

Energy Infrastructure and Data Centers



Piedmont
Environmental
Council

*Bealeton Town Hall - April 29, 2024
Julie Bolthouse, Director of Land Use*

Speakers your going to hear from tonight:



Julie Bolthouse
Director of Land Use
PEC



Kevin Kask
Land Use Field
Representative for
Fauquier PEC



Sarah Parmelee
Land Use Field
Representative for
Culpeper PEC



Lori Keenan McGuinness
Citizens for Fauquier
County / Goose Creek
Association

PEC's mission:

**Protect and restore the
lands and waters of
the Virginia Piedmont,
while building
stronger, more
sustainable
communities.**



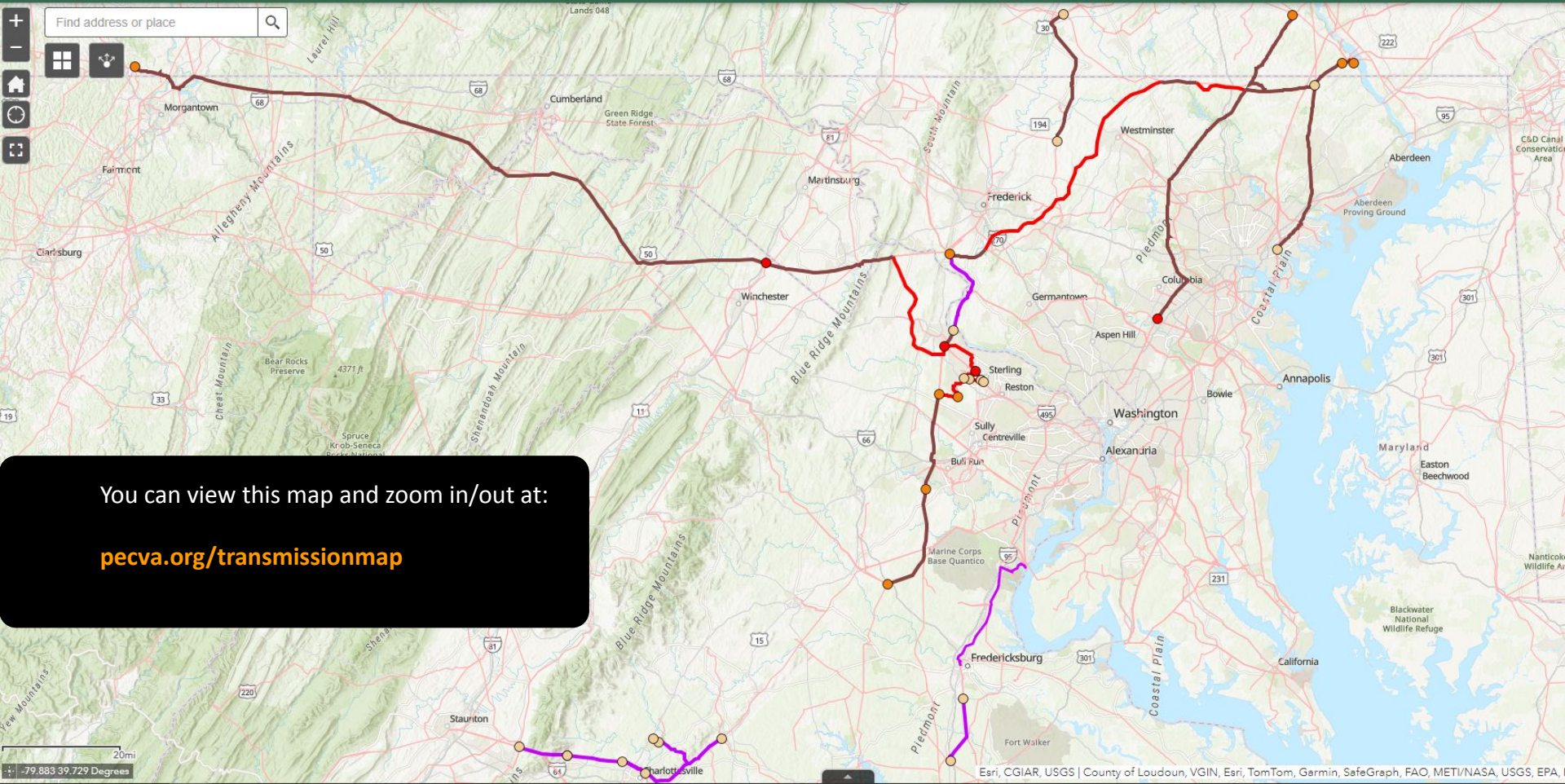


Today's Discussion

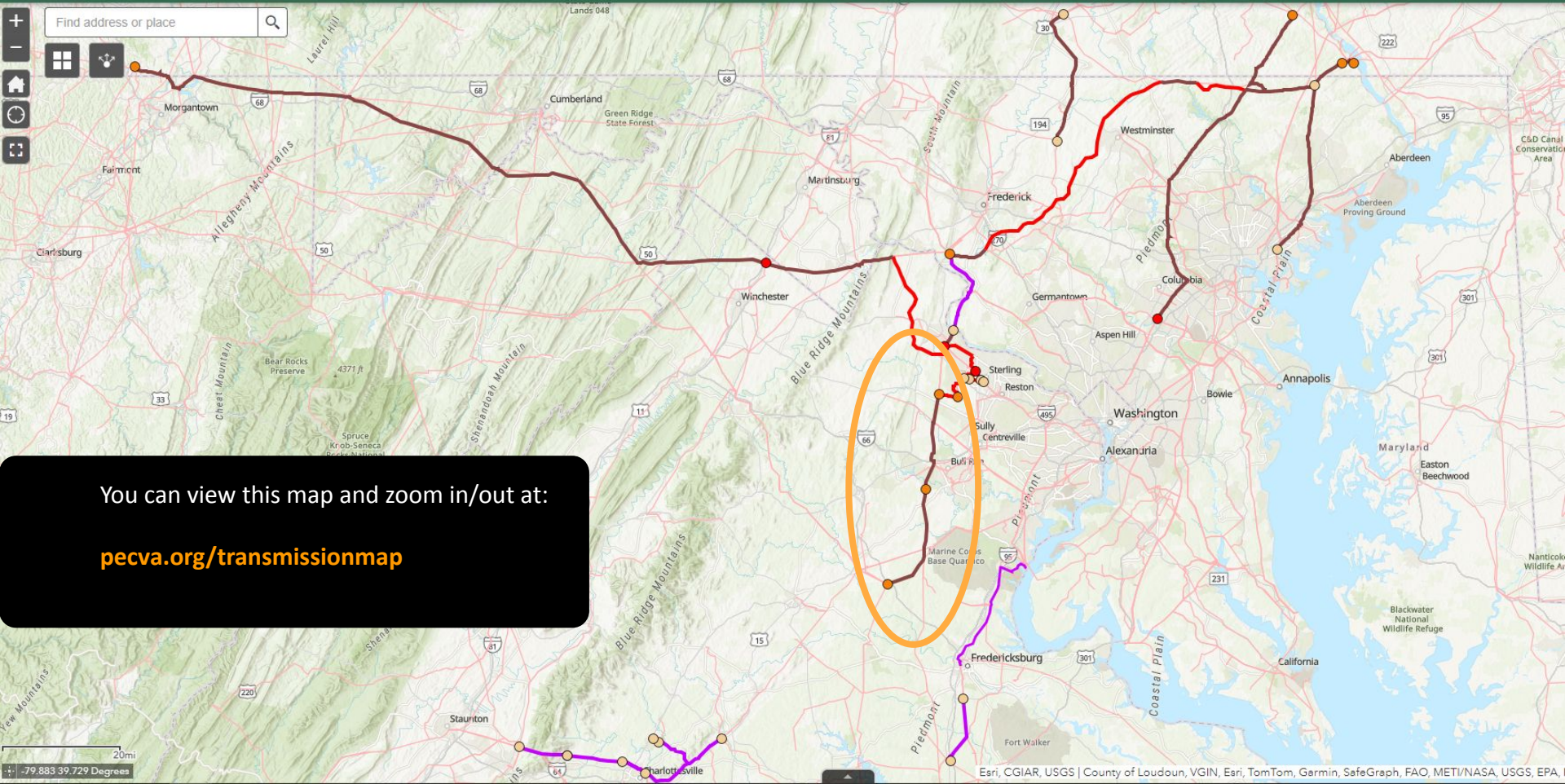
- **PEC's Video - Hidden Cost of the Cloud: Data Centers in VA**
- **Local Data Center and Transmission Line Projects**
- **The Bigger Picture**
- **What can you do?**







You can view this map and zoom in/out at:
pecva.org/transmissionmap



You can view this map and zoom in/out at:

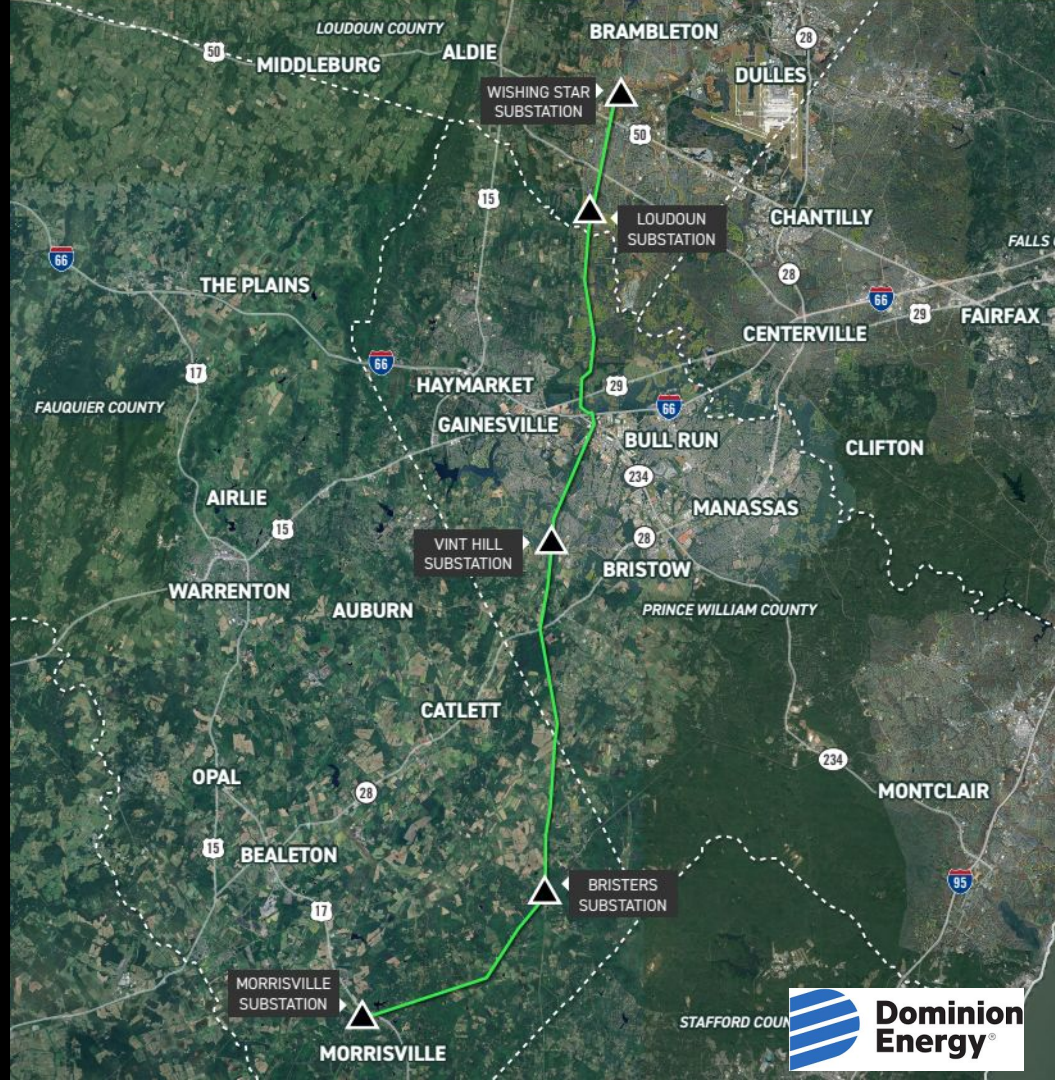
pecva.org/transmissionmap

Transmission Line Expansion

- Wreck of 36.5-mile transmission lines (500kV and 230kV lattice)
- Replace with taller double-circuit monopoles
- Additional ROW unknown

Dominion's Expedited Timeline:

- Virtual Meeting - April 30
- Fauquier Meeting - May 14
- Prince William Meeting - May 16
- Loudoun Meeting - May 21
- Virtual Meeting 2 - June 4
- File Application with SCC - Summer of 2024



Morrisville-Vint Hill-Wishing Star 500 & 230 kV Project



Morrisville
to Wishing
Star



Community
Engagement



Legal



Maps



Meetings



Timeline

provide feedback. The schedule of meetings is as follows:

Virtual Community Meeting #1

Date: Tuesday, April 30, 2024

Time: Noon–1 p.m. EST

[Join the virtual meeting via WebEx](#)

Join by phone: 1-415-655-0002

Webinar password/Access code:

2344 396 8898

Password: Morrisville (66774784)

Fauquier County In-person Community Meeting

Date: Tuesday, May 14, 2024

Time: 5:30 p.m.–7:30 p.m. EST

Location:

Mary Walter Elementary School

4529 Morrisville Road

Bealeton, VA 22712

Prince William County In-person Community Meeting

Date: Thursday, May 16, 2024

Time: 6 p.m.–8 p.m. EST

Location:

Piney Branch Elementary School

8301 Linton Hall Road

Bristow, VA 20136

Loudoun County In-person Community Meeting

Date: Tuesday, May 21, 2024

Time: 5:30 p.m.–7:30 p.m. EST

Location:

John Champe High School

41535 Sacred Mountain Street

Aldi, VA 20105

Virtual Community Meeting #2

Date: Tuesday, June 4, 2024

Time: Noon–1 p.m. EST

[Join the virtual meeting via WebEx](#)

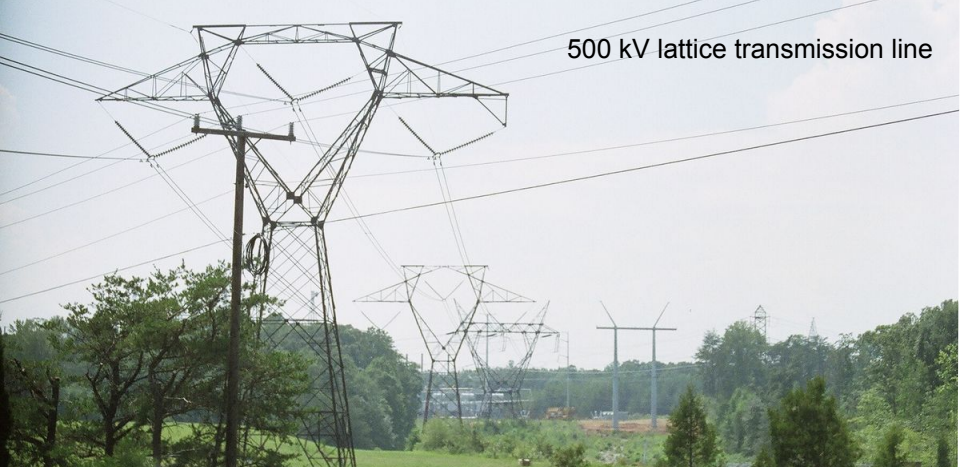
Join by phone: 1-415-655-0002

Webinar password/Access code:

2340 252 8806

Password: Morrisville (66774784)

For more information:
<https://www.dominionenergy.com/morrisvillewishingstar>

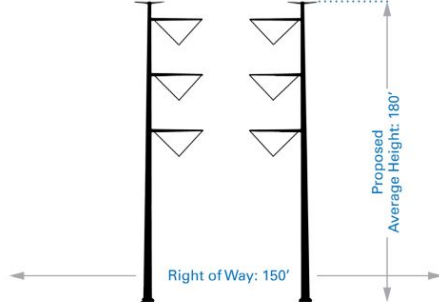
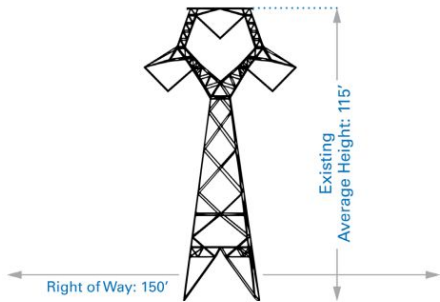


Yadkin - Fentress 500 kV Electric Transmission Rebuild Project CONTINUED

STRUCTURE TYPE

EXISTING
Lattice Structure

PROPOSED
Monopole Structure

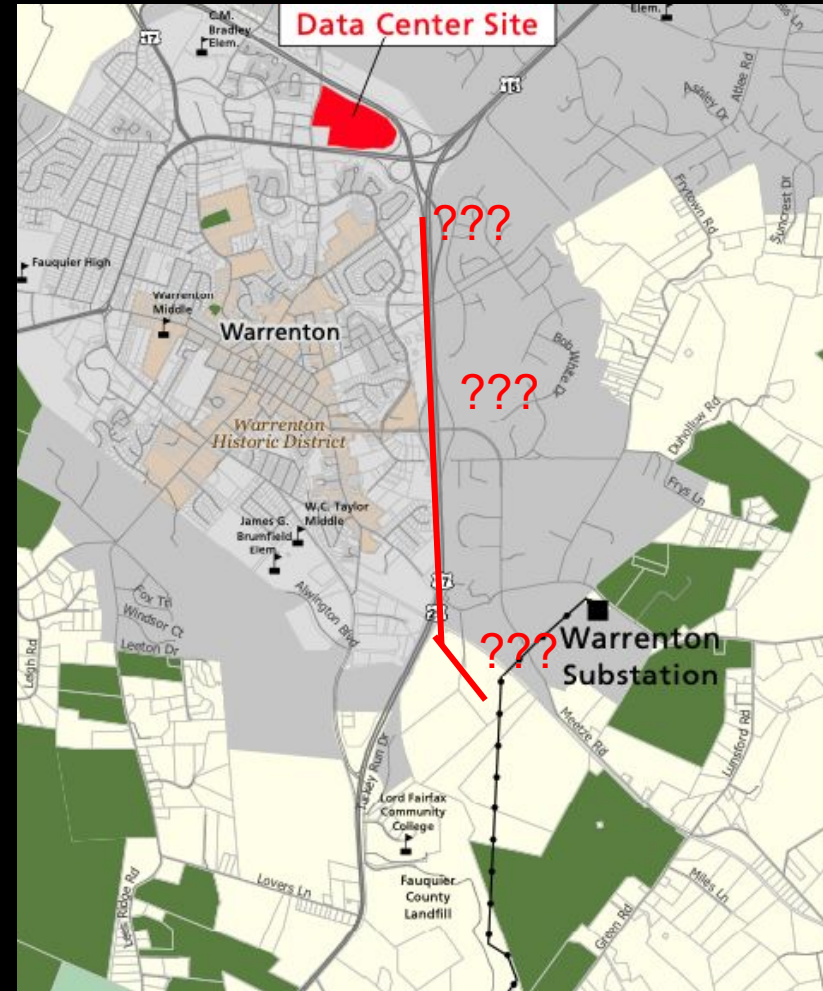


Weathering steel lattice structures
Average structure height: 115 feet
Right of Way: 150 feet

