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July 25, 2022

Mr. Garrett Weeks Wheelhouse Solar c/o Palladium Energy 4446 Hendricks Avenue #356 Jacksonville, FL 32207

#### RE: Wheelhouse Solar Impact Analysis, Fowlkes Road, Victoria, Lunenburg County, VA

Mr. Weeks

At your request, I have considered the impact of a 60 MW solar farm proposed to be constructed on a portion of 602.88 acres of land off Fowlkes Road, Victoria, Lunenburg County, Virginia. 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 Virginia 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 Wheelhouse Solar c/o Palladium Energy, represented to me by Mr. Garrett Weeks. My findings support the Application. The effective date of this consultation is July 25, 2022.

#### **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. The closest home will be at least 900 feet from the nearest solar panel and the average distance will be 1,156 feet to the nearest solar panel.

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 let me know.

Sincerely,

File Kill fr

Richard C. Kirkland, Jr., MAI NC Certified General Appraiser #A4359 VA Certified General Appraiser # 4001017291



### Table of Contents

Concl	lusion	1
I. P	Proposed Project and Adjoining Uses	4
II. N	Methodology and Discussion of Issues	10
III.	Research on Solar Farms	12
Α.	Appraisal Market Studies	12
В.	Articles	15
C.	Broker Commentary	16
IV.	University Studies	16
А.	University of Texas at Austin, May 2018	16
В.	University of Rhode Island, September 2020	17
C.	Georgia Institute of Technology, October 2020	19
D.	Master's Thesis: ECU by Zachary Dickerson July 2018	19
V. A	Assessor Surveys	21
VI.	Summary of Solar Projects In Virginia	24
354	e: Amazon Solar project East (Eastern Shore), Accomack, VA	
364	E Remington Solar, 12080 Lucky Hill Rd, Remington, VA	31
373	3: Woodland Solar, Longview Drive, Smithfield, VA	34
374	E Whitehouse Solar, Chalklevel Road, Louisa, VA	35
484	Essex Solar, Tidewater Trail, Center Cross, VA	36
485	5: Southampton Solar, General Thomas Hwy, Newsoms, VA	
VII.	Market Analysis of the Impact on Value from Solar Farms	
А.	Virginia Data	40
В.	Southeastern USA Data – Over 5 MW	61
C.	Summary of National Data on Solar Farms	116
D.	Larger Solar Farms	118
VIII.	Distance Between Homes and Panels	
IX.	Topography	122
Х. Р	Potential Impacts During Construction	
XI.	Scope of Research	123
XII.	Specific Factors Related To Impacts on Value	124
XIII.	Conclusion	127
XIV.	Certification	128
Prof	fessional Experience	129
Prof	fessional Affiliations	129
Edu	acation	129
Con	ntinuing Education	129

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

#### **Proposed Use Description**

This 60 MW solar farm proposed to be constructed on a portion of 602.88 acres of land off Fowlkes Road, Victoria, Lunenburg County, Virginia.

#### **Adjoining Properties**

I have considered adjoining uses and included a map to identify each parcel's location. The closest adjoining home will be at least 900 feet from the closest solar panel and the average distance to adjoining homes will be 1,156 feet to the nearest solar panel. Adjoining land is a mix of residential and agricultural uses.

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

#### Adjoining Use Breakdown

	Acreage	Parcels
Residential	4.15%	38.89%
Agricultural	84.26%	50.00%
Agri/Res	11.58%	11.11%
Total	100.00%	100.00%

#### Surrounding Uses

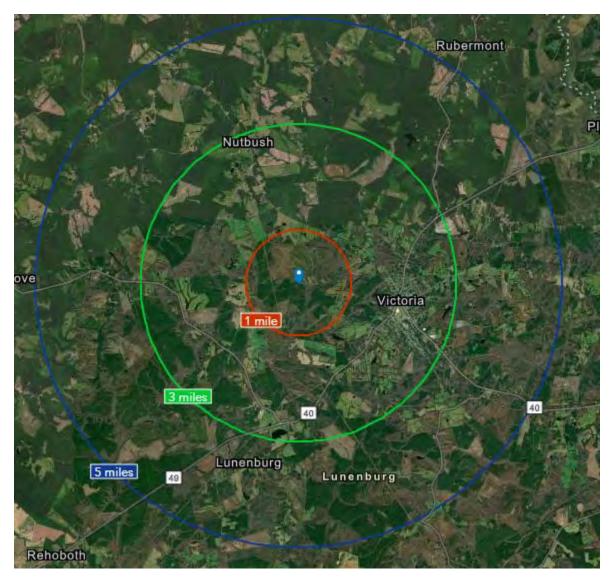
			GIS Data		Adjoin	Adjoin	Distance (ft)
#	MAP ID	Owner	Acres	Present Use	Acres	Parcels	Home/Panel
1	020-0A-0-29	Gay	324.85	Agricultural	24.47%	5.56%	N/A
2	020-0A-0-32	Gay	319.17	Agricultural	24.04%	5.56%	N/A
3	020-0A-0-31	Cataldo	4.96	Residential	0.37%	5.56%	1,125
4	020-0A-0-30	Wells	10.00	Residential	0.75%	5.56%	960
5	032-0A-0-5	Wells	1.00	Residential	0.08%	5.56%	N/A
6	032-0A-0-6D	Fowlkes	70.88	Agricultural	5.34%	5.56%	N/A
7	032-0A-0-6A	Hamlett	66.24	Agricultural	4.99%	5.56%	N/A
8	032-0A-0-6C	Hamlett	94.69	Agricultural	7.13%	5.56%	N/A
9	032-0A-0-7	Bohannon	67.20	Agricultural	5.06%	5.56%	N/A
10	032-0A-0-9A	Overton	78.81	Agri/Res	5.94%	5.56%	1,385
11	032-0A-0-11	Shelton	75.00	Agri/Res	5.65%	5.56%	1,650
12	032-08-0-A5	Morneau	6.19	Residential	0.47%	5.56%	1,030
13	032-0A-0-14C	Wilmouth	23.61	Agricultural	1.78%	5.56%	N/A
14	032-0A-0-3	Tomlinson	20.00	Residential	1.51%	5.56%	1,140
15	032-0A-0-2A	Amos	7.00	Residential	0.53%	5.56%	1,060
16	032-0A-0-2B	Overton	6.00	Residential	0.45%	5.56%	900
17	020-0A-0-27	Gay	49.05	Agricultural	3.69%	5.56%	N/A
18	020-0A-0-28	Wilkerson	103.10	Agricultural	7.77%	5.56%	N/A
		Total	1327.750		100.00%	100.00%	1,156



#### **Demographics Around Subject Property**

I have pulled demographic data around a 1-mile, 3-mile and 5-mile radius from the middle of the project as shown on the following pages.

It is noteworthy that the population in all three rings has been declining since 2010 and projected to continue declining by the Census data identified.





### Housing Profile

23974 23974, Victoria, Virginia

Ring: 1 mile radius

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Population		Households	
2010 Total Population	94	2022 Median Household Income	\$47,532
2020 Total Population	88	2027 Median Household Income	\$51,039
2022 Total Population	85	2022-2027 Annual Rate	1,43%
2027 Total Population	82		
2022-2027 Annual Rate	-0.72%		

	Census 2010		2022		2027	
Housing Units by Occupancy Status and Tenure	Number	Percent	Number	Percent	Number	Percent
Total Housing Units	37	100.0%	35	100.0%	34	100.0%
Occupied	26	70.3%	25	71.4%	25	73.5%
Owner	17	45.9%	16	45.7%	16	47.1%
Renter	9	24.3%	9	25.7%	9	26.5%
Vacant	11	29.7%	10	28.6%	9	26.5%

	20	2027		
Owner Occupied Housing Units by Value	Number	Percent	Number	Percent
Total	17	100.0%	15	100.0%
<\$50,000	2	11.8%	2	13.3%
\$50,000-\$99,999	6	35.3%	5	33.3%
\$100,000-\$149,999	4	23.5%	3	20.0%
\$150,000-\$199,999	1	5.9%	1	6.7%
\$200,000-\$249,999	1	5.9%	1	6.7%
\$250,000-\$299,999	1	5.9%	1	6.7%
\$300,000-\$399,999	2	11.8%	2	13.3%
\$400,000-\$499,999	0	0.0%	0	0.0%
\$500,000-\$749,999	0	0.0%	0	0.0%
\$750,000-\$999,999	0	0.0%	0	0.0%
\$1,000,000-\$1,499,999	0	0.0%	0	0.0%
\$1,500,000-\$1,999,999	0	0.0%	0	0.0%
\$2,000,000+	0	0.0%	0	0.0%
Median Value	\$106,250		\$108,333	
Average Value	\$139,706		\$145,000	
Census 2010 Housing Units		N	umber	Percent
Total			37	100.0%
In Urbanized Areas			0	0.0%
In Urban Clusters			0	0.0%
Rural Housing Units			37	100.0%

Data Note: Persons of Hispanic Origin may be of any race. Source: Esri forecasts for 2022 and 2027. U.S. Census Bureau 2010 decennial Census data converted by Esri into 2020 geography.

July 22, 2022

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Page 1 of 6



### Housing Profile

23974 23974, Victoria, Virginia

Ring: 3 mile radius

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Population		Households	
2010 Total Population	2,611	2022 Median Household Income	\$44,941
2020 Total Population	2,491	2027 Median Household Income	\$50,359
2022 Total Population	2,420	2022-2027 Annual Rate	2.30%
2027 Total Population	2,357		
2022-2027 Annual Rate	-0.53%		

	Census 2010		2022		2027	
Housing Units by Occupancy Status and Tenure	Number	Percent	Number	Percent	Number	Percent
Total Housing Units	1,261	100.0%	1,242	100.0%	1,221	100.0%
Occupied	1,072	85.0%	1,044	84.1%	1,025	83.9%
Owner	723	57.3%	644	51.9%	639	52.3%
Renter	349	27.7%	400	32.2%	386	31.6%
Vacant	189	15.0%	198	15.9%	196	16.1%

	20	22	2027		
Owner Occupied Housing Units by Value	Number	Percent	Number	Percent	
Total	645	100.0%	639	100.0%	
<\$50,000	88	13.6%	75	11.7%	
\$50,000-\$99,999	180	27.9%	152	23.8%	
\$100,000-\$149,999	118	18.3%	110	17.2%	
\$150,000-\$199,999	80	12.4%	90	14.1%	
\$200,000-\$249,999	62	9.6%	78	12.2%	
\$250,000-\$299,999	40	6.2%	47	7.4%	
\$300,000-\$399,999	69	10.7%	80	12.5%	
\$400,000-\$499,999	4	0.6%	3	0.5%	
\$500,000-\$749,999	2	0.3%	2	0.3%	
\$750,000-\$999,999	2	0.3%	2	0.3%	
\$1,000,000-\$1,499,999	0	0.0%	0	0.0%	
\$1,500,000-\$1,999,999	0	0.0%	0	0.0%	
\$2,000,000+	0	0.0%	0	0.0%	
Median Value	\$123,093		\$142,045		
Average Value	\$152,481		\$165,258		
Census 2010 Housing Units		N	umber	Percen	
Total			1,261	100.09	
In Urbanized Areas			0	0.0%	
In Urban Clusters			0	0.09	
Rural Housing Units			1,261	100.0%	

Data Note: Persons of Hispanic Origin may be of any race. Source: Esri forecasts for 2022 and 2027. U.S. Census Bureau 2010 decennial Census data converted by Esri into 2020 geography.

July 22, 2022

02022 Esn

Page 3 of 6



### Housing Profile

23974 23974, Victoria, Virginia

Ring: 5 mile radius

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Population		Households	
2010 Total Population	5,010	2022 Median Household Income	\$45,525
2020 Total Population	4,661	2027 Median Household Income	\$50,956
2022 Total Population	4,508	2022-2027 Annual Rate	2.28%
2027 Total Population	4,401		
2022-2027 Annual Rate	-0.48%		

	Censu	s 2010	20	22	20	27
Housing Units by Occupancy Status and Tenure	Number	Percent	Number	Percent	Number	Percent
Total Housing Units	1,925	100.0%	1,898	100.0%	1,869	100.0%
Occupied	1,640	85.2%	1,582	83.4%	1,553	83.1%
Owner	1,151	59.8%	1,029	54.2%	1,020	54.6%
Renter	489	25.4%	553	29.1%	533	28.5%
Vacant	285	14.8%	316	16.6%	316	16.9%

	20	22	20	127
Owner Occupied Housing Units by Value	Number	Percent	Number	Percent
Total	1,031	100.0%	1,020	100.0%
<\$50,000	125	12.1%	104	10.2%
\$50,000-\$99,999	280	27.2%	233	22.8%
\$100,000-\$149,999	176	17.1%	163	16.0%
\$150,000-\$199,999	129	12.5%	143	14.0%
\$200,000-\$249,999	128	12.4%	159	15.6%
\$250,000-\$299,999	59	5.7%	69	6.8%
\$300,000-\$399,999	114	11.1%	133	13.0%
\$400,000-\$499,999	11	1.1%	9	0.9%
\$500,000-\$749,999	4	0.4%	3	0.3%
\$750,000-\$999,999	4	0.4%	4	0.4%
\$1,000,000-\$1,499,999	1	0.1%	0	0.0%
\$1,500,000-\$1,999,999	0	0.0%	0	0.0%
\$2,000,000+	0	0.0%	0	0.0%
Median Value	\$131,392		\$153,497	
Average Value	\$160,839		\$172,745	
Census 2010 Housing Units		N	umber	Percent
Total			1,925	100.0%
In Urbanized Areas			0	0.0%
In Urban Clusters			0	0.0%

**Rural Housing Units** 

Data Note: Persons of Hispanic Origin may be of any race. Source: Esri forecasts for 2022 and 2027. U.S. Census Bureau 2010 decennial Census data converted by Esri into 2020 geography.

July 22, 2022

1,925

Page S of 6

100.0%

#### 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 Virginia 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 tends 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 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.

#### 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. Research on Solar Farms

#### 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 Michigan, Minnesota, Indiana, 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 assessors 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.

### MR Valuation Consulting, LLC – The Kuhl Farm Solar Development and The Fischer Farm Solar Development – June 7, 2012

Mr. Mark Pomykacaz, MAI MRICS with MR Valuation Consulting, LLC considered a matched pair analysis for sales near these solar farms. The sales data presented supported a finding of no impact on property value for nearby and adjoining homes and concludes that there is no impact on marketing time and no additional risk involved with owning, building, or selling properties next to the solar farms.

### Mary McClinton Clay, MAI – McCracken County Solar Project Value Impact Report, July 10, 2021

Ms. Mary Clay, MAI reviewed a report by Kirkland Appraisals in this case and also provided a differing opinion of impact. She cites a number of other appraisal studies and interestingly finds fault with heavily researched opinions, while praising the results of poorly researched studies that found the opposing view.

Her analysis includes details from solar farms that show no impact on value, but she dismisses those.

She cites the University of Texas study noted later in this report, but she cites only isolated portions of that study to conclude the opposite of what that study specifically concludes.

She cites the University of Rhode Island study noted alter in this report, but specifically excludes the conclusion of that study that in rural areas they found no impact on property value.

She cites lot sales near Spotsylvania Solar without confirming the purchase prices with brokers as indicative of market impact and has made no attempt to compare lot prices that are contemporaneous. In her 5 lot sales that she identifies, all of the lot prices decline with time from 2015 through 2019. This includes the 3 lot sales prior to the approval of the solar farm. The decrease in lot values shown in this chart are more indicative of the trend in the market, than of any impact related to the solar farm. Otherwise, how does she explain the drop in price from 2015 to 2017 prior to the solar farm approval.

She considers data at McBride Place Solar Farm and does a sale/resale analysis based on Zillow Home Value Index, which is not a reliable indication for appreciation in the market. She then adjusted her initial sales prior to the solar farm over 7 years to determine what she believes the home should have appreciated by and then compares that to an actual sale. She has run no tests or any analysis to show that the appreciation rates she is using are consistent with the market but more importantly she has not attempted to confirm any of these sales with market participants. I have spoken with brokers active in the sales that she cites and they have all indicated that the solar farm was not a negative factor in marketing or selling those homes.

She has considered lot sales at Sunshine Farms in Grandy, NC. She indicates that the lots next to the solar farm are selling for less than lots not near the solar farm, but she is actually using lot sales next to the solar farm prior to the solar farm being approved. She also ignores recent home sales adjoining this solar farm after it was built that show no impact on property value.

She also notes a couple of situations where solar developers have purchased adjoining homes and resold them or where a neighbor agreement was paid as proof of a negative impact on property value. Given that there are over 2,500 solar farms in the USA as of 2018 according to the U.S. Energy Information Administration and there are only a handful of such examples, this is clearly not an industry standard but a business decision. Furthermore, solar developers are not in the business of flipping homes and are in a position very similar to a bank that acquires a home as OREO (Other Real Estate Owned), where homes are frequently sold at discounted prices, not because of any drop in value, but because they are not a typically motivated seller. Market value requires an analysis of a typically motivated buyer and seller. So these are not good indicators of market value impacts.

