

May 15, 2019  
REPORT DATE

COMMONWEALTH OF VIRGINIA  
STATE CORPORATION COMMISSION

HEARING DATE: May 08, 2019

IN RE: CASE NO. PUR-2018-00065

COMMONWEALTH OF VIRGINIA, ex rel.

In re: Virginia Electric and Power Company's  
Integrated Resource Plan filing pursuant to  
Va. Code 56-597 et seq.

2019 MAY 15 A 9 02  
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COMMISSIONER MARK C. CHRISTIE  
COMMISSIONER JUDITH WILLIAMS JAGDMANN  
The Honorable Judge Mark C. Christie, PRESIDING

APPEARANCES: (14)

Vishwa B. Link, Jennifer D. Valaika, Lisa R. Crabtree, Sarah R. Bennett, and Audrey T. Bauhan, Counsel for the Applicant, Virginia Electric and Power Company

Evan D. Johns and Dorothy E. Jaffe, Counsel for the Virginia Chapter of the Sierra Club ("Sierra Club")

Will Cleveland, Hannah Coman, and Nate Benforado, Counsel for the Respondent, Southern Environmental Law Center

C. Meade Browder and Katherine C. Creef, Counsel for the Office of the Attorney General, Division of Consumer Counsel

Ashley Macko and Kiva Bland Pierce, Counsel for the Commission Staff

WITNESSES: (12)

Victor A. Meyer, 8 Lockhart Circle, Fredericksburg, Virginia 22401 (Public Witness)

Brianna Esteves, Ceres – 99 Chauncy Street, Boston, Massachusetts 02111 (Public Witness)

Freeda Cathcart, 2516 Sweetbriar Avenue, Roanoke Virginia 24015 (Public Witness)

Walton Shepherd, 2105 M. Street, Richmond, Virginia 23223 (Public Witness)

Robert G. Thomas, Director, Energy Market Analysis & Integrated Resource Planning, Dominion Energy Services, Inc., 120 Tredegar Street, Richmond, Virginia 23219

Glenn A. Kelly, Director, Generation System Planning, “Dominion Energy Virginia,” 5000 Dominion Boulevard, Glen Allen, Virginia 23060

Mark D Mitchell, Vice President, Generation Construction, Dominion Energy Services, Inc., 5000 Dominion Boulevard, Glen Allen, Virginia 23060

Deanna R. Kesler, Regulatory Consultant, Demand-Side Planning, “Dominion Energy Virginia”, 120 Tredegar Street, Richmond, Virginia 23219

Earnest J. White, Senior Utilities Analyst, Commission’s Division of Public Utility Regulation, 1300 East Main Street, Richmond, Virginia 23219

Gregory L. Abbott, Deputy Director, Commission’s Division of Public Utility Regulation, 1300 East Main Street, Richmond, Virginia 23219

Carol B. Myers, Deputy Director, Commission’s Division of Utility Accounting and Finance, 1300 East Main Street, Richmond, Virginia 23219

Maria F. Scheller, ICF Resources ("ICF"), 9300 Lee Highway, Fairfax, Virginia 22031

**EXHIBITS: (22)**

57 – Compliance Filing, filed March 07, 2019

58 – Direct Testimony Summary of Robert G. Thomas March 07, 2019

59 – Environmental Respondents Response to 12-25

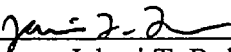
60 – Investor Day Handout

61 – Direct Testimony Summary of Glenn A. Kelly, filed March 07, 2019

62 – Direct Testimony Summary of Deanna R. Kesler, filed March 07, 2019

- 63 - Direct Testimony of Karl R. Rábago, filed April 16, 2019
- 64 - Direct Testimony of James F. Wilson, filed April 16, 2019
- 65 - Direct Testimony of Rachel S. Wilson, filed April 09, 2019
- 66 - Direct Testimony of William Penniman, filed April 09, 2019
- 67 - Direct Testimony of Michael Volpe, filed April 09, 2019
- 68 - Direct Testimony of Michael Goggin, filed April 09, 2019
- 69 - Prefiled Testimony of Earnest J. White, filed April 18, 2019
- 70 - Prefiled Testimony of Gregory L. Abbott, filed April 18, 2019, As Corrected April 29, 2019
- 71 - Prefiled Testimony of Carol B. Myers, filed April 18, 2019
- 72 - Reserved for Late Filed Exhibit
- 73 - Reserved for Late Filed Exhibit
- 74 - Rebuttal Testimony of Glenn A. Kelly, filed April 30, 2019
- 75 - Rebuttal Testimony of Mark D. Mitchell, filed April 30, 2019
- 76 - Staff Interrogatory 22-187 & 22-188
- 77 - Rebuttal Testimony of Deanna R. Kesler, filed April 30, 2019
- 78 - Rebuttal Testimony of Maria F. Scheller, filed April 30, 2019
- 79 - Rebuttal Testimony of Robert G. Thomas, filed April 30, 2019