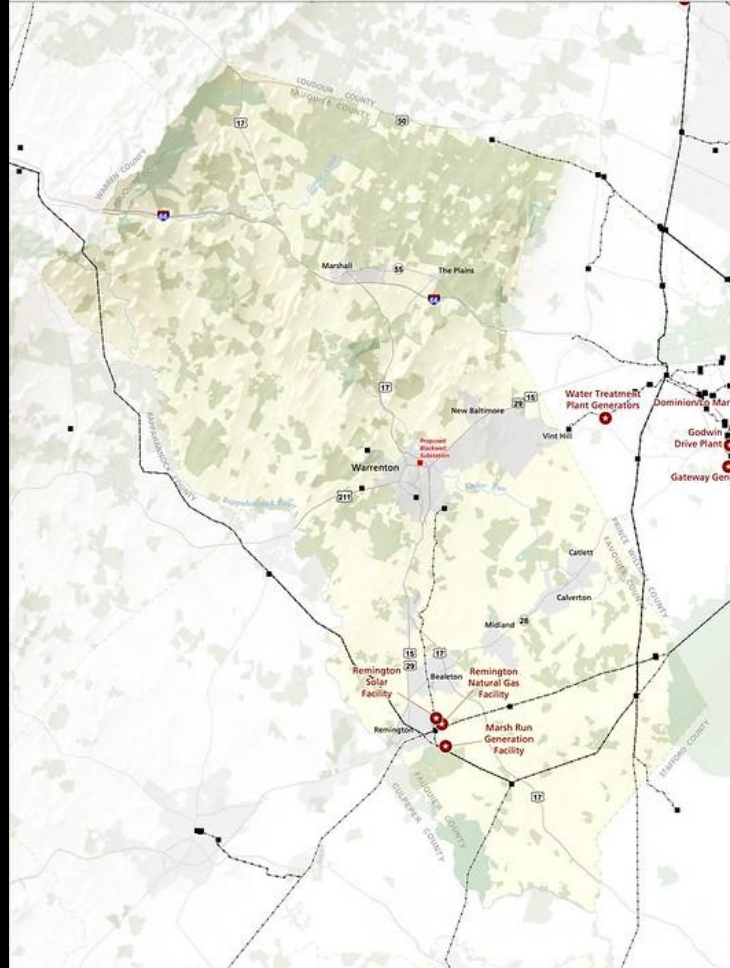
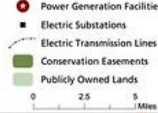
Single Circuit Monopoles
Proposed average structure height: 180 feet
Average Height Increase: 65 feet

Transmission Line to Serve Amazon Site in Warrenton:

- Underground distribution line
- Off-site substation in the County
- Overhead transmission tie-in to existing transmission line
- Along either side of Route 29
- Exact Route and ROW to be determined
- More info to be revealed in community outreach



Fauquier County Electric Transmission Lines and Generation Facilities



Fauquier County Data Centers

Built:

- Warrenton Training Center (square footage confidential)
- OVH (80,000 sf)

Approved:

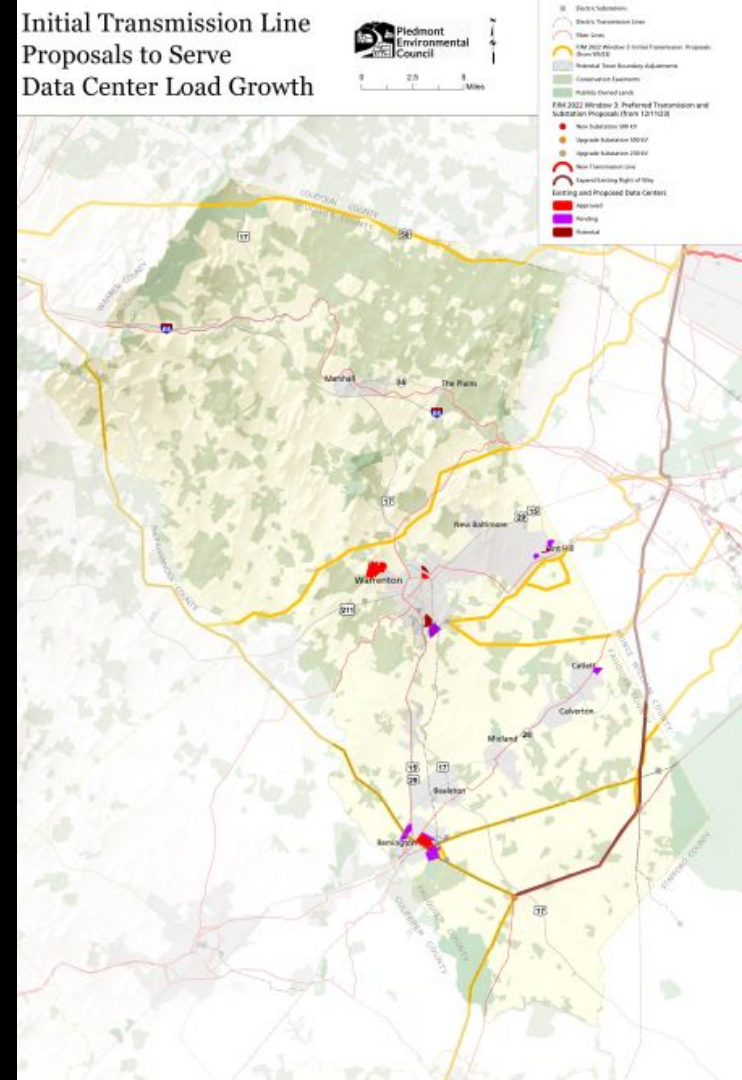
- Remington Technology Park (1,286,000 sf in Remington)
 - Rezoning Granted in 2018, but unbuilt
- Amazon Warrenton (220,000 square feet)
 - In active litigation

Proposed:

- Convergent (1,064,000 sf in Remington)
- Gigaland (2,808,681 sf in Remington)
- SAMX (1,021,000 sf in Remington)
- Catlett Project (1,021,000 sf in Catlett)
- Cyrus One (874,516 sf by-right in Vint Hill)
- OVH expansion (110,000 sf max by-right in Vint Hill)
- Vint Hill Corners (360,000 sf by-right in Vint Hill)

Other Parcels marketed for data center development

Initial Transmission Line Proposals to Serve Data Center Load Growth





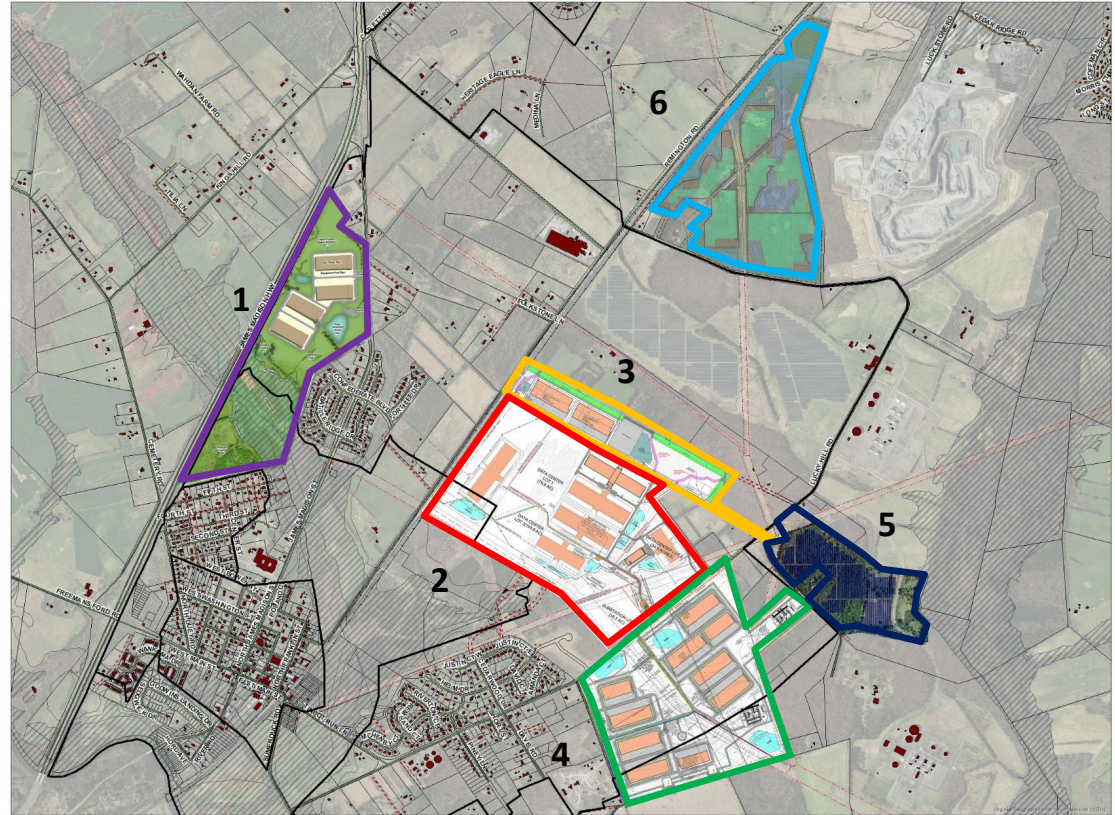
Remington

Remington Area Data Center Projects:

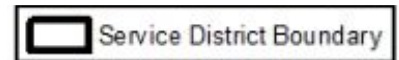
- Total Area: 631.11 ac
 - Total Development: 6,179,681 sf
1. Convergent Technology Park
 2. Remington Technology Park (approved but unbuilt)
 3. SAMX Data Centers
 4. Gigaland Data Centers

Remington Area Solar Projects:

- Total Area: 232.27 ac
 - Total Development: 126 ac
5. Remington Solar
 6. Bealeton Solar Center



Potential Remington Buildout Map





Subject Property:

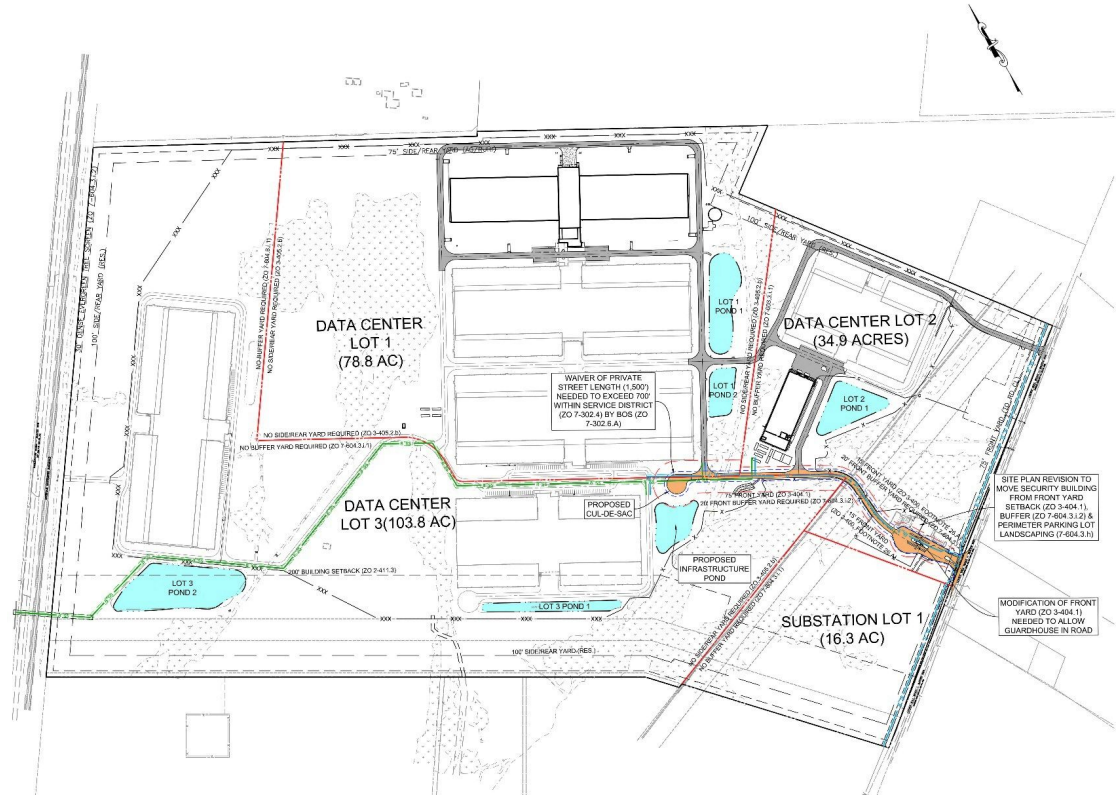
- RTP Property – 233.84 Acres
- Land Use: Light Industrial/Employment Center
- Zoning: BP w/Proffers
 - Approved March '18

Proposed Development:

- Data Center Campus – 1,286,000 sf
 - 6 one-story buildings (137,000 sf - @ 240,000 sf)
 - Site Plan Approval for Phase 1 – Feb. '20

Next Steps:

- Plan of Development Application



Conceptual Subdivision Plan



Convergent Technology Park

Subject Property:

- Barb Property - 139.48 Acres
- Land Use: LDR 1 -3 Du/Ac; Open Space/
Park/Floodplain; Open Space
Park/Floodplain
- Zoning: R-2 w/Proffers

Proposed Development:

- Data Center Campus – 1,064,000 sf
 - 4 two-story buildings (266,000 sf each) – 65'

Next Steps:

- Formal Application: July 1st
 - Pre-Application in April or May



Concept Plan



SAMX Data Centers

Subject Property:

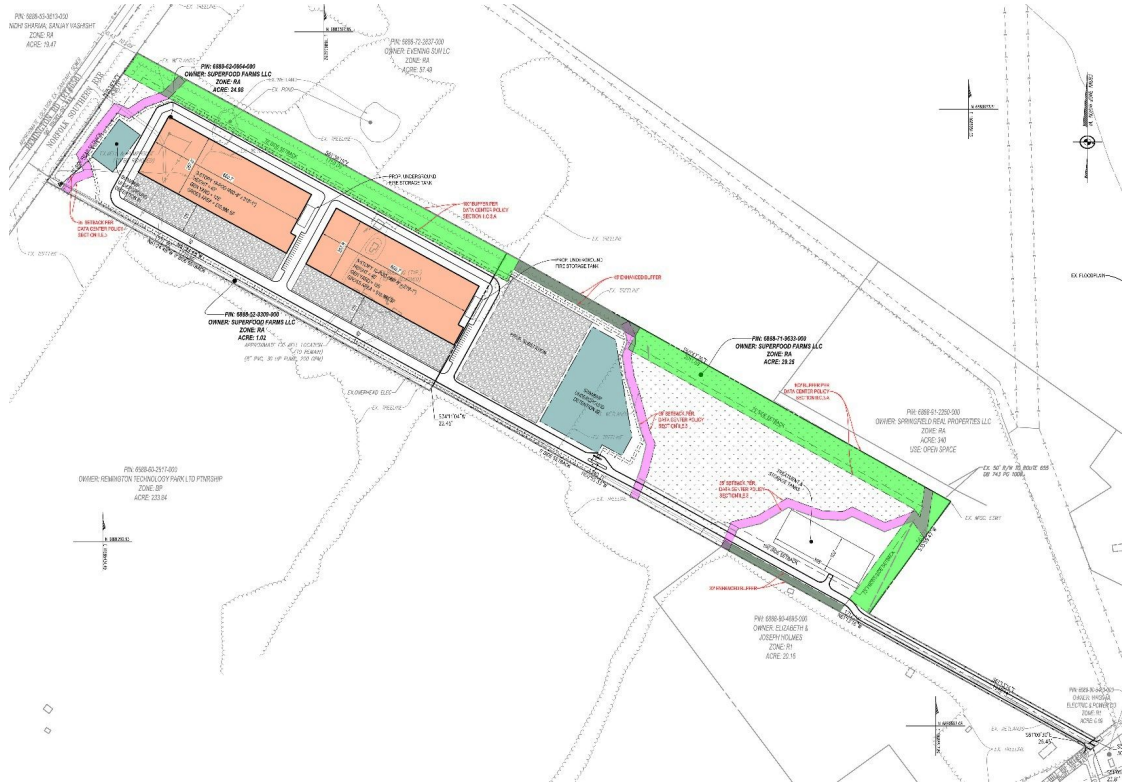
- Superfood Farms Property – 55.25 Acres
- Land Use: Light Industrial/Employment Center
- Zoning: RA

Proposed Development:

- Data Center Campus – 1,021,000 sf
 - 2 three-story buildings (510,986 sf each) – 45'
 - Substation

Next Steps:

- 2nd Sub – Rezoning Application



Conceptual Development Plan



Gigaland Data Centers

Subject Property:

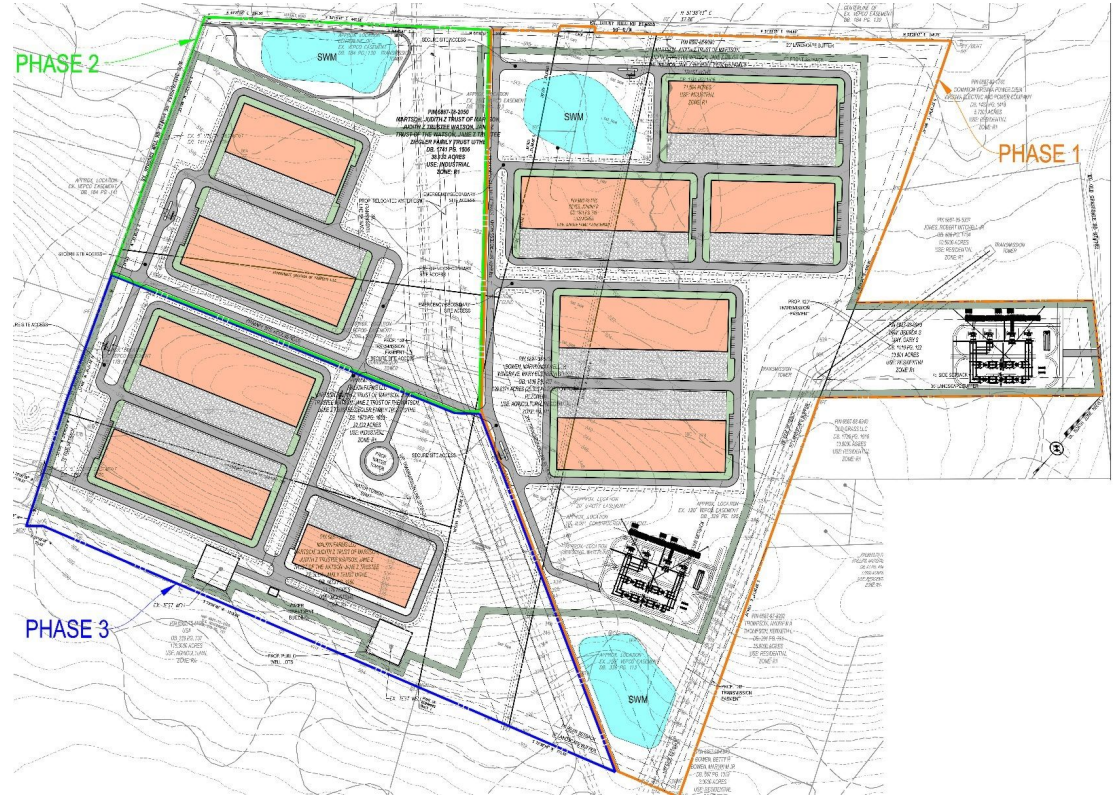
- Lucky Hill LLC Property – 202.54 Acres
- Land Use: LDR 1 -3 Du/Ac; Rural
- Zoning: R-1