The comments throughout this study are heavy in adjectives, avoids stating facts contrary to the conclusion and shows a strong selection bias.

#### **Conclusion of Impact Studies**

Of the five studies noted two included actual sales data to derive an opinion of no impact on value. The two studies to conclude on a negative impact includes 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. The other study by Mary Clay shows improper adjustments for time, a lack of confirmation of sales comparables, and exclusion of data that does not support her position.

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 included comments from brokers within this report where they discussed specific solar projects 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. <u>University Studies</u>

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

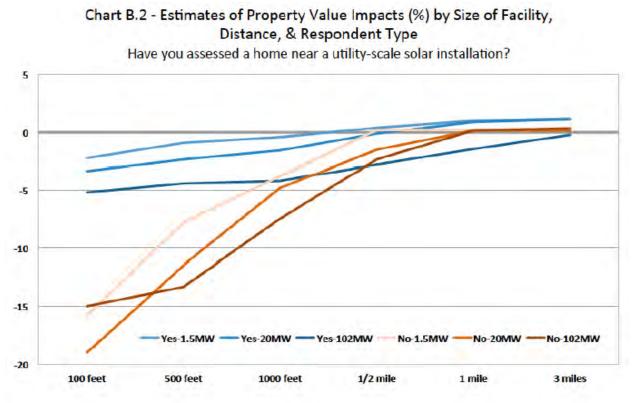
#### A. University of Texas at Austin, May 2018

#### 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 dataset.

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 2<sup>nd</sup> and 3<sup>rd</sup> 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 Meherrin River District of Lunenburg County, which has a population of 2,425 population for 2021 based on HomeTownLocator.com and a total area of 80.83 square miles. This indicates a population density of 30 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 a finding of no impact on adjoining properties for the proposed solar farm.

#### Meherrin River District Data & Demographics (As of July 1, 2021)

POPULATION		HOUSING	
Total Population	2,425 (100%)	Total HU (Housing Units)	1,243 (100%)
Population in Households	2,402 (99.1%)	Owner Occupied HU	704 (56.6%)
Population in Families	1,911 (78.8%)	Renter Occupied HU	313 (25.2%)
Population in Group Quarters <sup>1</sup>	23 ( 0.9%)	Vacant Housing Units	226 (18.2%)
Population Density	30	Median Home Value	\$122,527
Diversity Index <sup>2</sup>	57	Average Home Value	\$160,866
		Housing Affordability Index <sup>3</sup>	216

INCOME		HOUSEHOLDS	
Median Household Income	\$42,787	Total Households	1,017
Average Household Income	\$51,533	Average Household Size	2.36
% of Income for Mortgage <sup>4</sup>	12%	Family Households	649
Per Capita Income	\$21,423	Average Family Size	3
Wealth Index <sup>5</sup>	42		

#### C. Georgia Institute of Technology, October 2020 Utility-Scale Solar Farms and Agricultural Land Values

This study was completed by Nino Abashidze as Post-Doctoral Research Associate of Health Economics and Analytics Labe (HEAL), School of Economics, Georgia Institute of Technology. This research was started at North Carolina State University and analyzes properties near 451 utility-scale ground-mount solar installations in NC that generate at least 1 MW of electric power. A total of 1,676 land sales within 5-miles of solar farms were considered in the analysis.

This analysis concludes on Page 21 of the study "Although there are no direct effects of solar farms on nearby agricultural land values, we do find evidence that suggests construction of a solar farm may create a small, positive, option -value for land owners that is capitalized into land prices. Specifically, after construction of a nearby solar farm, we find that agricultural land that is also located near transmission infrastructure may increase modestly in value."

This study supports a finding of no impact on adjoining agricultural property values and in some cases could support a modest increase in value.

#### D. 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.

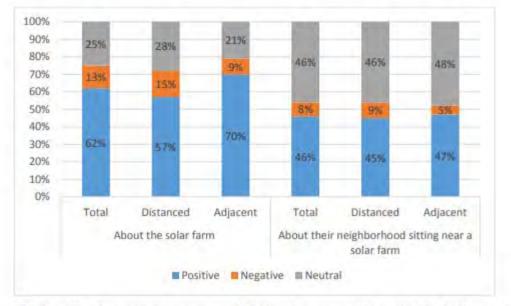


Figure 11: Residents' positive/negative word choices by geographic setting for both questions

#### V. <u>Assessor Surveys</u>

I have attempted to contact all of the assessor departments in North Carolina to determine how local assessors are handling solar farms and adjoining property values. I have spoken personally with a number of assessors, but much of this data was obtained via email. I have 39 counties in NC that have both responded to these questions on property value and also have solar farms in that county. I have excluded responses from assessors from counties where there are no current solar farms.

As can be seen in the chart below, of the 39 responses all of the responses have indicated that they make no adjustment to properties adjoining solar farms. Several assessors indicated that it would require an adjoining property owner to appeal their property value with data showing a negative impact before they would make any adjustment and to date they have not had that happen.

I also point out specifically Clay County. I spoke with the assessor there specifically about adjustments that were applied to some properties near a solar farm back in 2008. She was unaware of the details of that event as she was not in this position at that time. As discussed earlier in this report the lower re-assessments at that solar farm were based on a County Official, who owned property adjacent to the solar farm, who made an appeal to the assessor for reductions for his own property. The noted lack of lot sales after announcement of the solar farm however coincided with the recession in 2008/2009 and lack of lot sales effectively defined that area during that time, but without relying on any data the assessor made that change in that time frame based on conversations with the assessor. Since then, Clay County has confirmed that they do not currently make any changes to adjoining property values and the current county assessor was not even aware that they had in the past done so.

AlexanderDoug Fox3NoBuncombeLisa Kirbo1NoBurkeDaniel Isenhour3, 2 on 1 parcel, 1 on 3 parcelsNoCabarrusJustinless than 10, more in the worksNo	
Burke Daniel Isenhour 3, 2 on 1 parcel, 1 on 3 parcels No	
Cabarrus Justin less than 10, more in the works No	
Caldwell Monty Woods 3 small No, but will look at data in 2025	
Catawba Lori Ray 14 No	
Chatham Jenny Williams 13 No	
Cherokee Kathy Killian 9 No	
Chowan Melissa Radke 3, I almost operational No	
Clay Bonnie L. Lyvers No	
Davidson Libby 1 No	
Duplin Gary Rose 34, 2 more in planning No	
Franklin Marion Cascone 11 No	
Gaston Traci Hovis 3 No	
Gates Chris Hill 3 No	
Granville Jenny Griffin 8 No	
Halifax C. Shane Lynch Multiple No	
Hoke Mandi Davis 4 No	
Hyde Donnie Shumate 1 to supplement egg processing plant No	
Iredell Wes Long 2, 3 others approved No	
Lee Lisa Faulkner 8 No	
Lincoln Susan Sain 2 No	
Moore Michael Howery 10 No	
New Hanover Rhonda Garner 35 No	
Orange Chad Phillip 2 or 7 depending on breakdown No	
Pender Kayla Bolick Futrell 6 No	
Person Russell Jones 9 No	
Pitt Russell D. Hill 8, 1 in planning No	
Randolph Mark Frick 19 No	
Rockingham Mark C McClintock 6 No	
Rutherford Kim Aldridge 20 No	
Sampson Jim Johnson 9, 1 in construction No	
Scotland James Brown 15, 1 in process No	
Stokes Richard Brim 2 No	
Surry Penny Harrison 4, 2 more in process No	
Union Robin E. Merry 6 No	
Vance Cathy E. Renn 13 No	
Warren John Preston 7 No	
Wayne Alan Lumpkin 32 No	
Wilson William (Witt) Putney ~16 No, mass appraisal standards applied	

#### NC Assessor Survey on Solar Farm Property Value Impacts

Responses: 39 Negative Impact on Adjoining Value = Yes: 0 Negative Impact on Adjoining Value = No: 39

I have also been working on a survey of Virginia Assessors regarding property values related to solar farms and whether or not the local assessors have found any data to support any changes to value on property adjoining solar farms. In this process I have contacted every assessor's office by email and I have received responses by email and by phone from a number of these counties. Many of the counties in Virginia rely on outside firms to assist in gathering data for the assessments and where that is the case, we have contacted the outside firms regarding the question of whether or not the assessors are currently making any adjustments to properties adjoining solar farms.

I currently have response from 16 counties that have solar farms in them and of those 16 responses none of the assessors are currently applying a negative impact on property value. One response suggested that adjoining values may go up.

I did speak with Randy Willis with Pearson Assessors. His company assists in the assessments in many of the counties south of Richmond. He indicated that they had found no data to suggest a negative impact on property value and they have looked as they were concerned about that issue.

He indicated that they would make no negative impact adjustments and that he recognizes that there are a number of agricultural adjoining uses that have a greater impact on adjoining properties in terms of noise, dust and odor than a solar farm would have. He did indicate that there could be situations where an individual home might have a greater visual impact and those should be looked at on a case-by-case basis, but he also agreed that many allowed agricultural uses could have similar visual impacts on such properties as well.

County	Assessor Name		Number of Farms in Operation Change in adjacent property value
Appomattox	Sara Henderson	1, plus one in process	No
Augusta	W. Jean Shrewsbury	no operational	No
Buckingham	Stephanie D. Love	1	No
Charlotte	Naisha Pridgen Carter	Naisha Pridgen Carter 1, several others in the works	No
Clarke	Donna Peake	1	No
Frederick	Seth T. Thatcher	none, 2 appoved for 2022	No, assuming compatible with rural area
Goochland	Mary Ann Davis		No
Hanover	Ed Burnett	1	No
Louisa	Stacey C. Fletcher	2 operational by end of year	No, only if supported by market data
Mecklenburg	Joseph E. "Ed" Taylor		No
Nottoway	Randy Willis with Pearson Assessors	son Assessors	No
Powhatan	Charles Everest	2 approved, 1 built	Likely increase in value
Rockingham	Dan Cullers	no operational	Likely no
Southampton	Amy B. Carr	1	Not normally
Surry	Jonathan F. Judkins	1	None at this time
Westmoreland	William K. Hoover	4	No
		Responses: 16	
		Negative Impact on Adjoining Value = Yes: 0	0
		Negative Impact on Adjoining Value = No: 16	.6

VIRGINIA Commissioner of the Revenue

#### VI. Summary of Solar Projects In Virginia

I have researched the solar projects in Virginia. I identified the solar farms through the Solar Energy Industries Association (SEIA) Major Projects List and then excluded the roof mounted facilities. I focused on larger solar farms over 10 MW though I have included a couple of smaller solar farms as shown in the chart below.

I was able to identify and research 50 solar farms in Virginia as shown below. These are primarily over 20 MW in size with adjoining homes as close as 100 feet and the mix of adjoining uses is primarily agricultural and residential.

							Avg. Dist	Closest	Adjoin	ing Use	by Acre	
cel #	Name	County	City	Output T (MW)	otal Acres	Used Acres			Res	Agri	Agri/Res	Com
115	Buckingham I	Buckingham	Cumberland	19.8	481.18		N/A	N/A	8%	73%	18%	0%
	Scott	Powhatan	Amelia Court Hou	20	898.4		1,421	730	29%	28%	44%	0%
204	Walker-Correctional	New Kent	Barhamsville	20	484.65	484.65		103	13%	68%	20%	0%
205	Sappony	Sussex	Stony Creek	20	322.68	322.68			2%	98%	0%	0%
	Beetle	Southampton	Boykins	40	422.19	422.19	1,169	310	0%	10%	90%	0%
222	Grasshopper	Mecklenburg	Chase City	80	946.25	946.25			6%	87%	5%	1%
226	Belcher	Louisa	Louisa	88	1238.11	1238.11		150	19%	53%	28%	0%
228	Bluestone Farm	Mecklenburg	Chase City	4.99	332.5	332.5			0%	100%	0%	0%
257	Nokesville	Prince Willia	Nokesville		331.01	331.01			12%	49%	17%	23%
261	Buckingham II	Buckingham	Buckingham	19.8	460.05	460.05			6%	79%	15%	0%
262	Mount Jackson	Shenandoah	Mount Jackson	15.65	652.47	652.47			21%	51%	14%	13%
263	Gloucester	Gloucester	Gloucester	20	203.55	203.55	508	190	17%	55%	28%	0%
267	Scott II	Powhatan	Powhatan		701	701			41%	25%	34%	0%
272	Churchview	Middlesex	Church View	20	567.91	567.91			9%	64%	27%	0%
303	Turner	Henrico	Henrico	20	463.12	463.12	N/A	N/A	21%	37%	0%	42%
311	Sunnybrook Farm	Halifax	Scottsburg		527.88	527.88	N/A	N/A	15%	59%	26%	0%
312	Powell Creek	Halifax	Alton		513	513	N/A	N/A	7%	71%	22%	0%
339	Crystal Hill	Halifax	Crystal Hill		628.67	628.67	1,570	140	6%	41%	35%	18%
354	Amazon East	Accomack	Oak Hall	80	1000	1000	645	135	8%	75%	17%	0%
355	Alton Post	Halifax	Alton		501.96	501.96	749	100	2%	58%	40%	0%
364	Remington	Fauquier	Remington	20	277.2	277.2	2,755	1,280	10%	41%	31%	18%
365	Greenwood	Culpepper	Stevensburg	100	2266.58	2266.58	788	200	8%	62%	29%	0%
367	Culpeper Sr	Culpeper	Culpeper		12.53	12.53	N/A	N/A	15%	0%	86%	0%
370	Cherrydale	Northampton	Kendall Grove	20	180.17	180.17	N/A	N/A	5%	0%	92%	3%
373	Woodland,VA	Isle of Wight	Smithfield	19.7	211.12	211.12	606	190	9%	0%	91%	0%
374	Whitehouse	Louisa	Louisa	20	499.52	499.52	1,195	110	24%	55%	18%	4%
402	Cedar Park	Henrico	Richmond		13.93	13.93			57%	0%	0%	43%
407	Foxhound	Halifax	Clover	91	1311.78	1311.78	885	185	5%	61%	17%	18%
415	Stagecoach II	Halifax	Nathalie	16.625	327.87	327.87	1,073	255	5%	66%	29%	0%
484	Essex Solar Center	Essex	Center Cross	20	106.12	106.12	693	360	3%	70%	27%	0%
485	Southampton	Southampton	Newsoms	100	3243.92	3243.92	-	-	3%	78%	17%	3%
487	Augusta	Augusta	Stuarts Draft	125	3197.4	1147	588	165	16%	61%	16%	7%
490	Cartersville	Powhatan	Powhatan		2945	1358	1,467	105	6%	14%	80%	0%
495	Walnut	King and Que	Shacklefords	110	1700	1173	641	165	14%	72%	13%	1%
497	Piney Creek	Halifax	Clover	80	776.18	422	523	195	15%	62%	24%	0%
511	UVA Puller	Middlesex	Topping	15	120	120	1,095	185	59%	32%	0%	10%
519	Fountain Creek	Greensville	Emporia	80	798.3	798.3	-	-	6%	23%	71%	0%
557	Winterpock 1	Chesterfield	Chesterfield		518	308	2,106	350	4%	78%	18%	0%
577	Windsor	Isle of Wight	Windsor	85	564.1	564.1	572	160	9%	67%	24%	0%
579	Spotsylvania	Spotsylvania	Paytes	500	6412	3500			9%	52%	11%	27%
586	Sweet Sue	King William	Aylett	77	1262	576	1,617	680	7%	68%	25%	0%
591	Warwick	Prince Georg	Disputanta	26.5	967.62	442.05	555	115	12%	68%	20%	0%
621	Loblolly	Surry	Spring Grove	150	2181.92	1000	1,860	110	7%	62%	31%	0%
	Woodridge	Albemarle	Scottsville	138	2260.87	1000		170	9%	63%	28%	0%
	Brunswick	Greensville	Emporia	150.2	2076.36	1387.3	1,091	240	4%	85%	11%	0%
642	Belcher 3	Louisa	Louisa		749.36	658.56		180	14%	71%	14%	1%
649	Endless Caverns	Rockingham		31.5	355	323.6		190	15%	27%	51%	7%
664	Watlington	Halifax	South Boston	20	240.09	137	536	215	24%	48%	28%	0%
	Spout Spring	Appomattox		60	881.12	673.37		335	16%	30%	46%	8%
	Lily Pond	Dinwiddie	Carson	80	2197.74	1930		115	13%	60%	27%	0%
		Total Numbe	er of Solar Farms	50								
			Average	66.76	1006.61	755.54				53%		5%
			Median	31.50	566.01	520.44						0%
			High	500.00	6412.00	3500.00	2755.0	1280.0	59%	100%	92%	43%
			Low	4.99	12.53	12.53	508.0	100.0	0%	0%	0%	0%

On the following pages I have included summary data on the constructed solar farms indicated above. Similar information is available for the larger set of solar farms in the adjoining states in my files if requested.



