

Partners For Tonight's Town Hall













Julie Bolthouse

Director of Land Use

The Piedmont Environmental Council

PEC's mission:

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

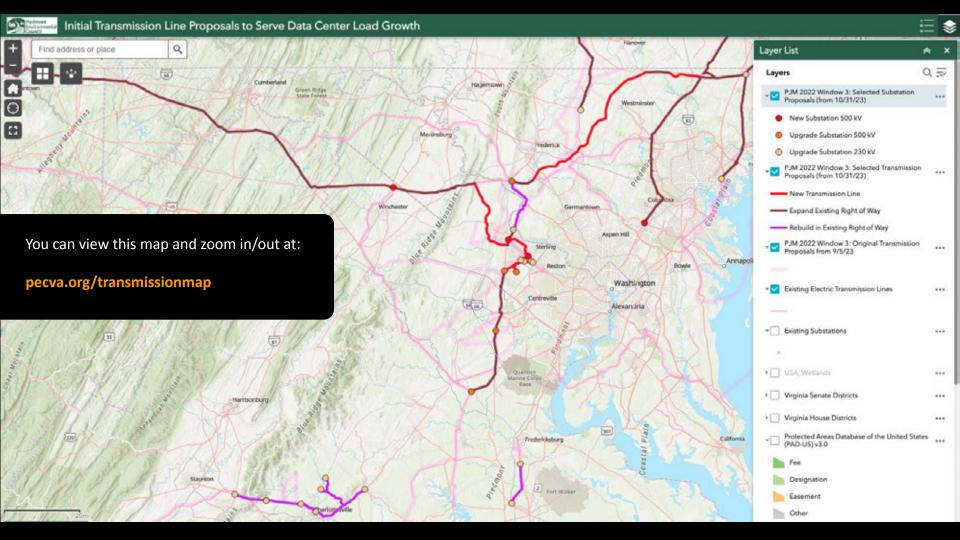




Today's Discussion

- Proposed Transmission Line Route and Impacts
- Explosive growth of the data center industry
- Trends and projections
- What can we individually and collectively do





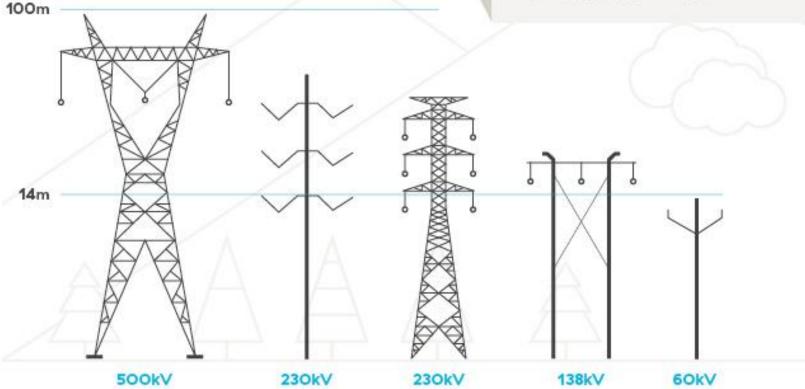


Transmission lines

Transmission lines are the big, high voltage power lines that bring electricity from where it's made at our generating stations to substations near communities across B.C.

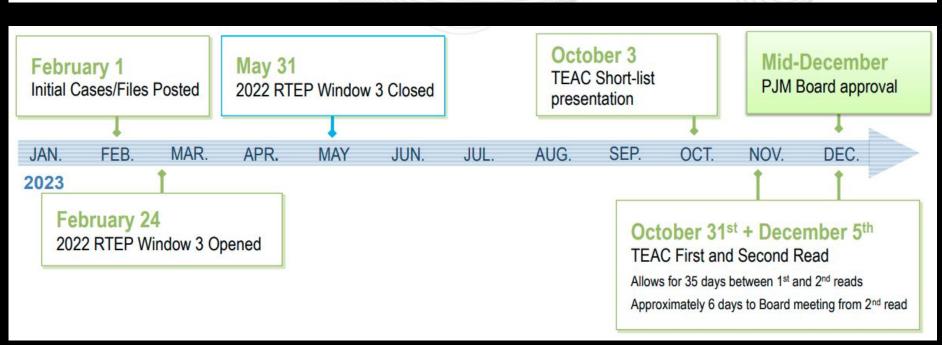
What's a kV?

kV stands for kilovolt, which is a unit of potential energy. One kV is equal to 1,000 volts.





2022 RTEP Window 3 - Timeline



Who?

What?

Where?





- Single 500 kV overhead transmission line
- Likely 115-165 foot wide right of way
- Likely 100-200 feet in height



Transmission Line Proposals to Serve Data Center Load Growth Piedmont Environmental Council Property Lines **Publicly Owned** Historic Districts Middleburg Viticultural Area Electric Transmission Lines Virginia Scenic Roads 1 mile buffer Proposed PJM 2022 Window 3: Preferred Transmission and Substation Proposals New Transmission Line (Route to Expand Existing Right of Way Rebuild in Existing Right of Way New Substation 500 kV Upgrade Substation 500 kV Upgrade Substation 230 kV Are of Detail PEC Service Area

The route through western Loudoun was selected even though...

According to PJM, Proposal 853 has medium-high constructability risks due to anticipated lengthy regulatory process, potential public opposition, construction difficulty, environmental constraints and property acquisition, which may have significant impacts on the cost and schedule for the proposed project.

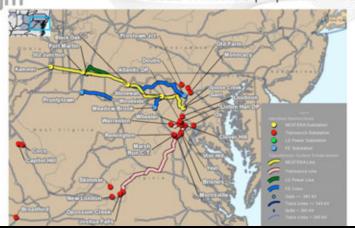


West Cluster Constructability Matrix

						1000					
West Cluster Projects – Selected for Detailed Evaluation											
PJM Proposal ID	Proposing Entity	Project Title	Proposed In- Service Date	Proposal Costs (\$M)	Independent Costs (\$M)	Cost Estimate Risks	Cost Containment Risks	Schedule Risks	Constructability Risks	Use of Existing ROW & Brownfield	Outage Coordination Risks
837	POTOED - FirstEnergy	Data Center Reinforcement Proposal #1 (West)	6/1/2030	\$ 2,788.40	\$ 2,642.05	Low	High	Medium	Medium-High	High	Low
548	LS Power	RTEP Window 3 Solution (West)	6/1/2030	\$ 972.71	\$ 876.03	Low	Medium	Medium	Medium-High	Medium-High	Medium
853	NextEra	502 Junction - Black Oak - Woodside - Gant, Woodside SVC + Cap Banks	6/1/2027	\$ 683.55	\$ 1,195.24	High	Medium	Medium-High	Medium-High	High	Medium
904	AEP - Transource	Joshua Falls - Yeat 765kV Greenfield Line and Substation	12/1/2029	\$ 1,048.10	\$ 1,122.40	Low	Medium	Medium-High	Medium	High	Low

Side note - the SCC did not eliminate 904 they stated, "765 kV solution could be pursued as part of the longer term solutions in the area depending on how load and generation materialize."

