Grifton 2	56	681.59	297.6	363	235	1%	99%	0%	0%
651	NC	Grifton	Buckleberry	52.1	367.67	361.67	913	180	5%	54%	41%	0%
657	KY	Greensburg	Horseshoe Bend	60	585.65	395	1,394	63	3%	36%	61%	0%
658	KY	Campbellsville	Flat Run	55	429.76	429.76	408	115	13%	52%	35%	0%
666	FL	Archer	Archer	74.9	636.94	636.94	638	200	43%	57%	0%	0%
667	FL	New Smyrna Be	a Pioneer Trail	74.5	1202.8	900	1,162	225	14%	61%	21%	4%
668	FL	Lake City	Sunshine Gateway	74.5	904.29	472	1,233	890	11%	80%	8%	0%
669	FL	Florahome	Coral Farms	74.5	666.54	580	1,614	765	19%	75%	7%	0%
672	VA	Appomattox	Spout Spring	60	881.12	673.37	836	335	16%	30%	46%	8%
676	TX	Stamford	Alamo 7	106.4	1663.1	1050	-	-	6%	83%	0%	11%
677	TX	Fort Stockton	RE Roserock	160	1738.2	1500	-	-	0%	100%	0%	0%
678	TX	Lamesa	Lamesa	102	914.5	655	921	170	4%	41%	11%	44%
679	TX	Lamesa	Ivory	50	706	570	716	460	0%	87%	2%	12%
680	TX	Uvalde	Alamo 5	95	830.35	800	925	740	1%	93%	6%	0%
684	NC	Waco	Brookcliff	50	671.03	671.03	560	150	7%	21%	15%	57%
689	AZ	Arlington	Mesquite	320.8	3774.5	2617	1,670	525	8%	92%	0%	0%
692	AZ	Tucson	Avalon	51	479.21	352	-	-	0%	100%	0%	0%
				81								
			Average	111.80	1422.4	968.4	1031	263	10%	62%	22%	6%
			Median	80.00	914.5	646.0	836	188	7%	64%	17%	0%
			High	1000.00	9661.2	4813.5	5210	1790	58%	100%	100%	70%
			Low	50.00	347.1	185.1	343	57	0%	0%	0%	0%

VII. Distance Between Homes and Panels

I have measured distances at matched pairs as close as 105 feet between panel and home to show no impact on value. This measurement goes from the closest point on the home to the closest solar panel. This is a strong indication that at this distance there is no impact on adjoining homes.

However, in tracking other approved solar farms across Kentucky, North Carolina and other states, I have found that it is common for there to be homes within 100 to 150 feet of solar panels. Given the visual barriers in the form of privacy fencing or landscaping, there is no sign of negative impact.

I have also tracked a number of locations where solar panels are between 50 and 100 feet of singlefamily homes. In these cases the landscaping is typically a double row of more mature evergreens at time of planting. There are many examples of solar farms with one or two homes closer than 100feet, but most of the adjoining homes are further than that distance.

VIII. <u>Topography</u>

As shown on the summary charts for the solar farms, I have been identifying the topographic shifts across the solar farms considered. Differences in topography can impact visibility of the panels, though typically this results in distant views of panels as opposed to up close views. The topography noted for solar farms showing no impact on adjoining home values range from as much as 160-foot shifts across the project. Given that appearance is the only factor of concern and that distance plus landscape buffering typically addresses up close views, this leaves a number of potentially distant views of panels. I specifically note that in Crittenden in KY there are distant views of panels from the adjoining homes that showed no impact on value.

General rolling terrain with some distant solar panel views are showing no impact on adjoining property value.

IX. <u>Potential Impacts During Construction</u>

I have previously been asked by the Kentucky Siting Board about potential impacts during construction. This is not a typical question I get as any development of a site will have a certain amount of construction, whether it is for a commercial agricultural use such as large-scale poultry operations or a new residential subdivision. Construction will be temporary and consistent with other development uses of the land and in fact dust from the construction will likely be less than most other construction projects given the minimal grading. I would not anticipate any impacts on property value due to construction on the site.