115: Buckingham Solar, E. James Anderson Hwy, Buckingham, VA

This project was proposed in 2017 and located on 460 acres with the closest home proposed to be 150 feet from the closest solar panel.

	Acreage	Parcels
Residential	5.95%	71.79%
Agricultural	78.81%	20.51%
Agri/Res	15.24%	7.69%
Total	100.00%	100.00%



121: Scott Solar Project, 1580 Goodes Bridge Rd, Powhatan, VA

This project was built in 2016 and located on 165 acres out of 898 acres for a 17 MW with the closest home proposed to be 730 feet from the closest solar panel. Adjoining Use Breakdown

Total	100.00%	100.00%
Agricultural	27.65%	17.86%
Agri/Res	43.52%	3.57%
Residential	28.83%	78.57%
	Acreage	Parcels



204: 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.

	Acreage	Parcels
Residential	12.59%	76.92%
Agricultural	67.71%	15.38%
Agri/Res	19.70%	7.69%
Total	100.00%	100.00%

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205: Sappony Solar, Sussex Drive, Stony Creek, 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.

	Acreage	Parcels
Residential	12.59%	76.92%
Agricultural	67.71%	15.38%
Agri/Res	19.70%	7.69%
Total	100.00%	100.00%



354: Amazon Solar project East (Eastern Shore), Accomack, VA

This project was built in 2016 for a solar project on a 1,000-acre assemblage for an 80 MW facility. The closest home is 135 feet from the closest panel.

	Acreage	Parcels
Residential	8.18%	63.74%
Agricultural	75.16%	30.77%
Agri/Res	16.56%	3.30%
Substation	0.08%	1.10%
Church	0.01%	1.10%
Total	100.00%	100.00%



364: Remington Solar, 12080 Lucky Hill Rd, Remington, VA

This project was built in 2017 for a solar project on a 125-acre tract for a 20 MW facility. There were some recent home sales adjoining this project, but it was difficult to do any matched pairs. One sale was an older home in very poor condition according to the broker and required crossing railroad tracks on a private road to get access to the home and located across from a large industrial building. The other sale is a renovated historic home on a large tract of land just one parcel north of the large industrial building. These sales essentially have too much static around them to isolate any impacts separate from these other factors.

Adjoining Use Breakdown		
	Acreage	Parcels
Residential	10.24%	65.38%
Agricultural	40.79%	19.23%
Agri/Res	30.87%	7.69%
Warehouse	0.82%	3.85%
Substation	17.28%	3.85%
Total	100.00%	100.00%



### 370: Cherrydale Solar, Seaside Road, Kendall Grove, VA

This project was built in 2017 and located on 180.17 acres for a 20 MW facility.

	Acreage	Parcels
Residential	5.44%	80.77%
Agricultural	92.01%	15.38%
Warehouse	2.55%	3.85%
Total	100.00%	100.00%



### 371: Clarke County Solar, Double Tollgate Road, White Post, VA

This project was built in 2017 and located on a portion of a 234.84-acre tract for a 20 MW facility.

J8		
	Acreage	Parcels
Residential	13.70%	74.19%
Agricultural	38.89%	6.45%
Agri/Res	46.07%	6.45%
Commercial	0.19%	6.45%
Warehouse	0.85%	3.23%
Substation	0.30%	3.23%
Total	100.00%	100.00%



373: Woodland Solar, Longview Drive, Smithfield, VA

This project was built in 2016 for a solar project on a 211.12-acre tract for a 19.7 MW facility. The closest single-family home is 190 feet away from the closest solar panel. The average distance is 606 feet.

	Acreage	Parcels
Residential	8.85%	46.15%
Agricultural	91.08%	46.15%
Cell Tower	0.07%	7.69%
Total	100.00%	100.00%





This project was built in 2016 for a solar project on a 499.52-acre tract for a 20 MW facility. The closest single-family home is 110 feet away from the closest solar panel. The average distance is 1,195 feet.

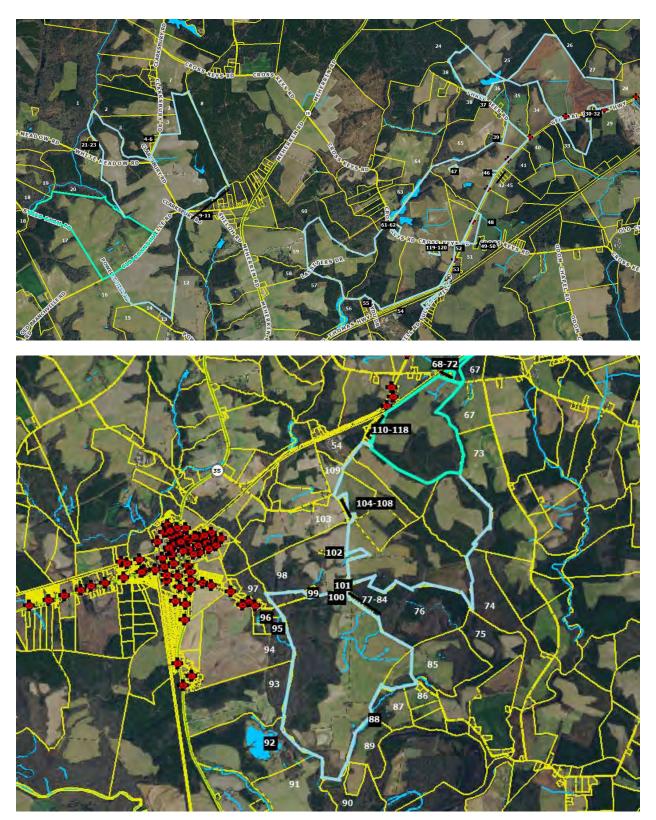
	Acreage	Parcels
Residential	23.55%	70.27%
Agricultural	54.51%	10.81%
Agri/Res	18.22%	2.70%
Commercial	2.49%	13.51%
Industrial	1.22%	2.70%
Total	100.00%	100.00%

#### 484: Essex Solar, Tidewater Trail, Center Cross, VA

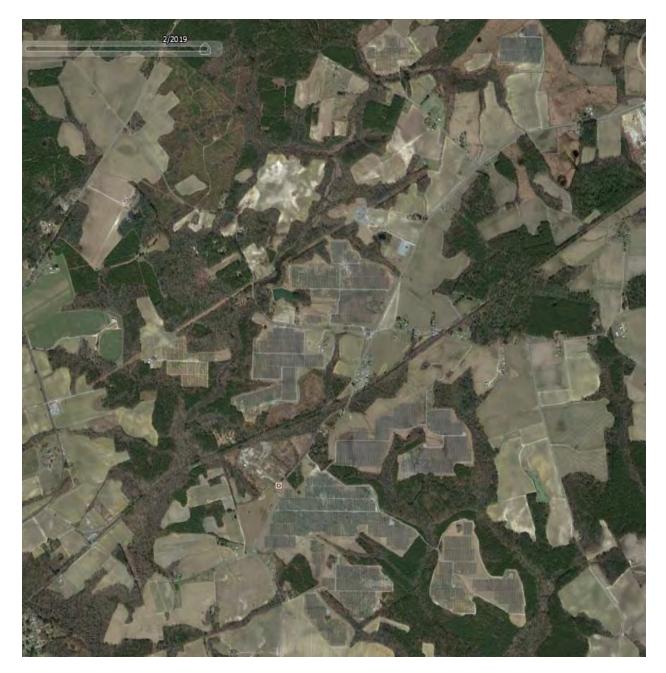


This project was built in 2017 for a solar project on a 106.12-acre tract for a 20 MW facility. The closest single-family home is 360 feet away from the closest solar panel. The average distance is 693 feet.

Adjoining Use Breakdown		
	Acreage	Parcels
Residential	3.13%	57.89%
Agricultural	69.65%	26.32%
Agri/Res	26.99%	10.53%
Religious	0.23%	5.26%
Total	100.00%	100.00%



485: Southampton Solar, General Thomas Hwy, Newsoms, VA



This project was built in 2017 for a solar project on an assemblage of 3,244 acres for a 100 MW facility.

Adjoining Use Breakdown											
	Acreage	Parcels									
Residential	2.56%	53.33%									
Agricultural	77.99%	36.67%									
Agri/Res	16.56%	8.33%									
Industrial	2.89%	1.67%									
Total	100.00%	100.00%									

# 1-d

# VII. 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 property. 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, Louisiana, and New Jersey.

Wherever I have looked at solar farms, I have derived a breakdown of the adjoining uses to show what adjoining uses are typical for solar farms and what uses would likely be considered consistent with a solar farm use similar to the breakdown that I've shown for the subject property on the previous page. 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 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.

On the following pages I have considered matched pair data specific to Virginia and Kentucky.

In the next section I have considered matched pair data throughout the Southeast of the United States as being the most similar states that would most readily compare to Virginia. This includes data from Florida, Georgia, South Carolina, North Carolina, Tennessee, Virginia and Maryland. I focused on projects of 5 MW and larger though I have significant supplemental data on solar farms just smaller than that in North Carolina that show similar results. This data is available in my files.

I have additional supporting information from other states in my files that show a consistent pattern across the United States, but again, I have focused on the Southeast in this analysis.

# A. Virginia Data

I have identified matched pairs adjoining 3 of the 27 solar farms noted above. I have also included data from a solar farm in Kentucky that does a good job of illustrating distant views of solar panels in relation to adjoining housing.

The following pages detail the matched pairs and how they were derived.

1. 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 Afte	r Solar Farı	n Approved
-----------	-------------	------------	--------------	------------

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	Adjoining Sales Adjusted												
Time	Site	YB	GLA	BR/BA	Park	Other	<b>Total</b> \$385,000	% Diff	% Diff	<b>Distance</b> 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	
Adjoining Sales Adjusted											Av	g	
Tin	ıe	Site	YB	GLA	BR/BA	Park	Other Total		% Diff	% D	iff I	Distance	
								\$2	95,000				1230
-\$7,1	100 \$2	25,000	-\$2,500	-\$24,24	-2	\$5,000	\$50,000	0 \$2	96,157	0%			
\$17	77		-\$16,500	-\$42,08	5	-\$10,000	\$50,000	0 \$2	81,592	5%			
-\$7,7	797		\$3,600	\$54,85	7 \$10,000	\$5,000	\$50,000	0 \$2	95,661	0%			
											19	6	



2. 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	Adjoining Residential Sales After Solar Farm Approved													
Solar	Address	Acres	Date Sold	Sales P	rice B	Built Gl	BA S	\$/GBA	BR/B	A Park	Style	Other		
Adjoins	s 5241 Barham	2.65	10/18/2018	\$264,0	00 2	2007 1,6	560 \$	159.04	3/2	Drive	Ranch	Modular		
Not	17950 New Kent	5.00	9/5/2018	\$290,0	00 1	1987 1,7	756 \$	165.15	3/2.5	5 3 Gar	Ranch			
Not	9252 Ordinary	4.00	6/13/2019	\$277,0	00 2	2001 1,6	510 \$	172.05	3/2	1.5-Gar	Ranch			
Not	2416 W Miller	1.04	9/24/2018	\$299,0	00 1	1999 1,8	364 \$	160.41	3/2.5	5 Gar	Ranch			
	Adjoining Sales Adjusted													
Solar	Address 7	lime	Ac/Loc	YB	GLA	BR/BA	Pa	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.



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	Manuf	•
	Not	15698	Concord	3.92	7/31/2018	\$150,000	2010	2,310	\$64.94	4/2	Open	Manuf	Fence
	Not	23209	9 Sussex	1.03	7/7/2020	\$95,000	2005	1,675	\$56.72	3/2	Det Crpt	Manuf	•
	Not	6494	Rocky Br	4.07	11/8/2018	\$100,000	2004	1,405	\$71.17	3/2	Open	Manuf	
Adjoin	ning Sa	les Ad	justed								Av	g	
Tin	Time Site YB		YB	GLA	BR/B	A Park	Othe	er 1	ſotal	% Dif	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	%	



4. 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 500 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 Catharpin 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 P	rice Bu	ilt GBA	\$/GBA	BR/BA	Park	Style	Other
Adjoins	12901 Orng Plnl	s 5.20	8/27/2020	\$319,9	000 19	34 1,714	\$186.64	3/2	Drive	1.5	Un Bsmt
Not	8353 Gold Dale	3.00	1/27/2021	\$415,0	00 20	04 2,064	\$201.07	3/2	3 Gar	Ranch	
Not	6488 Southfork	7.26	9/9/2020	\$375,0	00 20	17 1,680	\$223.21	3/2	2 Gar	1.5	Barn/Patio
Not	Not 12717 Flintlock		12/2/2020	\$290,0	000 19	90 1,592	\$182.16	3/2.5	Det Gar	Ranch	
Adjoinin	ıg Sales Adjuste	d									
Addı	ress Tir	ne	Ac/Loc	YB	GLA	BR/BA	Park	Other	Total	% Dif	ff Dist
12901 Or	ng Plnk								\$319,90	0	1270
8353 Go	ld Dale -\$5,	219	\$20,000	-\$41,500	-\$56,298	3	-\$20,000	C	\$311,98	3 2%	
6488 So	uthfork -\$4	01	-\$20,000	-\$61,875	\$6,071		-\$15,000	C	\$283,79	6 11%	
12717 Fl	intlock -\$2,	312	\$40,000	-\$8,700	\$17,779	-\$5,000	-\$5,000	)	\$326,76	7 -2%	

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
•	ng Sales Adjusted		<b>A</b> = / <b>T</b> = =				Deate	041	<b>m</b> -4-1		f Di-4

2100	
1171	
,	ı

Average 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.

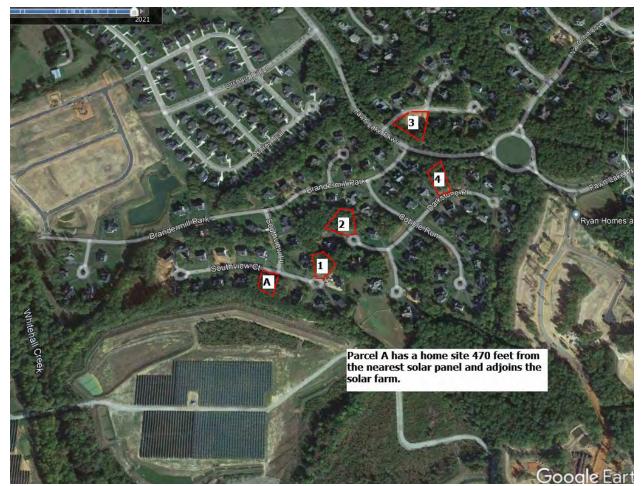
There are a couple of recent lot sales located along Southview Court that have sold since the solar farm was approved. The most recent lot sales include 11700 Southview Court that sold on December 29, 2021 for \$140,000 for a 0.76-acre lot. This property was on the market for less than 2 months before closing within 6% of the asking price. This lot sold earlier in September 2019 for \$55,000 based on a liquidation sale from NTS to an investor.

A similar 0.68-acre lot at 11507 Stonewood Court within the same subdivision located away from the solar farm sold on March 9, 2021 for \$109,000. This lot sold for 18% over the asking price within 1 month of listing suggesting that this was priced too low. Adjusting this lot value upward by 12% for very strong growth in the market over 2021, the adjusted indicated value is \$122,080 for this lot. This is still showing a 15% premium for the lot backing up to the solar farm.

The lot at 11009 Southview Court sold on August 5, 2019 for \$65,000, which is significantly lower than the more recent sales. This lot was sold by NTS the original developer of this subdivision, who was in the process of liquidating lots in this subdivision with multiple lot sales in this time period throughout the subdivision being sold at discounted prices. The home was later improved by the buyer with a home built in 2020 with 2,430 square feet ranch, 3.5 bathrooms, with a full basement, and a current assessed value of \$492,300.

I spoke with Chris Kalia, MAI, Mark Doherty, local real estate investor, and Alex Doherty, broker, who are all three familiar with this subdivision and activity in this neighborhood. All three indicated that there was a deep sell off of lots in the neighborhood by NTS at discounted prices under \$100,000 each. Those lots since that time are being sold for up to \$140,000. The prices paid for the lots below \$100,000 were liquidation values and not indicative of market value. Homes are being built in the neighborhood on those lots with home prices ranging from \$600,000 to \$800,000 with no sign of impact on pricing due to the solar farm according to all three sources.