2022 Window 3 proposals - West Projects

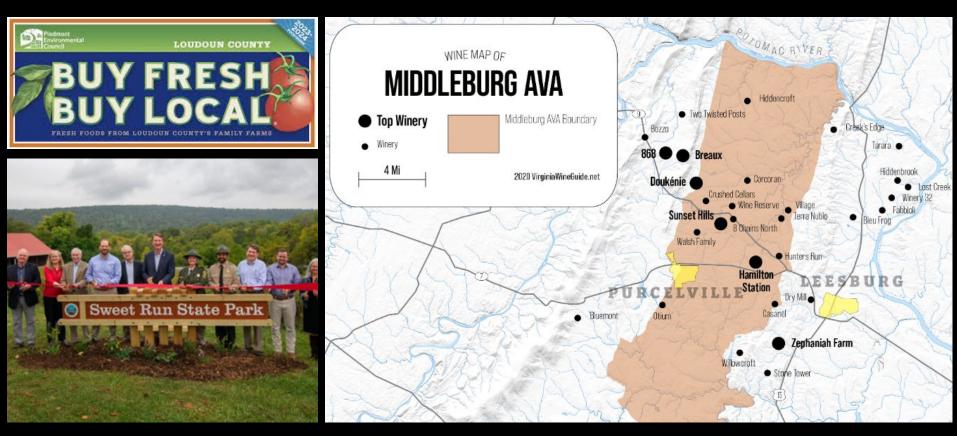


NOTE: This map is only intended to illustrate the general electrical connectivity of the projects, and should agi be relied upon for exact geographical substation

Explanation in Report

According to PJM, the model analysis identified a bottleneck through the Doubs-Goose Creek corridor and the need for a solution from the West into the Dominion Data Center vicinity, as such the NextEra proposal ID 853 option yielded higher Capacity Emergency Transfer Limit (CETL) through a 3rd 500 kV supply line to the load center.

The local economy in this area is primarily based on agriculture and tourism



Loudoun County 1st in Virginia for Visitor Revenue

- \$3 Billion Annual Tourist
 Spending
- 65% of visitors surveyed ranked wineries as their #1 destination
- Citing the "beautiful landscapes, open spaces, and scenery"

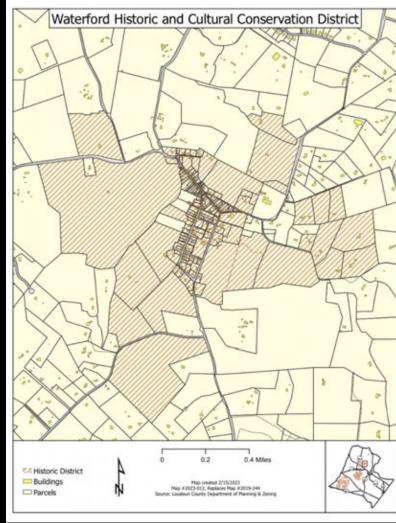
Most Recent Census of Agriculture Data

Number of Farms	-10%
Market Value of Product Sold	+31%
Total Farm Related Income	+134%
Net Cash Farm Income	+61%
Government Subsidies	-13%

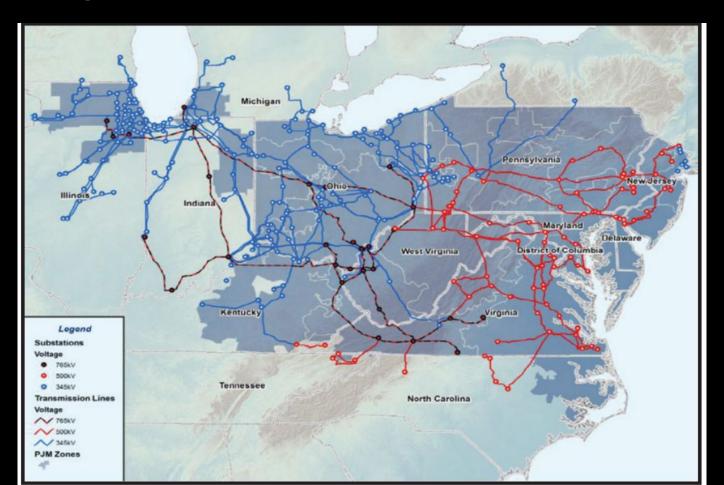


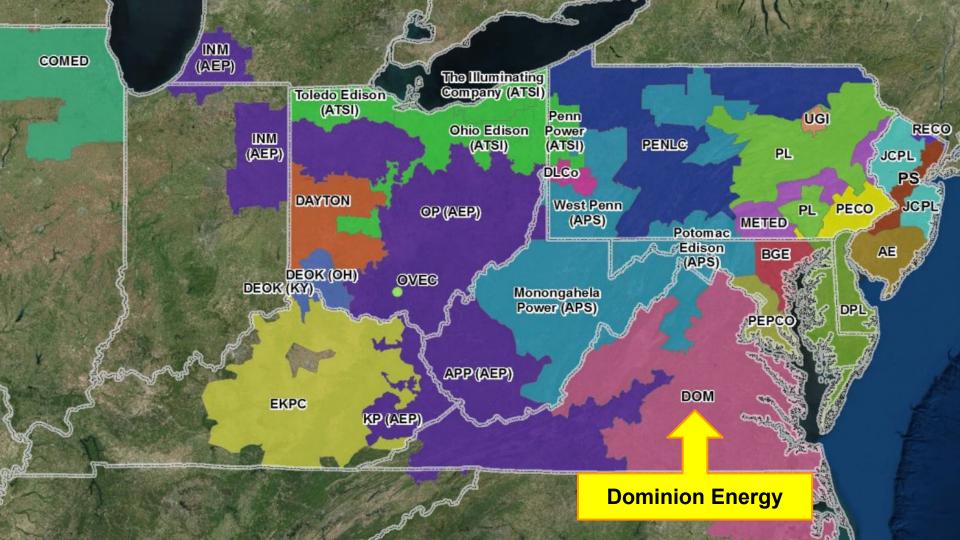






Regional Transmission Operator - PJM



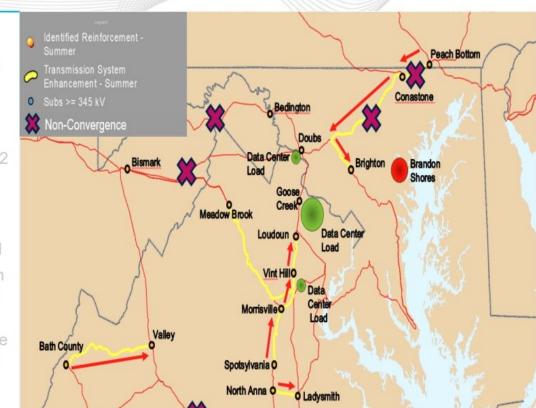


PJM's rationale:



2022W3 RTEP- Summary of Drivers/Needs

- PJM has had unprecedented data center load growth (up to~7,500 MW) currently forecasted by 2027- 28 in Dominion (Northern Virginia) and APS (Doubs)
- 11,100 MW of a unced deactivations to the west and south of C une
 - Approx
 On MW occurring after the 2022
- PJM has had unprecedented data center load growth (up to ~7,500 MW) currently forecasted by 2027-28
- The in Dominion (Northern Virginia) and to to APS (Doubs)
- PJM has implemented a new block dispatch procedure
 - The old dispatch procedure maintained historical intraregional transfers, dispatching most of the generators in the Dominion zone at 100%



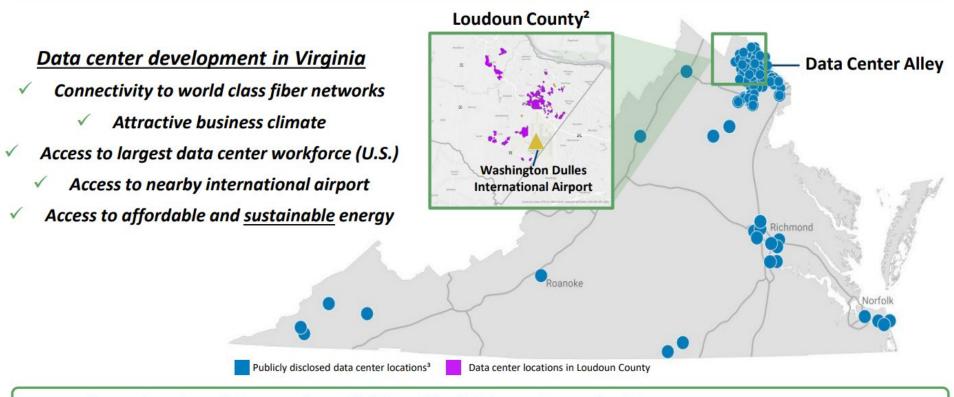
There's something big going on.

