

APCo Exhibit No. \_\_\_\_\_  
Witness: HLL

**DIRECT TESTIMONY OF  
HALLIE L. LONG  
FOR APPALACHIAN POWER COMPANY  
IN VIRGINIA S.C.C. CASE NO. PUR-2025-00049**

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**SUMMARY OF DIRECT TESTIMONY OF  
HALLIE L. LONG**

In my direct testimony, I

- Address the Company's EJ screening process and considerations related to the (1) one PPA solar facility in Virginia, and (2) one owned BESS facility in Virginia, that are included in this proceeding.
- Discuss the expectation that the proposed Projects will not negatively impact EJ communities, as well as discuss anticipated community benefits related to the Projects.
- Sponsor the economic impact analysis for the Company's proposed BESS project.

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**DIRECT TESTIMONY OF  
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1   **Q.   PLEASE STATE YOUR NAME, BUSINESS ADDRESS, AND POSITION.**

2   A.   My name is Hallie L. Long. My business address is Three James Center, Suite 1100,  
3       1051 East Cary Street Richmond, Virginia 23219. I am employed by APCo (or the  
4       Company) as a Regulatory Consultant VA/TN.

5   **Q.   PLEASE SUMMARIZE YOUR EDUCATIONAL BACKGROUND AND**  
6       **BUSINESS EXPERIENCE.**

7   A.   I received my Bachelor of Arts from the University of Virginia in 2016, with a  
8       concentration in Foreign Affairs. From 2016 to 2018 I worked as a paralegal at a small  
9       *criminal and family law firm in Charlottesville, Virginia. From 2018 to 2022 I worked as*  
10      a Legal Support Assistant, and later as an Energy Regulatory Paralegal, at Hunton  
11      Andrews Kurth. I supported the Energy and Infrastructure team in the representation of  
12      utility companies, electric cooperatives, and system operators. I assisted with drafting  
13      and filing documents in proceedings before state and federal regulatory commissions and  
14      conducted legal research on market design and energy policy. In June 2022, I accepted  
15      the position of Regulatory Consultant with APCo. I was promoted to Regulatory  
16      Consultant Senior in April 2025.

17   **Q.   HAVE YOU PREVIOUSLY TESTIFIED BEFORE THIS COMMISSION?**

18   A.   Yes. I have presented testimony on behalf of APCo before the Commission in multiple  
19      proceedings, most recently in Case Nos. PUR-2023-00212 and PUR-2024-00024.

1 **Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?**

2 A. As required by the VCEA, the Company issued three separate competitive RFPs in 2024.  
3 After evaluation of the bids, APCo selected one solar PPA project located in Virginia,  
4 and one owned BESS projects located in Virginia. Additionally, the Company selected  
5 one owned wind project located in Illinois. A more detailed summary of the Projects is  
6 included in the testimonies of Company witness Stevens, Miller, and Grisales. In  
7 compliance with the Virginia Environmental Justice Act<sup>1</sup> (VEJA), the Company screened  
8 each of the proposed Virginia Projects for environmental justice concerns. In my  
9 testimony, I will review the environmental justice screening results conducted for each  
10 proposed project site and discuss the anticipated benefits to the surrounding communities.

11 **Q. ARE YOU SPONSORING ANY EXHIBITS IN THIS PROCEEDING?**

12 A. Yes. I sponsor:

- 13 • APCo Exhibit No. \_\_ (HLL) Schedule 1 – EJ Analysis
- 14 • APCo Exhibit No. \_\_ (HLL) Schedule 2 – Wythe BESS Economic Analysis

15 **Q. HOW DO THE PROPOSED SOLAR, STORAGE, AND WIND PROJECTS**  
16 **PROMOTE ENVIRONMENTAL JUSTICE?**

17 A. The transition to a clean energy future requires the construction of new infrastructure.  
18 All new infrastructure projects carry the potential to affect the surrounding communities.  
19 The proposed Projects are expected to have minimal environmental impact and no  
20 significant adverse health impacts to any surrounding communities, including EJ  
21 populations. The Company's Environmental and Social Engagement Policy emphasizes

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<sup>1</sup> Va. Code § 56-265.1 *et seq.*

1 equitable distribution of the benefits of our capital investments and continued meaningful  
2 engagement with all customers and communities, ensuring that no community bears an  
3 unfair burden. The Company seeks to ensure equitable treatment across its service  
4 territory, and provide its customers with access to the benefits of clean energy  
5 development. By locating renewable energy projects in or near environmental justice  
6 communities, in conjunction with community outreach and utilization of local resources,  
7 the proposed Projects have the potential to promote environmental justice.