Proposed Development:

- Data Center Campus – 2,808,681 sf
 - 10 two-story buildings – 65'
 - 2 Substations

Next Steps:

- Formal Application: July 1st
- Pre-Application Meeting – 04/23/24



Conceptual Development Plan



The Catlett Project

Subject Property:

- Catlett Station Property – 67.36 Acres
- Land Use: Commercial/Industrial
- Zoning: I-1

Proposed Development:

- Data Center Campus – 1,021,000 sf
 - 3-5 two-story buildings - 45' – 65'
 - Substation

Next Steps:

- 2nd Sub – Rezoning Application



Conceptual Development Plan

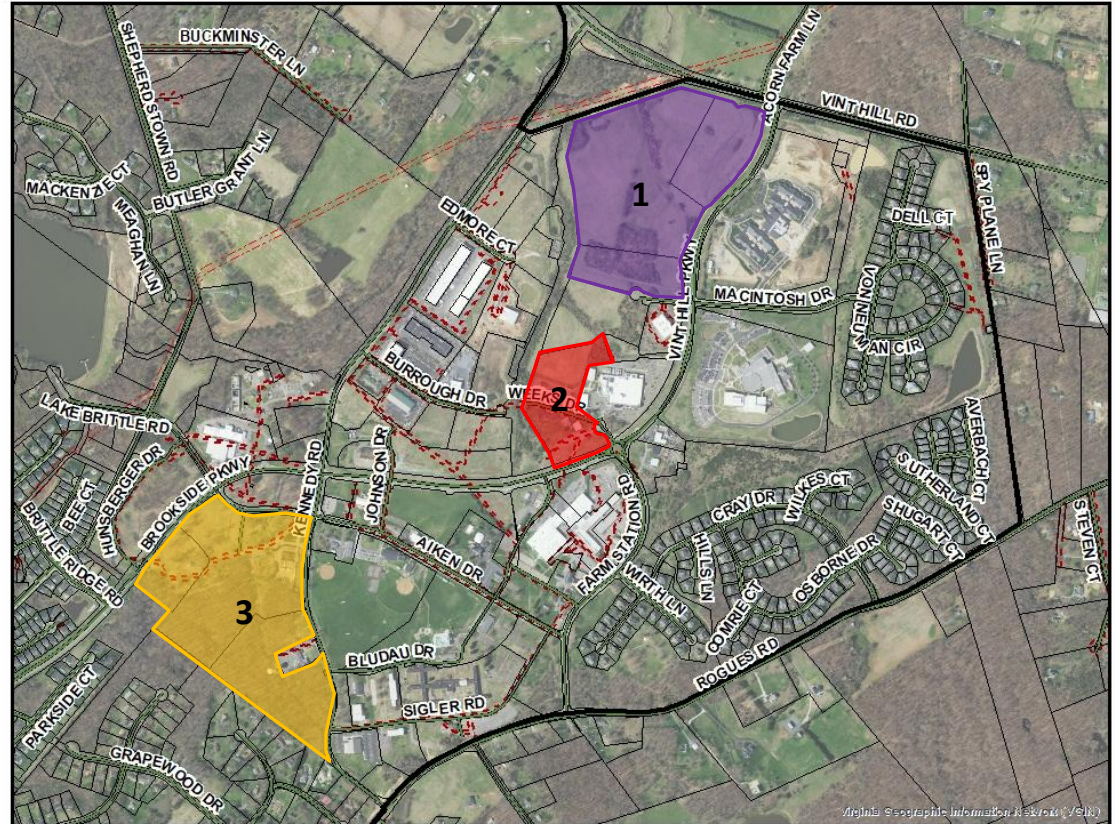


Vint Hill

Vint Hill Data Center Projects:

Total Development: 1,354,516 sf

1. CyrusOne
2. OVH Expansion
3. Vint Hill Corners



Regional Aerial Map

**Between 1-2 GW of energy demand
is proposed in Fauquier**

Fauquier County in the Crosshairs – Warrenton, Catlett, Remington and Beyond

April 29, 2024
Liberty High School

Lori Keenan



CITIZENS FOR
FAUQUIER COUNTY

PROTECTING FAUQUIER'S FUTURE™

Citizens for Fauquier County (CFFC) Who We Are

Oldest non-profit conservation organization in Fauquier County;
Since 1968, entirely focused on Fauquier County and
preserving our rural way of life.

Our Mission

Preserve the natural, historic and agricultural resources of
Fauquier County, and protect the County's unique quality of life
through public engagement, advocacy, education and leadership.

- ☑ Thousands of members and supporters throughout Fauquier
- ☑ 20-person volunteer board
- ☑ Recent efforts include data centers, utility-scale solar, Town of Warrenton Comprehensive Plan, litigation.
- ☑ Work hand-in-hand with conservation partners: Piedmont Environmental Council, Protect Catlett, Protect Fauquier



CFFC's Position on Data Centers

CFFC is working everyday with our conservation partners to stop data center sprawl in Fauquier County

Limit Data Centers to Locations Currently Zoned for Data Centers

Comprehensive Plan created Service Districts and designated a Business Park in Remington and PCID/Vint Hill for data centers. CFFC opposes data centers that are not permitted under current zoning, such as the proposed data centers for Catlett and Remington.

Current County Zoning

- Limits data centers to Service Districts and then further limits them to “Business Parks” and “Planned Industrial Development Districts” or “PCIDs”; currently just one PCID exists (in Vint Hill) and one BP in Remington
- Data centers must be served by underground power lines; ratepayers pay for above ground lines
- Data centers must use recycled water
- Noise ordinance is flawed and unenforceable

Revenues: We don't need additional data centers beyond built/approved centers

- Fauquier County has 4 operating data centers that generate about **\$6.5 million/year** in revenue for the County
- **Additional sites that are approved and can be built under current zoning are estimated to add an additional \$65 - \$100+ Million/year in county revenues**

Fauquier's Noise Ordinance is Flawed

- **Not intended for 24/7 noise that will include generators**
- **Doesn't include background noise, e.g., highway**
- **Doesn't include noise from other DC operators, e.g., multiple nearby data centers**
- **Doesn't include lower decibel constant humming**
- **AmazonTanner Way still doesn't meet PWC's noise ordinance after a year of mitigation effort**
- **Unenforceable: fines minimal**



CFFC's Ongoing Data Center Work

- Closely monitoring all proposed data centers under review by the Town and County
- Working with our conservation partners to propose a new Data Center Ordinance for our County (there's a new policy, but not a new ordinance for data centers)
- Educating the public about data centers and the proposed transmission lines (cart before the horse leads to bad results)
- Meeting with public officials (good planning leads to good results)
- Continued Opposition to Amazon's Warrenton data center

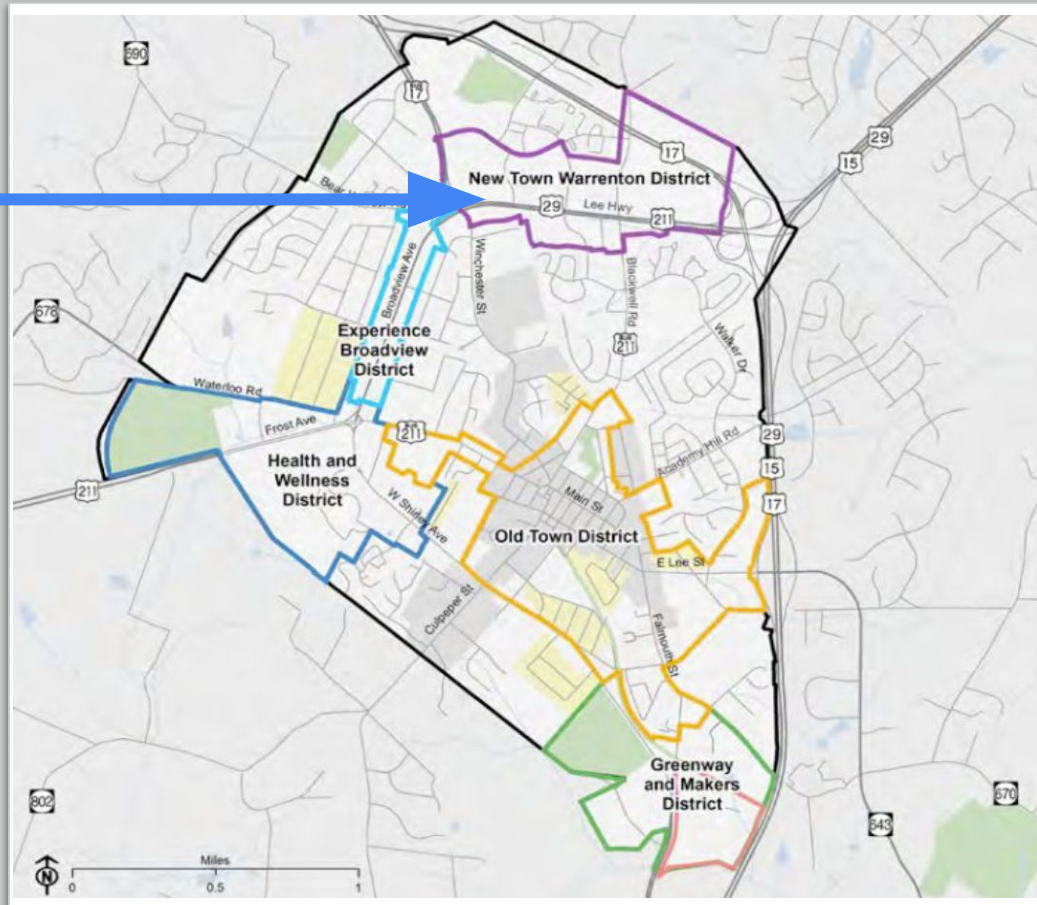


Revisiting Amazon's Data Center in Warrenton ...

Wrong Use, Wrong Place, Wrong Way

The town disregarded its comprehensive plan, and the overwhelming opposition of residents when the town approved Amazon's permit.

- CFFC has spent thousands of hours along with our conservation partners opposing Amazon's proposal
- Town and Amazon worked behind the scenes to amend the town's zoning code to allow data centers in Warrenton
- Town and Amazon continue to keep information from the public: half of the site development plan was redacted.
- Amazon has gotten a pass on critical requirements: noise & electricity



CFFC in Court Against the Town of Warrenton and Amazon

To Overturn the Special Use Permit

About

CFFC (and ten residents of Warrenton living near the proposed Amazon DC) sued the town to reverse the illegal zoning amendment and stop the Blackwell Road data center.

Summary

CFFC is contesting the validity of the zoning amendment and the town's subsequent approval of Amazon's application for a permit and site development plan.

Next Steps

December ruling was favorable to plaintiffs and allows case to move forward. To be continued.....

To Appeal the VFOIA Decision

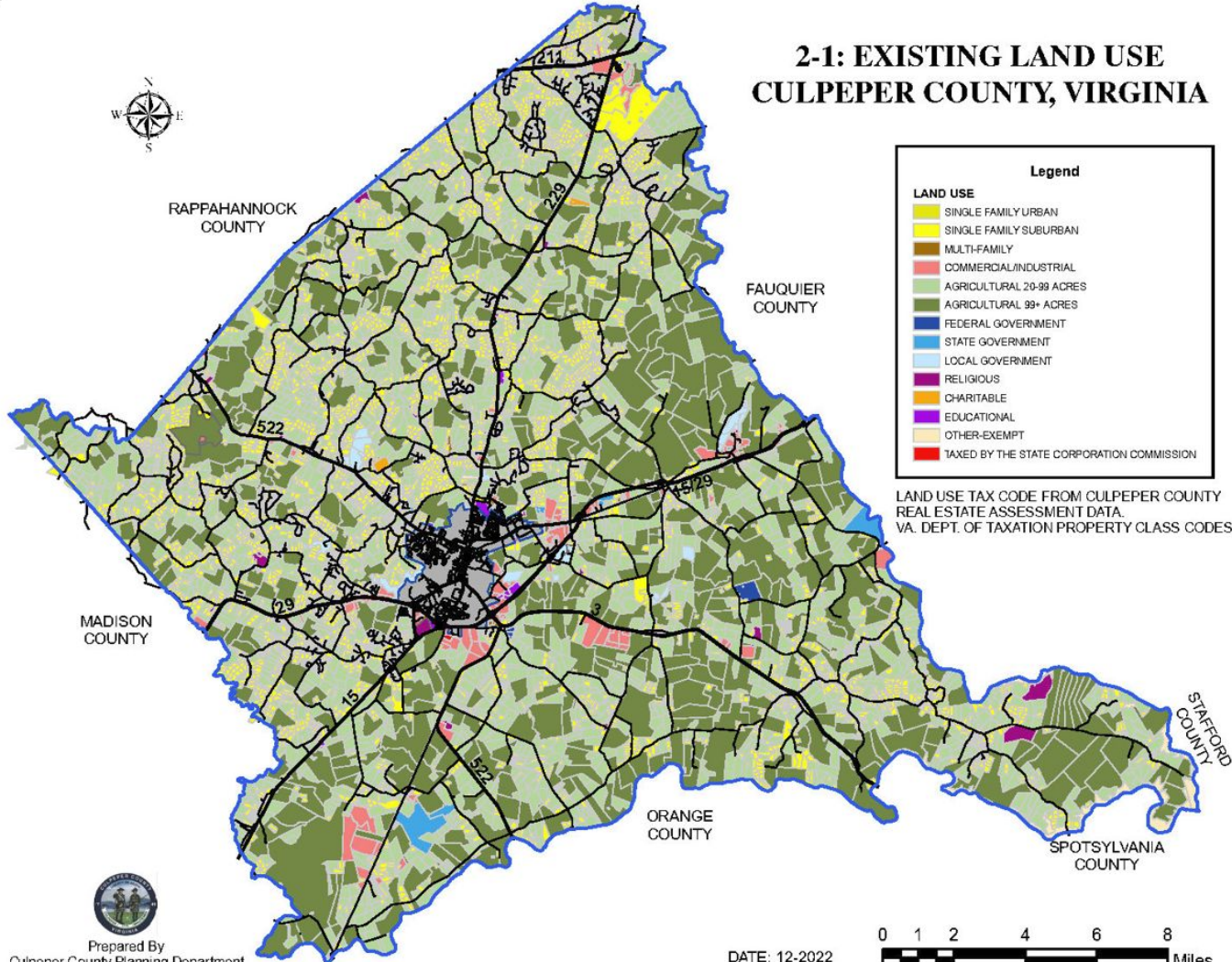
About

CFFC is litigating the town's refusal to provide CFFC with information about the data center and zoning amendment as required by the Virginia Freedom of Information Act. This case is critical to maintaining public access to local and state government information

Summary

- The Town has withheld emails about the zoning amendment and the data center
- This case is supported by 24 organizations including the Reporters Committee for Freedom of the Press and the Virginia Coalition for Open Government
- This case is on appeal

2-1: EXISTING LAND USE CULPEPER COUNTY, VIRGINIA



Legend

LAND USE

- SINGLE FAMILY URBAN
- SINGLE FAMILY SUBURBAN
- MULTI-FAMILY
- COMMERCIAL/INDUSTRIAL
- AGRICULTURAL 20-99 ACRES
- AGRICULTURAL 99+ ACRES
- FEDERAL GOVERNMENT
- STATE GOVERNMENT
- LOCAL GOVERNMENT
- RELIGIOUS
- CHARITABLE
- EDUCATIONAL
- OTHER-EXEMPT
- TAXED BY THE STATE CORPORATION COMMISSION