We don't have all the answers, but we know what's happening is important and we know it matters immensely to the future of Virginia.

We need to be creative and work together.

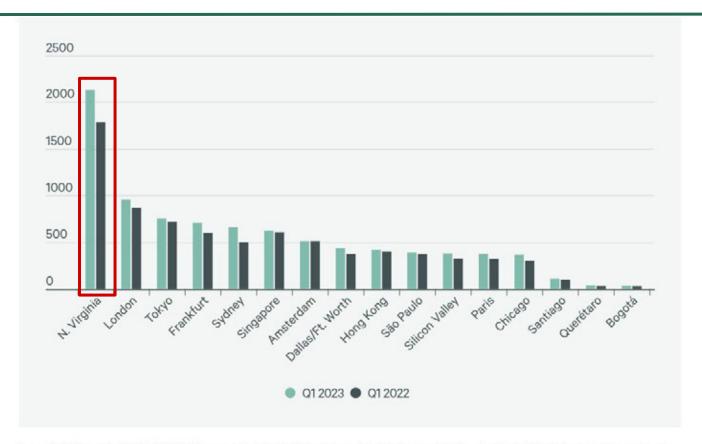
Dominion Energy Virginia

Northern Virginia boasts the largest data center market in the world¹



Committed to deliver safe, reliable, affordable and sustainable energy to our customers

Data Center Inventory (MW)



Source: CBRE Research, Q1 2022 & Q1 2023. Figures and data for North American markets include only wholesale colocation facilities. In Europe, Latin America, and Asia-Pacific, total inventory includes both wholesale and retail colocation facilities.

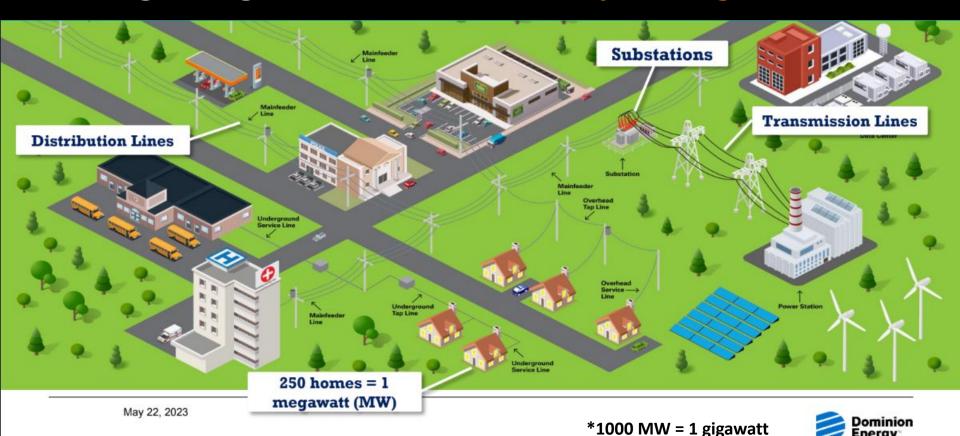
TOP 50 BIGGEST Unlike real estate which is measured in square footage, DATA CENTER MARKETS 63 data center size is measured in electricity capacity and 1,500 consumption. To determine data center size, server density ELECTRICITY CONSUMPTION in MEGAWATTS is key because many servers 1,000 can be stacked vertically into the same footprint. enabling more value from the same square footage. Hore NORTHERN VIRGINIA Recent technical issues with the servers means more bandwidth local utility's ability to distribute but also more power consumed. enough power to substations could delay projects currently planned or under construction until at least 2024 or Later in Northern Virginia, Megawatts the world's biggest market. BEIJING AMSTERDAM LONDON 1.053 I megamatt = I million watts FRANKFURT REYKJAVIK With more accurate SEATTLE STOCKHOLM TORONTO 267 data on the size and scope of data centers COLUMBUS DUBLIN TOKYO PORTLAND in maintand China, Beijing and Shanghai MONTREAL have both risen in the rankings for 2023. SHANGHA PARIS MADRID NEW YORK CITY/ MARSEILLE LOS ANGELES HONG KONG DELHI LAS VEGAS PHOENIX A QUERETARO In 2022, Singapore Lifted its &CHENNAI. SALT LAKE CITY development moratorium and put in new guidelines that limit power KUALA LUMPUR The U.S. is the biggest geographical market because it is home to the world's leading data producing and JAKARTA consuming businesses like Facebook, Amazon, Microsoft and Google. SYDNEY SAO PAULO SANTIAGO MELBOURNE MMBRE | DOS | BONGROEN | CHUSS SOURCE: Cushman & Wakefield, DataCenterHank Sata is for 2023



The digital age relies on data centers



The digital age relies on a reliable power grid



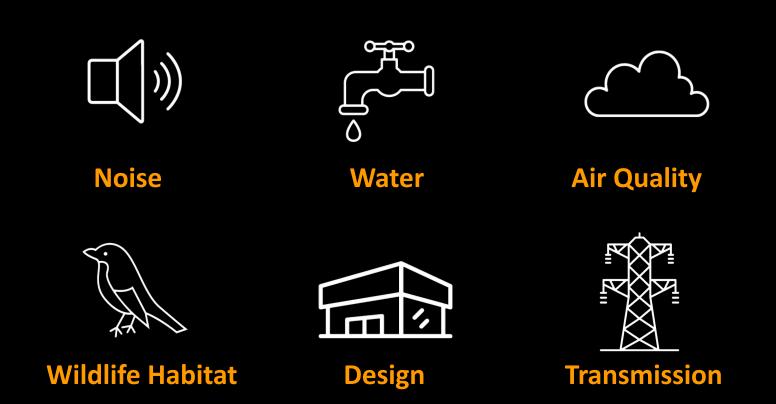
Data centers consume a huge amount of electricity



Their backup power is diesel generators



They create a host of community-level impacts



And the proposals are getting much bigger

- Older data centers used 10-15 MW per building, and multi-building campuses were rare.
- Now we are seeing 30-90 MW data centers with multi building campuses.
- A large campus could use 600-1000 MW or more.



Prince William Digital Gateway

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

37 buildings and 15 substations

No allocated right of way for transmission lines connecting the new substations.

Approved December 12th



Approved But Unbuilt + Applications Filed (Virginia)

rippiorea Ba			(viigiiia)
County	Status	Development square feet	Estimated Power Range
Loudoun	Approved	12,286,529	1,843MW – 5,529MW
	Applications	10,938,449	1,641MW – 4,922MW

10,719,984

42,510,328

2,901,000

4,630,000

1,990,000

6,010,000

6,600,000

7,500,000

1,608MW - 4,824MW

6,377MW - 19,130MW

435MW - 1,305MW

695MW - 2,083MW

902MW - 2,705MW

990MW - 2,970MW

1,125MW – 3,375MW

299MW - 896MW

Prince William

Fauquier

Culpeper

Stafford

King George

Spotsylvania/Caroline

Approved

Approved

Approved

Applications

Applications

Applications

Applications

Applications

And more are in the pipeline...