I note that in the matched pairs that I have included there have been a number of home sales that happened after a solar farm was approved but before the solar farm was built showing no impact on property value. Therefore the anticipated construction had no impact as shown by that data.

X. Scope of Research

I have researched over 750 solar farms and sites on which solar farms are existing and proposed in Kentucky, Illinois, Tennessee, North Carolina, Virginia as well as other states to determine what uses are typically found in proximity with a solar farm. The data I have collected and provide in this report strongly supports the assertion that solar farms are having no negative consequences on adjoining agricultural and residential values.

Beyond these references, I have quantified the adjoining uses for a number of solar farm comparables to derive a breakdown of the adjoining uses for each solar farm. The chart below shows the breakdown of adjoining or abutting uses by total acreage.

centage By Ad	joining Acrea	ıge					Closest	All Res A	All Com
	Res	Ag	Res/AG	Comm	Ind	Avg Home	Home	Uses	Uses
Average	19%	53%	20%	2%	6%	887	344	91%	8%
Median	11%	56%	11%	0%	0%	708	218	100%	0%
High	100%	100%	100%	93%	98%	5,210	4,670	100%	98%
Low	0%	0%	0%	0%	0%	90	25	0%	0%

Res = Residential, Ag = Agriculture, Com = Commercial

Total Solar Farms Considered: 705

I have also included a breakdown of each solar farm by number of adjoining parcels to the solar farm rather than based on adjoining acreage. Using both factors provides a more complete picture of the neighboring properties.

							Closest	All Res A	All Com
	Res	Ag	Res/AG	Comm	Ind	Avg Home	Home	Uses	Uses
Average	61%	24%	9%	2%	4%	887	344	93%	6%
Median	65%	19%	5%	0%	0%	708	218	100%	0%
High	100%	100%	100%	60%	78%	5,210	4,670	105%	78%
Low	0%	0%	0%	0%	0%	90	25	0%	0%

Res = Residential, Ag = Agriculture, Com = Commercial

Total Solar Farms Considered: 705

Both of the above charts show a marked residential and agricultural adjoining use for most solar farms. Every single solar farm considered included an adjoining residential or residential/agricultural use.

XI. Specific Factors Related To Impacts on Value

I have completed a number of Impact Studies related to a variety of uses and I have found that the most common areas for impact on adjoining values typically follow a hierarchy with descending levels of potential impact. I will discuss each of these categories and how they relate to a solar farm.

- 1. Hazardous material
- 2. Odor
- 3. Noise
- 4. Traffic
- 5. Stigma
- 6. Appearance

1. Hazardous material

A solar farm presents no potential hazardous waste byproduct as part of normal operation. Any fertilizer, weed control, vehicular traffic, or construction will be significantly less than typically applied in a residential development and even most agricultural uses.

The various solar farms that I have inspected and identified in the addenda have no known environmental impacts associated with the development and operation.

2. Odor

The various solar farms that I have inspected produced no odor.

3. Noise

Whether discussing passive fixed solar panels, or single-axis trackers, there is no negative impact associated with noise from a solar farm. The transformer reportedly has a hum similar to an HVAC that can only be heard in close proximity to this transformer and the buffers on the property are sufficient to make emitted sounds inaudible from the adjoining properties. No sound is emitted from the facility at night.

The various solar farms that I have inspected were inaudible from the roadways.

4. Traffic

The solar farm will have no onsite employee's or staff. The site requires only minimal maintenance. Relative to other potential uses of the site (such as a residential subdivision), the additional traffic generated by a solar farm use on this site is insignificant.

5. Stigma

There is no stigma associated with solar farms and solar farms and people generally respond favorably towards such a use. While an individual may express concerns about proximity to a solar farm, there is no specific stigma associated with a solar farm. Stigma generally refers to things such as adult establishments, prisons, rehabilitation facilities, and so forth.

Solar panels have no associated stigma and in smaller collections are found in yards and roofs in many residential communities. Solar farms are adjoining elementary, middle and high schools as well as churches and subdivisions. I note that one of the solar farms in this report not only adjoins a church, but is actually located on land owned by the church. Solar panels on a roof are often cited as an enhancement to the property in marketing brochures.