Fawn Lake Lot Sales

Parcel	Solar?	Address	Acres	Sale Date	Sale Price Ad	. For Time 🤋	6 Diff
Α	Adjoins	11700 Southview Ct	0.76	12/29/2021	\$140,000		
	1 1 parcel away	11603 Southview Ct	0.44	3/31/2022	\$140,000	\$141,960	-1.4%
	2 Not adjoin	11507 Stonewood Ct	0.68	3/9/2021	\$109,000	\$118,374	15.4%
	3 Not adjoin	11312 Westgate Wy	0.83	10/15/2020	\$125,000	\$142,000	-1.4%
	4 Not adjoin	11409 Darkstone Pl	0.589	9/23/2021	\$118,000	\$118,000	15.7%

Average	7.1%
Median	7.0%

Least Adjusted 15.7% 2nd Least Adjusted -1.4% (Parcel 1 off solar farm)

Time Adjustments are based on the FHFA Housing Price Index

5. 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 Reside	ntial	Sales After	r Solar Fa	arm Appr	ove	d									
Parcel	Solar	Ad	ldress	Acres	Date So	ld	Sales	Price	Built	GBA	\$/0	<b>BBA</b>	BR/B	A Park	Style	Other
	Adjoins	250 0	Claiborne	0.96	1/3/20	19	\$120	,000	2000	2,016	\$59	.52	3/2	Drive	Manuf	
	Not	1250	0 Cason	1.40	4/18/20	18	\$95,	000	1994	1,500	\$63	.33	3/2	2-Det	Manuf	Carport
	Not	410	Reeves	1.02	11/27/20	018	\$80,	000	2000	1,456	\$54	.95	3/2	Drive	Manuf	
	Not	315	N Fork	1.09	5/4/20	19	\$107	,000	1992	1,792	\$59	0.71	3/2	Drive	Manuf	
Adjustn	nents														Avg	
Solar	Addre	SS	Time	Site	YB	G	LA	BR/BA	A Park	Otl	ner	То	tal	% Diff	% Diff	Distance
Adjoins	250 Claib	orne										\$120	,000			373
Not	1250 Ca	son	\$2,081		\$2,850	\$20	6,144		-\$5,00	0 -\$5,	000	\$116	,075	3%		
Not	410 Ree	ves	\$249		\$0	\$24	4,615					\$104	,865	13%		
Not	315 N F	`ork	-\$1,091		\$4,280	\$10	0,700					\$120	,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 Sales	Price	Built	GBA	\$/GBA	BR/BA	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	YB	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	\$5,000	)		\$242	,850	-14%		
Not	2160 She	erman	-\$5,672		-\$2,650	-\$20,406				\$236	6,272	-11%		
Not	215 Lexi	ngton	\$1,072		\$3,468	-\$2,559	-\$5,00	0		\$228	3,180	-7%		

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		<b>tal %</b> 8,000	6 Diff	% Diff	<b>Distance</b> 930
		borne	<b>Time</b> \$1,831	Site	<b>YB</b> \$0	<b>GLA</b> -\$20,161	BR/B	A Park	Otł	\$273		6 <b>Diff</b> 10%	% Diff	
Adjoins	370 Clai	borne erman		Site			<b>BR/B</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 project was built in 2016 for a solar project on a 499.52-acre tract for a 20 MW facility. The closest single-family home is 110 feet away from the closest solar panel. The average distance is 1,195 feet.

I have identified one recent adjoining home sale to the north of this project that sold in 2020. I spoke with the broker, Stacie Chandler, who represented the buyer in that transaction. She indicated that the solar farm had no impact on the price that they negotiated on that home. That is supported by the matched pair shown below.

The adjustments shown below make no adjustment for the difference in acreage for the smaller parcels. One of these is on a smaller lot, but located in a golf course community with rear exposure to the golf course. The other is in Mineral and while the lots are not the same size, they are similarly valued. I also adjusted this property upward by \$50,000 for the condition/lack of renovation. This adjustment is based on the fact that this home was renovated following the 2020 purchase and then resold in 2021 for \$75,000 more than the 2020 value. Comparing the 2021 renovated price at \$144/s.f. to the subject property and adjusting on the same rates would require a downward adjustment to the comparable of \$10,400 for time, upward by \$8,325 for year built, and downward by \$5,000 for the extra half bathroom for an indicated adjusted value of \$252,925 which suggests a 5% reduction in value due to the solar farm. Either way this comparable requires significant adjustments and suggests a range of -5% to 0% impact. The Woodger comparable required less

adjustment and suggests an 11% enhancement due to proximity to the solar farm and that is without any consideration of this home having a superior exposure to a golf course.

#### Whitehouse Solar

<b>Solar</b> Adjoins Not Not Not	Address 127 Walnut 126 Woodg 808 Virgin 273 Carson	Wds 4.0 ger 0.6 ia 0.5	09         3/27/2020           53         4/29/2019           51         3/16/2020	) \$240,0 9 \$240,0 ) \$185,0	000 199 000 199 000 199	92 1,956 75 1,806	<b>\$/GBA</b> \$131.58 \$122.70 \$102.44 \$111.74	3/2 3/2+2 3/2.5	<b>Park</b> 2 Gar 2 Gar 2 Gar Drive	<b>Style</b> Br Rnch Br Rnch Br Rnch Ranch	<b>Other</b> Reno Golf Not Brck
<b>Adjoinin</b> <b>Addu</b> 127 Waln 126 Wo 808 Vi 273 Ca	nut Wds oodger rginia	<b>1sted</b> <b>Time</b> \$6,569 \$167 \$11,131	Ac/Loc	<b>YB</b> -\$9,600 \$8,325 -\$1,243	<b>GLA</b> -\$12,95 \$1,475 -\$35,75	-\$5,00	00	\$50,000		000 012 11% 067 0%	f <b>Dist</b> 1400

Average Diff 4%

These matched pairs are generally challenging in that one is shown before and after a renovation suggesting impacts of -5% to 0%. The comparable requiring the least adjustment is on a golf course but it also was not recently renovated which makes it less reliable. Finally, the Carsons property was similar, but older and is not brick. While I adjusted for those factors it really does not make for a great matched pair.

The best indication by the matched pairs is -5% to 0%. The broker involved in the transaction indicated that the solar farm had no impact on property value. Given those comments and the range of impacts shown, I conclude that this home sale near the White House solar project indicates no impact on property value.

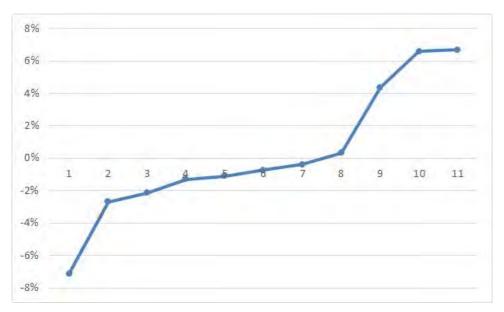
## **Conclusion**

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 \$80,778 with a median housing unit value of \$320,076. Most of the comparables are under \$500,000 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 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.

Mat	ched Pair Sum	nmary				_	Adj. Us	es By	Acreage		1 mile Radi	us (2010-2	2020 Data)	
						Торо						Med.	Avg. Housing	
	Name	City	State	Acres	MW	Shift	Res	Ag	Ag/Res	Com/Ind	Population	Income	Unit	Veg. Buffer
1	Clarke Cnty	White Post	VA	234	20.00	70	14%	39%	46%	1%	578	\$81,022	\$374,453	Light
2	Walker	Barhamsville	VA	485	20.00	N/A	12%	68%	20%	0%	203	\$80,773	\$320,076	Light
3	Sappony	Stony Crk	VA	322	20.00	N/A	2%	98%	0%	0%	74	\$51,410	\$155,208	Medium
4	Spotyslvania	Paytes	VA	3,500	617.00	160	37%	52%	11%	0%	74	\$120,861	\$483,333	Med to Hvy
5	Crittenden	Crittenden	KY	34	2.70	40	22%	51%	27%	0%	1,419	\$60,198	\$178,643	Light
6	White House	Louisa	VA	500	20.00	N/A	24%	55%	18%	3%	409	\$57,104	\$209,286	Medium
	Average			846	116.62	90	19%	61%	20%	1%	460	\$75,228	\$286,833	
	Median			404	20.00	70	18%	54%	19%	0%	306	\$70,486	\$264,681	
	High			3,500	617.00	160	37%	98%	46%	3%	1,419	\$120,861	\$483,333	
	Low			34	2.70	40	2%	39%	0%	0%	74	\$51,410	\$155,208	
	Wheelhouse													
	1 Mile Radius			603	60.00	100	4%	84%	12%	0%	85	\$47,532	\$139,706	
	3 Mile Radius			603	60.00	100	4%	84%	12%	0%	2,420	\$44,941	\$152,481	
	5 Mile Radius			603	60.00	100	4%	84%	12%	0%	4,508	\$45,525	\$160,839	

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% with an average of 0% and a median finding of +1%. As can be seen in the chart of those results below, most of the data points are between -3% 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

	-	-	-		Approx				Adj. Sale	Veg.	
Pair Solar Farm	City	State	Area	мw	Distance	Tax ID/Address	Date	Sale Price	Price	% Diff Buffer	r
1 Clarke Cnty	White Post	VA	Rural	20	1230	833 Nations Spr	Jan-17	\$295,000		Light	
						6801 Middle	Dec-17	\$249,999	\$296,157	0%	
2 Walker	Barhamsville	VA	Rural	20	250	5241 Barham	Oct-18	\$264,000		Light	
						9252 Ordinary	Jun-19	\$277,000	\$246,581	7%	
3 Clarke Cnty	White Post	VA	Rural	20	1230	833 Nations Spr	Aug-19	\$385,000		Light	
						2393 Old Chapel	Aug-20	\$330,000	\$389,286	-1%	
4 Sappony	Stony Creek	VA	Rural	20	1425	12511 Palestine	Jul-18	\$128,400		Mediu	m
						6494 Rocky Branch	Nov-18	\$100,000	\$131,842	-3%	
5 Spotsylvania	Paytes	VA	Rural	617	1270	12901 Orange Plnk	Aug-20	\$319,900		Mediu	m
						12717 Flintlock	Dec-20	\$290,000	\$326,767	-2%	
6 Spotsylvania	Paytes	VA	Rural	617	1950	9641 Nottoway	May-20	\$449,900		Mediu	m
						11626 Forest	Aug-20	\$489,900	\$430,246	4%	
7 Spotsylvania	Paytes	VA	Rural	617	1171	13353 Post Oak	Sep-20	\$300,000		Heavy	
						12810 Catharpin	Jan-20	\$280,000	\$299,008	0%	
8 Crittenden	Crittenden	KY	Suburban	2.7	373	250 Claiborne	Jan-19	\$120,000		Light	
						315 N Fork	May-19	\$107,000	\$120,889	-1%	
9 Crittenden	Crittenden	KY	Suburban	2.7	488	300 Claiborne	Sep-18	\$213,000		Light	
						1795 Bay Valley	Dec-17	\$231,200	\$228,180	-7%	
10 Crittenden	Crittenden	KY	Suburban	2.7	720	350 Claiborne	Jul-18	\$245,000		Light	
						2160 Sherman	Jun-19	\$265,000	\$248,225	-1%	
11 Crittenden	Crittenden	KY	Suburban	2.7	930	370 Claiborne	Aug-19	\$273,000		Light	
					230	125 Lexington	Apr-18	\$240,000	\$254,751	7%	
								<i>q</i> <sub>2</sub> .0,000	<i>q</i> _0.,751		

		Avg.		Indicated
	MW	Distance		Impact
Average	176.53	1,003	Average	0%
Median	20.00	1,171	Median	-1%
High	617.00	1,950	High	7%
Low	2.70	250	Low	-7%

The matched pairs from White House Solar are not included in the breakdown above, but the best indication of impact is between 0 and -5%, which is in keeping with the other noted comparables. Furthermore, the broker for the buyer indicated that the solar farm had no impact on the value and therefore strongly supports the o% impact end of that range.

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.

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+
_		40/	294		DT / A	<b>DT</b> / A	<b>DT</b> / A	<b>NT</b> ( A	<b>DT</b> ( A
Average	N/A	-4%	3%	N/A	N/A	N/A	N/A	N/A	N/A
Median	N/A	-4%	3%	N/A	N/A	N/A	N/A	N/A	N/A
High -	N/A	-1%	7%	N/A	N/A	N/A	N/A	N/A	N/A
Low	N/A	-7%	-1%	N/A	N/A	N/A	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+
Average	N/A	7%	-1%	N/A	N/A	-3%	N/A	N/A	N/A
Median	N/A	7%	-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	7%	-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+
Average	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Median	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
High	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Low	N/A	N/A	N/A	N/A	N/A	N/A	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+
Average	N/A	N/A	N/A	N/A	N/A	1%	N/A	N/A	N/A
Median	N/A	N/A	N/A	N/A	N/A	1%	N/A	N/A	N/A
High	N/A	N/A	N/A	N/A	N/A	4%	N/A	N/A	N/A
Low	N/A	N/A	N/A	N/A	N/A	-2%	N/A	N/A	N/A

# 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	1.27		\$253,600	2013.4	3,418	\$74.27	
	Median	1.13		\$253,000	2013	3,400	\$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 St	ummary							
	Adjoins Sola	r Farm	<b>Nearby Solar Farm</b>					
	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	

0%
) 2%
2 4%
5 -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	<b>Solar</b> Adjoins	<b>Address</b> 2310 Granville	<b>Acres</b> 0.76	<b>Date Sold</b> 5/14/2019	<b>Sales Price</b> \$280,000	<b>Built</b> 2013	<b>GBA</b> 3,292	<b>\$/GBA</b> \$85.05	<b>BR/BA</b> 5/3.5	<b>Park</b> 2-Car	<b>Style</b> 2-Story	Other	<b>Distance</b> 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.

Adjoini	ing Resid	ential Sales Af	ter Sola	r 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	g Sales A	djusted						
Parcel	Solar	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	Solar	Address	Acres		Sales Price			\$/GBA	BR/BA	Park		
15	Adjoins	297 Counti	ry 1.00	9/30/2016	\$150,000	2002	1,596	\$93.98	3/2	4-Gar	Rano	h
	Not	185 Dusty	7 1.85	8/17/2015	\$126,040	2009	1,463	\$86.15	3/2	2-Gar	Rano	ch
	Not	53 Glen	1.13	3/9/2017	\$126,000	1999	1,475	\$85.42	3/2	2-Gar	Rano	h Brick
				Adjoining S	ales Adjuste	đ						
Parcel	Solar	Address	Sales Price	Time	Site YB	GLA	Par	k Otl	ner To	otal	% Diff	Distance
15	Adjoins	297 Country	\$150,000						\$150	0,000		650
	Not	185 Dusty	\$126,040	\$4,355	-\$4,41	1 \$9,16'	7 \$10,0	00	\$14	5,150	3%	
	Not	53 Glen	\$126,000	-\$1,699	\$1,89	0 \$8,26	9 \$10,0	00	\$144	4,460	4%	
									Ave	erage	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	<b>Total</b> \$270,000	% Diff	•	<b>Distance</b> 225
Addr	r <b>ess</b> Hawkins			<b>YB</b> \$2,700	<b>GLA</b> \$32,271	BR/BA	<b>Park</b> -\$10,000	Other		<b>% Diff</b> 5%	•	
Addr 609 Neal 1	r <b>ess</b> Hawkins Modena	Time			\$32,271	<b>BR/BA</b>		<b>Other</b> \$53,100	\$270,000		•	
<b>Addr</b> 609 Neal 1 1418 N M	r <b>ess</b> Hawkins Modena as Bess	<b>Time</b> \$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	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	Adjoining Residential Sales After Solar Farm 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%			

# Adjoining Residential Sales After Solar Farm Built Parcel Solar Address Acres Date Sol

Adjoin	Adjoining Residential Sales After Solar Farm Built													
Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other	Distance	
29	Adjoins	164 Ranchland	1.01	4/30/2019	\$169,000	1999	2,052	\$82.36	4/2	Gar	MFG		440	
	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	Fenced		
												Avg		
	Solar	Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	% Diff		
	Adjoins	164 Ranchland								\$169,000		-10%		
	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%			

## Adjoining Residential Sales After Solar Farm Built

•	0												
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	<b>Solar</b> Nearby	Address 343 Oxford	<b>Acres</b> 10.01	<b>Date Sold</b> 3/9/2017	<b>Sales Price</b> \$490,000	<b>Built</b> 2016	<b>GBA</b> 3,753	<b>\$/GBA</b> \$130.56	<b>BR/BA</b> 3/3	<b>Park</b> 2 Gar	<b>Style</b> 1.5 Story	<b>Other</b> Pool	<b>Distance</b> 970
	Not	287 Oxford	10.01	9/4/2017	\$600,000	2013	4,341	\$138.22	5/4.5	8-Gar	1.5 Story	Pool	
	Not	301 Oxford	10.00	4/23/2018	\$434,000	2013	3,393	\$127.91	5/3	2 Gar	1.5 Story		
	Not	218 Oxford	10.01	4/4/2017	\$525,000	2006	4,215	\$124.56	4/3	4 Gar	1.5 Story	VG Barn	
												Avg	
	Solar	Address	Time	Site	YB	GLA	BR/BA	Park	Other	Total	% Diff	% Diff	
	Adjoins	343 Oxford								\$490,000		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%		

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.