Total Current Load From Data Centers (NoVA)

= 2,552 MW

Total Approved But Unbuilt (VA)

= 7,800–23,400 MW

Total Including Applications (VA)

= 16,000–48,000 MW

Source: PEC analysis of applications in Virginia (Aug. 2023)

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

Total Current Load From Data Centers (NoVA)

= 2,552 MW

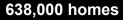
Total Approved But Unbuilt (VA)

= 7,800–23,400 MW

Total Including Applications (VA)

= 16,000–48,000 MW







5.8 million homes



12 million homes



The hidden costs of AI: Impending energy and resource strain

Deep Jariwala and Benjamin C. Lee on the energy and resource problems Al computing could bring.



in recent years, artificial intelligence (Al) models like ChatSPT have seen notable improvements, with some people concerned about the societal impacts these new technologies may bring including looming concerns related to increasing energy and raw materials demands. (Image: i3tock/Alexey Tolmachov)

REPORT OF THE VIRGINIA SECRETARY OF NATURAL AND HISTORIC RESOURCES AND VIRGINIA SECRETARY OF COMMERCE AND TRADE

Modeling Decarbonization: Report Summary and Policy Brief for Virginia Governor's Office Administration and Policymakers (Chapter 1194, 2020)

TO THE GENERAL ASSEMBLY OF VIRGINIA



SENATE DOCUMENT NO. 17

COMMONWEALTH OF VIRGINIA RICHMOND 2021

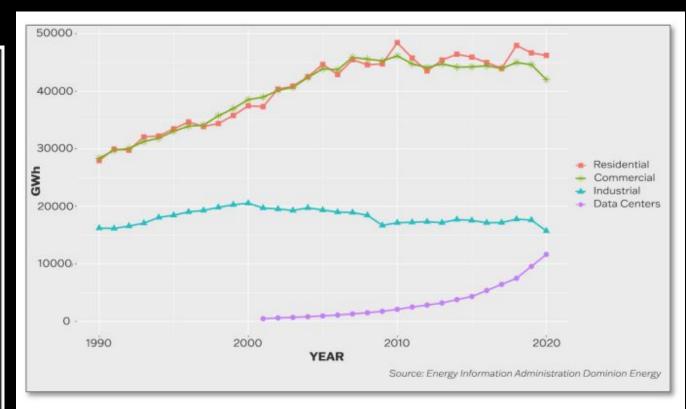


Figure 2: Annual Virginia Electricity Sales by End Use

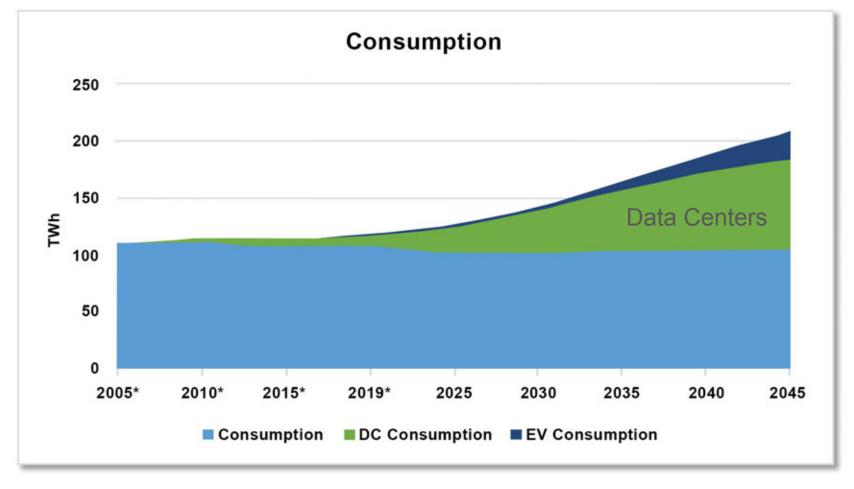
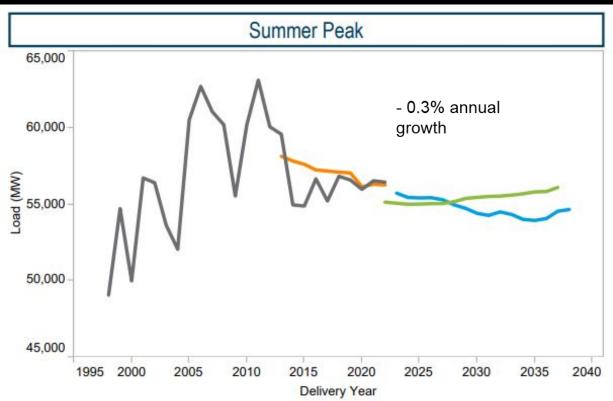


Figure 6: Electricity Sales - Baseline and High Demand Scenarios

What's happening in Virginia is unprecedented.

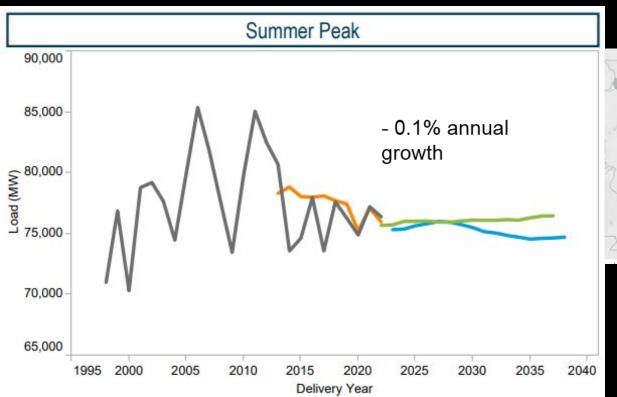
PJM Mid Atlantic Territory

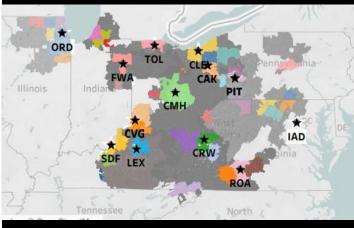




Blue = 2023 projection

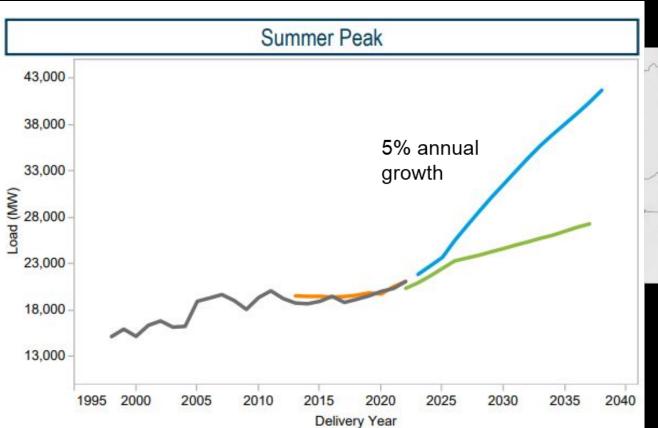
PJM Western Territory





Green = 2022 projection **Blue** = 2023 projection

Dominion Territory Explosive Growth Trends





Green = 2022 projection **Blue** = 2023 projection

That's a doubling of Virginia's peak load within 14 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





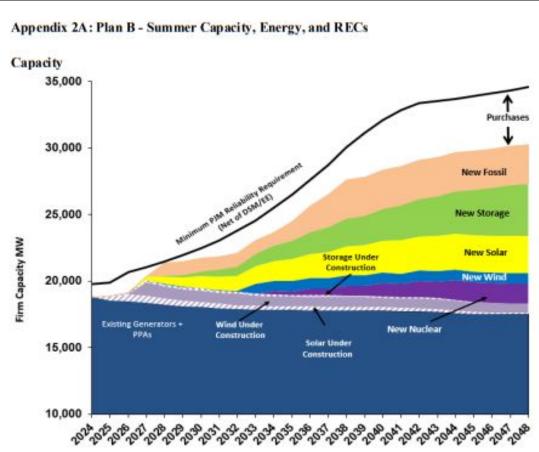








Dominion's plans rely on...