DISPOSITION: Under Advisement

BAILIFF   
Jabari T. Robinson

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## APPEARANCE FORM

NAME OF COUNSEL (PLEASE PRINT):

Vishwa B. Link  
Lisa R. Crabtree  
Sarah R. Bennett  
Jennifer D. Valaika  
McGuire Woods, LLP  
Gateway Plaza  
800 East Canal Street  
Richmond, VA 23219

MEMBER OF THE VIRGINIA STATE BAR?  YES  NO

NAME AND ADDRESS OF PARTY:

Virginia Electric and Power Company  
120 Tredegar Street  
Richmond, VA 23219

CHECK ONE:

APPLICANT

DEFENDANT

RESPONDENT

STAFF

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## APPEARANCE FORM

NAME OF COUNSEL (PLEASE PRINT):

Audrey T. Bauhan  
Virginia Electric and Power Company  
120 Tredegar Street  
Richmond, VA 23219

MEMBER OF THE VIRGINIA STATE BAR?  YES  NO

NAME AND ADDRESS OF PARTY:

Virginia Electric and Power Company  
120 Tredegar Street  
Richmond, VA 23219

CHECK ONE:

- APPLICANT
- DEFENDANT
- RESPONDENT
- STAFF

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### APPEARANCE FORM

NAME OF COUNSEL (PLEASE PRINT): Dorothy Jaffe

OFFICE ADDRESS: 100 50 F St. NW  
Washington, DC 20001

MEMBER OF THE VIRGINIA STATE BAR? [ ] YES [X] NO

NAME AND ADDRESS OF PARTY:

CHECK ONE:

APPLICANT [ ]

DEFENDANT [ ]

RESPONDENT [X]

STAFF [ ]

Sierra Club  
100 West Franklin St, Mozzanine  
Richmond, VA 23220

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### APPEARANCE FORM

NAME OF COUNSEL (PLEASE PRINT): Evan Johns  
 OFFICE ADDRESS: Appalachian Mt. Advocates  
415 Eighth Street Northeast  
Charlottesville, VA 22902

MEMBER OF THE VIRGINIA STATE BAR?  YES [ ] NO

CHECK ONE:

APPLICANT [ ]

DEFENDANT [ ]

RESPONDENT

STAFF [ ]

NAME AND ADDRESS OF PARTY:  
Sierra Club  
1170 West Franklin St.  
Richmond, VA 23220

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### APPEARANCE FORM

NAME OF COUNSEL (PLEASE PRINT): Will Cleveland, Nate Benfrade, Hannah Coman

OFFICE ADDRESS: SELC  
201 West Main St, Suite 19  
Charlottesville, VA 22902

MEMBER OF THE VIRGINIA STATE BAR?  YES [ ] NO

NAME AND ADDRESS OF PARTY:  
Environmental Respondents

- CHECK ONE:
- APPLICANT [ ] \_\_\_\_\_
  - DEFENDANT [ ] \_\_\_\_\_
  - RESPONDENT  \_\_\_\_\_
  - STAFF [ ] \_\_\_\_\_



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## APPEARANCE FORM

NAME OF COUNSEL (PLEASE PRINT):

C. Meade Browder, Jr.  
Katherine C. Creef  
Office of the Attorney General  
Division of Consumer Counsel  
Richmond, VA 23219

MEMBER OF THE VIRGINIA STATE BAR?  YES  NO

NAME AND ADDRESS OF PARTY:

CHECK ONE:

SAME AS ABOVE

APPLICANT

DEFENDANT

RESPONDENT

STAFF

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### APPEARANCE FORM

NAME OF COUNSEL (PLEASE PRINT): Ashley B. Macko

OFFICE ADDRESS: Senior Counsel

State Corporation Commission

MEMBER OF THE VIRGINIA STATE BAR?  YES  NO

NAME AND ADDRESS OF PARTY:

CHECK ONE:

APPLICANT

DEFENDANT

RESPONDENT

STAFF

\_\_\_\_\_  
\_\_\_\_\_  
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**PUBLIC WITNESS**

NAME (PLEASE PRINT): Victor A. Meyer  
ADDRESS: 8 Lockhart Circle  
Fredericksburg, VA 22401

Please be advised that the information you provide will be made available for public review and will be accessible to the public through the SCC's Docket Search web feature.