8 **Q. PLEASE DESCRIBE THE COMPANY'S SCREENING PROCESS FOR**  
9 **ENVIRONMENTAL JUSTICE CONCERNS.**

10 A. In the 2024 RFP, the Company requested bidders to address the provisions of the VEJA  
11 in their responses. The Company also performed its own analysis of all potential project  
12 sites using the DEQ's VAEJScreen+ Mapping Tool. Historically, the Company has also  
13 utilized the US EPA's publicly available Environmental Justice Screening and Mapping  
14 tool (EJScreen), but as of February 5, 2025, this tool is no longer available for use. In  
15 short, the Company evaluated the communities within a one-mile radius of the Projects'  
16 proposed sites to determine the presence of any low-income communities, communities  
17 of color, and fenceline communities.

18 **Q. DID THE COMPANY IDENTIFY ALL LOW-INCOME COMMUNITIES,**  
19 **COMMUNITIES OF COLOR, AND/OR FENCELINE COMMUNITIES WITHIN**  
20 **THE PROPOSED PROJECT AREAS?**

21 A. Yes. The Company's EJ assessments, found in Schedule 1, were conducted using the  
22 DEQ's VAEJScreen+ tool to identify any EJ communities as defined by the VEJA within  
23 a one-mile radius from the boundaries of each of the proposed Projects. Moreover, for

1 each proposed Project, developers were also asked to address environmental justice  
2 considerations in their RFP submissions.

3 **Q. PLEASE EXPLAIN THE COMPANY'S EJ ANALYSIS AND FINDINGS FOR**  
4 **THE 7.5 MW HCE COLLIER SOLAR FACILITY.**

5 A. HCE Collier Solar will be located in Wise County. The population residing within a one-  
6 mile radius of the Project includes two census block groups that are identified as a low-  
7 income environmental justice communities as defined by the VEJA. Additional details  
8 are provided in APCo Exhibit No. \_\_\_\_ (HLL) Schedule 1.

9 **Q. DID HOLOCENE CLEAN ENERGY (HCE), THE DEVELOPER FOR COLLIER**  
10 **SOLAR, ADDRESS ENVIRONMENTAL JUSTICE CONCERNS IN THE**  
11 **PROPOSAL?**

12 A. Yes. HCE included its own EJScreen report with the proposal. HCE emphasized the  
13 intent to establish accounts with local vendors to procure constructure supplies,  
14 estimating approximately \$1.62M in revenue to the local economy through these  
15 purchases. HCE also stated it plans to utilize the local workforce for 85% of the total  
16 anticipated man-hours during the construction phase, with an emphasis on hiring military  
17 veterans. The developer will also participate in the Apprentice Program and pay  
18 prevailing wages to construction workforce.

19 **Q. PLEASE EXPLAIN THE COMPANY'S EJ ANALYSIS AND FINDINGS FOR**  
20 **THE 52.2 WYTHE BESS FACILITY.**

21 A. The Wythe BESS Project will be located in Wythe County, VA. The population residing  
22 within a one-mile radius of the Project includes one census block group that is identified

1 as a low-income environmental justice communities as defined by the VEJA. Additional  
2 details are provided in APCo Exhibit No. \_\_\_\_ (HLL) Schedule 1.

3 **Q. DID RWE, THE DEVELOPER FOR THE WYTHE BESS PROJECT, ADDRESS**  
4 **ENVIRONMENTAL JUSTICE CONCERNS IN THE PROPOSAL?**

5 A. Yes. The developer held an introductory public hearing to provide information and  
6 gather feedback from the local community and committed to a 20-year revenue share  
7 agreement with the county. Additionally, RWE held introductory meetings with the  
8 County EMS and Fire chief to address gaps in training for BESS-related emergency  
9 responses.

10 **Q. WHAT ARE THE ANTICIPATED TAX AND JOBS IMPACTS OF THE**  
11 **CAPITAL EXPENDITURE IN WYTHE COUNTY AND VIRGINIA?**

12 A. The capital expenditure for the Wythe BESS Project is estimated to be approximately  
13 \$164.4M. The planned spend will create an average of 380 total jobs, including 271  
14 direct jobs, per year of the two-year spend period. Both the Commonwealth of Virginia  
15 and the surrounding project area will receive tax benefits associated with the Project  
16 activities. The total anticipated tax impact is \$6.7M. The full economic analysis can be  
17 found in APCo Exhibit No. \_\_\_\_ (HLL) Schedule 2.