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 CO ₂ 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.	10,875 15 yr.	10,800 15 yr.	10,875 15 yr.	11,094 15 yr.
	19,800 25 yr.	19,875 25 yr.	19,800 25 yr.	23,955 25 yr.	24,294 25 yr.
Wind (MW)	3,040 15 yr.				
	3,220 25 yr.				
Storage (MW)	1,050 15 yr.	2,370 15 yr.	2,220 15 yr.	2,370 15 yr.	2,910 15 yr.
	3,960 25 yr.	5,190 25 yr.	5,220 25 yr.	9,780 25 yr.	10,350 25 yr.
Nuclear (MW)	— 15 yr.	804 15 yr.	804 15 yr.	1,608 15 yr.	1,072 15 yr.
	— 25 yr.	1,608 25 yr.	1,608 25 yr.	4,824 25 yr.	4,288 25 yr.
Natural Gas-Fired (MW)	5,905 15 yr.	2,910 15 yr.	2,910 15 yr.	970 15 yr.	970 15 yr.
	9,300 25 yr.	2,910 25 yr.	2,910 25 yr.	970 25 yr.	970 25 yr.
Retirements (MW)	— 15 yr.				
	— 25 yr.	— 25 yr.	— 25 yr.	11,399 25 yr.	11,399 25 yr.

This cost will be passed on to ratepayers



"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

Fauguler Times | www.fauguler.com | October 25, 2023

LEGAL NOTICES

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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 Bertini and Pener Compuny & Nr. Dominion Energy Virginia ("Dominios") has referrit ted in 2015 Energe-like Granifali Standard ("1875") (lining "2015 BFS Filling"). The 2016 BFS Filling machinis Dominion BFS Development Files and reposite to appear the contract of a required and openies than since afficiently projects and in enter into 15 new journey parachase agreements.

Dominton requests approval of revised Rater CS with a constant requirement of \$116,576,486 over the oats your beginning they 1, 3614, and concluding their 10, 3615. According to Decision, this sensess wasted increase a spring evaluated outcomes toll using 1,366 kilowett bours per must be

 A Hearing Exemiser appointed by the Commission will held a telephonic bracing in this case on Sanary 10, 2004, at 10 s.m., for the outsigt of public witness metamony.

A few productions bearing will also be held on January 10, 2000, at 10 a.m., or at the conclusion of the public witness portion of the hunting, whichever is late, in the Commission's account floor contributes better from the finalizing, 1980 East Mars News, Sichmond, Verginia 1918, to receive the restinatory and ordering of December, any supporterin, and Commission 2018.

Partier information about this race is available on the SCC website at sus yinginia govipages Case Information.

During its 2020 Session, the Wiginia General Assembly anacted Chapters 1193 (HB 1526) and 1194 (38 851) of the 2020 Virginia Acts of Assembly. These duplicate Acts of Assembly, Incivil as the Wighte Clean Economy Act ("VCEA"), became effective on July 1, 2020. The VCEA, inter alls, establishes a mailutary rememble steary postible standard (NPS) program (NPS Program) to update fisher CE for the recovery of costs associated with the CE-1, CE-2, and CE-3 projects, for Weights Electric and Provincial Companies of "Companies" or "Companies" of "Companies" or of Virgonia (*Code*). Subdivision () 4 of Code § 56-585 5 requires Deninion to submit annually to previously been approved by the Commission. the State Corporation Commission ("Commission") plans and petitions for approval of new solar and onehore wird generation capacity ("RPS Filing"). The Commission must determine whether the RPS Filling is re-encousive and prudent, giving due consideration to the following factors. (f) the RPS and carbon disorde reduction requirements in Code § 56-585.5, (ii) the promotion of new remarable generation and energy storage resources within the Commonwealth, and associated economic development, and (iii) fast savings projected to be achieved by the plan.

On October 1, 2023, Dominion submitted its sensal RPS Filling to the Commission ("2023 RPS Filing" or "Pedition"). The 2023 RPS Filing requests the Commission.

(i) Approve the Company's armost place for the development of new solar, onshore wind, and eserge storage resources ("RPS Development Plan") is connection with the mandatory RPS Program pursuent to Code § 56-565.5 D 4;

(ii) Grant certificates of public posvenience and necessity ("CPCNs") and approval to construct or acquire and operate four utility-scale projects totaling approximately 329 magawatts ("MW") of solar pursuant to Code § 96-580 D;

(iii) Appeared to recover through the Rider CE rate adjustment clause the costs of (ix) five utilityscale solar projects, totaling approximately 334 MW, and related interconnection facilities (codectivels, "CE-4 Projects"), and (b) one distributed solar project, totaling approximately 3 MW. and related interconnection facilities (*CE-4 Discributed Solar Project*), pursuant to Code § 56-

(iv) Approve an update to Ridar CE for recovery of costs associated with the proviously approved OF-1, CE-2, and CE-3 projects, the CE-2 and CE-3 distributed solar projects, and related

(v) Make a prudance determination for the Company to enter into 13 power purchase agreements (PRAs') for solar resources, lateling approximately 435 MW, (callectively, "CE-4 PPRa") pursuant to Code § 56-585.1:4;

(v) Approve recovery through Rider CE of the costs of the CE-4 PPAs pursuant to Code § 56-565.1 A.S. and

(viii) Approve the Company's request to consolidate Rider CE and Rider PPA pursuant to Code 56-565.1 A.T. resulting in: (a) the recovery of costs associated with the CE-1, CII-2, and CE-3 PPAs through Rider CE, and (b) the end of Rider PPA as of April 30, 2024.

Dominion states that its RPS Development Plan reports on the Company's progress lowerd meeting the solar, onstore wind, and energy storage development targets outlined in the VCEA. and presents the Company's development plan for solar, orehore wind, and energy storage facilities through 2005. The Company's RPS Development Plas calls for additional investment in goter, onshore wind, and energy storage through 2035.

The Company also provides a consolidated bill assissis calculating the projected monthly bill through 2005 for residential, small general service, and large-greenal service customers for each alternative plan presented in the Company's 2023 Integrated Resource Plan, For Alternative Plan for example, the Connecting projects the months bit of a Vegees analysis continues using 1,000 kilowest house TEVR1 user month to be \$245.20 by 2015, an ignormal of \$127.02 over the Boy 1, 2007 Weel of \$115.10, using the restholology approved by the Cammission in Case No. PUR-2029-80134. 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.

Dominion seeks CPCNs and approve to construct or acquire and operate four utility scale projects totaling approximately 129 MW of solar, in addition to these four projects, Commiss intends to acquire and operate one additional CE-4 Project, a five MW solar facility ("Peppertown"), however, the Company assets that, consistent with the Commission's prior determination that projects of five MRR or less do not require a CPCN, and Rule 19 of the Commission's Filing Requirements in Support of Applications for Authority to Construct and Operate an Electric Generating Facility. Peopertown does not require a CPCN.