LAND USE TAX CODE FROM CULPEPER COUNTY
REAL ESTATE ASSESSMENT DATA.
VA. DEPT. OF TAXATION PROPERTY CLASS CODES



RAPPAHANNOCK COUNTY

FAUQUIER COUNTY

MADISON COUNTY

ORANGE COUNTY

STAFFORD COUNTY

SPOTSYLVANIA COUNTY

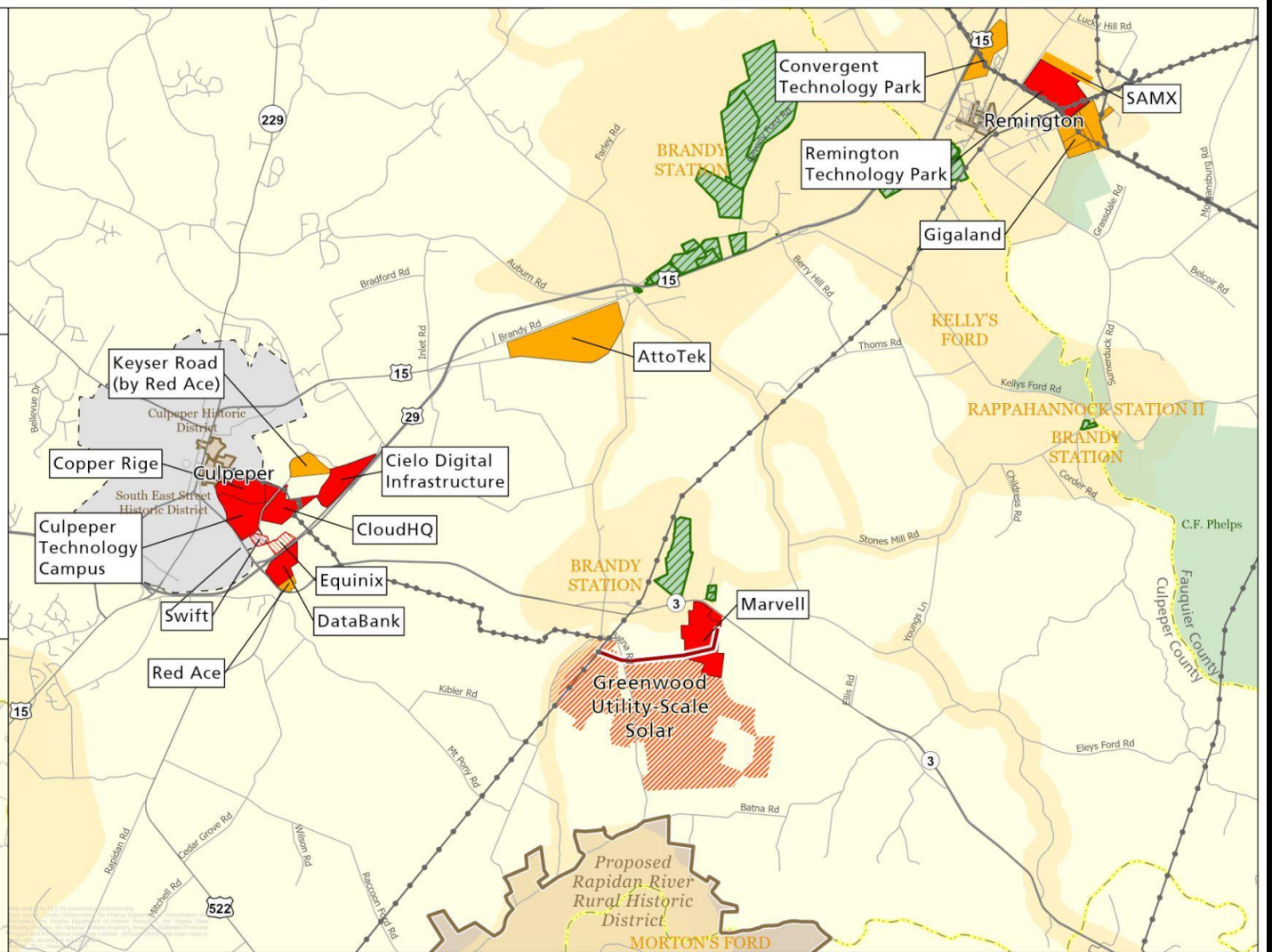


Data Centers and Utility-Scale Solar Projects - Brandy Station & Environs

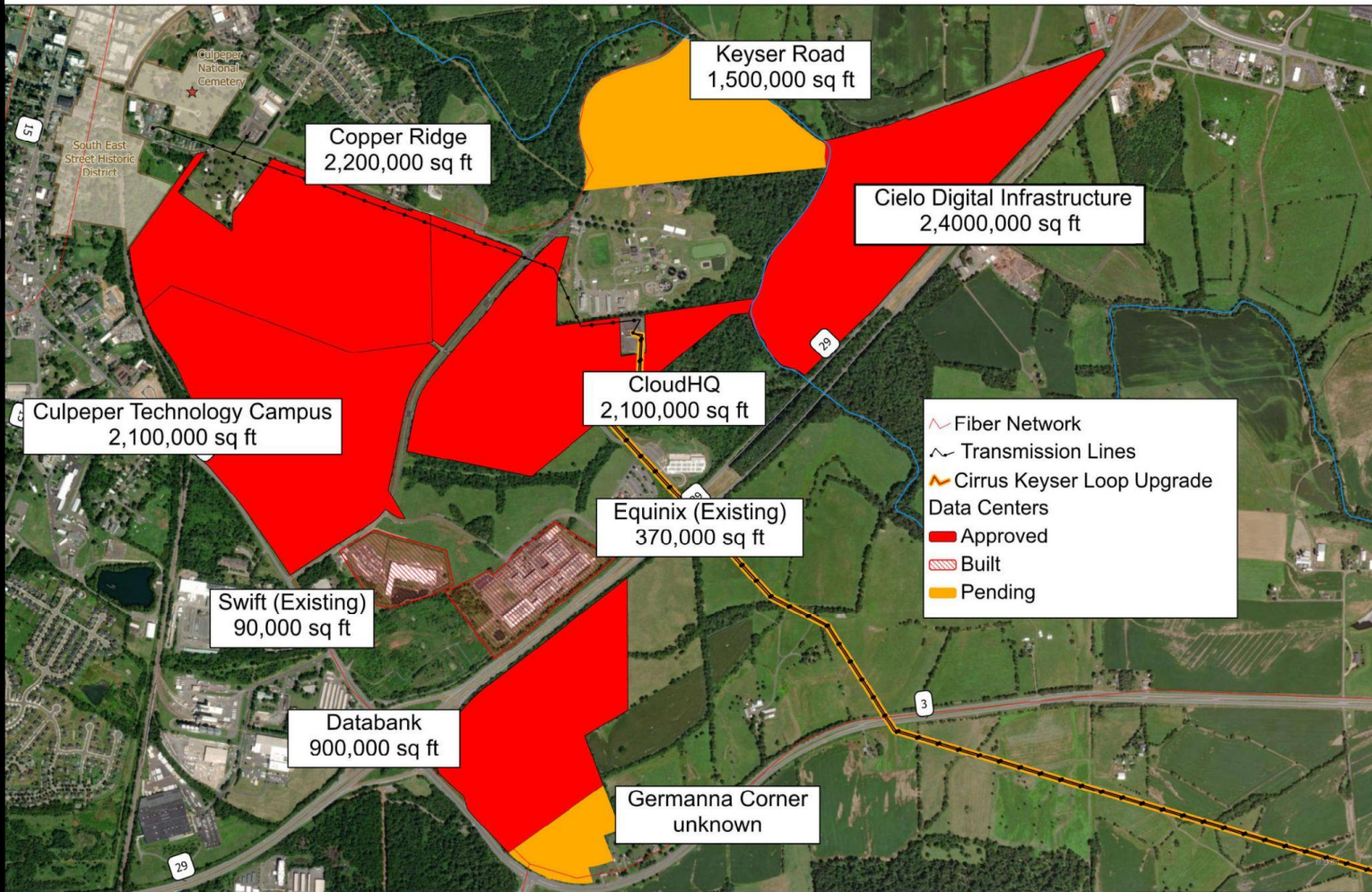


- Proposed 230kV Transmission Line
- Approved Data Centers
- Built Data Centers
- Pending Data Centers
- Utility-Scale Solar
- Culpeper Battlefields State Park
- Conservation Easements
- Publicly Owned Land
- Historic Districts
- Civil War Battlefields
- Electric Transmission Lines

0 0.5 1 Miles



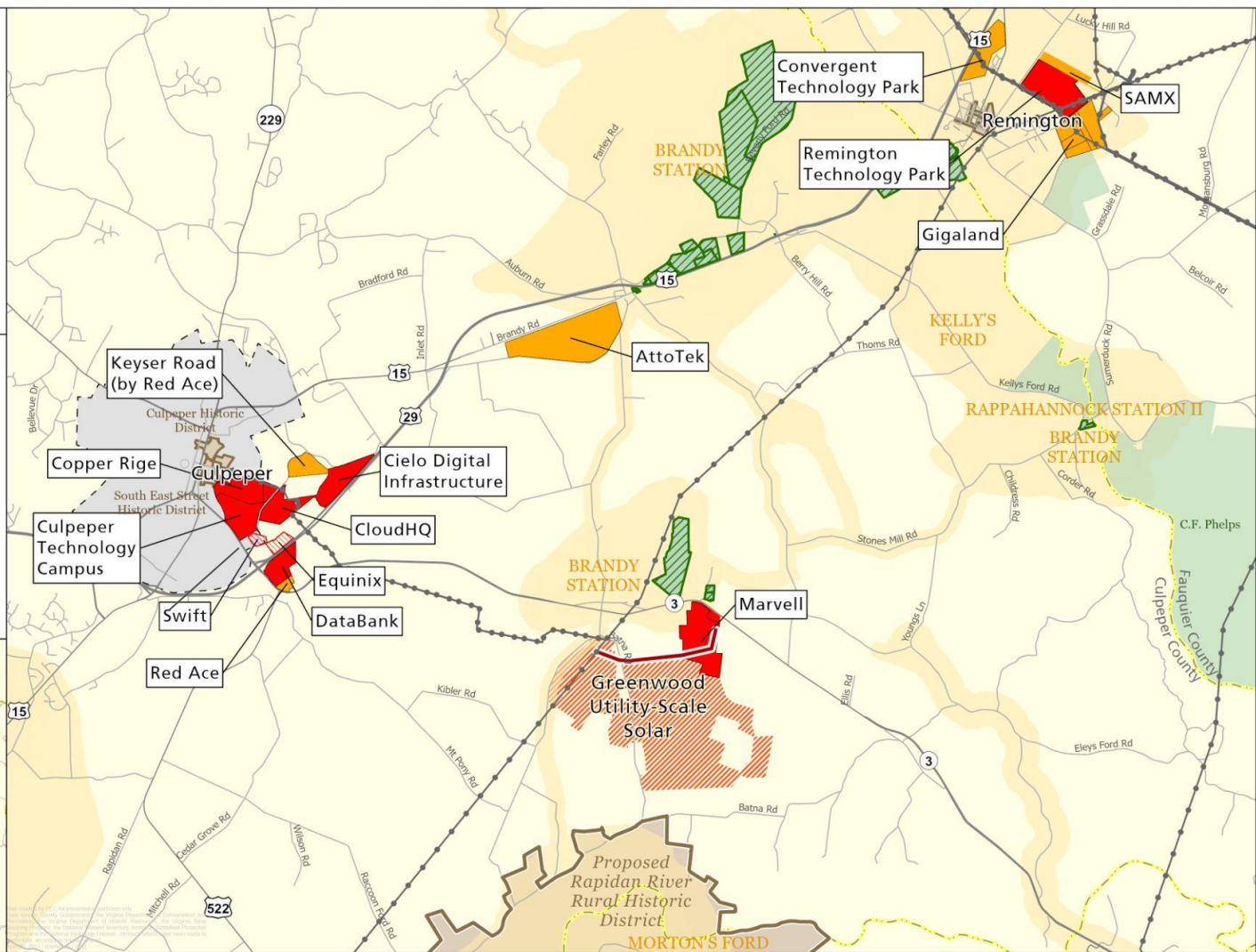
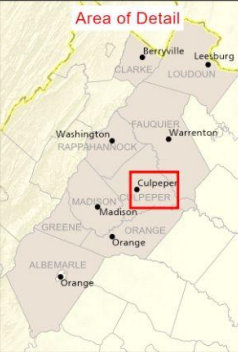
Town



Data Centers and Utility-Scale Solar Projects - Brandy Station & Environs



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 - Electric Transmission Lines
- 0 0.5 1 Miles



Map prepared by Piedmont Environmental Council, Inc. for the Piedmont Environmental Council. The map is not intended to be used for any purpose other than that for which it was prepared. The map is not a warranty, representation, or guarantee of accuracy. The map is not to be used for any purpose other than that for which it was prepared. The map is not to be used for any purpose other than that for which it was prepared.

Proposed Transmission Line to Serve Marvell Data Center

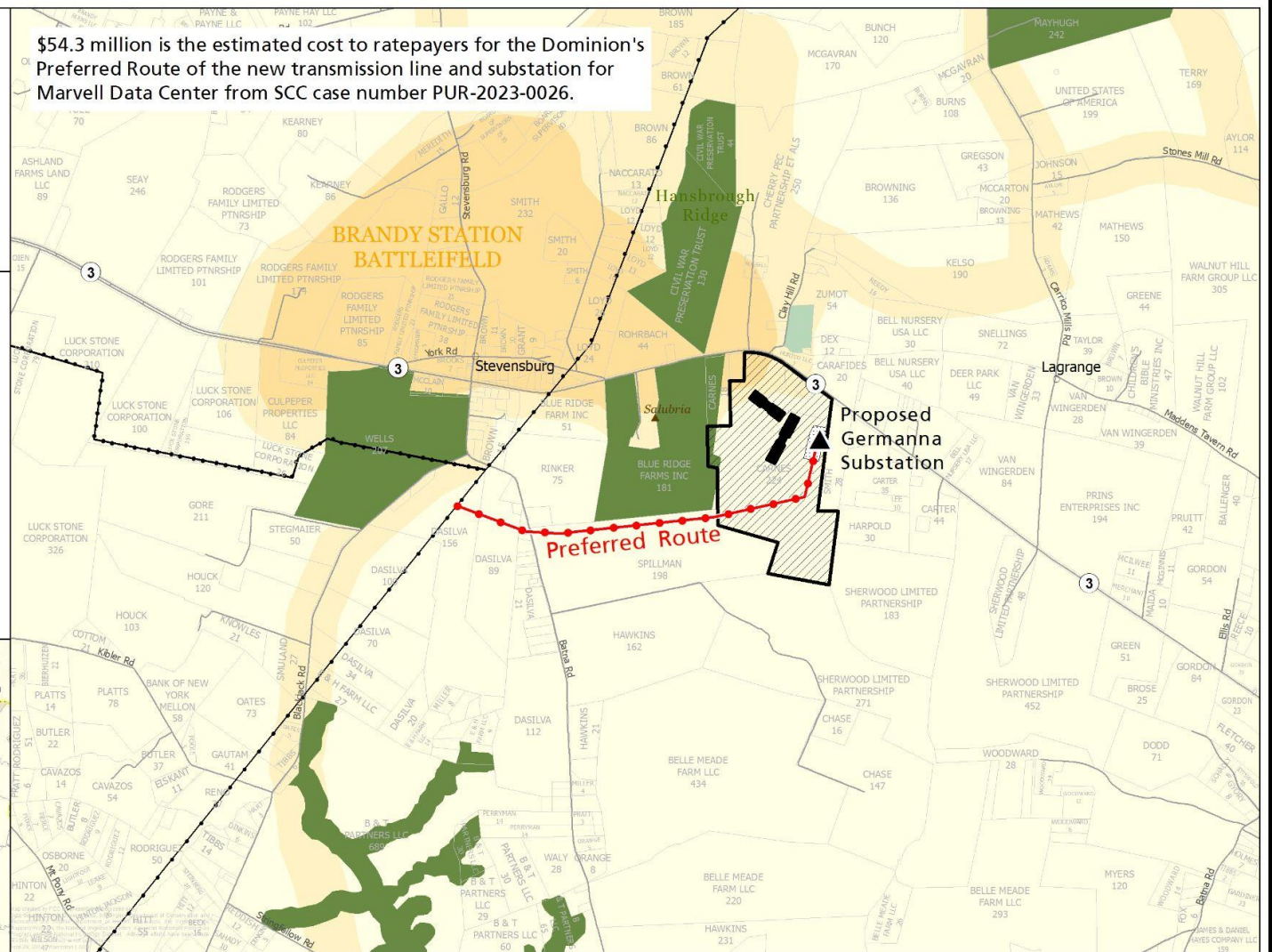


\$54.3 million is the estimated cost to ratepayers for the Dominion's Preferred Route of the new transmission line and substation for Marvell Data Center from SCC case number PUR-2023-0026.

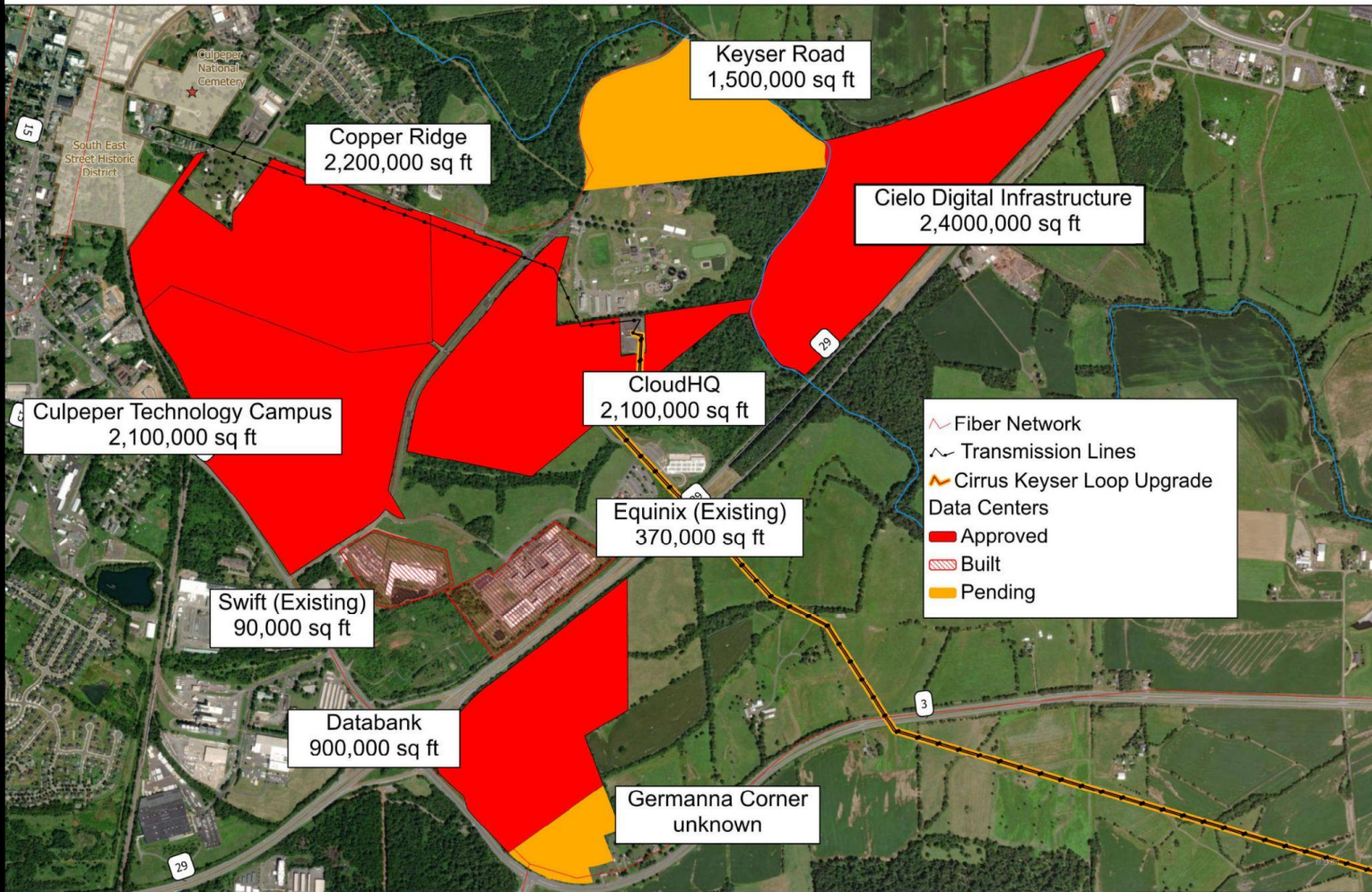
- Marvell Property
- Data Center Buildings
- Marvell Substation
- Property Lines
- Conservation Easements
- Publicly Owned Land
- Battlefield Core Area
- Battlefield Study Area
- Electric Transmission Lines
- Dominion's Preferred Route