18 **Q. DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?**

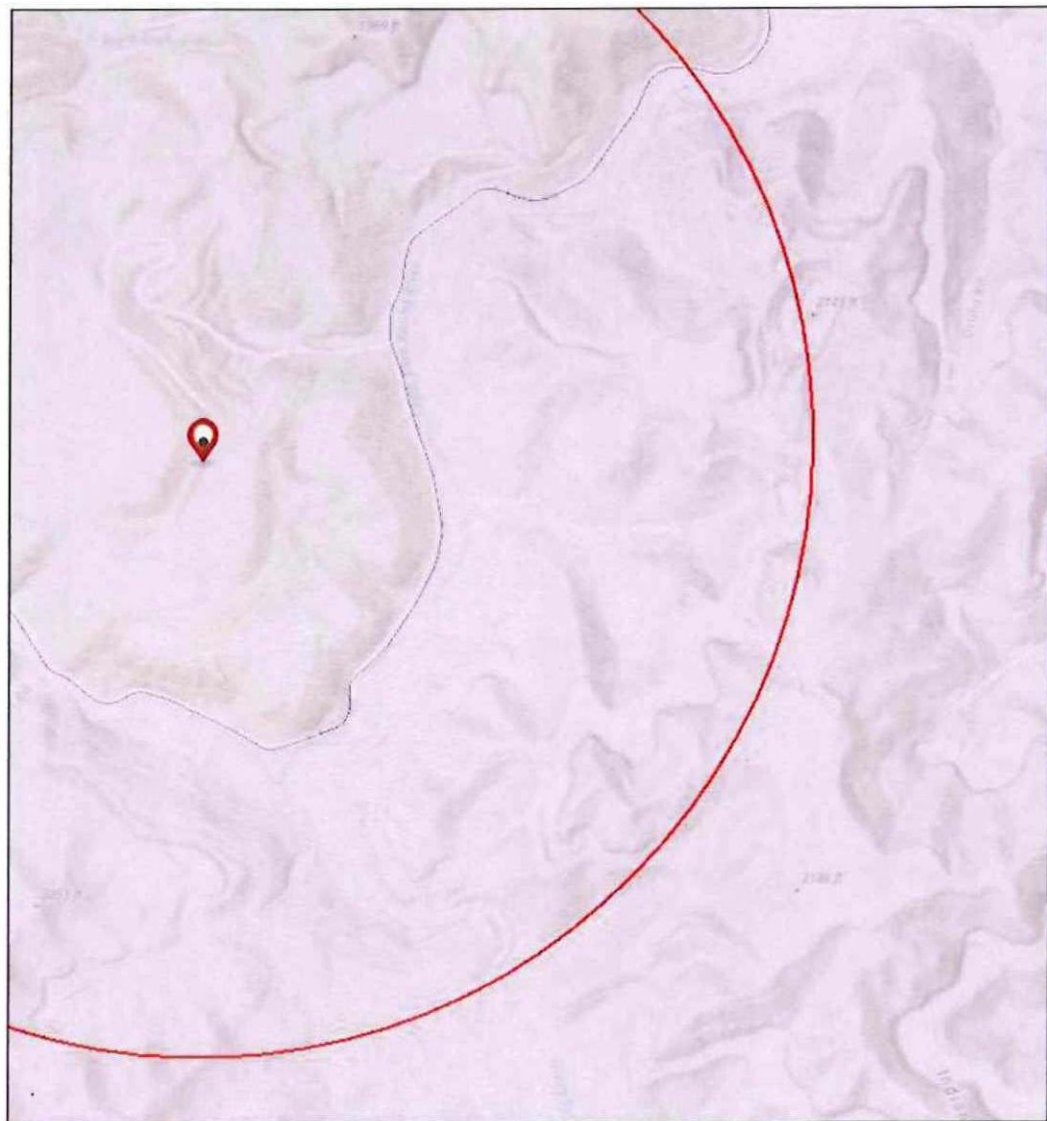
19 A. Yes, it does.