9.6.10 Adjoins 316003 Cozart Kingsmill 9162 Winters 13.22 7/21/2016 \$70,000 \$5,295 8. 316004 Not 6056 Billingsly 427 Young 41 10/21/2016 \$164,000 \$4,000 Not 33211 Fulcher Weikel 10533 Cone 23.46 7/18/2017 \$79,000 \$7,041 Corevel dive for sub, clear Not 106807 Perry Gardner Claude Lewis 11.22 \$79,000 \$7,041 Corevel dive for sub, clear Not 3437 Vaughan N/A 11354 Old 18.73 Listing \$79,000 \$4,266 Small cemetery,wooded Lewis Sch Adjoining Sales Adjusted Time Acres Location Other Adj \$/Ac % Diff \$5,295 \$0 \$400 \$0 \$0 \$4,400 17% -\$292 \$292 \$0 -\$500 \$5,340 -1% -\$352 \$0 \$0 -\$1,000 \$5,689 -7% -\$213 \$0 \$0 \$213 \$4,266 19% Average 7% Adjoining Residential Sales After Solar Farm Completed * Solar Farm 1 Address Acres Date Sold Sales Price Built GLA \$/GLA BR/BA Style Other 9.8.10 Adjoins 9.9162 Winters 13.22 1/5/2017 \$255,000 2016 1,615 \$157.80 3/2 Ranch 1296 sf wrks Not w 7352 Red Fox 0.93 6/30/2016 \$176,000 2010 1,529 \$115.11 3/2 2-story Adjoining Sales Adjusted Time Acres YB GLA Style Other Total % Diff \$255,000	#	Solar Farm		TAX ID	Grantor	Gra	ntee .	Address	Acres	Date Sold	Sales P	rice	\$/AC	Other	
Not       6056       Billingsly       427 Young       41       10/21/2015       \$164,00       \$4000         Not       33211       Pulcher       Weikel       10333 Cone       23.46       7/18/2017       \$137,000       \$58,840       Doublewide, structures         Not       3437       Vaughan       N/A       11354 01d       18.73       Usting       \$79,900       \$7,040       \$68,840       Small cemetery,wooded         Not       3437       Vaughan       N/A       11354 01d       18.73       Usting       \$79,900       \$7,040       \$7,840         Not       3437       Vaughan       N/A       11354 01d       18.73       Usting       \$79,900       \$7,04       \$3,226       Small cemetery,wooded         Adjoining Sales Adjusted       Time       Acres       Location       Other       Adj \$/Ac       % Diff         \$5,295       \$0       \$0       \$0       \$1,000       \$5,689       -7%         -\$292       \$292       \$0       -\$51,000       \$5,689       -7%         -\$213       \$0       \$0       \$213       \$4,266       19%         Adjoining Sales After Solar Farm       Acres       Date Sold Sales Price       Built       GLA       \$/6	&10	Adjoins			Cozart	King	smill 91	52 Winters	13.22	7/21/2016	\$70,0	00	\$5,295		
Not       33211       Pulcher       Weikel       10533 Cone       23.46       7/18/2017       \$137,000       \$5,840       Doublewide, structures         Not       3437       Vaughan       N/A       11354 Old       18.73       Listing       \$79,000       \$5,840       Doublewide, structures         Not       3437       Vaughan       N/A       11354 Old       18.73       Listing       \$79,000       \$5,840       Doublewide, structures         Adjoining Sales Adjusted       Time       Acres       Location       Other       Adj \$/Ac       > Diff       \$5,295         \$0       \$400       \$0       \$0       \$4,400       17%       -\$2292       \$292       \$0       -\$500       \$5,340       -1%         -\$213       \$0       \$0       \$0       \$1,000       \$5,689       -7%       -\$213       \$0       \$0       \$213       \$4,266       19%         Adjoining Residential Sales After Solar Parm Completed       Eulit       GLA       \$/GLA       BR/BA       Style       Other         9 & 0.10       Adjoins       \$9       9162 Winters       13.22       1/5/2017       \$255,000       2016       1,616       \$157.80       3/2       Ranch       1296 sf wida			8												
Not       106807       Perry Vaughan       Gardner N/A       Claude Lewis 11.22       \$/10/2017       \$79,000       \$7,041       Gravel drive for sub, clean Lewis Sch         Not       3437       Vaughan       N/A       11354 Old Lewis Sch       18.73       Listing       \$79,000       \$7,041       Gravel drive for sub, clean Lewis Sch         Adjoining Sales Adjusted       Time       Acres       Location       Other       Adj \$/Ac       % Diff       \$5,295         \$0       \$400       \$0       \$0       \$4,400       17%       -\$292       \$292       \$0       -\$500       \$5,340       -1%         -\$352       \$0       \$0       -\$1,000       \$5,689       -7%       -\$213       \$0       \$0       \$213       \$4,266       19%         Address       Acres       Date Sold Sales Price       Built       GLA       \$/GLA BR/BA       Style       Other         9 & 10       Adjoins p       9162 Winters       13.22       1/5/2017       \$255,000       2016       1,616       \$157.80       3/2       Ranch       1296 sf write         9 & 10       Adjoins p       9162 Winters       13.22       1/5/2017       \$255,000       2016       1,616       \$157.80       3/2       Ranch </th <th></th> <th></th> <th></th> <th></th> <th>0.1</th> <th></th>					0.1										
Not       3437       Vaughan       N/A       11354 Old Lewis Sch       18.73       Listing       \$79,900       \$4,266       Small cemetery,wooded         Adjoining Sales Adjusted       Time       Acres       Location       Other       Adj\$/Ac       % Jiff         \$0       \$400       \$0       \$0       \$4,400       17%         -\$292       \$292       \$0       -\$500       \$5,340       -1%         -\$352       \$0       \$0       \$1,000       \$5,689       -7%         -\$213       \$0       \$0       \$213       \$4,266       19%         Adrerage       7%         Address       Acres       Date Sold Sales Price       Built       GLA       \$/GLA       BE/BA       Style       Other         Adjoining Sales Adjusted       13.22       1/5/2017       \$255,000       2010       1,529       \$115.11       3/2       2.estory         Adjoining Sales Adjusted       Init       Acres       YB       GLA       Style       Other       Total       % Diff															
Lewis Sch           Adjoining Sales Adjusted           Time         Acres         Location         Other         Adj \$/Ac         O Diff           \$0         \$400         \$0         \$0         \$4,400         17%           -\$292         \$292         \$0         -\$500         \$5,340         -1%           -\$252         \$0         \$0         -\$1,000         \$5,689         -7%           -\$213         \$0         \$0         \$213         \$4,266         19%           Average         7%           -\$213         \$0         \$0         \$213         \$4,266         19%           Address         Date Solal Sales Price         Built         GLA         \$/GLA         BR/BA         Style         Other           9 & 10         Adjoins         \$ 9162 Winters         13.22         1/5/2017         \$255,000         2016         1,616         \$157.80         3/2         Ranch         1296 sf wrke           9 & 10         Adjoins         \$ 9162 Winters         13.22         1/5/2017         \$255,000         2016         1,529         \$115.11         3/2         2-story           Address         Acres         Dat					•										
Time       Acres       Location       Other       Adj \$/Ac       % Diff         \$0       \$400       \$0       \$0       \$4,400       17%         -\$292       \$292       \$0       -\$500       \$5,340       -1%         -\$352       \$0       \$0       -\$1,000       \$5,689       -7%         -\$213       \$0       \$0       \$213       \$4,266       19%         Adjoining Residential Sales After Solar Farm tompleted       Solar Farm in Address       Acres       Date Sold Sales Price       Built       GLA       \$7,64A       BR/BA       Style       Other         28:10       Adjoins is 9162 Winters       13.22       1/5/2017       \$255,000       2016       1,616       \$157.80       3/2       Ranch       1296 of wrks         28:10       Adjoins is 9162 Winters       13.22       1/5/2017       \$255,000       2016       1,616       \$157.80       3/2       Ranch       1296 of wrks         Adjoining Bales Adjusted       Not       YE       GLA       Style       Other       Total       % Diff		Not		3437	Vaughan	N			18.73	Listing	\$79,9	00	\$4,266	Small ceme	tery,wooded
\$5,295 \$0 \$400 \$0 \$0 \$4,400 17% -\$292 \$292 \$0 -\$500 \$5,340 -1% -\$352 \$0 \$0 -\$1,000 \$5,689 -7% -\$213 \$0 \$0 \$213 \$4,266 19% <b>Average 7%</b> djoining Residential Sales After Solar Farm Completed <u>* Solar Farm n Address Acres Date Sold Sales Price Built</u> Not * 7352 Red Fox 0.93 6/30/2016 \$176,000 2010 1,529 \$115.11 3/2 2-story Adjoining Sales Adjusted Time Acres YB GLA Style Other Total % Diff				Adj	joining	Sales	Adjust	ed							
\$0 \$400 \$0 \$0 \$4,400 17% -\$292 \$292 \$0 -\$500 \$5,340 -1% -\$352 \$0 \$0 -\$1,000 \$5,689 -7% -\$213 \$0 \$0 \$213 \$4,266 19% Average 7% djoining Residential Sales After Solar Farm Completed <u>* Solar Farm n Address Acres Date Sold Sales Price Built</u> GLA \$/GLA BR/BA Style Other P & 10 Adjoins g 9162 Winters 13.22 1/5/2017 \$255,000 2016 1,616 \$157.80 3/2 Ranch 1296 sf wrks Not w 7352 Red Fox 0.93 6/30/2016 \$176,000 2010 1,529 \$115.11 3/2 2-story Adjoining Sales Adjusted Time Acres YB GLA Style Other Total % Diff					Time	Ac	res Lo	cation	Othe	r Adj \$	\$/Ac	% I	Diff		
-\$292 \$0 -\$500 \$5,340 -1% -\$352 \$0 \$0 -\$1,000 \$5,689 -7% -\$213 \$0 \$0 \$213 \$4,266 19% Average 7% -\$213 Address After Solar Farm Completed <u>* Solar Farm n Address Acres Date Sold Sales Price Built</u> 2 & 10 Adjoins g 9162 Winters 13.22 1/5/2017 \$255,000 2016 Not v 7352 Red Fox 0.93 6/30/2016 \$176,000 2010 Adjoining Sales Adjusted Time Acres YB GLA Style Other Total % Diff										\$5,2	295				
-\$292 \$0 -\$500 \$5,340 -1% -\$352 \$0 \$0 -\$1,000 \$5,689 -7% -\$213 \$0 \$0 \$213 \$4,266 19% Average 7% -\$253 <u>Address After Solar Farm Completed</u> <u>* Solar Farm n Address Acres Date Sold Sales Price Built</u> <u>9 &amp; 10 Adjoins g 9162 Winters 13.22 1/5/2017 \$255,000 2016</u> Not w 7352 Red Fox 0.93 6/30/2016 \$176,000 2010 Adjoining Sales Adjusted <u>Time Acres YB GLA Style Other Total % Diff</u>					\$0	¢/	00	\$0	\$0	\$1 /	100	17	70/_		
-\$352 \$0 \$0 -\$1,000 \$5,689 -7% -\$213 \$0 \$0 \$213 \$4,266 19% Average 7% djoining Residential Sales After Solar Farm Completed <u>* Solar Farm n Address Acres Date Sold Sales Price Built</u> 9 & 10 Adjoins g 9162 Winters 13.22 1/5/2017 \$255,000 2016 1,616 \$157.80 3/2 Ranch 1296 sf wrks Not v 7352 Red Fox 0.93 6/30/2016 \$176,000 2010 1,529 \$115.11 3/2 2-story Adjoining Sales Adjusted Time Acres YB GLA Style Other Total % Diff															
-\$213 \$0 \$0 \$213 \$4,266 19% Average 7% djoining Residential Sales After Solar Farm Completed * Solar Farm n Address Acres Date Sold Sales Price Built % 10 Adjoins g 9162 Winters 13.22 1/5/2017 \$255,000 2016 1,616 \$157.80 3/2 Ranch 1296 sf wrks Not w 7352 Red Fox 0.93 6/30/2016 \$176,000 2010 1,529 \$115.11 3/2 2-story Adjoining Sales Adjusted Time Acres YB GLA Style Other Total % Diff					-\$292	\$2	292	\$0	-\$500	) \$5,3	340	-1	.%		
djoining Residential Sales After Solar Farm Completed # Solar Farm n       Address       Acres       Date Sold Sales Price       Built       GLA       \$/GLA       BR/BA       Style       Other         0 & 10       Adjoins gs       9162 Winters       13.22       1/5/2017       \$255,000       2016       1,616       \$157.80       3/2       Ranch       1296 sf wrks         Not       v       7352 Red Fox       0.93       6/30/2016       \$176,000       2010       1,529       \$115.11       3/2       2-story         Addjoining Sales Adjusted       Time       Acres       YB       GLA       Style       Other       Total       % Diff					-\$352	\$	80	\$0	-\$1,00	00 \$5,0	689	-7	%		
djoining Residential Sales After Solar Farm Completed <b># Solar Farm n Address Acres Date Sold Sales Price Built GLA \$/GLA BR/BA Style Other</b> 0 & 10 Adjoins 5 9162 Winters 13.22 1/5/2017 \$255,000 2016 1,616 \$157.80 3/2 Ranch 1296 sf wrks Not 10 7352 Red Fox 0.93 6/30/2016 \$176,000 2010 1,529 \$115.11 3/2 2-story Adjoining Sales Adjusted Time Acres YB GLA Style Other Total % Diff					-\$213	\$	80	\$0	\$213	\$4,2	266	19	9%		
djoining Residential Sales After Solar Farm Completed <b># Solar Farm n Address Acres Date Sold Sales Price Built GLA \$/GLA BR/BA Style Other</b> 0 & 10 Adjoins <u>5</u> 9162 Winters 13.22 1/5/2017 \$255,000 2016 1,616 \$157.80 3/2 Ranch 1296 sf wrks Not 10 7352 Red Fox 0.93 6/30/2016 \$176,000 2010 1,529 \$115.11 3/2 2-story Adjoining Sales Adjusted Time Acres YB GLA Style Other Total % Diff										Δver	age		7%		
# Solar Farm n       Address       Acres       Date Sold Sales Price       Built       GLA       \$/GLA       BR/BA       Style       Other         9 & 10       Adjoins       19       9162 Winters       13.22       1/5/2017       \$255,000       2016       1,616       \$157.80       3/2       Ranch       1296 sf wrks         Not       10       7352 Red Fox       0.93       6/30/2016       \$176,000       2010       1,529       \$115.11       3/2       2-story       2-story         Adjoining Sales Adjusted       Time       Acres       YB       GLA       Style       Other       Total       % Diff										////	490		770		
# Solar Farm n       Address       Acres       Date Sold Sales Price       Built       GLA       \$/GLA       BR/BA       Style       Other         9 & 10       Adjoins       19       9162 Winters       13.22       1/5/2017       \$255,000       2016       1,616       \$157.80       3/2       Ranch       1296 sf wrks         Not       10       7352 Red Fox       0.93       6/30/2016       \$176,000       2010       1,529       \$115.11       3/2       2-story       2-story         Adjoining Sales Adjusted       Time       Acres       YB       GLA       Style       Other       Total       % Diff	djoin	ing Residen	tial	Sales Aft	er Solar F	arm Cor	npleted								
Not iv 7352 Red Fox 0.93 6/30/2016 \$176,000 2010 1,529 \$115.11 3/2 2-story Adjoining Sales Adjusted Time Acres YB GLA Style Other Total % Diff	#	Solar Farm	n	Addres	ss /	Acres	Date Sold	I Sales Pric	ce Bu	ilt GL	A \$/G	<b>LA</b>	BR/BA	Style	Other
Adjoining Sales Adjusted Time Acres YB GLA Style Other Total % Diff	&10	Adjoins	<u>ş</u> s	9162 Win	iters	13.22	1/5/2017	\$255,000	20	16 1,61	.6 \$157	7.80	3/2	Ranch	1296 sf wrkshj
Time Acres YB GLA Style Other Total % Diff		Not	10	7352 Red	Fox	0.93	6/30/2016	5 \$176,000	) 20	1,52	9 \$115	5.11	3/2	2-story	
Time Acres YB GLA Style Other Total % Diff															
•		Ad	-	-	ales Ac	•									
\$255.000							D	CT A	C+-	-1o Ot	hor	- Т.	stal	% Diff	
			Ti	me	Acres	; 1	D	GLA	SLY		nei	10	JLAI	/0 DIII	

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 D	ate Sold	Sales Price	Built	GBA	\$/GBA	BR/BA	Parl	C C	Style	Note
Adjoins	13670 Highland	5.00 8	/21/2017	\$255,000	1997	1,512	\$168.65	3/3	Carport/W	/rkshp	Ranch	Renov.
Not	2901 Arrowsmith	1.91 1	/31/2018	\$225,000	1979	1,636	\$137.53	3/2	2 Garage/V	Wrkshp	Ranch	
Not	602 Butch Cassidy	1.00 5	5/5/2017	\$220,000	2001	1,560	\$141.03	3/2	N/A		Ranch	Renov.
Not	2908 Wild West	1.23 7	/12/2017	\$254,000	2003	1,554	\$163.45	3/2	2 Garage/V	Wrkshp	Ranch	Renov.
Not	13851 Highland	5.00 9	/13/2017	\$240,000	1978	1,636	\$146.70	4/2	3 Gara	ige	Ranch	Renov.
Solar	TAX ID/Address	•	ng Sales A	•	GLA	BI	R/BA	Park	Note	Tota	1 %	Diff
Solar	TAX ID/Address	Time	Acres	YB	GLA	BI	R/BA	Park	Note	Tota		Diff
Adjoins	13670 Highland									\$255,0	00	
Not	2901 Arrowsmith	\$2,250	\$10,000	\$28,350	-\$8,52	7 \$5	5,000 -	\$10,000	\$10,000	\$262,0	73	-3%
Not	600 Dutah Casaid	- 000	\$10,000	-\$6,160	-\$3,38	ت d• a	5,000	\$2,000		\$00F 0	<b>FF</b>	
NOL	602 Butch Cassidy	7 -\$2,200	) \$10,000	-\$0,100	-\$3,30	5	5,000	φ2,000		\$225,2	55	12%
Not	2908 Wild West	-\$2,200 \$0	\$10,000		-\$3,38		,	\$10,000		\$225,2 \$244,9		12% 4%

# 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 is 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.





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

8. Matched Pair – McBride Place Solar Farm, Midland, NC

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.