0 1,000 2,000 Feet

Area of Detail



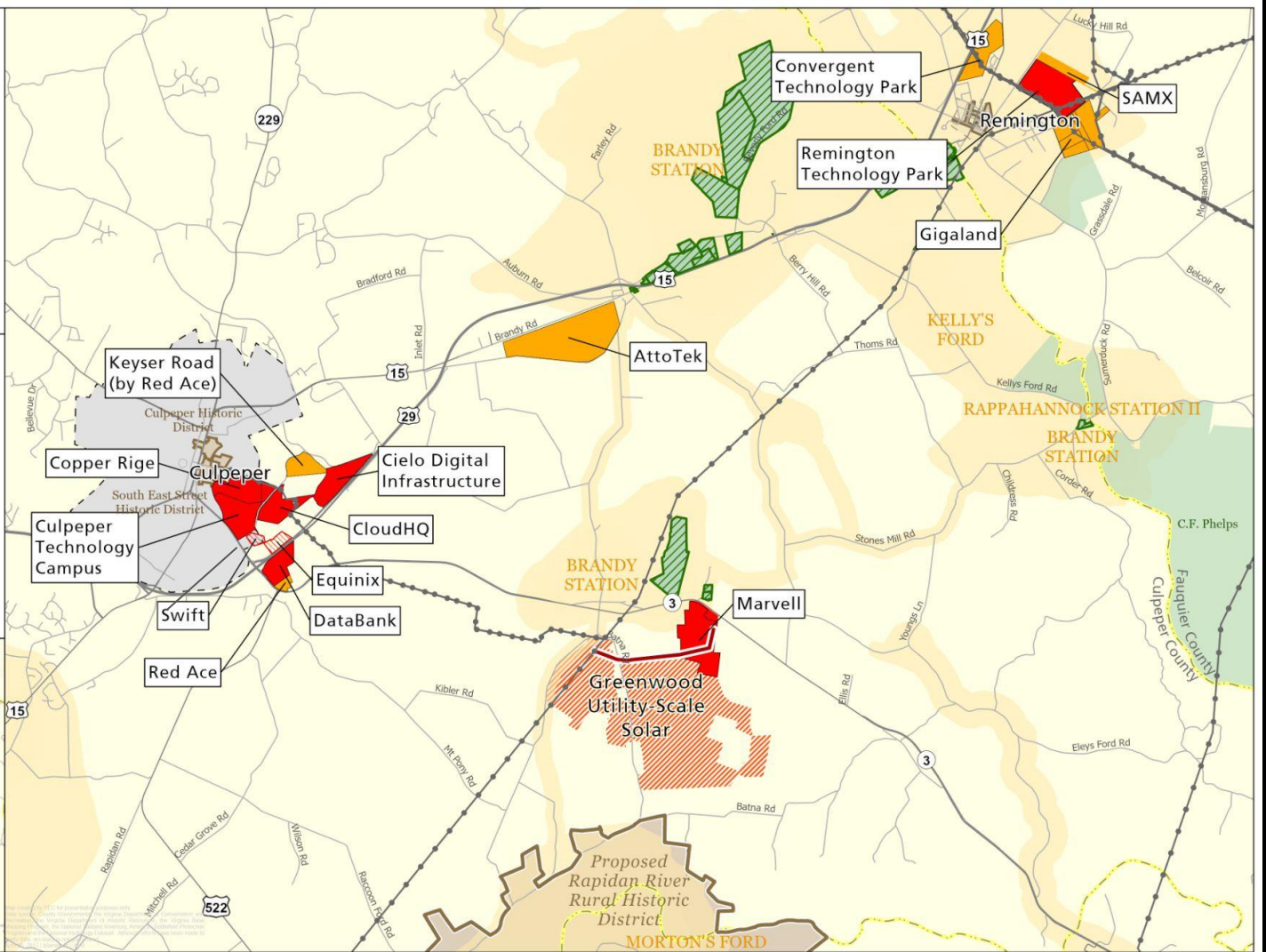
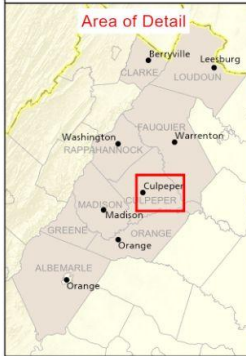
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Data Centers and Utility-Scale Solar Projects - Brandy Station & Environs



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- Electric Transmission Lines



Project Name	Status	Acres	Square Feet	Load in MW
AttoTek	Pending	426	4,638,704	unknown
Keyser Road (Red Ace)	Pending	69	1,506,582	unknown
Germanna Corner (Red Ace)	Pending	18	unknown	unknown
Cielo	Approved	122	2,400,000	300
Copper Ridge	Approved	117	2,200,000	600
Culpeper Technology Campus	Approved	155	2,100,000	600
Marvell	Under Construction	223	445,000	135
Databank (Red Ace)	Approved	85	1,400,000	300
CloudHQ	Approved	99	2,100,000	275
Equinix	Built	64	370,000	unknown
Swift	Built	30	90,000	unknown
Total		1408	17,250,286	2,210

CULPEPER CONSERVATION LECTURE SERIES



Join local environmental nonprofits The Piedmont Environmental Council (PEC) and Friends of the Rappahannock (FOR) from 7-8 p.m. on the second Thursday of each month for a free lecture at Culpeper County Library (Meeting Room, 271 Southgate Shopping Center, Culpeper, VA 22701).

LECTURE DATES + TOPICS

MAY 9: DATA CENTERS IN VIRGINIA W/ PEC

JUN 13: EXPANDING RIVER ACCESS W/ FOR

JUL 11: SOLAR FOR YOUR HOME W/ PEC

AUG 8: BRINGING BACK GRASSLAND BIRDS W/ PEC

SEP 12: CONSERVING FORESTS FOR CLIMATE W/ FOR

OCT 10: TREE PLANTING PROGRAMS W/ FOR

RESERVE YOUR SPOT!

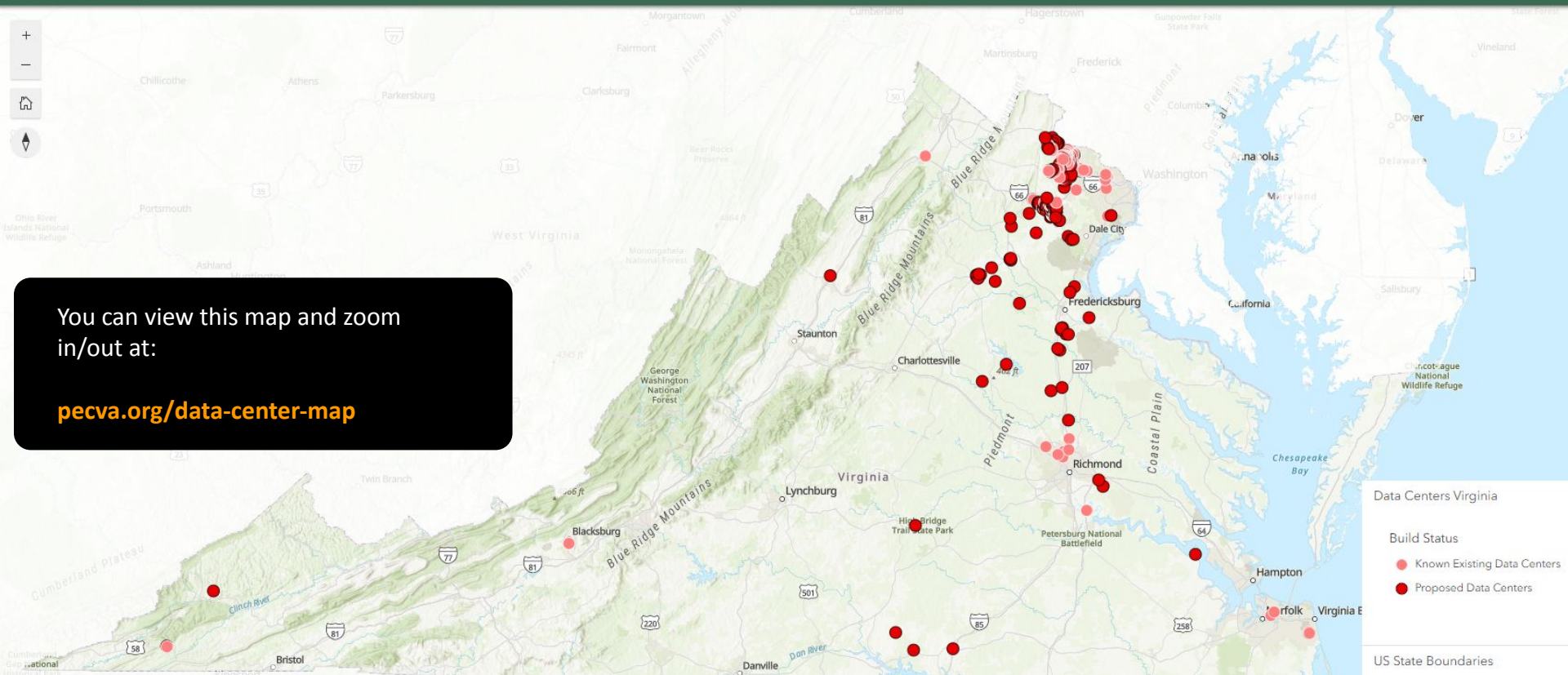
 pecva.org/librarylectures



Data Center Proposals in Virginia



Existing and Proposed Data Centers - A Web Map



You can view this map and zoom in/out at:

pecva.org/data-center-map

Proposed data centers developments by sq ft...

County	Sq ft	Estimated MW
Caroline	7,316,000	2195
Culpeper	9,145,000	2744
Fairfax	5,703,707	1711
Fauquier	7,041,000	2112
Hanover	11,000,000	3300
Henrico	675,000	203
King George	7,250,000	2175
Loudoun	42,266,143	12680
Louisa	10,400,000	3120

County	Sq ft	Estimated MW
Orange	5,000,000	1500
Prince Edward	1,300,000	390
Prince William	55,874,562	16762
Spotsylvania	11,000,000	3300
Stafford	6,010,000	1803
Virginia Beach	140,000	42
Wise	200,000	60

That's potentially **a huge increase in energy!**

**Total Current Load From
Data Centers in VA**

= 3,200 MW

**Proposed Data Centers in
the State**

as high as 54,105 MW!

Let's put that energy use in context: **1MW = 250 homes**

Total Current Load From
Data Centers in VA

= 3,200 MW



800,000 homes

Proposed Data Centers in
the State

as high as 54,105 MW!



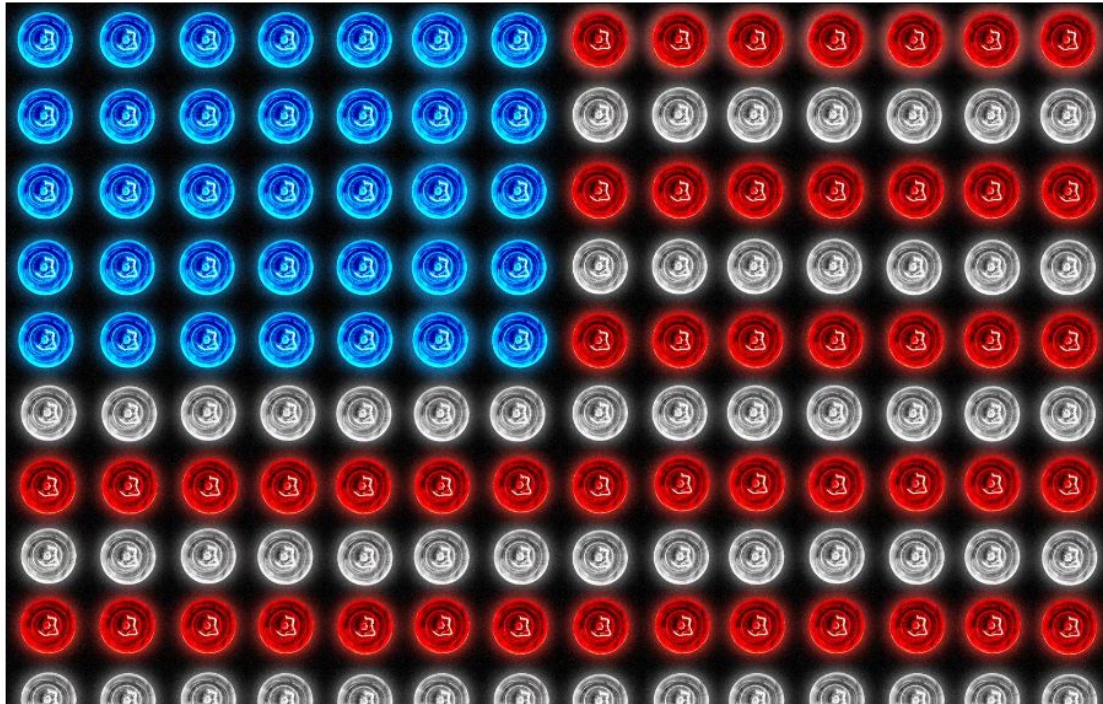
13.5 million homes!

Amid explosive demand, America is running out of power

AI and the boom in clean-tech manufacturing are pushing America's power grid to the brink. Utilities can't keep up.

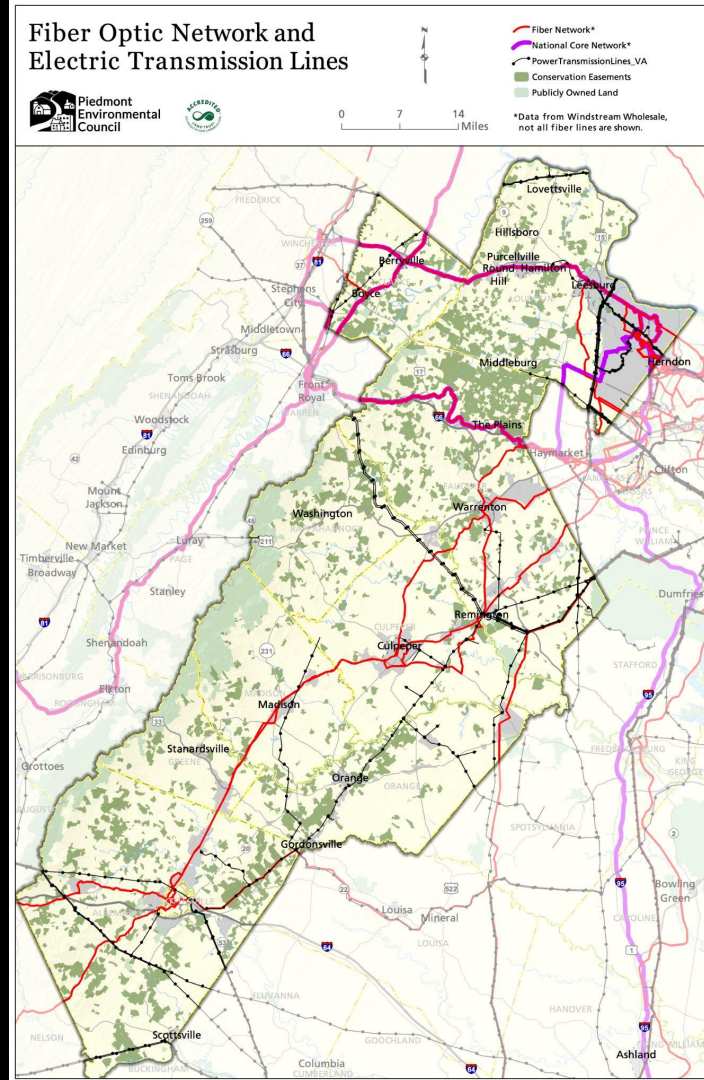


March 7, 2024 at 6:05 a.m. EST

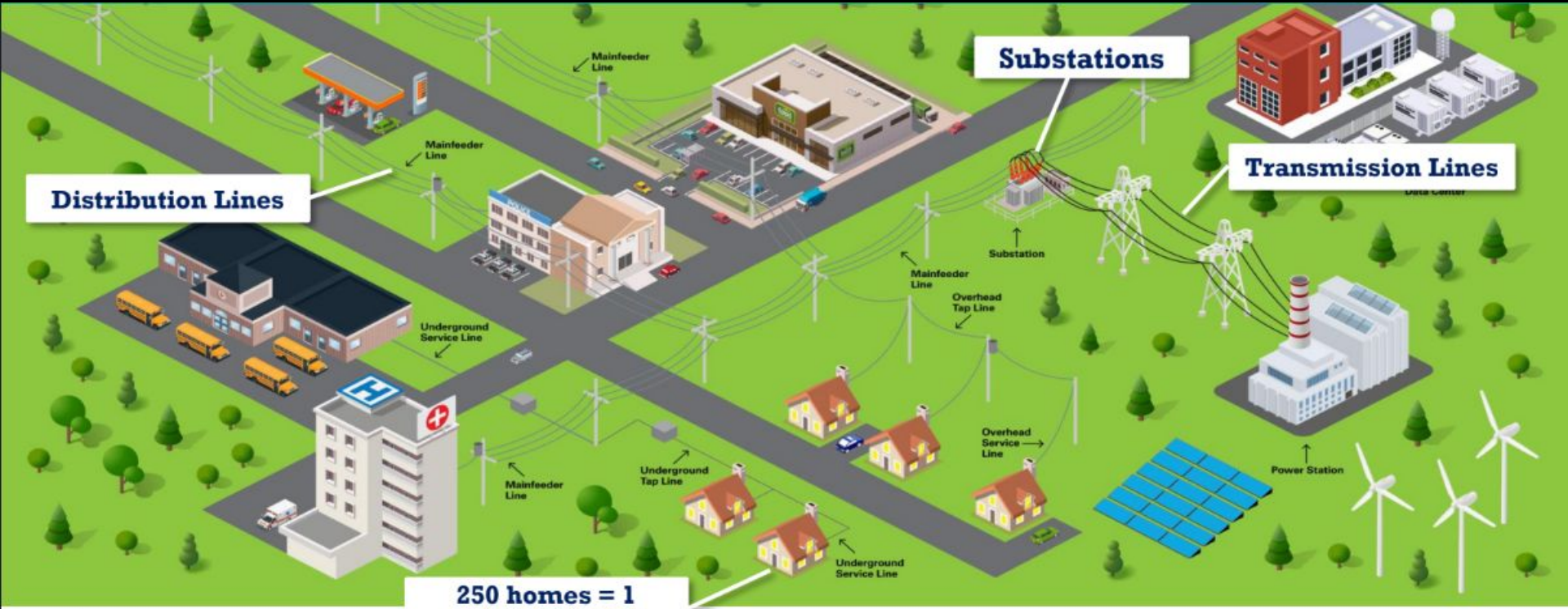


Why do they keep coming to
Virginia though?

- Robust Fiber Network (MAE-East brought one of the earliest internet exchange points to the eastern seaboard, later Equinix)
- Proximity to largest data center market in the world
- Proximity to Skilled Personnel and Services
- Safe Location
- Available Land
- Available Water
- Materials/Resources
- Supportive Government Policies
- Tax Incentives (often at both the state and local level)
- **Access to Power!**



How the power grid works...