I see no basis for an impact from stigma due to a solar farm.

6. Appearance

I note that larger solar farms using fixed or tracking panels are a passive use of the land that is in keeping with a rural/residential area. As shown below, solar farms are comparable to larger greenhouses. This is not surprising given that a greenhouse is essentially another method for collecting passive solar energy. The greenhouse use is well received in residential/rural areas and has a similar visual impact as a solar farm.



The solar panels are all less than 15 feet high, which means that the visual impact of the solar panels will be similar in height to a typical greenhouse and lower than a single story residential dwelling. Were the subject property developed with single family housing, that development would have a much greater visual impact on the surrounding area given that a two-story home with attic could be three to four times as high as these proposed panels.

Whenever you consider the impact of a proposed project on viewshed or what the adjoining owners may see from their property it is important to distinguish whether or not they have a protected viewshed or not. Enhancements for scenic vistas are often measured when considering properties that adjoin preserved open space and parks. However, adjoining land with a preferred view today conveys no guarantee that the property will continue in the current use. Any consideration of the impact of the appearance requires a consideration of the wide variety of other uses a property already has the right to be put to, which for solar farms often includes subdivision development, agricultural business buildings such as poultry, or large greenhouses and the like.

Dr. Randall Bell, MAI, PhD, and author of the book **Real Estate Damages**, Third Edition, on Page 146 "Views of bodies of water, city lights, natural settings, parks, golf courses, and other amenities are considered desirable features, particularly for residential properties." Dr. Bell continues on Page 147 that "View amenities may or may not be protected by law or regulation. It is sometimes argued that views have value only if they are protected by a view easement, a zoning ordinance, or covenants, conditions, and restrictions (CC&Rs), although such protections are relatively

uncommon as a practical matter. The market often assigns significant value to desirable views irrespective of whether or not such views are protected by law."

Dr. Bell concludes that a view enhances adjacent property, even if the adjacent property has no legal right to that view. He then discusses a "borrowed" view where a home may enjoy a good view of vacant land or property beyond with a reasonable expectation that the view might be partly or completely obstructed upon development of the adjoining land. He follows that with "This same concept applies to potentially undesirable views of a new development when the development conforms to applicable zoning and other regulations. Arguing value diminution in such cases is difficult, since the possible development of the offending property should have been known." In other words, if there is an allowable development on the site then arguing value diminution with such a development would be difficult. This further extends to developing the site with alternative uses that are less impactful on the view than currently allowed uses.

This gets back to the point that if a property has development rights and could currently be developed in such a way that removes the viewshed such as a residential subdivision, than a less intrusive use such as a solar farm that is easily screened by landscaping would not have a greater impact on the viewshed of any perceived value adjoining properties claim for viewshed. Essentially, if there are more impactful uses currently allowed, then there is no viewshed enhancement to adjoining parcels.

7. Conclusion

On the basis of the factors described above, it is my professional opinion that the proposed solar farm will not negatively impact adjoining property values. The only category of impact of note is appearance, which is addressed through setbacks and landscaping buffers. The matched pair data supports that conclusion.

XII. Conclusion

The matched pair analysis shows no negative impact in home values due to abutting or adjoining a solar farm as well as no impact to abutting or adjacent vacant residential or agricultural land. The criteria that typically correlates with downward adjustments on property values such as noise, odor, and traffic all support a finding of no impact on property value.

Very similar solar farms in very similar areas have been found by hundreds of towns and counties not to have a substantial injury to abutting or adjoining properties, and many of those findings of no impact have been upheld by appellate courts. Similar solar farms have been approved adjoining agricultural uses, schools, churches, and residential developments.

I have found no difference in the mix of adjoining uses or proximity to adjoining homes based on the size of a solar farm and I have found no significant difference in the matched pair data adjoining larger solar farms versus smaller solar farms. The data in the SouthEast is consistent with the larger set of data that I have nationally, as is the more specific data located in and around Kentucky.