Collier Solar

**Area of Interest (AOI) Information**Area : 87,513,003.6 ft<sup>2</sup>

Feb 13 2025 11:08:34 Eastern Standard Time



Low Income Communities: 30% or More of Population Under HUD 80% AMI and Under Two Times Federal Poverty Level (2010-2018 ACS)  
0.3 - 0.467  
Virginia County Boundaries

1:18,056  
0 0.13 0.25 0.5 mi  
0 0.17 0.35 0.7 km

Virginia Department of Environmental Quality, Esri, NADA, NGA, USGS,  
FEMA, Esri Community Maps Contributors, VGIN, Esri, TomTom, Garmin,  
SafeGraph, GeoTechnologies, Inc., MET/NADA, USGS, EPA, NPS, US  
Census Bureau, USDA, USFWS



## Summary

Name	Count	Area(ft²)	Length(ft)
Low Income Communities- 30% or More of Population Under HUD 80% AMI and Under Two Times Federal Poverty Level (2011-2018 ACS)	2	87,513,004.07	N/A
Communities of Color - Over Statewide Average (37.8%)	0	0	N/A

**Low Income Communities- 30% or More of Population Under HUD 80% AMI and Under Two Times Federal Poverty Level (2011-2018 ACS)**

#	GEO ID	Block Group Number	Total Population	% Below 2x Fed Poverty Level	% Below HUD 80% AMI	Area(ft²)
1	511959308001	Block Group 1, Census Tract 9308, Wise County, Virginia	1230	53.01	42.42	38,401,692.14
2	511959308002	Block Group 2, Census Tract 9308, Wise County, Virginia	864	43.38	46.24	49,111,311.92



## Wythe BESS Report

### Area of Interest (AOI) Information

Area : 87,513,003.25 ft<sup>2</sup>

Feb 13 2025 11:48:57 Eastern Standard Time

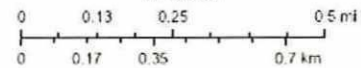


Low Income Community: 30% or More of Population Under HUD 80% AMI and Under Two Times Federal Poverty Level (2010-2018 ACS)

± 0.007 - 0.01

Virginia County Boundaries

1:18,056



Virginia Department of Environmental Quality, Esri, NASA, NOAA, USGS, FEMA, Esri Community Maps Contributors, VGIN, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc., MET/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS

## Summary

Name	Count	Area(ft²)	Length(ft)
Low Income Communities- 30% or More of Population Under HUD 80% AMI and Under Two Times Federal Poverty Level (2011-2018 ACS)	1	87,513,003.25	N/A
Communities of Color - Over Statewide Average (37.8%)	0	0	N/A

Low Income Communities- 30% or More of Population Under HUD 80% AMI and Under Two Times Federal Poverty Level (2011-2018 ACS)

#	GEO ID	Block Group Number	Total Population	% Below 2x Fed Poverty Level	% Below HUD 80% AMI	Area(ft²)
1	511970504023	Block Group 3, Census Tract 504.02, Wythe County, Virginia	1301	64.87	56.88	87,513,003.25

**Capital Expenditures for APCo Virginia Study Area**

Capital expenditure impacts were based off of a proposed capital investment of \$164.4 M. That planned spend will create or support an average of 271 direct jobs per year of the two year project, and 380 jobs per year overall in the economy during the spend period (including the 271 direct jobs). It represents a jobs multiplier of 1.40 and total labor income of \$44.3 M (2025\$). It adds \$76.9 M (2025\$) to the gross regional product (value added).

Impact Type	Employment	Labor Income	Value Added	Output
Direct Effect	541.94	\$32,926,132.54	\$54,076,656.13	\$81,912,103.63
Indirect Effect	76.43	\$4,749,037.57	\$8,682,438.21	\$16,505,156.50
Induced Effect	141.78	\$6,669,698.28	\$14,183,246.84	\$23,492,860.68
Totals	760.16	\$44,344,868.39	\$76,942,341.19	\$121,910,120.81
Type SAM Multiplier	1.40	1.35	1.42	1.49

**Annual Average Employment**

Direct Effect	271
Indirect Effect	38
Induced Effect	71
Total	380

**Capital Expenditures Economic Effects on the Remainder of Virginia**

Capital expenditures in the study area will have spill over effects into the remainder of the Commonwealth of Virginia. These expenditures will affect the supply chain (indirect effects) and employee expenditures (induced effects). A multi-regional input-out model was used to estimate these impacts. The spill over effects will add about 16 jobs per year over the the two year project. These activities add an additional \$3.0 M (2025\$) and an additional \$4.4 M (2025\$) to the gross regional product (value added).