May 22, 2023

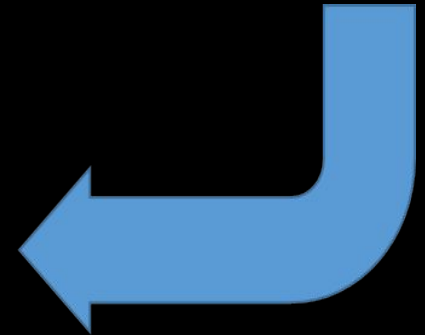
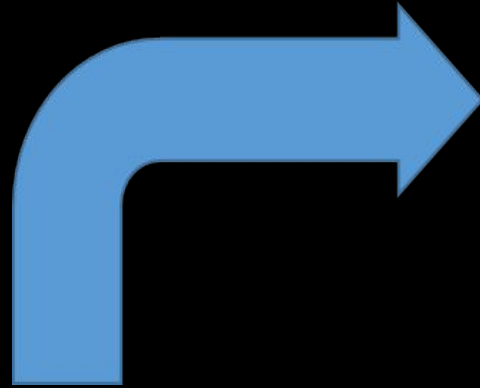
250 homes = 1 megawatt (MW)

***1000 MW = 1 gigawatt**

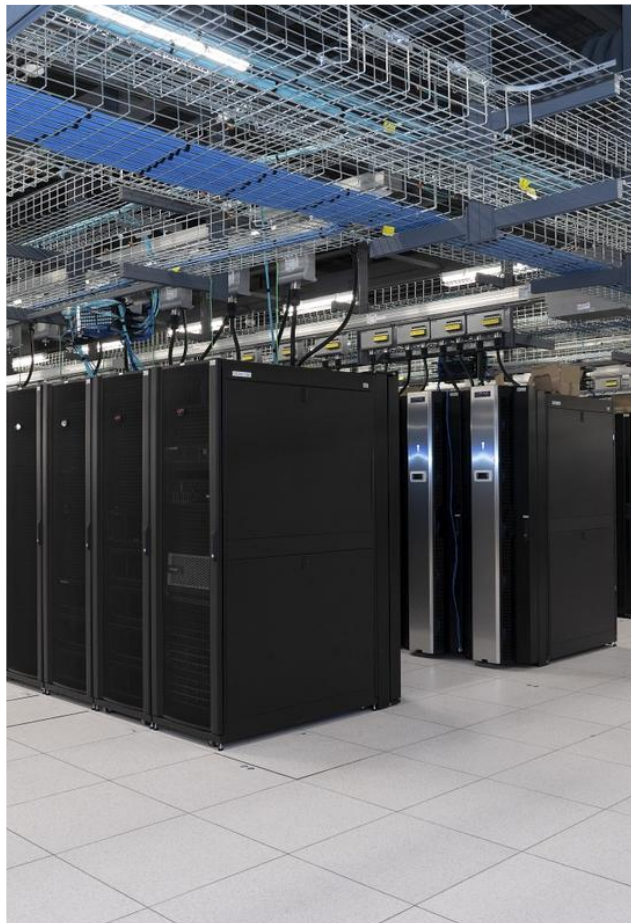


Our structure **perpetuates more** and more growth...

1. **Utility has an obligation to serve any customer** requesting power, no matter where or how much.
2. Transmission lines, many of the substations, and power generation are **paid for by all ratepayers**.
3. Localities often approve data center development along transmission lines because these areas are considered **already impacted**.



What's using all the power?



And they're **getting bigger and bigger too...**

- In 2018 large data centers were around 50,000 to 100,000 sqft
- In 2023 large data centers are around 200,000 to 300,000 sqft
- 2018 -> 10-15 MW per building
- In 2023 -> 30-90 MW per building
- Multi building campuses are common using 600MW+



Prince William Digital Gateway

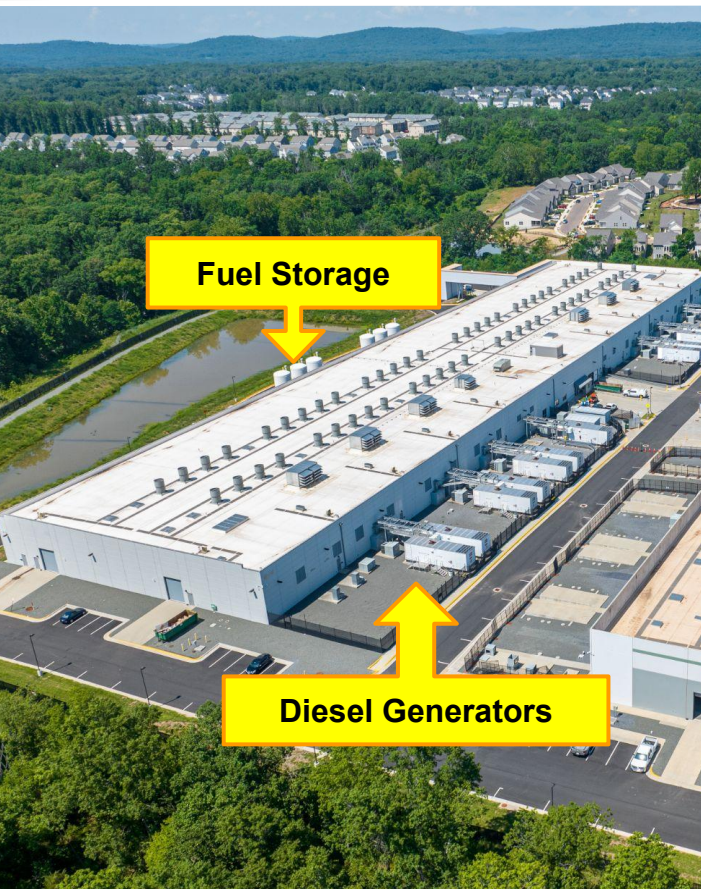
At least **3 gigawatts (GW)** of energy,
equivalent to the power used by
750,000 homes

37 buildings and 15 substations

Approved December 12th, 2023



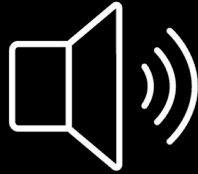
Back up power is **diesel generators**...



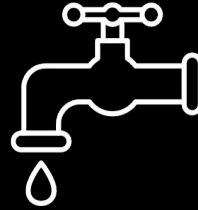
They create a host of **community-level impacts**



Parks and Trails



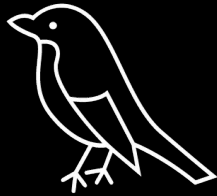
Noise



Water



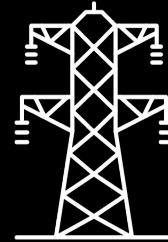
Air Quality



Wildlife Habitat

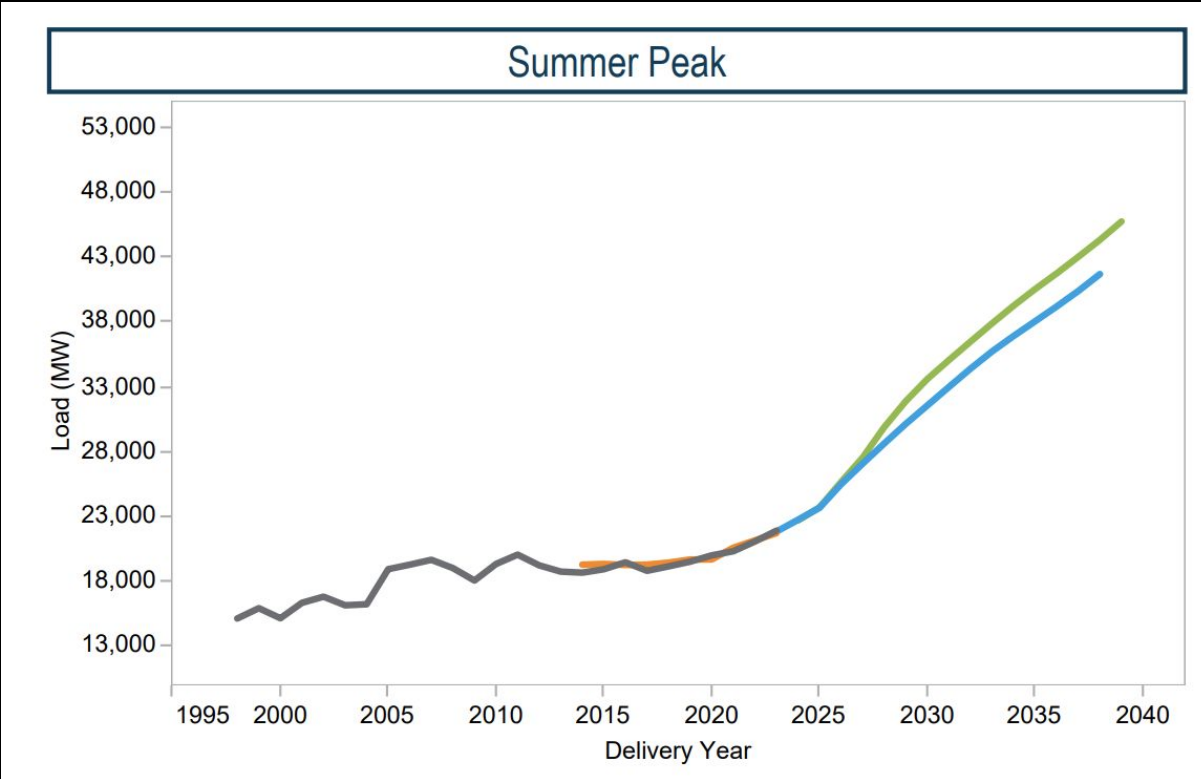


Design



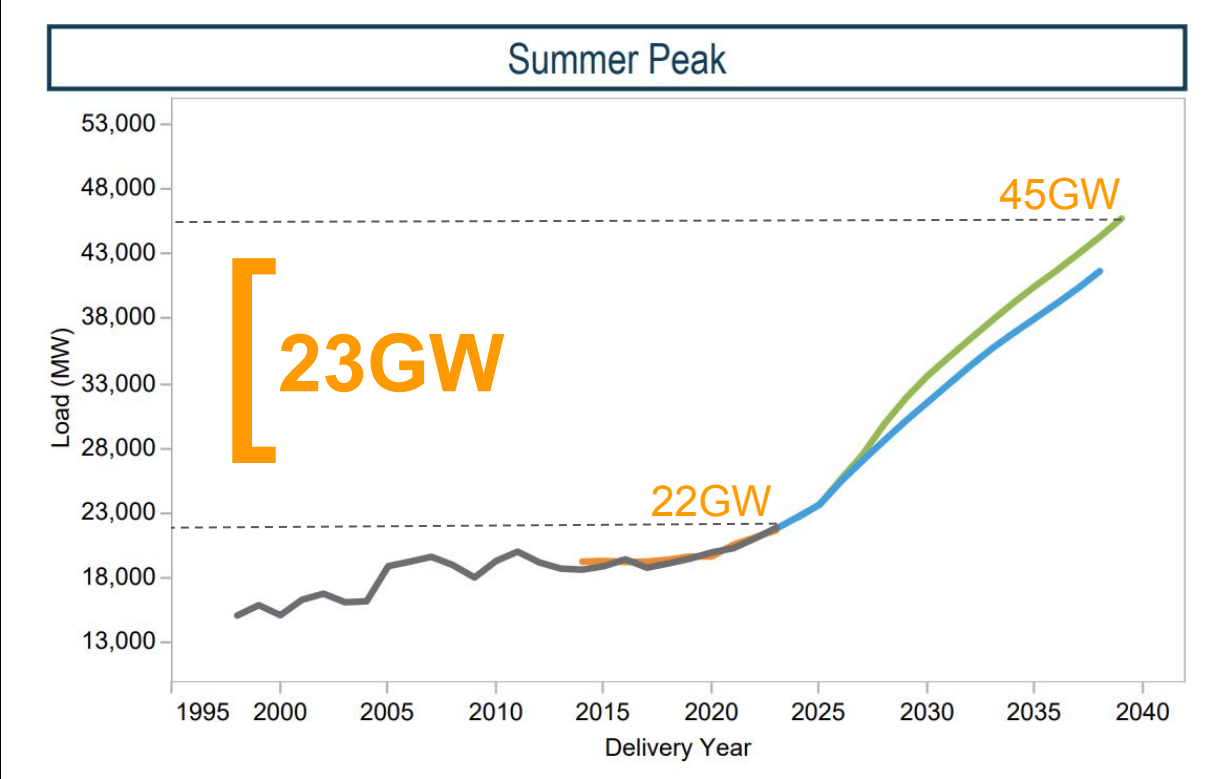
**Transmission and
Substations**

Dominion Territory Explosive Growth Trends



Green = 2024 projection
Blue = 2023 projection

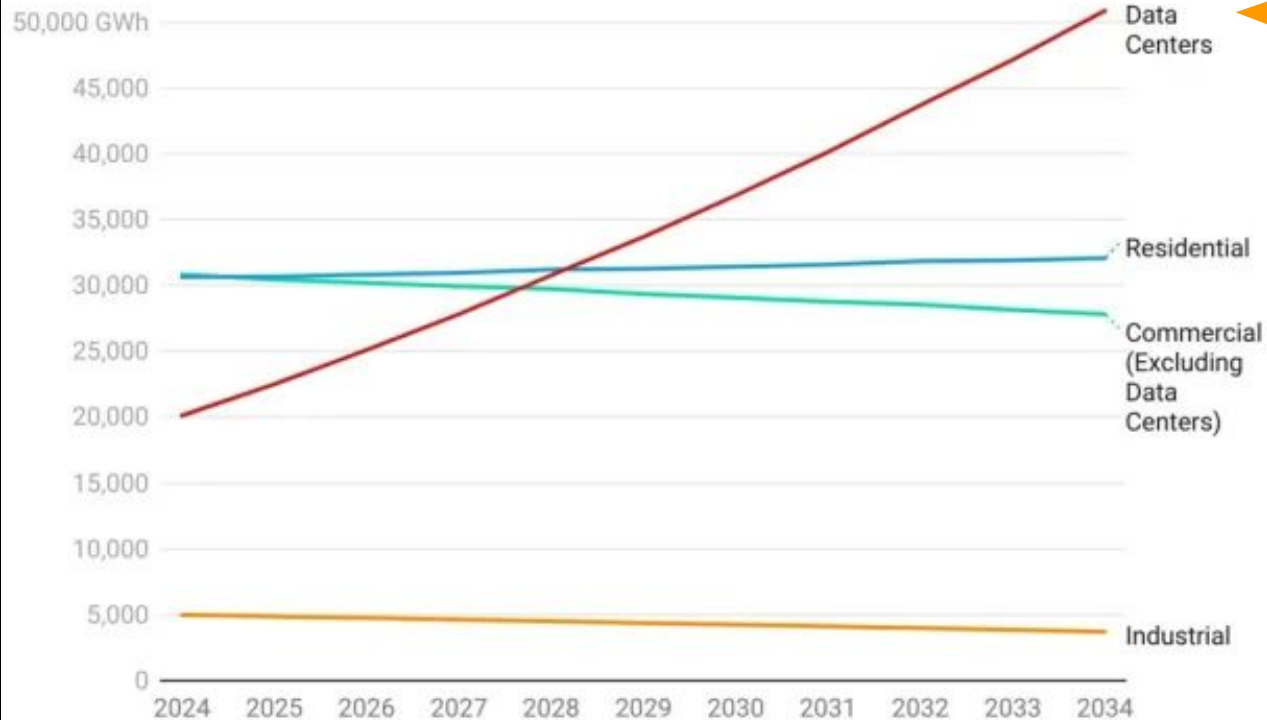
Dominion Territory Explosive Growth Trends



Green = 2024 projection
Blue = 2023 projection

Forecasted Dominion Energy annual electricity sales

Data center electric sales will increase by 152% in the next decade, while others sectors remain mostly the same.



The overall increase in electricity sales is forecasted to be 32% over 10 years. That accounts for increased energy efficiency among other sectors. The forecast does not include projected electricity demand from electric vehicles.

Chart: Emily Richardson/VCU Capital News Service • Source: The Energy Transition Initiative at the Weldon Cooper Center for Public Service. • Created with Datawrapper

That's a **doubling of Virginia's peak load,**
solely due to data center development,
within 15 years!

What's Dominion's Plan?



ENERGY + ENVIRONMENT

Dominion projects new gas plants, advanced nuclear will be needed to meet soaring demand

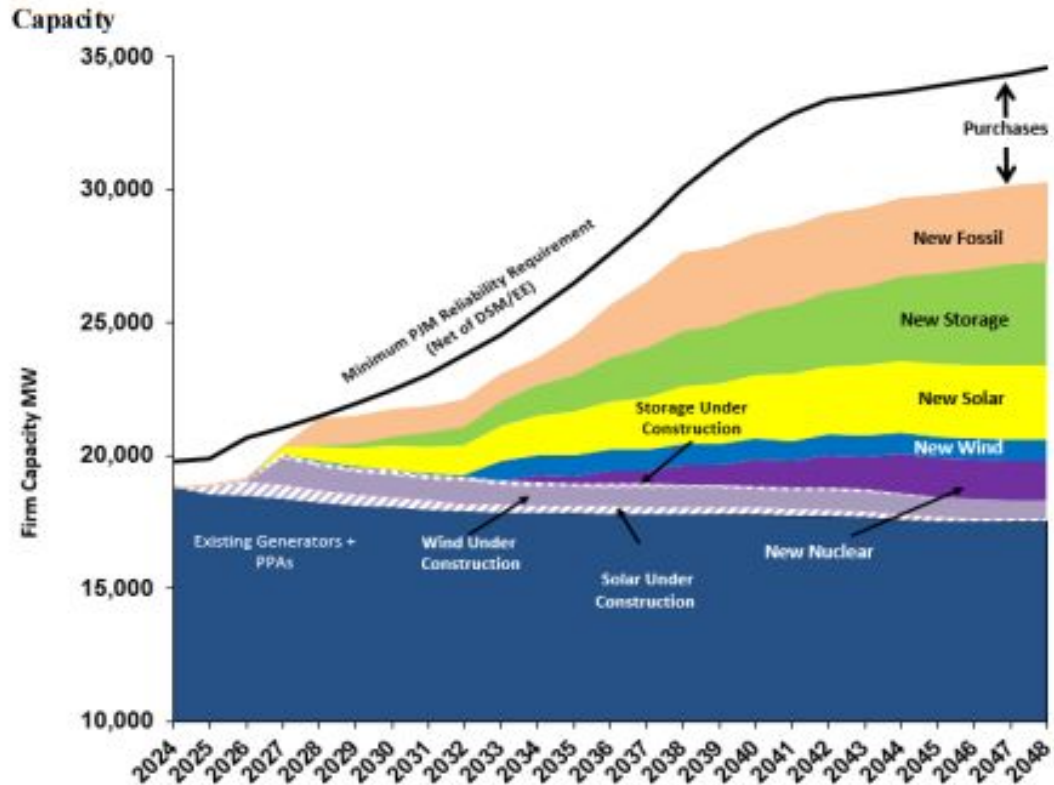
Latest long-range plan shows data centers and electrification are driving rising power needs

BY: CHARLIE PAULLIN - MAY 3, 2023 12:02 AM



Dominion's plan...