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

Project	Size (MMec)	Locally	Interconnection	C00
	De Carlotte and	Utility-Socia Solar	900	
Deldida	ST	Powhatan County	Transmission	2029
Dias Fidge	96	Pithylvenia County	Twowsice	2028
Booke's Mill	127	Richmont County	Transmission	2024
Michael	58	Henry Pitte/vools County	Transmission	2006
Connectors	15	Hanover County	Deathuton	2034

The Company asserts that the CE-4 Projects are needed to comply with the VCEA and its serve customers' copacity and energy needs. According to the Company, the total estimated costs for the CE-4 Projects are approximately \$855.5 million, excluding financing costs, or approximately \$2,582 per followelf ("WIV") at the total 334 MW (nominal AC) rating.

In this proceeding, Denimion makes four requests related to Rider CE. First, the Company seeks

Second, Common requests recovery through Rider CE of the costs of the CE-4 Projects and CE-4 Distributed Solor Project, so well as the related interconnection facilities. The CE-4 Projects are discussed in more detail above. The CE-4 Distributed Solar Project consists of one distributed solar project totaling approximately 3 MW and related interconnection facilities.

The Company asserts that the CE-4 Distributed Solor Project is needed to comply with the VCEA and to serve customers' capacity and energy reads. According to the Company, the total ostimated costs for the CE-4 Distributed Solar Project are approximately \$10.9 million, excluding financing costs, or approximately \$3,642 per HW at the total 3 MW (nominal AC) calling.

Third, the Company seeks to coreolidate 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 PPAs. The Company asserts that the consolidation of Rider CE and Rider PPA is in the interest of judicial economy because the Commission streety considers the prudence of PPVs in the annual RPS Filing proceedings, and the consolidation would allow the Commission to consider associated cost recovery issues sinultaneously. Such a consolidation would result in the recovery of costs associated with the previously approved CE-1, CE-2, and CE-3 PPNs through Rider CE. Consolitation would also result in the end of Rides PPA as of April

Fourth, the Company seeks to recover the costs of the CE-4 PPRs through Rider CE.

Speninice 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 total revenue requirement of \$136,576,466 in Riber CE for the Rele Year, If the proposed total revenue waveners for the Plate Year is approved, the impact on austomer bills would depend on the wistomer's rate schedule and usage. According to Domeson, implementation of its revised Ruler CE on May 1, 2024, would increase the monthly bill of a residential customer using 1,000 MWh per month by approximately \$1.54 when compared to the combined total rasidential rates in the current Ridor CE and Ridor PRA.

in its 2023 RPS Filling, Dominion also seeks a prudence determination for the CE-4 PPMs. The CE-4 PPRaconsistot () eight PPNs for stillly scale solor generating lacilities totaling approximately 420 MW and (ii) five PPRu for distributed solar generating facilities totaling approximately 15 MM. Deminion asserts that the CE-4 PPNs are needed to comply with the VCEA and to serve customers' capacity and energy reeds. As noted above, the Company seeks approval to recover

the costs of the CE-4 PPNs through Rider CE, in addition to the costs of the CE-1, CE-2 sed CE-3 PPMs previously approved by the Commission

terrelated persons are encouraged to review Dominton's Pretton and supporting documents in full for details about these and other proposals.

AKE NOTICE that the Commission may apportion revenues among customer classes and/or design rates in a manner differing from that shown in the Petition and supporting documents and thus may adopt rotes that differ from those appearing in the Company's Petition and supporting

The Commission entered an Order for Notice and Hearing in this proceeding that, among other things, scheduled public hostings on Donarian's Petition, A hearing for the receipt of tectimony from public witnesses on the Company's Petition shall be convened telephonically at 10 a.m. on January 10, 2004. On or before January 1, 2004, any person desiring to offer testimony as a 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 filling out a form on the Commission's

Dominion legal notice Oct. 25, 2023

That's a 100% increase by 2035!

Fauguler Times | www.fauguler.com | October 25, 2023

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A few productions bearing will also be held on January 10, 2000, at 10 a.m., or at the conclusion of the public witness portion of the hunting, whichever is later, in the Commission's second finer contri-tions licensed in the Table Building, 1980 first Marin Sovet, Bichancod, Vinginia 19219, to receive the exchange and orderect of December, any expressions, and Commission Staff.

Purtier information about this race is available on the SOC website in sus yinginia govipages Case Information.

During its 2020 Session, the Wiginia General Assembly anacted Chapters 1193 (HB 1526) and 1194 (38 851) of the 2020 Virginia Acts of Assembly. These duplicate Acts of Assembly, Incivin as the Wighte Clean Economy Act ("VCEA"), became effective on July 1, 2020. The VCEA, inter alls, establishes a mailutary rememble steary postible standard (NPS) program (NPS Program) to update fisher CE for the recovery of costs associated with the CE-1, CE-2, and CE-3 projects, for Weights Electric and Provincial Companies of "Companies" or "Companies" of "Companies" or of Virginia ("Code"), Subdivision () 4 of Code § 55-565,5 requires Dominion to submit presumity to previously been approved by the Commission. the State Corporation Commission ("Commission") plans and petitions for approval of new solar and onehore wird generation capacity ("RPS Filing"). The Commission must determine whether the RPS Filling is re-encousive and prudent, giving due consideration to the following factors. (f) the RPS and carbon disorde reduction sequinements in Code § 56-565.5, (ii) the promotion of new rememble generation and energy storage resources within the Commonwealth, and associated

economic development, and (iii) fast savings projected to be achieved by the plan. On October 1, 2023, Dominion submitted its sensal RPS Filling to the Commission ("2023 RPS Films' or 'Polition'). The 2023 RPS Filing requests the Commission.

(i) Approve the Company's arrival plan for the development of new solar, onshore wind, and eserge storage resources ("RPS Development Plan") is connection with the mandatory RPS Program pursuant to Code § 56-565.5 D 4;

(ii) Grant certificates of public posvenience and necessity ("CPCNs") and approval to construct or acquire and operate four utility-scale projects totaling approximately 329 megawatts ("MW") of

(iii) Appeared to recover through the Rider CE rate adjustment clause the costs of (ix) five utilityscale solar projects, totaling approximately 334 MW, and related interconnection facilities (collectivels, "CE-4 Projects"), and (b) one distributed solar project, totaling approximately 3 MW, and related interconnection facilities ("CE-4 Destituted Solar Project"), pursuant to Code § 54-

(iv) Approve an update to Ridar CE for recovery of costs associated with the proviously approved CE-1, CE-2, and CE-3 projects, the CE-2 and CE-3 distributed solar projects, and related

(v) Make a prudance determination for the Company to enter into 13 power purchase agreements (PRAs') for solar resources, lateling approximately 435 MW, (callectively, "CE-4 PPRa") pursuant to Code § 56-585.1:4;

(v) Approve recovery through Rider CE of the costs of the CE-4 PPAs pursuant to Code § 56-565.1 A.S. and

(vii) Approve the Company's request to consolidate Rider CE and Rider PRA pursuant to Code 56-565.1 A.T. resulting in: (a) the recovery of costs associated with the CE-1, CII-2, and CE-3 PPAs through Rider CE, and (b) the end of Rider PPA as of April 30, 2024.