Impact Type	Employment	Labor Income	Value Added	Output
Indirect Effect	21.06	\$2,238,141.02	\$3,007,053.34	\$4,983,968.27
Induced Effect	11.41	\$711,922.27	\$1,420,407.77	\$2,192,149.22
Total Effect	32.47	\$2,950,063.29	\$4,427,461.11	\$7,176,117.49

**Capital Expenditures for APCo Virginia Study Area - Total Effects for Commonwealth of Virginia**

Capital expenditures in study area will have impacts in the study area and the remainder of the Commonwealth of Virginia. The activities associated with the capital spend will create or support 271 jobs per year of the two year project, and 396 jobs overall for the Commonwealth over the spend period including 271 direct jobs. It represents a jobs multiplier of 1.46 and total labor income of \$47.3 M (2025\$). It adds \$81.4 M (2025\$) to the gross regional product (value added).

Impact Type	Employment	Labor Income	Value Added	Output
Direct Effect	541.94	\$32,926,132.54	\$54,076,656.13	\$81,912,103.63
Indirect Effect	97.49	\$6,987,178.59	\$11,689,491.56	\$21,489,124.77
Induced Effect	153.19	\$7,381,620.55	\$15,603,654.61	\$25,685,009.89
Totals	792.62	\$47,294,931.67	\$81,369,802.30	\$129,086,238.29
Type SAM Multiplier	1.46	1.44	1.50	1.58

**Annual Average Employment**

Direct Effect	271
Indirect Effect	49
Induced Effect	77
Total	396

**Taxes as a Result of Capital Expenditures Activities - APCo Virginia Study Area**

Activities associated with the proposed capital expenditures in the study area will result in an estimated \$2,435.8 thousand local taxes, \$3,976.6 thousand state taxes and \$11,836.0 thousand Federal taxes. The estimated total tax impact is \$18,248.4 thousand.

Impact Type	Sub County General	Sub County Special	County	State	Federal	Total	State and Local
Direct Effect	\$375,901.88	\$4,264.58	\$689,815.11	\$2,234,653.44	\$8,621,466.05	\$11,926,101.06	\$ 3,304,635.02
Indirect Effect	\$196,437.99	\$2,252.22	\$357,563.64	\$698,653.69	\$1,303,820.12	\$2,558,727.66	\$ 1,254,907.54
Induced Effect	\$285,923.96	\$3,278.72	\$520,385.58	\$1,043,310.45	\$1,910,706.44	\$3,763,605.14	\$ 1,852,898.70
Total Effect	\$858,263.83	\$9,795.52	\$1,567,764.33	\$3,976,617.58	\$11,835,992.61	\$18,248,433.87	\$ 6,412,441.26

**Taxes as a Result of Capital Expenditures Activities - Virginia**

The Commonwealth of Virginia will have additional taxes as a result of activities in the study area. It is estimate there will be an additional \$147.4 thousand local taxes, an additional \$185.0 thousand state taxes and additional \$647.6 thousand federal taxes. The estimated additional total tax impact is \$980.0 thousand.

Impact Type	Sub County General	Sub County Special	County	State	Federal	Total	State and Local
Indirect Effect	\$23,971.55	\$19.78	\$45,466.96	\$109,018.90	\$477,580.78	\$656,057.97	\$178,477.19
Induced Effect	\$27,099.96	\$22.93	\$50,838.58	\$76,007.22	\$170,014.57	\$323,983.25	\$153,968.68
Total Effect	\$51,071.50	\$42.72	\$96,305.54	\$185,026.11	\$647,595.35	\$980,041.22	\$332,445.88

**Taxes as a Result of Capital Expenditures Activities - Commonwealth of Virginia**

The Commonwealth of Virginia will have taxes as a result of activities in the study area. It is estimate there will be \$2,583.2 thousand local taxes, \$4,161.6 thousand state taxes and \$12,483.6 thousand federal taxes. The estimated total tax impact is \$19,228.5 thousand.

Impact Type	Sub County General	Sub County Special	County	State	Federal	Total	State and Local
Direct Effect	\$375,901.88	\$4,264.58	\$689,815.11	\$2,234,653.44	\$8,621,466.05	\$11,926,101.06	\$ 3,304,635.02
Indirect Effect	\$220,409.54	\$2,272.00	\$403,030.61	\$807,672.59	\$1,781,400.90	\$3,214,785.63	\$ 1,433,384.73
Induced Effect	\$313,023.91	\$3,301.65	\$571,224.16	\$1,119,317.66	\$2,080,721.01	\$4,087,588.40	\$ 2,006,867.38
Total Effect	\$909,335.33	\$9,838.24	\$1,664,069.88	\$4,161,643.69	\$12,483,587.95	\$19,228,475.09	\$ 6,744,887.14