Solar	Address	Acres	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	) 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	
djoinin	g Sales Adj	usted									
Time	Acres	YB	Condition	GLA	BR/BA	Р	ark	Other	<b>Total</b> \$325,00		Diff
+	+	+ ·									
\$7,500	\$52,000	-\$12,250	\$10,000	\$2,273	-\$2,000	\$2	,500	\$7,500	\$317,52	23 2	2%
\$7,100	-\$48,000	\$4,970		\$23,156	\$0	\$3	,000	-\$15,000	\$330,22	26 -	2%
, ,		-\$3,749	\$20,000	-\$35,832	\$0		\$0	\$7,500	\$296,70	~ (	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 ensures 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	g Lot Sale	es After Solar Fa	rm 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%	

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

Adjoining Sales	s Adjustee	đ								Avg	
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 bedrooms, 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.

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 Afte	r Solar 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.

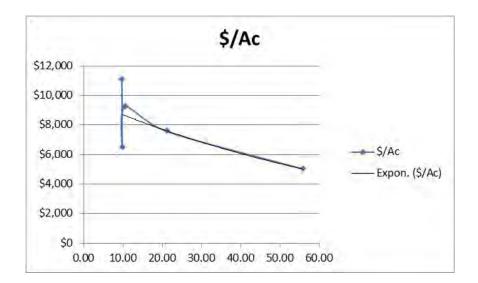
Solar	Address	Acre	Date S	Sold	Sales Price	e Built	GBA	\$/GBA	BR/BA	Park	Style	Other	
Adjoins	242 Mariposa	2.91	9/21/2	2015	\$180,000	1962	1,880	\$95.74	3/2	Carport	Br/Rnc	h Det W	rkshop
Not	249 Mariposa	0.48	3/1/2	019	\$153,000	1974	1,792	\$85.38	4/2	Garage	Br/Rnc	h	
Not	110 Airport	0.83	5/10/2	2016	\$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	<b>Total</b> \$180,000	
Solar	Address	Acres D 2.91 9	ate Sold	Appro Sales \$180	oved Adjoi Price Tin	ne YB	Acre						
<b>Solar</b> Adjoins	<b>Address</b> 242 Mariposa	Acres D 2.91 9 0.48 3	<b>ate Sold</b> /21/2015	<b>Appro</b> <b>Sales</b> \$180 \$153	oved Adjoi Price Tin 0,000	ne YB 807 -\$12,8	<b>Acre</b> 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.

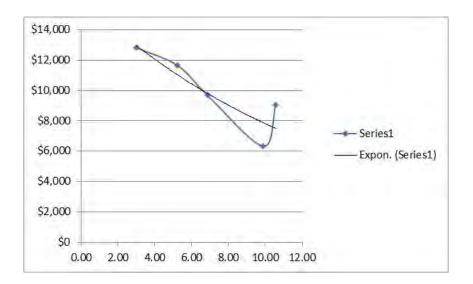
I have also considered the recent sale of Parcel 13 that is located on Blacksnake Road south of the project. I was unable to find good land sales in the same 20-acre range, so I have considered sales of larger and smaller acreage. I adjusted each of those land sales for time. I then applied the price 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.

Adjoining Residential Land Sales After Solar Farm Approved Adjoining Sales Adjus											
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	1 Sales	After Solar	Farm Approv	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





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 R	esidential	Sales A	fter Solar	Farm Ap	proved
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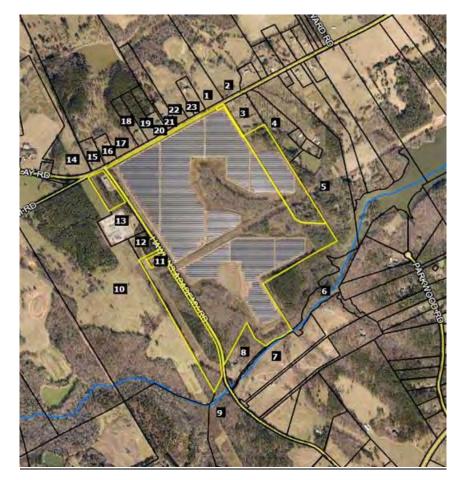
Parcel	Solar	Address	Acres	Date Sold	Sales Price	Built	GBA	\$/GLA	BR/BA	Park	Style	Other
3	Adjoins	833 Nations Spr	5.13	8/18/2019	\$385,000	1979	1,392	\$276.58	3/2	Det Gar	Ranch	UnBsmt
	Not	167 Leslie	5.00	8/19/2020	\$429,000	1980	1,665	\$257.66	3/2	Det2Gar	Ranch	
	Not	2393 Old Chapel	2.47	8/10/2020	\$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
Adioi	ning Sa	les Adjusted								Αv	o	

Aujoining	Sales Au	justeu							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	Ac	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	ales Ad	ljusted								Av	g	
Tin	ıe	Site	YB	GLA	BR/BA	Park	Other		Fotal	% Diff	% D	iff I	Distance
								\$2	95,000				1230
-\$7,1	100 \$	25,000	-\$2,500	-\$24,24	12	\$5,000	\$50,00	0 \$2	96,157	0%			
\$17	77		-\$16,500	-\$42,08	35	-\$10,000	\$50,00	0 \$2	81,592	5%			
-\$7,7	797		\$3,600	\$54,85	7 \$10,000	\$5,000	\$50,00	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

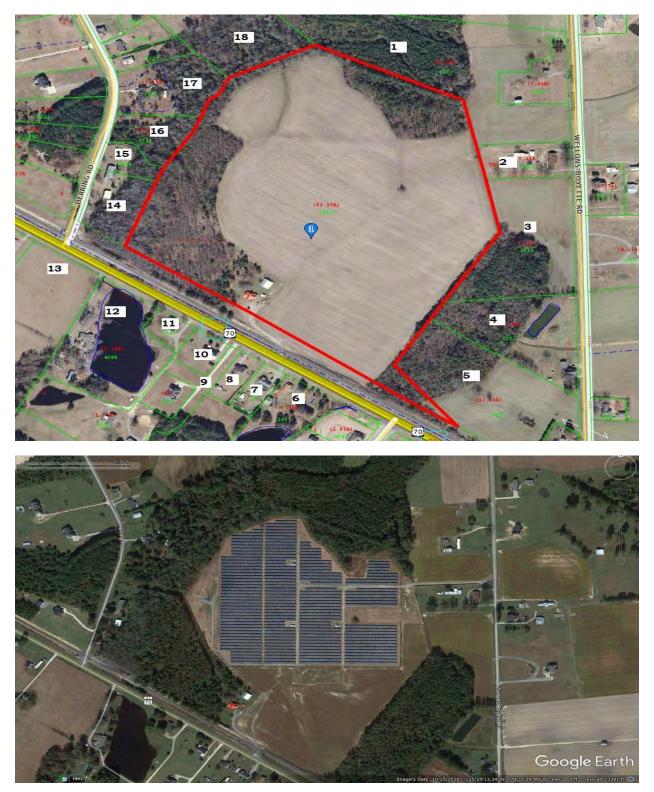
Parcel	Solar	Address	Acres	Date Sold	Sales Price	\$/AC	Туре	Other
7+	Adjoins	4514 Hawkins	36.86	3/31/2016	\$180,000	\$4,883	Pasture	Esmts
	Not	HD Atha	69.95	12/20/2016	\$357,500	\$5,111	Wooded	N/A
	Not	Pannell	66.94	11/8/2016	\$322,851	\$4,823	Mixed	*
	Not	1402 Roy	123.36	9/29/2016	\$479,302	\$3,885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

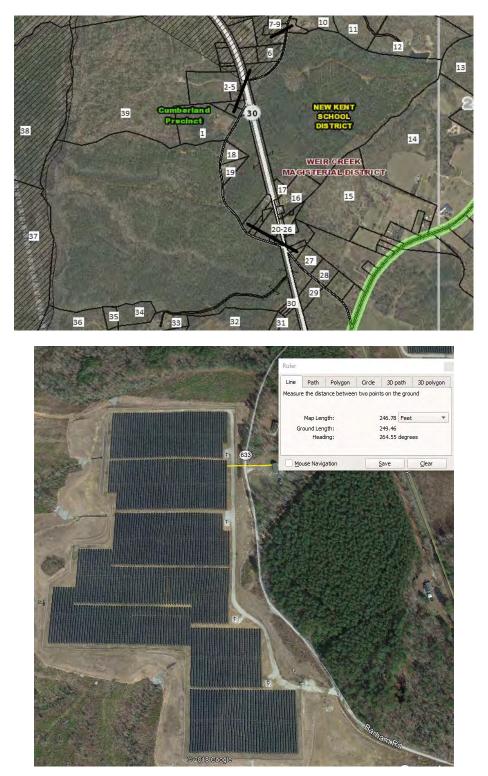
Adjoini	ing Land	Sales After So	lar Farm	Approved			Adjoinin	g Sales A	Adjusted	l	
Parcel	Solar	Address	Acres	Date Sold	Sales Price	Other	Time	Site	Other	Total	% Diff
16	Adjoins	499 Herring	2.03	5/1/2017	\$30,000					\$30,000	
	Not	37 Becky	0.87	7/23/2019	\$24,500	Sub/Pwr	-\$1,679	\$4,900		\$27,721	8%
	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>	<b>.</b>	0/ <b>D.00</b>	-	<b></b>
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 Sal	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/Ren	tal
Not	2109 John McM.	7.78	4/25/2018	\$320,000	1978	2,474	\$129.35	3/2	Det Gar	Ranch	Vinyl/Pool,Stab	le
											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	-\$10,00	0		\$368,074	4%		
Not	2109 John McM.	\$8,333		-\$3,200	\$39,023	\$10,000	C	\$5,000	\$379,156	5 2%		
.djoini1	ng Residential Sa	les After	Solar Farm	Approved								
<b>Solar</b> Adjoins Not Not	Address 2935 County Ln 3005 Hemingway 7031 Glynn Mill	<b>Acres</b> 1.19 1.17 0.60	<b>Date Sold</b> 6/18/2019 5/16/2019 5/8/2018	<b>Sales Price</b> \$266,000 \$269,000 \$255,000	<b>Built</b> 2019 2018 2017 2018	<b>GBA</b> 2,401 2,601 2,423 2,400	<b>\$/GBA</b> \$110.79 \$103.42 \$105.24 \$108.33	<b>BR/BA</b> 4/3 4/3 4/3 4/3	<b>Park</b> Gar Gar Gar	Style 2-Story 2-Story 2-Story	Other	Distance 330
<b>Solar</b> 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	<b>Date Sold</b> 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	
<b>Solar</b> Adjoins Not Not	Address 2935 County Ln 3005 Hemingway 7031 Glynn Mill	<b>Acres</b> 1.19 1.17 0.60	<b>Date Sold</b> 6/18/2019 5/16/2019 5/8/2018	<b>Sales Price</b> \$266,000 \$269,000 \$255,000	2019 2018 2017	2,401 2,601 2,423	\$110.79 \$103.42 \$105.24	4/3 4/3 4/3 4/3 <b>Other</b>	Gar Gar Gar	2-Story 2-Story 2-Story		
Solar Adjoins Not Not Not Solar	Address 2935 County Ln 3005 Hemingway 7031 Glynn Mill 5213 Bree Brdg Address	Acres 1.19 1.17 0.60 0.92	<b>Date Sold</b> 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 <b>Total</b>	2-Story 2-Story 2-Story 2-Story	Avg % Diff	
Solar Adjoins Not Not Not Solar	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	<b>Date Sold</b> 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 Gar 3-Gar <b>Total</b> \$266,000	2-Story 2-Story 2-Story 2-Story % Diff	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.

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 Sal	es After S	olar Far	m Approve	d							
Parcel	Solar	Addr	ess	Acres	Date Sold	Sales 1	Price	Built	GBA	\$/GB/	A BR/BA	A Park	Style
	Adjoins	7513 Gler	n Willow	0.79	9/1/2017	\$185,	000	1989	1,492	\$123.9	9 3/2	Gar	BR/Rnch
	Not	2968 1	ſram	0.69	7/17/2017	′\$155,	000	1984	1,323	\$117.1	6 3/2	Drive	BR/Rnch
	Not	205 Pin	e Burr	0.97	12/29/201	7 \$191,	000	1991	1,593	\$119.9	0 3/2.5	Drive	BR/Rnch
	Not	1217 Old H	loneycutt	1.00	12/15/201	7 \$176,	000	1978	1,558	\$112.9	7 3/2.5	2Carprt	VY/Rnch
Adjustn	nents												Avg
Solar	Ad	dress	Time	Site	YB	GLA	BR/B	A Par	rk O	ther	Total	% Diff	% Diff
Adjoins	7513 Gl	len Willow								\$	185,000		
Not	2968	8 Tram	\$601		\$3,875	\$15,840		\$10,	000	\$	185,316	0%	
Not	205 P	ine Burr	-\$1,915		-\$1,910	-\$9,688	-\$5,00	00		\$	172,487	7%	
Not	1217 Old	l Honeycut	-\$1,557		\$9,680	-\$5,965	-\$5,00	00	\$5	5,280 \$	178,438	4%	



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	9 Sussex	1.03	7/7/2020	\$95,000	2005	1,675	\$56.72	3/2	Det Crpt	Manut	Ĩ
	Not	6494 ]	Rocky Br	4.07	11/8/2018	\$100,000	2004	1,405	\$71.17	3/2	Open	Manut	1
Adjoin	ning Sa	les Adj	justed								Av	g	
Tin	ne	Site	YB	GLA	BR/B	A Park	Othe	er 1	Fotal	% Dif	f % D	iff I	Distance
								\$1	28,400				1425
\$0	)		\$2,250	-\$21,29	99 \$5,000	)		\$1	35,951	-6%			
-\$5,6	560 \$2	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	%	



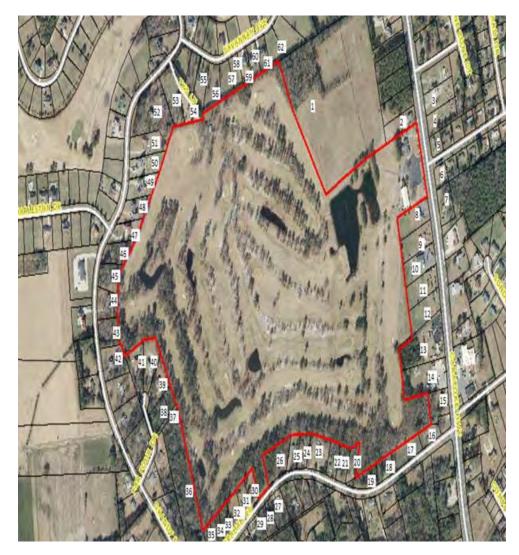
This 5 MW project was built in 2019 and located on a portion of 49.83 acres.