Dominion states that its RPS Development Plan reports on the Company's progress lowerd meeting the solar, onstore wind, and energy storage development targets outlined in the VCEA. and presents the Company's development plan for solar, orshore wind, and energy storage Sections through 2016. The Company's RPS Development Plan calls for additional investment in goter, onshore wind, and energy storage through 2035.

The Company also provides a consolidated bill assissis calculating the projected monthly bill through 2005 for residential, small general service, and large-greenal service customers for each alternative plan presented in the Company's 2023 Integrated Resource Plan, For Alternative Plan for example, the Connecting projects the months bit of a Vegees analysis continues using 1,000 kilowest house TEVR1 user month to be \$245.20 by 2015, an ignormal of \$127.02 over the Boy 1, 2007 Weel of \$115.10, using the restholology approved by the Cammission in Case No. PUR-2029-80134. 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.

Dominion seeks CPCNs and approve to construct or acquire and operate four utility scale projects totaling approximately 329 MW of solar, in addition to these four projects, Craminian intends to acquire and operate one additional CE-4 Project, a five MW solar facility ("Peppertown"), however, the Company assets that, consistent with the Commission's prior determination that projects of five MRR or less do not require a CPCN, and Rule 19 of the Commission's Filing Requirements in Support of Applications for Authority to Construct and Osessite an Electric Generating Facility. Peopertown does not require a CPCN.

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

Project	Sign (MMac)	Locally	Interconnection	C08			
Utity-Soois Solar							
Daktisk	ST	Powhstan County	Transmission	2029			
Dias Fidge	95	Pithylvania County	Twowsice	2025			
Bookers Mill	127	Richmond County	Transmission	2024			
Michael	50	Henry Pitte/kests County	Transmission	2026			
Pappartown	5	Hanover County	Deathuton	2024			

The Company asserts that the CE-4 Projects are needed to comply with the VCEA and its serve customers' copacity and energy needs. According to the Company, the total estimated costs for the CE-4 Projects are approximately \$855.5 million, excluding financing costs, or approximately \$2,582 per followelf ("WIV") at the total 334 MW (nominal AC) rating.

In this proceeding, Deminion makes four requests related to Rider CE. First, the Company seeks

Second, Common requests recovery through Ridor CE of the costs of the CE-4 Projects and CE-4 Distributed Solor Project, so well as the related interconnection facilities. The CE-4 Projects are discussed in more detail above. The CE-4 Distributed Solar Project consists of one distributed solar project totaling approximately 3 MW and related interconnection facilities.

The Company asserts that the CE-4 Distributed Solor Project is needed to comply with the VCEA and to serve customers' capacity and energy resets. According to the Company, the total ostimated costs for the CE-4 Distributed Solar Project are approximately \$10.9 million, excluding financing costs, or approximately \$3,642 per HW at the total 3 MW (nominal AC) calling.

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 PPAs. The Company asserts that the consolidation of Rider CE and Rider PPA is in the interest of judicial economy because the Commission streety considers the prudence of PPVs in the annual RPS Filing proceedings, and the consolidation would allow the Commission to consider associated cost recovery issues sinultaneously. Such a consolidation would result in the recovery of costs associated with the previously approved CE-1, CE-2, and CE-3 PPNs through Rider CE. Consolitation would also result in the end of Rides PPN as of April

Fourth, the Company seeks to recover the costs of the CE-4 PFRs through Rider CE

Speninice 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 total revenue requirement of \$136,576,466 in Riber CE for the Rele Year, If the proposed total revenue waveners for the Plate Year is approved, the impact on austomer bills would depend on the wistomer's rate schedule and usage. According to Domeson, implementation of its revised Ruler CE on May 1, 2024, would increase the monthly bill of a residential customer using 1,000 MW per month by approximately \$1.54 when compared to the combined total rasidential roles in the current Ridor CE and Ridor PRA.

n its 2023 RPS Filling, Domission also seeks a prudance determination for the CE-4 PPMs. The CE-4/PFAs consist of (i) eight PFAs for utility scale solor generating lacities totaling approximately 420 MW and (ii) five PPRs for distributed solar generating facilities totaling approximately 15 Min. Deminion asserts that the CE-4 PPVs are needed to comply with the VCEA and to serve

customers' capacity and energy reeds. As noted above, the Company seeks approval to recover the costs of the CE-4 PPNs through Rider CE, in addition to the costs of the CE-1, CE-2 and CE-0 PPMs previously approved by the Commission

terrelated persons are encouraged to review Dominton's Pretton and supporting documents in full for details about these and other proposals.

AKE NOTICE that the Commission may apportion revenues 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

The Commission entered an Order for Notice and Hearing in this proceeding that, among other things, scheduled public hoarings on Donarian's Petition. A hearing for the receipt of testimon from public witnesses on the Company's Petition shall be convened telephonically at 10 a.m. on January 10, 2004. On or before January 1, 2004, any person desiring to offer testimony as a 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 filling out a form on the Commission's



COMMENTARY

Are Virginia ratepayers and residents subsidizing the data center industry?





Virginia cannot continue down this path.

Unprecedented problems call for new and innovative solutions.

- New policies
- New regulatory framework
- New technology
- New approaches



Unprecedented problems call for new and innovative solutions.

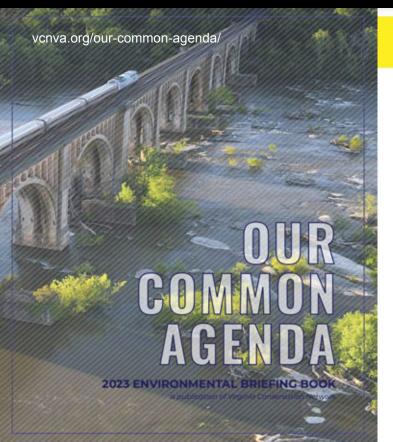
- New policies
 - Are incentives for data center development in Virginia still necessary?
 - o If so, shouldn't those incentives be tied to performance standards?
 - Shouldn't the industry be paying for the additional infrastructure needed?
- New regulatory framework
 - Transparency around energy and water usage
 - Siting regulations protecting residents, schools, parks, and communities
 - Assessment of cumulative impacts on grid, ratepayers, air quality, water resources, parks, historic sites, viewsheds, and agricultural resources.
- New technology
 - Energy efficiency and more sustainable equipment and design
 - Alternative transmission options such as advanced conductors, underground options including HVDC for long distance power deliver
- New approaches
 - o Onsite power generation (a new industry favorite topic, but brings new issues...

So what are we doing?

Spreading the word and pushing for reform







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. 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 households6 6. Data centers now make up 21% of Dominion Energy Virginia's power load7 (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.^a 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 generators 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

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 Julie Bolthouse // Piedmon Kyle Hart // National F

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

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



MITIGATING DATA CENTER DEVELOPMENT'S IMPACTS IAND USF REFORM

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power load' (see SURCING ENERCY 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.³ 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.

POLICY RECOMMENDATIONS

Study the impacts of data center development on the Commonwealth's electrical grid, environment, historic and recreational resources, and ability to meet climate goals through The National Academies of Science.

Require a grid impact statement be submitted to and approved by the State Corporation Commission for all new data center power demand requests.

Create a framework for a regional review board that evaluates large data center projects.

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

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to comment on regional impacts and for the public to weigh in on this additional information through a formal comment process.

Julie Bolthouse // Piedmont Environmental Council // jbolthouse@pecva.org
Kyle Hart // National Parks Conservation Association // khart@noca.org

Collectively, the study and the grid impact and regional review process will help the state determine where we are and create a sustainable path forward on data center development.