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**PUBLIC WITNESS**

NAME (PLEASE PRINT): Brianna Esteves  
ADDRESS: Ceres - 99 Cambridge Street  
Boston, MA 02111

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**PUBLIC WITNESS**

NAME (PLEASE PRINT): Freda Cathart

ADDRESS: 2516 Sweetser Ave  
Round 10 415

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**PUBLIC WITNESS**

NAME (PLEASE PRINT): Walter Shepherd  
ADDRESS: NRDC  
2105 M St.  
23223

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**PUBLIC WITNESS**

NAME (PLEASE PRINT): \_\_\_\_\_

ADDRESS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Please be advised that the information you provide will be made available for public review and will be accessible to the public through the SCC's Docket Search web feature.



THIS WAS PASSED TO FILE  
AT THE 10:00 AM HEARING  
ON MAY 08, 2019  
BY BRIANNA ESTEVES  
CASE NUMBER: PUR-2018-00065

180530001

Adobe Akamai Technologies Apple AWS Iron Mountain Equinix  
LinkedIn Corporation Microsoft Corporation Salesforce QTS

May 8, 2019

As data center providers, customers, and colocation service providers with operations in Virginia, we prefer electricity that is generated by clean, renewable energy. We are writing to express concern regarding the re-stated intentions of energy providers to meet our energy demand with expensive fossil fuel projects.

Data centers power the modern economy. We provide the internet and cloud services that today's businesses, consumers, nonprofits, and hospitals rely on to operate efficiently and with greater productivity. It is estimated that as much as 70 percent of the world's internet traffic flows through Virginia data centers. According to the Northern Virginia Technology Council, the data center industry is responsible for creating more than \$10.2 billion in annual economic output, 43,000 jobs, and \$349 million in state and local tax revenue in Virginia alone.

Given the significance of our growing and energy-intensive industry in relation to total energy demand in Virginia, companies' data center energy interests should be taken into account in decisions regarding the future of the region's energy infrastructure. In particular:

- **Companies providing or using data centers want to power our operations with renewable energy resources like wind and solar.** When procured competitively, renewable energy allows us to save money, meet the expectations of our investors and customers, and do our part to be more responsible stewards of the environment. An increasing number of businesses, both those in and outside the data center industry, have publicly committed to power their operations with 100 percent renewable energy.
- **Data centers are at the forefront of innovative energy-efficient technologies to reduce the energy burden of our operations.** Rapid technological advancements are allowing us to run our servers more efficiently and reduce our reliance on the grid. With each passing year these advancements contribute to a reduced growth in our overall energy demand.
- **Energy storage technologies are here today and should be integrated into grid planning.** Energy storage projects facilitate the integration of renewable energy resources, provide numerous benefits to the grid, and mitigate the need for natural gas peaker plants. "Solar plus storage" projects are beating out the price of new gas plants, and data centers are already proving the effectiveness of storage in our 24/7 operations.
- **Grid planners should take these points into account before building expensive fossil-fuel infrastructure projects.** Any such investments should be closely assessed for their lifetime cost to ratepayers (for both the infrastructure and associated fuel costs), the likelihood of becoming an early stranded asset, and actual customer demand for fossil fuel-powered electricity.

Dominion Energy's re-filed proposed 2018 Integrated Resource Plan again fails to fully take into account the energy preferences of the data center industry—by limiting the amount of competitively-procured solar energy, neglecting to consider energy storage as a cost-effective and beneficial energy resource, and continuing to plan for the development of additional natural gas infrastructure.

Companies providing or using data centers are proud to offer fast, high-quality internet and cloud services, and we are grateful for access to abundant, reliable, low-cost energy that enables us to do so. However, a clean, flexible, and dynamic grid – replete with renewable energy and modern energy technologies – is the way of the future. It is vital that the energy investments being made today are forward-thinking and truly serve the best interest of ratepayers, the economy, and the planet for generations to come.

Signed,

Adobe Systems, Inc.  
Akamai Technologies  
Apple  
AWS  
Iron Mountain  
LinkedIn Corporation  
Microsoft Corporation  
Salesforce.com  
QTS  
Equinix, Inc.

*For more information please contact Brianna Esteves at [esteves@ceres.org](mailto:esteves@ceres.org).*