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 Residentia	al Sale	es After S	olar Farm	Approved	L								
Solar	Address	5	Acres	Date So	d Sales P	rice E	uilt	GBA	\$/G	LA BR/	BA	Park	Styl	e Other
Adjoins	122 N Mill E	Dam	12.19	11/29/20	18 \$350,0	000	2005	2,334	\$149.	96 3/3	.5	3-Gar	Ranc	h
Not	548 Trotma	an	12.10	5/31/20	18 \$309,0	000	2007	1,960	\$157.	65 4/	2	Det2G	Ranc	h Wrkshp
Not	198 Sand H	ills	2.00	12/22/20	17 \$235,0	000	2007	2,324	\$101.	12 4/	3	Open	Ranc	h
Not	140 Sleepy I	Hlw	2.05	8/12/20	19 \$330,0	000	2010	2,643	\$124.	86 4/	3	1-Gar	1.5 St	ory
•	ıg Sales Ad	•											Avg	
Addr		ime	Site	YB	GLA	BR/B	A Par	k	Other	Total	% D	liff	% Diff	Distance
122 N Mi	ill Dam									\$350,000				342
548 Tro	tman \$6	,163		-\$3,090	\$35,377	\$5,000	)			\$352,450	-19	%		
198 San	d Hills \$8	.808	\$45,000	-\$2,350	\$607		\$30.0	000		\$317.064	9%	6		
	α 111110 φ0	,000	φ+0,000	φ2,000	φ007		φου,	500		φσ17,001	, ,	0		

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	s After S	Solar Farm	Approved	1								
Solar	Add	ress	Acres	Date Sold	l Sales H	Price E	Built	GBA	\$/G	LA BR/	BA 1	Park	Styl	e Other
Adjoins	120 Pa	ar Four	0.92	8/17/2019	9 \$315,	000	2006	2,188	\$143	.97 4/	3 2	2-Gar	1.5 Ste	ory Pool
Not	102 T	eague	0.69	1/5/2020	\$300,	000	2005	2,177	\$137	.80 3/	'2 D	et 3G	Ranc	h
Not	112 Me	adow Lk	0.92	2/28/2019	\$265,	000	1992	2,301	\$115	.17 3/	2	Gar	1.5 Ste	ory
Not	116 Ba	arefoot	0.78	9/29/2020	\$290,	000	2004	2,192	\$132	.30 4/	3 2	2-Gar	2 Sto	ry
Adjoinin	g Sales	Adjuste	d										Avg	
Addro	ess	Time	Site	YB	GLA	BR/B	<b>A</b> 1	Park	Other	Total	% Di	ff 9	% Diff	Distance
120 Par	Four									\$315,000				405
102 Tea	ague	-\$4,636		\$1,500	\$910	\$10,00	00		\$20,000	\$327,774	-4%	)		
112 Mea	low Lk	\$4,937		\$18,550	-\$7,808	\$10,00	00 \$2	10,000	\$20,000	\$320,679	-2%	)		
116 Bar	efoot	-\$12,998		\$2,900	-\$318				\$20,000	\$299,584	5%			
													0%	

Solar	Addr	ress	Acres	Date Sol	d Sales F	rice	Buil	t GBA	\$/G	LA BR/	BA Park	: Styl	e Other
Adjoins	269 Gi	randy	0.78	5/7/2019	\$275,0	000	2019	1,53	5 \$179	15 3/2	.5 2-Ga	r Ranc	h
Not	307 Gi	randy	1.04	10/8/201	8 \$240,0	000	2002	2 1,634	4 \$146	.88 3/	2 Gar	1.5 St	ory
Not	103 Bi	ranch	0.95	4/22/202	0 \$230,0	000	2000	) 1,532	2 \$150	13 4/	2 2-Ga	r 1.5 St	ory
Not	103 Spi	ring Lf	1.07	8/14/201	8 \$270,0	000	2002	1,63	5 \$165	14 3/	2 2-Ga	r Ranc	h Pool
Adjoinin	g Sales	Adjuste	d									Avg	
Addre	ss	Time	Site	YB	GLA	BR/I	BA	Park	Other	Total	% Diff	% Diff	Distance
269 Gra	andy									\$275,000			477
307 Gra	andy	\$5,550		\$20,400	-\$8,725	\$5,0	00	\$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	00		-\$20,000	\$275,912	0%		
-												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.

Aajoinin	g Resident:	ial Sales	After Sol	ar Farm A	pproved								
Solar	Addre	ess	Acres	Date So	ld Sales	Price	Built	GBA	\$/GBA	BR/BA	Park	Style	Other
Adjoins	517 Old Ch	arleston	11.05	8/25/20	20 \$110	0,000	1962	925	\$118.92	3/1	Crport	Br Rnch	
Not	133 Buena	a Vista	2.65	6/21/20	20 \$11	5,000	1979	1,104	\$104.17	2/2	Crport	Br Rnch	
Not	214 Cryst	al Spr	2.13	6/10/20	19 \$102	2,500	1970	1,025	\$100.00	3/2	Crport	Rnch	
Not	1429 La	urel	2.10	2/21/20	19 \$126	5,000	1960	1,250	\$100.80	2/1.5	Open	Br Rnch	3 Gar/Brn
Adjoinin	g Sales Adjı	usted										Avg	
Add	lress	Time	Site	YB	GLA	BR/I	BA	Park	Other	Total	% Diff	% Diff	Distance
	<b>lress</b> Charleston	Time	Site	YB	GLA	BR/I	BA	Park	Other	<b>Total</b> \$110,000		-	Distance 505
517 Old 0		<b>Time</b> \$410	<b>Site</b> \$17,000	<b>YB</b> -\$9,775	<b>GLA</b> -\$14,917	<b>BR/I</b> -\$10,0		Park	Other			-	
517 Old C 133 Bue	Charleston						000	Park	<b>Other</b> \$10,000	\$110,000	11%	-	
517 Old C 133 Bue 214 Cr	Charleston ena Vista	\$410	\$17,000	-\$9,775	-\$14,917	-\$10,0	000	<b>Park</b> \$5,000		\$110,000 \$97,718	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.

Adjoin	ing Resid	lential Sales A	fter So	lar Farm A	pproved							
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			\$129,000	1982	1,012	\$127.47	2/2	Crprt	Manuf	Canal
Adioin	ing Sale	s Adjusted									Avg	
-	ldress	Time	YB	GLA	BR/BA	Park	Other	Tot	a1 (	% Diff	% Diff	Distance
	apaya Cr			42.1	210, 211		0 1 1 0 1	\$155,		/• 2111	/0 2111	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,	018	9%	8%	
Adiain	in a Booic	lential Sales A	fton So	lon Form A	nnord							
•	Solar	Address		•	Sales Price	Built	GBA	\$/GLA	BR/BA	Park	Style	Other
	Adjoins	455 Papaya	0.12	9/1/2020	\$183,500	2005	1,620	\$113.27	3/2	Crprt	Manuf	Canal
19	Not									-		Canal
		938 Waterway	0.11	2/12/2020	\$160,000	1986	1,705	\$93.84	2/2	Crprt	Manuf	
	Not	719 Barefoot	0.12	4/14/2020	\$150,000	1996	1,635	\$91.74	3/2	Crprt	Manuf	Canal
	Not	904 Fir	0.17	9/27/2020	\$192,500	2010	1,626	\$118.39	3/2	Crprt	Manuf	Canal
-	-	s Adjusted									Avg	
	<b>ldress</b> Papaya	Time	YB	GLA	BR/BA	Park	Other	<b>Tot</b> \$183,		% Diff	% Diff	<b>Distanc</b> 750
938 W	Vaterway	\$2,724	\$15,200	-\$6,381				\$171,	542	7%		
7191	Barefoot	\$1,770	\$6,750	-\$1,101				\$157,		14%		
	04 Fir		-\$4,813	-\$568				\$186,		-2%		
		+	\$ 1,010	<i><b>4000</b></i>				<i><i><i></i></i></i>		1,0	6%	
Adioin	ing Resid	lential Sales A	fter 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	
Adioin	ing Sale	s Adjusted									Avg	
-	ldress	Time	YB	GLA	BR/BA	Park	Other	Tot	al (	% Diff	-	Distance
	Papaya	me	15	<b>UDA</b>	DR/DA	I al K	other	\$127,			/0 0111	690
	1 5	¢1 000	¢6 006	¢5 000						00/		090
	Tamarind		-\$6,026	-\$5,090			<b>dF</b> 000	\$124,		2%		
	Papaya	\$3,637	\$0	\$4,876			\$5,000	\$122,		4%		
418	Papaya	-\$399	-\$550	\$3,878			\$5,000	\$117,	930	8%	5%	
• • •	1	1	<b>G</b>	1 D								
-	-	iential Sales A				<b>D</b> . 11	0.5.4	<b>A</b> ( <b>C</b>	<b>DD</b> /D -	<b>D</b> 1	O4. 1	041
	Solar	Address			Sales Price		GBA 010		BR/BA		Style	Other
39	Adjoins	413 Papaya	0.09	7/16/2020	\$130,000	2001	918	\$141.61	2/2	Crprt	Manuf	Grn/Upd
	Not	341 Loquat	0.09	2/3/2020	\$118,000	1985	989	\$119.31	2/2	Crprt	Manuf	Full Upd
	Not	1119 Pocatella	0.19	1/5/2021	\$120,000	1993	999	\$120.12	2/2	Crprt	Manuf	Green
	Not	1367 Barefoot	0.10	1/12/2021	\$130,500	1987	902	\$144.68	2/2	Crprt	Manuf	Green/Upd

Adjoining Sales	Adjusted								Avg	
<b>Address</b> 413 Papaya	Time	YB	GLA	BR/BA	Park	Other	<b>Total</b> \$130,000	% Diff	% Diff	<b>Distance</b> 690
341 Loquat	\$1,631	\$9,440	-\$6,777				\$122,294	6%		090
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%	

•	ning Resid			-	-	<b>D</b>		# (OT 4		<b>n</b> 1	a. 1	0.11
	Solar	Address			Sales Price		<b>GBA</b>	••	BR/BA		Style	Other
48	Adjoins	343 Papaya	0.09	12/17/2019	. ,	1986	1,508	\$96.15	3/2	Crprt		Gn/Fc/Upd
	Not	865 Tamarind		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
Adjoin	ning Sale	s Adjusted									Avg	
	<b>ddress</b> Papaya	Time	YB	GLA	BR/BA I	Park	Other	<b>Tot</b> a \$145,		6 Diff	% Diff	<b>Distance</b> 690
	Tamarind	\$3,566	-\$6,026	\$10,963				\$142,		2%		050
	Papaya	. ,	\$13,775	. ,				\$150,		-4%		
	Tamarind	. ,	. ,	. ,			¢= 000	\$130,		-4%		
849	Tamarina	\$2,273	-\$8,525	-\$15,030			\$5,000	\$138,	/1/	4%	10/	
											1%	
•	0	dential Sales A		-	-	Built	GBA	\$/GLA	BR/BA	Park		Other
Parcel	Solar	Address	Acres	Date Sold	Sales Price		<b>GBA</b> 1, 180	<b>\$/GLA</b> \$93.22			Style	<b>Other</b> Green
•	<b>Solar</b> Nearby	<b>Address</b> 335 Papaya	<b>Acres</b> 0.09	<b>Date Sold</b> 4/17/2018	<b>Sales Price</b> \$110,000	1987	1,180	\$93.22	2/2	Crprt	<b>Style</b> Manuf	Green
Parcel	<b>Solar</b> Nearby Not	<b>Address</b> 335 Papaya 865 Tamarind	<b>Acres</b> 0.09 0.12	Date Sold 4/17/2018 2/4/2019	Sales Price \$110,000 \$133,900	1987 1995	1,180 1,368	\$93.22 \$97.88	2/2 2/2	Crprt Crprt	<b>Style</b> Manuf Manuf	
Parcel	<b>Solar</b> Nearby Not Not	<b>Address</b> 335 Papaya 865 Tamarind 501 Papaya	Acres 0.09 0.12 0.10	<b>Date Sold</b> 4/17/2018 2/4/2019 6/15/2018	<b>Sales Price</b> \$110,000 \$133,900 \$109,000	1987 1995 1986	1,180 1,368 1,234	\$93.22 \$97.88 \$88.33	2/2 2/2 2/2	Crprt Crprt Crprt	<b>Style</b> Manuf Manuf Manuf	Green
Parcel	<b>Solar</b> Nearby Not	<b>Address</b> 335 Papaya 865 Tamarind	Acres 0.09 0.12 0.10	Date Sold 4/17/2018 2/4/2019	<b>Sales Price</b> \$110,000 \$133,900 \$109,000	1987 1995	1,180 1,368	\$93.22 \$97.88	2/2 2/2	Crprt Crprt	<b>Style</b> Manuf Manuf	Green
Parcel 52	Solar Nearby Not Not Not	<b>Address</b> 335 Papaya 865 Tamarind 501 Papaya	Acres 0.09 0.12 0.10	Date Sold 4/17/2018 2/4/2019 6/15/2018	<b>Sales Price</b> \$110,000 \$133,900 \$109,000	1987 1995 1986	1,180 1,368 1,234	\$93.22 \$97.88 \$88.33	2/2 2/2 2/2	Crprt Crprt Crprt	<b>Style</b> Manuf Manuf Manuf	Green
Parcel 52 Adjoin	Solar Nearby Not Not Not	Address 335 Papaya 865 Tamarind 501 Papaya 604 Puffin	Acres 0.09 0.12 0.10	Date Sold 4/17/2018 2/4/2019 6/15/2018 10/23/2018	Sales Price \$110,000 \$133,900 \$109,000 \$110,000	1987 1995 1986	1,180 1,368 1,234	\$93.22 \$97.88 \$88.33	2/2 2/2 2/2 2/2 2/2	Crprt Crprt Crprt	<b>Style</b> Manuf Manuf Manuf Manuf	Green Green
Parcel 52 Adjoin	Nearby Not Not Not	Address 335 Papaya 865 Tamarind 501 Papaya 604 Puffin s Adjusted	Acres 0.09 0.12 0.10 0.09	Date Sold 4/17/2018 2/4/2019 6/15/2018 10/23/2018	Sales Price \$110,000 \$133,900 \$109,000 \$110,000	1987 1995 1986 1988	1,180 1,368 1,234 1,320	\$93.22 \$97.88 \$88.33 \$83.33	2/2 2/2 2/2 2/2 2/2	Crprt Crprt Crprt Crprt	Style Manuf Manuf Manuf Manuf	Green Green
Parcel 52 Adjoin Adjoin 335	Solar Nearby Not Not Not ning Sales ddress	Address 335 Papaya 865 Tamarind 501 Papaya 604 Puffin s Adjusted Time	Acres 0.09 0.12 0.10 0.09	Date Sold 4/17/2018 2/4/2019 6/15/2018 10/23/2018 GLA	Sales Price \$110,000 \$133,900 \$109,000 \$110,000	1987 1995 1986 1988	1,180 1,368 1,234 1,320	\$93.22 \$97.88 \$88.33 \$83.33 <b>Tot</b> :	2/2 2/2 2/2 2/2 2/2 <b>al %</b> 000	Crprt Crprt Crprt Crprt	Style Manuf Manuf Manuf Manuf	Green Green Distance
Parcel 52 Adjoin A 335 865	Solar Nearby Not Not Not <b>aing Sales</b> <b>ddress</b> 5 Papaya	Address 335 Papaya 865 Tamarind 501 Papaya 604 Puffin s Adjusted Time	Acres 0.09 0.12 0.10 0.09 YB	Date Sold 4/17/2018 2/4/2019 6/15/2018 10/23/2018 GLA	Sales Price \$110,000 \$133,900 \$109,000 \$110,000	1987 1995 1986 1988	1,180 1,368 1,234 1,320 Other	\$93.22 \$97.88 \$88.33 \$83.33 <b>Tot:</b> \$110,	2/2 2/2 2/2 2/2 2/2 al % 0000 517	Crprt Crprt Crprt Crprt Crprt	Style Manuf Manuf Manuf Manuf	Green Green Distance
Parcel 52 Adjoin Adjoin 865 501	Solar Nearby Not Not Not <b>aing Sales</b> <b>ddress</b> Papaya Tamarind	Address 335 Papaya 865 Tamarind 501 Papaya 604 Puffin s Adjusted Time -\$3,306	Acres 0.09 0.12 0.10 0.09 <b>YB</b> -\$5,356	Date Sold 4/17/2018 2/4/2019 6/15/2018 10/23/2018 GLA -\$14,721	Sales Price \$110,000 \$133,900 \$109,000 \$110,000	1987 1995 1986 1988	1,180 1,368 1,234 1,320 Other \$0	\$93.22 \$97.88 \$88.33 \$83.33 <b>Tot:</b> \$110, \$110,	2/2 2/2 2/2 2/2 2/2 al % 000 517 187	Crprt Crprt Crprt Crprt Crprt 6 <b>Diff</b> 0%	Style Manuf Manuf Manuf Manuf	Green Green Distance

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	ate Sold	Sales Price	Built	GBA	\$/GLA	BR/B	A Park	Style	Other
26	Adjoins	13600 SW	182nd	4.20 1	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 1	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	\$583,70	3 \$30,000			\$1,72	23,930	-2%		
14311	l SW 187th	\$1,298		\$16,50	\$600,17	78 \$10,000			\$1,72	27,976	-3%		

\$10,000

\$69,200 -\$98,043

-2%

-2%

\$1,713,199

\$2,041

17950 SW 158th

107



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%	
	<b>Time</b> -\$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 A	djusted									
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.