Appendix 2A: Plan B - Summer Capacity, Energy, and RECs



How much does Dominion's plan cost?

Executive Summary Table: 2023 Plan Results

	Plan A	Plan B	Plan C	Plan D	Plan E
NPV Total (\$B)	\$109.70	\$127.70	\$127.20	\$140.90	\$138.00
Approximate CO₂ Emissions from Company in 2048 (Metric Tons)	43.8 M	35.9 M	36 M	0 M	0 M
Solar (MW)	10,800 15 yr. 19,800 25 yr.	10,875 15 yr. 19,875 25 yr.	10,800 15 yr. 19,800 25 yr.	10,875 15 yr. 23,955 25 yr.	11,094 15 yr. 24,294 25 yr.
Wind (MW)	3,040 15 yr. 3,220 25 yr.	3,040 15 yr. 3,220 25 yr.	3,040 15 yr. 3,220 25 yr.	3,040 15 yr. 3,220 25 yr.	3,040 15 yr. 3,220 25 yr.
Storage (MW)	1,050 15 yr. 3,960 25 yr.	2,370 15 yr. 5,190 25 yr.	2,220 15 yr. 5,220 25 yr.	2,370 15 yr. 9,780 25 yr.	2,910 15 yr. 10,350 25 yr.
Nuclear (MW)	— 15 yr. — 25 yr.	804 15 yr. 1,608 25 yr.	804 15 yr. 1,608 25 yr.	1,608 15 yr. 4,824 25 yr.	1,072 15 yr. 4,288 25 yr.
Natural Gas-Fired (MW)	5,905 15 yr. 9,300 25 yr.	2,910 15 yr. 2,910 25 yr.	2,910 15 yr. 2,910 25 yr.	970 15 yr. 970 25 yr.	970 15 yr. 970 25 yr.
Retirements (MW)	— 15 yr. — 25 yr.	— 15 yr. — 25 yr.	— 15 yr. — 25 yr.	— 15 yr. 11,399 25 yr.	— 15 yr. 11,399 25 yr.

This cost will be **passed on to ratepayers**



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NOTICE TO THE PUBLIC OF RENEWABLE PORTFOLIO STANDARD (RPS) FILING BY VIRGINIA ELECTRIC AND POWER COMPANY DB/A DOMINION ENERGY VIRGINIA CASE NO. PUR-2023-00142

- Virginia Electric and Power Company d/b/a Dominion Energy Virginia ("Dominion") has submitted its 2023 Renewable Portfolio Standard ("RPS") filing ("2023 RPS Filing"). The 2023 RPS Filing requests approval to construct and operate 13 new utility-scale projects and to enter into 13 new power purchase agreements ("PPAs") for the construction and operation of 13 new utility-scale projects and to enter into 13 new power purchase agreements ("PPAs").
- Dominion requests approval of revised Rider CE with a revenue requirement of \$1,000,000,000 for the rate year beginning in 2024 and concluding April 30, 2025. According to Dominion, the revenue requirement would increase a typical residential customer bill by \$100.00 per month by 2024.
- A Hearing Examiner appointed by the Commission will hold a telephone hearing in this case on November 30, 2023, at 9:00 a.m. for the receipt of public witness testimony.
- An evidentiary hearing will also be held on January 10, 2024, at 9:00 a.m., at the conclusion of the trial held on the 10th day of the hearing, whichever is later, at the Commission's central office located at the 10th Building, 1300 East Main Street, Richmond, Virginia 23219, to receive the testimony and evidence of Dominion, any respondents, and Commission staff.
- Further information about this case is available on the SOC website at: www.soc.dominionenergy.com/submissions

During its 2023 Session, the Virginia General Assembly enacted Chapters 900 (HB 1526) and 914 (SB 851) of the 2023 Virginia Acts of Assembly. These legislative Acts of Assembly, known as the Virginia Clean Economy Act ("VCEA"), became effective on July 1, 2023. The VCEA, inter alia, establishes a mandatory renewable energy portfolio standard ("RPS") program ("RPS Program") for Virginia Electric and Power Company ("Dominion") or "Company" in § 56-585.5 of the Code of Virginia ("Code"). Subdivision (c) of Code § 56-585.5 requires Dominion to submit annually to the State Corporation Commission ("Commission") plans and petitions for approval of new solar and onshore wind generation capacity ("RPS Filing"). The Commission must determine whether the RPS Filing is reasonable and prudent, given due consideration to the following factors: (i) the RPS and carbon dioxide reduction requirements in Code § 56-585.5; (ii) the generation of new renewable generation and energy storage resources within the Commonwealth, and associated economic development; and (iii) savings anticipated to be achieved by the RPS.

On October 3, 2023, Dominion submitted its annual RPS Filing to the Commission ("2023 RPS Filing" or "RPS Filing"). The 2023 RPS Filing requests the Commission:

- (i) Approve the Company's annual plan for the development of new solar, onshore wind, and energy storage resources ("RPS Development Plan") in connection with the mandatory RPS Program pursuant to Code § 56-585.5; and
- (ii) Approve to recover through the Rider CE rate adjustment clause the costs of (a) five utility-scale solar projects, totaling approximately 334 MW, and related interconnection facilities, including approximately 334 MW, and (b) one distributed solar project, totaling approximately 3 MW, and related interconnection facilities ("CE-4 Distributed Solar Project"), pursuant to Code § 56-508.1 A.6;
- (iii) Approve an update to the Rider CE for recovery of costs associated with the previously approved CE-1, CE-2, and CE-3 projects, the CE-2 and CE-3 distributed solar project, and related interconnection facilities;
- (iv) Make a prudence determination for the Company to enter into 13 power purchase agreements ("PPAs") for solar resources, totaling approximately 435 MW, collectively, "CE-4 PPAs" pursuant to Code § 56-585.1 A;
- (v) Approve recovery through Rider CE of the costs of the CE-4 PPAs pursuant to Code § 56-508.1 A.5; and
- (vi) Approve the Company's request to consolidate Rider CE and Rider PPA pursuant to Code § 56-585.5 T.1, resulting in: (a) the recovery of costs associated with the CE-1, CE-2, and CE-3 PPA through Rider CE; and (b) the new Rider PPA effective as of April 30, 2024.

RPS Development Plan
 Dominion states that its RPS Development Plan reports on the Company's progress toward meeting the solar, onshore wind, and energy storage development targets outlined in the VCEA and presents the Company's development plan for solar, onshore wind, and energy storage facilities through 2025. The Company's RPS Development Plan calls for additional investment in solar, onshore wind, and energy storage through 2025.

The Company also provides a consolidated bill analysis calculating the projected monthly bill through 2025 for residential, small general service, and large general service customers for each alternative rate presented in the Company's 2023 Integrated Resource Plan for Alternative Plan B. For example, the Company projects the monthly bill of a Virginia residential customer using 1,000 kilowatt hours ("kWh") per month to be \$243.20 by 2025, an increase of \$127.02 over the \$116.18 rate in 2023. The monthly bill projection is based on the Commission's Case No. PUR-2023-00134. The Company's bill projections are not final and all customer rates are subject to regulatory approval.

Further, the Company also presents its 2022 RPS Program Compliance Report in the Petition, certifying compliance with the RPS Program for compliance year 2022.

CE-4 Projects
 Dominion seeks CPNs and approval to construct or acquire and operate four utility scale projects totaling approximately 334 MW of solar. In addition to these four projects, Dominion intends to acquire and operate one additional CE-4 Project, a one MW solar facility ("Proposed") however, the Company asserts that, consistent with the Commission's prior determination that projects of the MW or less do not require a CPN, and Rule 19 of the Commission's Filing Requirements in Support of Applications for Authority to Construct and Operate an Electric Generating Facility, Proposed does not require a CPN.

The names, site, locality, interconnection and projected commercial operation date ("COO") for each of the CE-4 Projects is provided below:

Project	Size (MW)	Locality	Interconnection	COO
Station	37	Frederick County	Transmission	2028
East Ridge	95	Phillypotts County	Transmission	2028
Bookers Hill	127	Richmond County	Transmission	2024
Melrose	98	Richmond County	Transmission	2026
Proposed	5	Harrods County	Distribution	2024

The Company asserts that the CE-4 Projects are needed to comply with the VCEA and to serve customers' capacity and energy needs. According to the Company, the total estimated costs for the CE-4 Projects are approximately \$52.5 million, excluding financing costs, or approximately \$2,502 per kilowatt ("kW") at the total 334 MW (nominal AC) rating.

Rider CE
 In this proceeding, Dominion makes four requests related to Rider CE. First, the Company seeks to recover the CE-4 Project's costs associated with the CE-1, CE-2, and CE-3 projects, which have previously been approved by the Commission.

Second, Dominion requests recovery through Rider CE of the costs of the CE-4 Projects and CE-4 Distributed Solar Project, as well as the related interconnection facilities. The CE-4 Projects and CE-4 Distributed Solar Project are needed to comply with the VCEA and to serve customers' capacity and energy needs. According to the Company, the total estimated costs for the CE-4 Distributed Solar Project are approximately \$10.3 million, excluding financing costs, or approximately \$3,642 per kW at the total 3 MW (nominal AC) rating.

Third, the Company seeks to consolidate Rider CE and Rider PPA. Rider PPA was approved by the Commission pursuant to Code § 56-585.1 A.5 for the recovery of costs associated with the CE-1, CE-2, and CE-3 PPA. The Company asserts that the consolidation of Rider CE and Rider PPA is in the interest of judicial economy because the Commission already considers the prudence of PPA in the annual RPS Filing proceedings, and the consolidation would allow the Commission to consider associated cost recovery issues in a single proceeding. As a consolidation would result in the recovery of costs associated with the previously approved CE-1, CE-2, and CE-3 PPA through Rider CE, consolidation would also result in the end of Rider PPA as of April 30, 2024.

Fourth, the Company seeks to recover the costs of the CE-4 PPA through Rider CE. Dominion seeks the Commission to approve revised Rider CE for the rate year beginning May 1, 2024, and ending April 30, 2025 ("Rate Year"). The Company is requesting a solar revenue requirement of \$138,578,496 in Rider CE for the Rate Year. If the proposed total revenue requirement for the Rate Year is approved, the impact on customer bills would depend on the customer's rate schedule and on-Dominion, implementation of its revised Rider CE on May 1, 2024, would increase the monthly bill of a residential customer using 1,000 kWh per month by approximately \$1.54 when compared to the consistent total residential rates in the current Rider CE and Rider PPA.

CE-4 PPA
 In its 2023 RPS Filing, Dominion also seeks a prudence determination for the CE-4 PPA. The CE-4 PPA consists of: (i) eight PPA for utility-scale solar generating facilities totaling approximately 420 MW and (ii) the PPA for distributed solar generating facilities totaling approximately 3 MW. Dominion asserts that the CE-4 PPA is needed to comply with the VCEA and to serve customers' capacity and energy needs. As noted above, the Company seeks approval to recover the costs of the CE-4 PPA through Rider CE. In addition to the costs of the CE-1, CE-2 and CE-3 PPA previously approved by the Commission.

Interested parties are encouraged to review Dominion's Petition and supporting documents in full for details about these and other proposals.

HEARING NOTICE The Commission may appoint reviewers among customer classes and/or design rates in a manner differing from that shown in the Petition and supporting documents and thus may adopt rates that differ from those appearing in the Company's Petition and supporting documents.

The Commission entered an Order for Notice and Hearing in this proceeding that, among other things, scheduled public hearings on Dominion's Petition. A hearing for the receipt of testimony from public witnesses on the Company's Petition shall be conducted telephonically at 11:00 a.m. on January 15, 2024, or before January 3, 2024, at any other time after the notice to the public witness shall provide to the Commission (a) your name, and (b) the telephone number that you wish the Commission to call during the hearing to receive your testimony. This information may be provided to the Commission in three ways: (i) by filing a bill of materials with the Commission;

“For Alternative Plan B... the Company projects the monthly bill of a Virginia residential customer using 1,000 kilowatt hours (“kWh”) per month to be \$243.20 by 2025, an increase of \$127.02 over the May 1, 2020 level...”

- Dominion legal notice Oct. 25, 2023

“For Alternative Plan B... the Company projects the monthly bill of a Virginia residential customer using 1,000 kilowatt hours (“kWh”) per month to be \$243.20 by 2035, **an increase of \$127.02** over the May 1, 2020 level...”

- Dominion legal notice Oct. 25, 2023

That's a 100% increase by 2035!

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NOTICE TO THE PUBLIC OF RENEWABLE PORTFOLIO STANDARD (RPS) FILING BY VIRGINIA ELECTRIC AND POWER COMPANY D/B/A DOMINION ENERGY VIRGINIA CASE NO. PUR-2023-00142

Virginia Electric and Power Company d/b/a Dominion Energy Virginia ("Dominion") has submitted its 2023 Renewable Portfolio Standard ("RPS") filing ("2023 RPS Filing") to the 2023 RPS Review Commission ("RPS Review Commission") for review and approval. The RPS Review Commission will review the RPS Review Commission's RPS Development Plan and projects to be approved or acquired and update the rate case for utility-scale projects and to enter into 13 new power purchase agreements.

Dominion requests approval of revised Rider CE with a revenue requirement of \$14,000,000 over the rate year beginning in 2024 and concluding April 30, 2024. According to Dominion's estimate, revenue would increase a typical residential customer's bill by \$127.02 per month by 2034.

A Hearing Examiner appointed by the Commission will hold a telephone hearing in this case on November 30, 2023, at 9:00 a.m. for the receipt of public witness testimony.

An evidentiary hearing will also be held on January 10, 2024, at 9:00 a.m., or at the discretion of the Public Utilities and Safety Board, at the Commission's annual rate case hearing located at the New Building, 1300 East Main Street, Richmond, Virginia 23219, to receive the testimony and evidence of Dominion, any respondents, and Commission staff.

Further information about this case is available on the SCC website at: www.scc.virginia.gov/cases/CasesSubmissions

During its 2023 Session, the Virginia General Assembly enacted Chapters 900 (HB 1526) and 1154 (SB 65) of the 2023 Virginia Acts of Assembly. These legislative Acts of Assembly, known as the Virginia Clean Economy Act ("VCEA"), became effective on July 1, 2023. The VCEA, inter alia, establishes a mandatory renewable energy portfolio standard ("RPS") program ("RPS Program") for Virginia Electric and Power Company ("Dominion" or "Company") in § 56-585.5 of the Code of Virginia ("Code"). Subdivision (b) of Code § 56-585.5 requires Dominion to submit annually to the State Corporation Commission ("Commission") plans and petitions for approval of new solar and onshore wind generation capacity ("RPS Filing"). The Commission shall determine whether the RPS Filing is reasonable and prudent, given due consideration to the following factors: (i) the RPS and carbon dioxide reduction requirements in Code § 56-585.5; (ii) the generation of new renewable generation and energy storage resources within the Commonwealth; and associated economic development; and (iii) savings projected to be achieved by the RPS.

On October 3, 2023, Dominion submitted its annual RPS Filing to the Commission ("2023 RPS Filing" or "RPS Filing"). The 2023 RPS Filing requests the Commission:

- (i) Approve the Company's annual plan for the development of new solar, onshore wind, and energy storage resources ("RPS Development Plan") in connection with the mandatory RPS Program pursuant to Code § 56-585.4;
- (ii) Grant certification of public convenience and necessity ("CPCN") and approval to construct (a) solar and onshore wind utility-scale projects totaling approximately 320 megawatts ("MW") of solar pursuant to Code § 56-580.2;
- (iii) Approve to recover through the Rider CE rate adjustment clause the costs of (a) five utility-scale solar projects, totaling approximately 334 MW, and related interconnection facilities ("CE-4 Projects"); and (b) one distributed solar project, totaling approximately 3 MW, and related interconnection facilities ("CE-4 Distributed Solar Project"), pursuant to Code § 56-508.1 A, B;
- (iv) Approve an update to Rider CE for recovery of costs associated with the previously approved CE-1, CE-2, and CE-3 projects, the CE-2 and CE-3 distributed solar projects, and related interconnection facilities;
- (v) Make a prudence determination for the Company to enter into 13 power purchase agreements ("PPAs") for solar resources, totaling approximately 425 MW, (collectively, "CE-4 PPAs") pursuant to Code § 56-585.1 A;
- (vi) Approve recovery through Rider CE of the costs of the CE-4 PPAs pursuant to Code § 56-508.1 A, B, and
- (vii) Approve the Company's request to consolidate Rider CE and Rider PPA pursuant to Code § 56-585.5 A, T, resulting in: (a) the recovery of costs associated with the CE-1, CE-2, and CE-3 PPA through Rider CE; and (b) the removal of Rider PPA as of April 30, 2024.

RPS Development Plan
Dominion states that its RPS Development Plan reports on the Company's progress toward meeting the solar, onshore wind, and energy storage development targets outlined in the VCEA and presents the Company's development plan for solar, onshore wind, and energy storage facilities through 2035. The Company's RPS Development Plan calls for additional investment in solar, onshore wind, and energy storage through 2035.

The Company also provides a consolidated bill analysis calculating the projected monthly bill through 2035 for residential, small general service, and large general service customers for each alternative plan presented in the Company's 2023 RPS Filing and Resource Plan for Alternative Plan B. For example, the Company projects the monthly bill of a Virginia residential customer using 1,000 kilowatt hours ("kWh") per month to be \$243.20 by 2035, an increase of \$127.02 over the May 1, 2020 level. The RPS Review Commission will review the Company's RPS Development Plan and projects to be approved or acquired and update the rate case for utility-scale projects and to enter into 13 new power purchase agreements.

Further, the Company also presents its 2023 RPS Program Compliance Report in the Petition, certifying compliance with the RPS Program for compliance year 2022.

CE-4 Projects
Dominion seeks CPCNs and approval to construct or acquire and operate four utility-scale projects totaling approximately 320 MW of solar. In addition to these four projects, Dominion intends to acquire and operate one additional CE-4 Project, a one MW solar facility ("Proposition"), however, the Company asserts that, consistent with the Commission's prior determination that projects of the MW or less do not require a CPCN, and Rule 13 of the Commission's Filing Requirements in Support of Applications for Authority to Construct and Operate an Electric Generating Facility, Proposition does not require a CPCN.

The name, size, location, interconnection and projected commercial operation date ("COO") for each of the CE-4 Projects is provided below:

Project	Size (MW)	Locality	Interconnection	COO
Station	37	Stafford County	Transmission	2028
East Ridge	95	Prince George's County	Transmission	2028
Bookers Hill	127	Richmond County	Transmission	2024
Melrose	98	Stafford County	Transmission	2026
Proposition	5	Prince George's County	Distribution	2024

The Company asserts that the CE-4 Projects are needed to comply with the VCEA and to serve customers' capacity and energy needs. According to the Company, the total estimated costs for the CE-4 Projects are approximately \$55.8 million, excluding financing costs, or approximately \$2,502 per kilowatt ("kW") at the total 334 MW (nominal AC) rating.