Based on the data and analysis in this report, it is my professional opinion that the solar farm proposed at the subject property will have no negative impact on the value of adjoining or abutting property. I note that some of the positive implications of a solar farm that have been expressed by people living next to solar farms include protection from future development of residential developments or other more intrusive uses, reduced dust, odor and chemicals from former farming operations, protection from light pollution at night, it's quiet, and there is no traffic.



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2003 – Present

1996 - 2003

2001

1999

Professional Experience
Kirkland Appraisals, LLC, Raleigh, N.C.
Commercial appraiser
Hester & Company, Raleigh, N.C.
Commercial appraiser
Professional Affiliations
MAI (Member, Appraisal Institute) designation #11796

NC State Certified General Appraiser # A4359 VA State Certified General Appraiser # 4001017291 SC State Certified General Appraiser # 6209 FL State Certified General Appraiser # RZ3950 IL State Certified General Appraiser # 553.002633 KY State Certified General Appraiser # 5522

Education

Bachelor of Arts in English,	University of North Carolina,	Chapel Hill	1993
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Continuing Education

Florida Appraisal Laws and Regulations	2020
Michigan Appraisal Law	
Uniform Standards of Professional Appraisal Practice Update	
Uniform Appraisal Standards for Federal Land Acquisitions (Yellow Book)	
The Cost Approach	2019 2019
Income Approach Case Studies for Commercial Appraisers	2018
Introduction to Expert Witness Testimony for Appraisers	2018
Appraising Small Apartment Properties	2018
Florida Appraisal Laws and Regulations	2018
Uniform Standards of Professional Appraisal Practice Update	2018
Appraisal of REO and Foreclosure Properties	2017
Appraisal of Self Storage Facilities	2017
Land and Site Valuation	2017
NCDOT Appraisal Principles and Procedures	2017
Uniform Standards of Professional Appraisal Practice Update	2016
Forecasting Revenue	2015
Wind Turbine Effect on Value	2015
Supervisor/Trainee Class	2015
Business Practices and Ethics	2014
Subdivision Valuation	2014
Uniform Standards of Professional Appraisal Practice Update	2014
Introduction to Vineyard and Winery Valuation	2013
Appraising Rural Residential Properties	2012

Uniform Standards of Professional Appraisal Practice Update	2012
Supervisors/Trainees	2011
Rates and Ratios: Making sense of GIMs, OARs, and DCFs	2011
Advanced Internet Search Strategies	2011
Analyzing Distressed Real Estate	2011
Uniform Standards of Professional Appraisal Practice Update	2011
Business Practices and Ethics	2011
Appraisal Curriculum Overview (2 Days – General)	2009
Appraisal Review - General	2009
Uniform Standards of Professional Appraisal Practice Update	2008
Subdivision Valuation: A Comprehensive Guide	2008
Office Building Valuation: A Contemporary Perspective	2008
Valuation of Detrimental Conditions in Real Estate	2007
The Appraisal of Small Subdivisions	2007
Uniform Standards of Professional Appraisal Practice Update	2006
Evaluating Commercial Construction	2005
Conservation Easements	2005
Uniform Standards of Professional Appraisal Practice Update	2004
Condemnation Appraising	2004
Land Valuation Adjustment Procedures	2004
Supporting Capitalization Rates	2004
Uniform Standards of Professional Appraisal Practice, C	2002
Wells and Septic Systems and Wastewater Irrigation Systems	2002
Appraisals 2002	2002
Analyzing Commercial Lease Clauses	2002
Conservation Easements	2000
Preparation for Litigation	2000
Appraisal of Nonconforming Uses	2000
Advanced Applications	2000
Highest and Best Use and Market Analysis	1999
Advanced Sales Comparison and Cost Approaches	1999
Advanced Income Capitalization	1998
Valuation of Detrimental Conditions in Real Estate	1999
Report Writing and Valuation Analysis	1999
Property Tax Values and Appeals	1997
Uniform Standards of Professional Appraisal Practice, A & B	1997
Basic Income Capitalization	1996