There are a couple of recent lot sales located along Southview Court that have sold since the solar farm was approved. The most recent lot sales include 11700 Southview Court that sold on December 29, 2021 for \$140,000 for a 0.76-acre lot. This property was on the market for less than 2 months before closing within 6% of the asking price. This lot sold earlier in September 2019 for \$55,000 based on a liquidation sale from NTS to an investor.

A similar 0.68-acre lot at 11507 Stonewood Court within the same subdivision located away from the solar farm sold on March 9, 2021 for \$109,000. This lot sold for 18% over the asking price within 1 month of listing suggesting that this was priced too low. Adjusting this lot value upward by 12% for very strong growth in the market over 2021, the adjusted indicated value is \$122,080 for this lot. This is still showing a 15% premium for the lot backing up to the solar farm.

The lot at 11009 Southview Court sold on August 5, 2019 for \$65,000, which is significantly lower than the more recent sales. This lot was sold by NTS the original developer of this subdivision, who was in the process of liquidating lots in this subdivision with multiple lot sales in this time period throughout the subdivision being sold at discounted prices. The home was later improved by the buyer with a home built in 2020 with 2,430 square feet ranch, 3.5 bathrooms, with a full basement, and a current assessed value of \$492,300.

I spoke with Chris Kalia, MAI, Mark Doherty, local real estate investor, and Alex Doherty, broker, who are all three familiar with this subdivision and activity in this neighborhood. All three indicated that there was a deep sell off of lots in the neighborhood by NTS at discounted prices under \$100,000 each. Those lots since that time are being sold for up to \$140,000. The prices paid for the lots below \$100,000 were liquidation values and not indicative of market value. Homes are being built in the neighborhood on those lots with home prices ranging from \$600,000 to \$800,000 with no sign of impact on pricing due to the solar farm according to all three sources.

#### Conclusion – SouthEast Over 5 MW

	theast USA Ov								•		1	De dine (0	010 0000 D-4-V	
Mat	ched Pair Sun	imary				Торо	Adj. Us	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	\$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
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%		,	\$483,333	
	Low			35	5.00	0	1%	0%	0%	0%	48	. ,	\$99,219	
	201					0					.0	,		

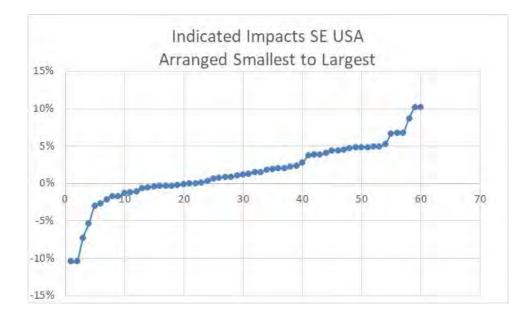
The solar farm matched pairs shown above have similar characteristics to each other in terms of population, but with several outliers showing solar farms in farm more urban areas. The median income for the population within 1 mile of a solar farm is \$60,037 with a median housing unit value of \$231,408. 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
<b>Pair Solar Farm</b> 1 AM Best	<b>City</b> Goldsboro	<b>State</b> NC	<b>MW</b> 5	Approx Distance 280	<b>Tax ID/Address</b> 3600195570	<b>Date</b> Sep-13	<b>Sale Price</b> \$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 matched r	airs Aujon	ung Soi	Approx				Adj. Sale		Veg.
<b>Pair Solar Farm</b> 30 AM Best	<b>City</b> Goldsboro	<b>State</b> NC	<b>м w</b> 5		<b>Tax ID/Address</b> 2310 Granville	<b>Date</b> May-19	<b>Sale Price</b> \$280,000	•		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	StonyCreek	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	Bare foot 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
					1367 Barefoot	Jan-21	\$130,500	\$139,507	-7%	
50 Barefoot Bay	Barefoot Bay	FL	74.5	690	343 Papaya	Dec-19	\$145,000			Light
					865 Tamarind	Feb-19	\$133,900	\$142,403	2%	
51 Barefoot Bay	Barefoot Bay	FL	74.5	710	335 Papaya	Apr-18	\$110,000			Light
					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	*		Light
	_				17950 SW 158th	Oct-20		\$1,713,199	-2%	
53 Spotsylvania	Paytes	VA	617	1270	12901 Orange Plnk	Aug-20	\$319,900	****		Medium
					12717 Flintlock	Dec-20	\$290,000	\$326,767	-2%	
54 Spotsylvania	Paytes	VA	617	1950	9641 Nottoway	May-20	\$449,900	a		Medium
			<i></i>		11626 Forest	Aug-20	\$489,900	\$430,246	4%	
55 Spotsylvania	Paytes	VA	617	1171	13353 Post Oak	Sep-20	\$300,000	#005 55 ·		Heavy
					12810 Catharpin	Jan-20	\$280,000	\$299,008	0%	
56 McBride Place	Midland	NC	75	470	5833 Kristi	Sep-20	\$625,000	AFC - 25-		Light
					4055 Dakeita	Dec-20	\$600,000	\$594,303	5%	

	Avg.		Indicated
МW	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.

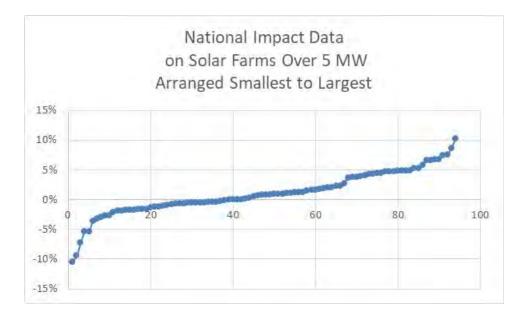
The solar farms summary is shown below with a summary of the matched pair data shown on the following page.

Mat	ched Pair Sum	imary					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	ΤX	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%		\$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.

Matched Pair Summary - @20 MW 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%	2,446	\$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.

Matched Pair Summary - @50 MW And Larger							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
	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	FL	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	FL	Parrish	Manatee	74.5	1180.4		1,079	625	2%	50%	1%	47%
337	FL	Arcadia	Citrus	74.5	640				0%	0%	100%	0%
338	FL	Port Charlotte	Babcock	74.5	422.61				0%	0%	100%	0%
353	VA	Oak Hall	Amazon East(ern sh	80	1000		645	135	8%	75%	17%	0%
364	VA	Stevensburg	Greenwood	100	2266.6	1800	788	200	8%	62%	29%	0%
368	NC	Warsaw	Warsaw	87.5	585.97	499	526	130	11%	66%	21%	3%
390	NC	Ellerbe	Innovative Solar 34	50	385.24	226	N/A	N/A	1%	99%	0%	0%
399	NC	Midland	McBride	74.9	974.59	627	1,425	140	12%	78%	9%	0%
400	FL	Mulberry	Alafia	51	420.35		490	105	7%	90%	3%	0%
	VA	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	,	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			165	16%	61%	16%	7%
	NC	Misenheimer	Misenheimer 2018	80	740.2			130	11%	40%	22%	27%
	VA	Shacklefords	Walnut	110	1700			165	14%	72%	13%	1%
	VA	Clover	Piney Creek	80	776.18	422		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	507		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	-	275	1%	90%	9%	0% 0%
	NC FL	Mooresboro	Broad River Durrance	50 74.5	759.8	365 324.65	419 438	70 140	29% 3%	55% 97%	16% 0%	0% 0%
	NC	Mulberry Yadkinville		60	403.37	324.05		65	3% 19%	97% 39%	20%	22%
	NC	Enfield	Sugar Halifax 80mw 2019	80		1007.6	582 672	190	19% 8%	39% 73%	20% 19%	22% 0%
	VA	Windsor	Windsor	85	564.1	564.1	572	190	8% 9%	67%	19% 24%	0%
	VA	Paytes	Spotsylvania	500	6412			100	9%	52%	11%	27%
	NC	Salisbury	China Grove	65		324.26		85	58%	4%	38%	0%
	NC	Walnut Cove	Lick Creek	50		185.11	410	65	20%	64%	11%	5%
	NC	Enfield	Sweetleaf	94	1956.3	1250	968	160	5%	63%	32%	0%
	VA	Aylett	Sweet Sue	77	1262		1,617	680	7%	68%	25%	0%
	NC	Windsor	Sumac	120		1257.9	876	160	4%	90%	6%	0%
	TN	Somerville	Yum Yum	147	4000	1500		330	3%	32%	64%	1%
	GA	Waynesboro	White Oak	76.5	516.7		-	1,790	1%	34%	65%	0%
	GA	Butler	Butler GA	103		2395.1		255	2%	73%	23%	2%
	GA	Butler	White Pine	101.2		505.94	,	100	1%	51%	48%	1%
	GA	Metter	Live Oak	51		417.84	,	235	4%	72%	23%	0%
	GA	Hazelhurst	Hazelhurst II	52.5		490.42		105	9%	64%	27%	0%
	GA	Bainbridge	Decatur Parkway	80	781.5			450	2%	27%	22%	49%
	GA	Leslie-DeSoto	Americus	1000	9661.2	4437		510	1%	63%	36%	0%
616		Fort White	Fort White	74.5	570.5			220	12%	71%	17%	0%
	VA	Spring Grove	Loblolly	150	2181.9	1000		110	7%	62%	31%	0%
	VA	Scottsville	Woodridge	138	2260.9	1000		170	9%	63%	28%	0%
	NC	Middlesex	Phobos	80	754.52			57	14%	75%	10%	0%
	MI	Deerfield	Carroll Road	200		1694.8		190	12%	86%	0%	2%
	VA	Emporia	Brunswick	150.2		1387.3		240	4%	85%	11%	0%
033	*11											

				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	εPioneer 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%

# VIII. 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 Virginia, 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.

# IX. <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.

## X. <u>Potential Impacts During Construction</u>

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.

### XI. Scope of Research

I have researched over 750 solar farms and sites on which solar farms are existing and proposed in Virginia, Illinois, Tennessee, North Carolina, Kentucky 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.

U U	ljoining Acrea						Closest	All Res All Comm		
	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 provide a more complete picture of the neighboring properties.

							Closest	All Res All Comm		
	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.

# XII. 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, then 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 how can you claim damages for a less impactful use.

#### 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.

### XIII. 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 Virginia.

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.

### XIV. Certification

I certify that, to the best of my knowledge and belief:

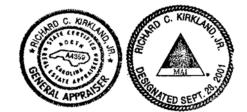
- 1. The statements of fact contained in this report are true and correct;
- 2. The reported analyses, opinions, and conclusions are limited only by the reported assumptions and limiting conditions, and are my personal, unbiased professional analyses, opinions, and conclusions;
- 3. I have no present or prospective interest in the property that is the subject of this report and no personal interest with respect to the parties involved;
- 4. I have no bias with respect to the property that is the subject of this report or to the parties involved with this assignment;
- 5. My engagement in this assignment was not contingent upon developing or reporting predetermined results;
- 6. My compensation for completing this assignment is not contingent upon the development or reporting of a predetermined value or direction in value that favors the cause of the client, the amount of the value opinion, the attainment of a stipulated result, or the occurrence of a subsequent event directly related to the intended use of the appraisal;
- 7. The reported analyses, opinions, and conclusions were developed, and this report has been prepared, in conformity with the requirements of the Code of Professional Ethics and Standards of Professional Appraisal Practice of the Appraisal Institute;
- 8. My analyses, opinions and conclusions were developed, and this report has been prepared, in conformity with the Uniform Standards of Professional Appraisal Practice.
- 9. The use of this report is subject to the requirements of the Appraisal Institute relating to review by its duly authorized representatives;
- 10. I have not made a personal inspection of the property that is the subject of this report, and;
- 11. No one provided significant real property appraisal assistance to the person signing this certification.
- 12. As of the date of this report I have completed the continuing education program for Designated Members of the Appraisal Institute;
- 13. I have not performed services, regarding the property that is the subject of this report within the three-year period immediately preceding acceptance of this assignment.

Disclosure of the contents of this appraisal report is governed by the bylaws and regulations of the Appraisal Institute and the National Association of Realtors.

Neither all nor any part of the contents of this appraisal report shall be disseminated to the public through advertising media, public relations media, news media, or any other public means of communications without the prior written consent and approval of the undersigned.

la Child Jr

Richard C. Kirkland, Jr., MAI State Certified General Appraiser







Richard C. Kirkland, Jr., MAI 9408 Northfield Court Raleigh, North Carolina 27603 Mobile (919) 414-8142 <u>rkirkland2@gmail.com</u> www.kirklandappraisals.com

### **Professional Experience**

<b>Kirkland Appraisals, LLC</b> , Raleigh, N.C. Commercial appraiser	2003 – Present		
Hester & Company, Raleigh, N.C.			
Commercial appraiser	1996 – 2003		
Professional Affiliations			
MAI (Member, Appraisal Institute) designation #11796	2001		
NC State Certified General Appraiser # A4359	1999		
VA State Certified General Appraiser # 4001017291			

SC State Certified General Appraiser # 4001017291 SC State Certified General Appraiser # 6209 FL State Certified General Appraiser # RZ3950 GA State Certified General Appraiser # 321885 MI State Certified General Appraiser # 1201076620 PA State Certified General Appraiser # 6A004598 OH State Certified General Appraiser # 2021008689 IN State Certified General Appraiser # CG42100052

#### Education Bachelor of Arts in English, University of North Carolina, Chapel Hill 1993 **Continuing Education** Uniform Standards of Professional Appraisal Practice Update 2022 Sexual Harassment Prevention Training 2021 Appraisal of Land Subject to Ground Leases 2021 Florida Appraisal Laws and Regulations 2020 Michigan Appraisal Law 2020 Uniform Standards of Professional Appraisal Practice Update 2020 Uniform Appraisal Standards for Federal Land Acquisitions (Yellow Book) 2019 The Cost Approach 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 Undate 2018

Official Standards of Professional Applaisal Practice Opdate	2010
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

Property Tax Values and Appeals1997Uniform Standards of Professional Appraisal Practice, A & B1997Basic Income Capitalization1996	Supervisor/Trainee Class Business Practices and Ethics Subdivision Valuation Uniform Standards of Professional Appraisal Practice Update Introduction to Vineyard and Winery Valuation Appraising Rural Residential Properties Uniform Standards of Professional Appraisal Practice Update Supervisors/Trainees Rates and Ratios: Making sense of GIMs, OARs, and DCFs Advanced Internet Search Strategies Analyzing Distressed Real Estate Uniform Standards of Professional Appraisal Practice Update Business Practices and Ethics Appraisal Curriculum Overview (2 Days – General) Appraisal Review - General Uniform Standards of Professional Appraisal Practice Update Subdivision Valuation: A Comprehensive Guide Office Building Valuation: A Comprehensive Guide Office Building Valuation: A Contemporary Perspective Valuation of Detrimental Conditions in Real Estate The Appraisal of Small Subdivisions Uniform Standards of Professional Appraisal Practice Update Evaluating Commercial Construction Conservation Easements Uniform Standards of Professional Appraisal Practice Update Evaluating Commercial Construction Conservation Easements Uniform Standards of Professional Appraisal Practice Update Condemnation Appraising Land Valuation Adjustment Procedures Supporting Capitalization Rates Uniform Standards of Professional Appraisal Practice, C Wells and Septic Systems and Wastewater Irrigation Systems Appraisals 2002 Analyzing Commercial Lease Clauses Conservation Easements Preparation for Lifugation Appraisal of Nonconforming Uses Advanced Applications Highest and Best Use and Market Analysis Advanced Sales Comparison and Cost Approaches Advanced Income Capitalization Valuation of Detrimental Conditions in Real Estate Report Writing and Valuation Analysis	2015 2014 2014 2013 2012 2012 2011 2011 2011 2011 2011
Report Writing and Valuation Analysis1999Property Tax Values and Appeals1997Uniform Standards of Professional Appraisal Practice, A & B1997	Advanced Income Capitalization	1998
Uniform Standards of Professional Appraisal Practice, A & B 1997	Report Writing and Valuation Analysis	1999
	Uniform Standards of Professional Appraisal Practice, A & B	