Rider CE
In this proceeding, Dominion makes four requests related to Rider CE. First, the Company seeks to update Rider CE to the recovery of costs associated with the CE-1, CE-2, and CE-3 projects. Second, Dominion requests recovery through Rider CE of the costs of the CE-4 Projects and CE-4 Distributed Solar Project, as well as the related interconnection facilities. The CE-4 Projects and CE-4 Distributed Solar Project are approximately \$13.3 million, excluding financing costs, or approximately 3 MW and related interconnection facilities.

The Company asserts that the CE-4 Distributed Solar Project is needed to comply with the VCEA and to serve customers' capacity and energy needs. According to the Company, the total estimated costs for the CE-4 Distributed Solar Project are approximately \$13.3 million, excluding financing costs, or approximately \$3,642 per kW at the total 3 MW (nominal AC) rating.

Third, the Company seeks to consolidate Rider CE and Rider PPA. Rider PPA was approved by the Commission pursuant to Code § 56-585.1 A for the recovery of costs associated with the CE-1, CE-2, and CE-3 PPAs. The Company asserts that the consolidation of Rider CE and Rider PPA is in the interest of judicial economy because the Commission already considers the prudence of PPAs in the annual RPS Filing proceedings, and the consolidation would allow the Commission to consider associated cost recovery mechanisms. Such a consolidation would result in the recovery of costs associated with the previously approved CE-1, CE-2, and CE-3 PPAs through Rider CE. Consolidation would also result in the end of Rider PPA as of April 30, 2024.

Fourth, the Company seeks to recover the costs of the CE-4 PPAs through Rider CE. Dominion asks the Commission to approve revised Rider CE for the rate year beginning May 1, 2024, and ending April 30, 2025 ("Rate Year"). The Company is requesting a solar revenue requirement of \$138,578,496 in Rider CE for the Rate Year. If the proposed total revenue requirement for the Rate Year is approved, the impact on customer bills would depend on customer bill schedule and usage. According to Dominion, implementation of the revised Rider CE on May 1, 2024, would increase the monthly bill of a residential customer using 1,000 kWh per month by approximately \$127.02 when compared to the consolidated total residential rates in the current Rider CE and Rider PPA.

CE-4 PPAs
In its 2023 RPS Filing, Dominion also seeks a prudence determination for the CE-4 PPAs. The CE-4 PPAs consist of (a) eight PPAs for utility-scale solar generating facilities totaling approximately 425 MW and (b) the PPA for distributed solar generating facilities totaling approximately 3 MW. Dominion asserts that the CE-4 PPAs are needed to comply with the VCEA and to serve customers' capacity and energy needs. As noted above, the Company seeks approval to recover the costs of the CE-4 PPAs through Rider CE. In addition to the costs of the CE-1, CE-2 and CE-3 PPAs previously approved by the Commission.

Interested parties are encouraged to review Dominion's Petition and supporting documents in full for details about these and other proposals.

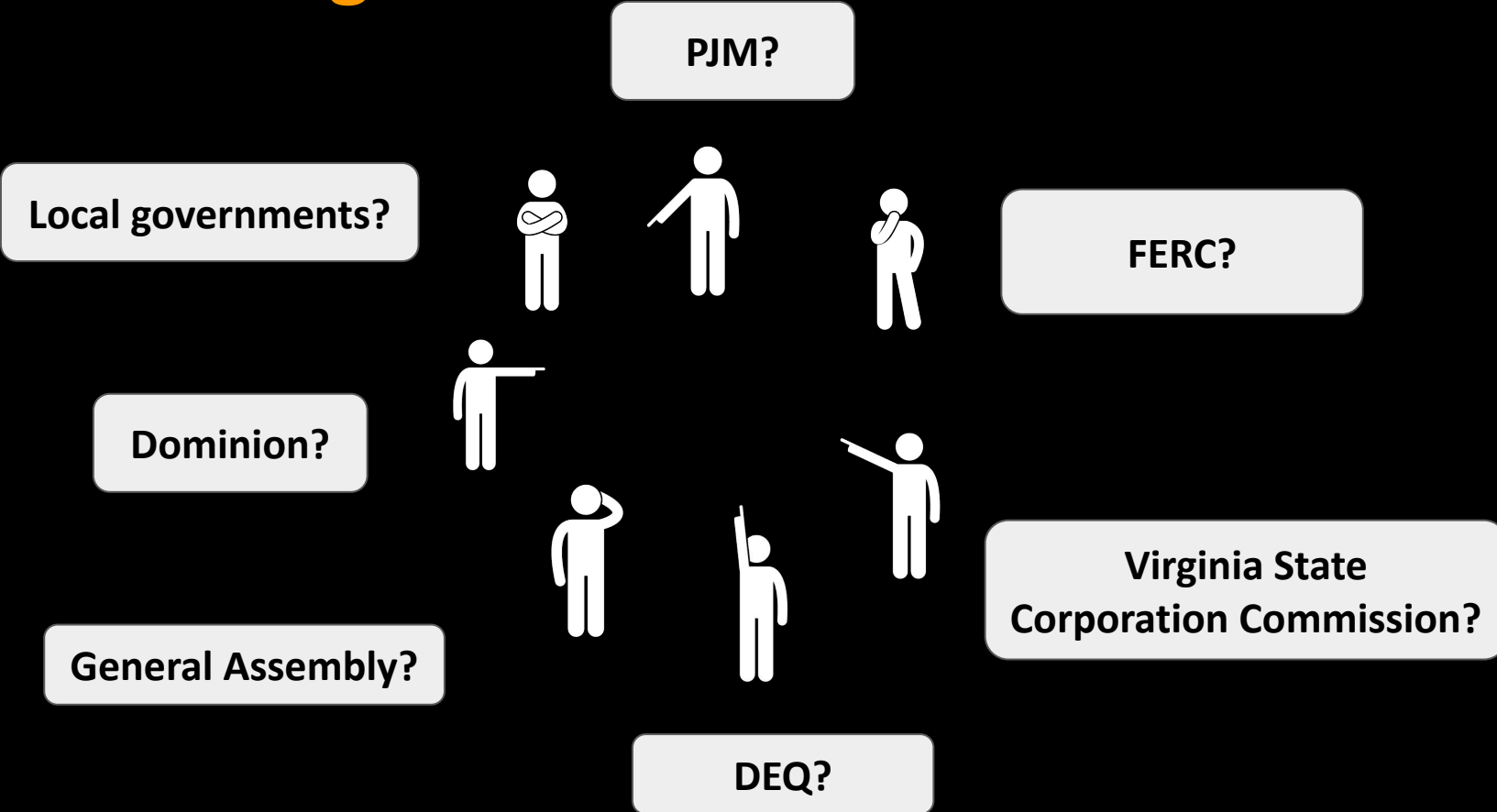
HEARING NOTICE The Commission may approve revisions among customer classes and/or design rates in a manner differing from that shown in the Petition and supporting documents and thus may adopt rates that differ from those appearing in the Company's Petition and supporting documents.

The Commission entered an Order for Notice and Hearing in this proceeding that, among other things, scheduled public hearings on Dominion's Petition. A hearing for the receipt of testimony from public witnesses on the Company's Petition shall be conducted telephonically at 11 a.m. on January 10, 2024, or before January 10, 2024, any person wishing to offer testimony as a public witness shall provide to the Commission (a) their name, and (b) the telephone number that you wish the Commission to call during the hearing to receive your testimony. This information may be provided to the Commission in three ways: (i) by filing said form on the Commission's

What's happening in Virginia is **unprecedented**.

We don't have all the answers, but we know that what's happening now will **impact Virginia and ratepayers for years to come**.

Who is in charge?



PJM?

Local governments?

FERC?

Dominion?

Virginia State Corporation Commission?

General Assembly?

DEQ?

Who is in charge?

Local governments?

We need the revenue! Regional impacts are the state's problem!

Electric Utility?

We have an obligation to serve any customer that requests power.

General Assembly?

Approving land uses is the purview of localities, not the state.

PJM?

We just operate a competitive market and ensure reliability!

FERC?

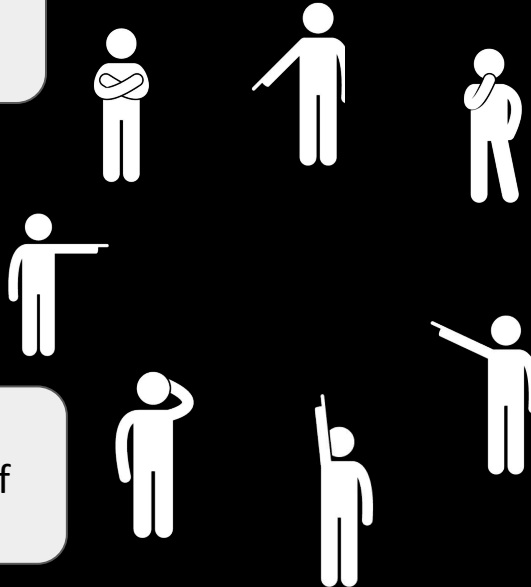
This is Virginia's issue, we just regulate interstate transmission.

Virginia State Corporation Commission?

We regulate the utilities within the guidance set forth in the Virginia Code.

DEQ?

We evaluate permits individually and have no framework for evaluating cumulative impacts.



Virginia cannot continue down this path.

In summary:

- Explosive growth of data centers requires massive amounts of energy and energy infrastructure
- Burden of air, water, grid, and community impacts is falling on communities
- Threatening Virginia's clean energy future, the environment and our communities
- Costs of infrastructure are borne unfairly by existing ratepayers



What needs to happen?

- Better planning and monitoring
- Greater transparency
- Full impacts understood
- Improved standards and innovation
- Industry paying their fair share
- Mitigation



What needs to happen?

- **Better planning and monitoring**
regional/state plan that guides development and monitors impacts
- **Greater transparency**
clear information made available about energy demands, water use, cost of infrastructure on a project and cumulative basis, etc.
- **Full impacts understood**
policies that require local government to consider the regional impacts of proposed data centers
- **Improved standards and innovation**
better standards for sustainable construction, sustainable power, innovative solutions in the energy and data center sectors, and onsite energy efficiency
- **Industry paying their fair share**
data center industry pays for the energy infrastructure they need, relieving the rate payers of this financial obligation
- **Mitigation**
more robust mitigation paid for by developers to offset impacts to communities and environment



So what are we doing?

Working at local, state, and even national level...

Wednesday's historic data center denial in Loudoun

Posted on March 15, 2024 by Gem Bingol

The following text was sent out via email on Mar. 15, 2024. [Sign up for PEC email alerts](#) →



Residents gathered outside the hearing to show their support for a new approach to data center approvals in Loudoun. Credit Gem Bingol/PEC



Spreading the word and pushing for reform...



Lobbying...



Advocating for state legislative changes...

vcnva.org/our-common-agenda/

OUR COMMON AGENDA

2023 ENVIRONMENTAL BRIEFING BOOK

a publication of Virginia Conservation Network

MITIGATING DATA CENTER DEVELOPMENT'S IMPACTS

LAND USE REFORM

EXECUTIVE SUMMARY

Virginia is home to the largest concentration of data centers in the world, widely cited as hosting 70% of global internet traffic.¹ This massive industry is continuing to grow very fast, requiring huge amounts of energy, land, and water to operate, resulting in widespread community impacts. Yet, the Commonwealth does not currently have any regulatory oversight of data center development and localities continue to approve more facilities without considering the cumulative impacts. This explosive growth of data centers threatens to derail state efforts to meet climate goals, improve air and water quality, advance land conservation, and protect national and state parks.

CHALLENGE

Data center development in Virginia has been accelerating for years with the hub in Northern Virginia known as the largest in the world. Recently that demand has exploded throughout the state, with buildings larger than big box stores and as tall as 90 feet on sprawling campuses. Developments are now being proposed in environmentally sensitive areas next to our national, state, and local parks,² in close proximity to our rivers and streams,³ and in rural areas requiring costly new electrical infrastructure.⁴ Others are adjacent to residential neighborhoods, schools, medical facilities, and nursing homes.

THE GIGANTIC FOOTPRINT OF THE DATA CENTER INDUSTRY THREATENS REGIONAL POWER, LAND CONSERVATION, AND AIR & WATER QUALITY

The footprint of this industry is gigantic and threatens regional power supply, water quality, land conservation, and air quality beyond individual localities reviewing the application. A single data center building now uses between 60-90MW of power at peak demand which is more than 15,000 households⁵. Data centers now make up 21% of Dominion Energy Virginia's

power load⁶ (see SURGING ENERGY DEMAND FROM DATA CENTERS, pg 105). A data center can also consume 3-5 million gallons of water a day for cooling – the equivalent of a small city's overall annual consumption.⁷ They consume massive amounts of land as well. Digital Gateway, a proposal in Prince William County, would allow 27 million square feet of data center development which is the equivalent of about 150 Wal-Mart Supercenters. All of this impervious surface results in increased stormwater runoff and pollution.

To ensure uninterrupted 24/7 service, data center facilities have commercial-sized backup power generators and large fuel tanks on site in the case of a grid outage. According to DEQ, data centers in Loudoun County have air permits for more than 4,000 backup diesel generators⁸ with a total rated capacity of over 11 gigawatts of power! For context, the North Anna nuclear power facility has a rated capacity of 1.8 gigawatts. If the rapid pace of data center construction continues, further straining power, these backup generators could increasingly be put to use, putting air quality and public health at risk.¹⁰

SOLUTION

Despite Virginia having the highest number of data centers in the world, the state lacks critical information about their impacts on our environment and energy grid. Currently, approvals are made unilaterally by localities, which have a strong tax incentive to approve proposals without considering the broader statewide impacts. A comprehensive study of the impacts on the Commonwealth's electrical grid, environment, historic and recreational resources, environmental justice concerns, and ability to meet climate goals is critically needed to protect our communities especially those residents most vulnerable to utility rate hikes, air pollution, and climate impacts.

The National Academies of Science is an independent academic institution with the

ability to lead this study and provide objective advice to inform policy as they have done on past issues such as gold mining and uranium mining. Using data from utilities, localities, and state agencies, the study would include a buildout analysis of what is in operation, approved, and planned and an evaluation of impacts on the electrical grid and ratepayers, climate goals, water consumption, water quality, air quality, land conservation, recreation, and historic preservation.

The General Assembly must also establish a process for state review, including a grid impact statement submitted to Virginia Energy for all new data center power demand requests and a regional review of impacts from new data center proposals by federal and state agencies and regional utilities. Virginia Energy review would provide oversight to ensure continued grid reliability and prevent excessively high costs falling to the ratepayers. The regional review would provide an opportunity for these entities

One of six Amazon data center buildings that sit in front of a community in Loudoun County. The buildings hold a total of 1.5 million square feet of space.
Photo by Hugh Kenney, Piedmont Environmental Council



Tell Congress: Support the Artificial Intelligence Environmental Impacts Act

Posted on [April 18, 2024](#) by [PEC](#)

Despite the growing importance and presence of data centers in American life, Congress has yet to pass any comprehensive federal legislation to address how data centers, the backbone of the cloud, impact our physical world.



A data center in Ashburn, VA. Credit Hugh Kenny/PEC

Data centers have a staggering impact on our communities and the environment. These buildings consume massive amounts of energy 24/7, and that demand is already threatening the reliability of our electric grid infrastructure in many parts of the country. Meeting this growing demand also makes averting the worst of climate change more difficult by spurring new fossil fuel generation. In addition to energy, these buildings can require large quantities of fresh water for cooling to keep servers up and running.

[Take Action](#)

What can **you** do?

- **Ask County and Town officials** to assess what's already approved and the cumulative impacts of additional sites
- **Reach out to state elected officials** and ask them to support data center reform legislation at state level
- **Tell Congress** to support the Artificial Intelligence Environmental Impacts Act
- **Attend Dominion meetings** on the Morrisville-Vint Hill-Wishing Star line

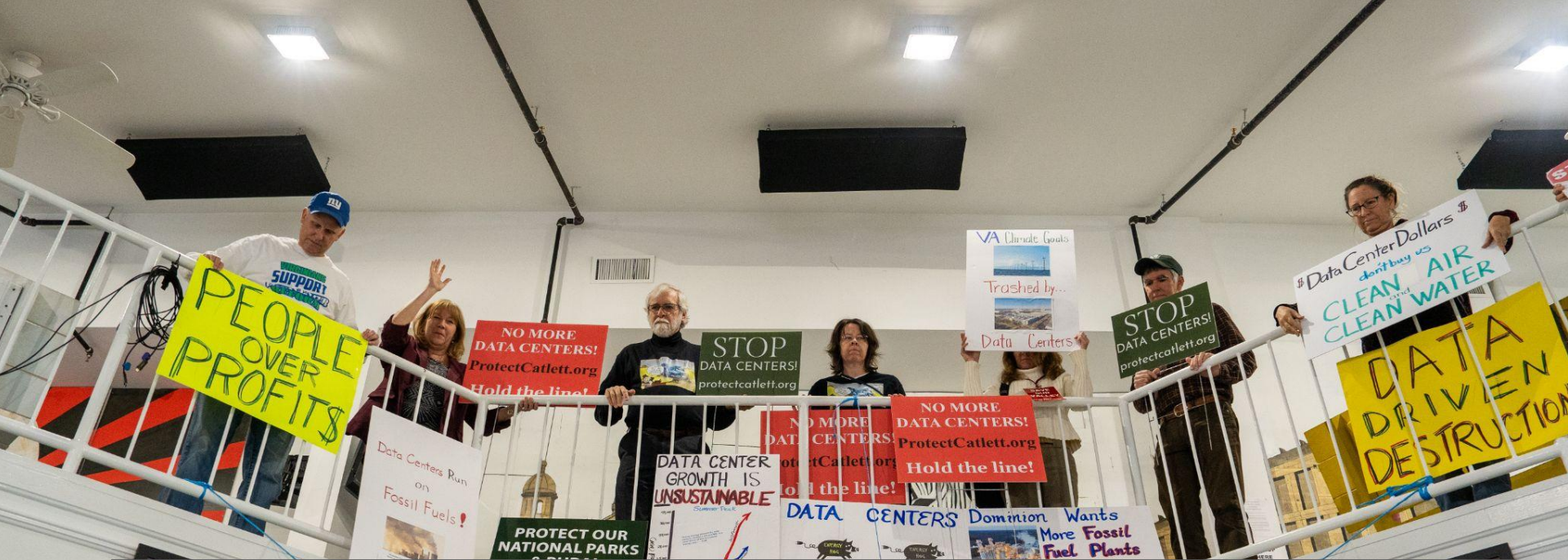


What can **you** do?

- **Stay informed** on other local and state/federal opportunities to act
- **Share information** with friends, family, contacts and neighbors.
 - Share the video
 - Forward our follow-up
 - There is lots of great info at pecva.org/datacenters
- **Financially support** the local efforts and the broader campaign needed!



Questions?



“Never doubt that a small group of thoughtful, committed citizens can change the world. Indeed, it is the only thing that ever has” -Margaret Mead