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SURGING ENERGY DEMAND FROM DATA CENTERS

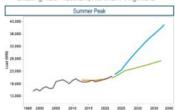
DIRTY ENERGY INFRASTRUCTURE

EXECUTIVE SUMMARY

Data centers are large industrial buildings filled with computers that store, process, and distribute large amounts of digital information. Northern Virginia leads the world in data center development, housing nearly 50% of all US facilities! While data centers generate significant tax revenue for the localities in which they reside, they are also the primary driver behind a massive spike in peak electricity demand in Virginia, which through some estimates is projected to more than double by 2038. Virginia needs to chart a responsible path forward, balancing the growth of our digital world with the need to power that growth with affordable carbon-free energy.

CHALLENGE

Data storage needs have grown exponentially with the rise of the internet and new trends like Artificial Intelligence (Al), cryptocurrency, and the expansion of rural broadband have dramatically accelerated this pace. For a variety of reasons, including industry tax breaks, low costs, and an existing filter network. Northern Virginia is



The January 2023 PJM Load Forecast projects that the data center industry's planned growth in the region will more than double the state's peak electricity demand through 2038 (blue line).

expected to continue to serve as a favorable location for new data centers. As a result, the industry's planned growth in the region is projected to more than double the state's peak electricity demand through 2038, according to PJM and Dominion Energy, the state's largest electricity provider (see graph below). This increase is by no means certain', Dominion Energy has a long track record of predicting far more growth than actually occurs, and uncertainty is even greater about data centers since the projections involve only one industry. While we should not accept these forecasts as guaranteed, we should take seriously the problems that such growth could cause and plan accordingly.

DATA CENTER DEVELOPMENT IS PROJECTED TO MORE THAN DOUBLE THE STATE'S PEAK FLECTRICITY DEMAND THROUGH 2038

In their latest long-term Integrated Resource Plan (IRP) filed in April, Dominion Energy has suggested meeting demand growth by building a substantial amount of renewable energy and storage. But this plan also proposes preserving existing coal and natural gas generation as well as building new fossil fuel generation and costly Small Modular Nuclear Reactors (SMNRs). This plan ignores Virginia's clean energy requirements and places a significant burden on families and other businesses to subsidize the construction and operation of the significant infrastructure necessary to meet the increase in electricity demand.

In addition to a massive increase in needed electric generation, data center growth will also require significant new transmission infrastructure. Just this past General Assembly session, legislation was passed recognizing a \$627 million emergency transmission project in response to the Northern Virginia data center cluster. Strain on the grid has also brought an increased use of diesel generators which serve as

Dan Holmes // Clean Virginia // dan@cleanvirginia.org

Will Cleveland // Southern Environmental Law Center // wcleaveland@selcva.org

the backup power source for data centers, raising concerns about local air quality.

Currently, data centers are approved at the town/city/county level. The local process does not address cumulative state and regional level impacts on Virginia's energy grid, natural resources and land use (see MITGATING DATA CENTER DEVELOPMENT, pg 57). Without significant state oversight and planning, Virginia could face unsustainable energy demand, potentially leading our utilities to pursue unnecessary generation projects, including fossil fuel generation in direct opposition to clean energy policies.

SOLUTION

This level of data center expansion is a new and global trend of which Virginia is at the forefront. If Virginia is to continue recruiting this industry, numerous questions must be answered to determine a sustainable path forward.

While data centers are an important part of Virginia's economic development plan, that plan must align with our ability to protect the environment and provide for a clean, affordable energy transition for all. Virginia is facing an unprecedented energy challenge with explosive growth in this sector. Proper planning can offset some of the anticipated impacts, and we can take steps now to provide appropriate cost allocation, ensuring responsible parties are paying for the necessary upgrades to our electric system. But in order to develop a holistic and sustainable solution, we need to establish a proper accounting of the externalities of the industry.

A comprehensive study is necessary to illustrate the opportunities and challenges related to different scenarios for buildout of the data industry in Virginia. This study should address energy demand and gauge our ability to meet our goal of a clean energy transition while avoiding unnecessary impacts on communities and natural resources.

POLICY RECOMMENDATIONS

An Independent Study: Contract with an independent body like the National Academy of Sciences to study all costs and benefits of the data center industry. Specifically related to energy demand it should evaluate impacts to the grid and our ability to reliably meet demand with carbon-free energy resources. It should integrate efforts of the industry to improve efficiency and procure clean energy so as to avoid dublication of efforts by our utilities and highlight impacts to rateopswist to rateopswist.

Permitting, Planning, and Education: Implement a state review process for new proposals. A review of individual projects that fails to account for the aggregate impacts of all projects invariably means that no one fully appreciates the total picture. The Department of Energy, in coordination with the Department of Environmental Quality, should provide assistance to local governments, including siting criteria information related to the necessary energy infrastructure to power the project.

Protect from Cost Shift: The rules governing approval and allocation of costs for new transmission and generation approval should be examined and – if necessary – changed to ensure that parties causing investments bear the costs of those investments, preventing residential energy customers from shouldering this burden.

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SURGING ENERGY DEMAND FROM DATA CENTERS

DIRTY ENERGY INFRASTRUCTURE

Will Cleveland // Southern Environmental Law Center // wcleaveland@selcva.org
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EXECUTIVE SUMMARY

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General Assembly Update: JLARC Study Underway

- Joint Legislative Audit and Review
 Commission (JLARCO) has authorized
 a data center study
- Robust study includes environmental, historic, grid, and climate impacts along with a fiscal benefit analysis and consideration of alternative options



General Assembly Update: JLARC Study Underway

To include an evaluation of:

- recent and expected trends and factors impacting data center industry growth
- impacts on Virginia's natural resources, as well as historic and cultural resources
- impacts on energy demand and supply in Virginia, future energy infrastructure needs, energy rates paid by customer classes, and the cost allocation
- impact on state's ability to transition from fossil fuels to renewable energy sources
- impact on local revenue and how local tax policies may affect data centers
- impact on local residents, including noise, property values, and visual impact
- considerations around the construction and siting of data centers, and review of local zoning and regulatory restrictions
- possible guidance and assistance state agencies could provide to localities
- whether more geographically diverse industry growth would provide greater benefits and any obstacles there are
 to attracting them to other areas, particularly economically distressed or rural regions
- compare Virginia's competitiveness in attracting data centers with other states
- determine if Virginia's data center tax exemption could be improved and if the level of benefit is appropriate given the cost

General Assembly Update: Data Center Legislation (17 Bills!)

- Energy efficiency bills
- Siting bills
- Undergrounding of transmission lines bills
- Industry pays bills
- Permitting process bills



General Assembly Update: Data Center Legislation (17 Bills!)

Energy Efficiency Bills

- HB116 Sullivan (D) and SB192 Subramanyam (D) Ties sales and use tax exemption to energy efficiency and procurement of renewables
- HB 910 Srinivasan (D) Requires quarterly reporting on energy usage and study group

Siting Bills

- HB337 Lovejoy (R) and Thomas (D) and SB284 Roem (D) –
 Discourages siting that impacts historic and agricultural resources and prohibits within ½ mile of park
- HB338 Helmer (D), Lovejoy (R), and Thomas (D) and SB285
 Roem (D)– Requires siting assessment on water usage and carbon emissions as well as impact on ag
- HB1010 Lovejoy (R) Prohibits data centers within ¼ mile of schools, parks, or residential areas
- SB288 Roem (D) Requires noise abatement requirements
- SB289 Roem (D) Requires additional stormwater management near parks

Undergrounding of Transmission Lines Bills

- HB 340 Lovejoy (R) and Thomas (D) SB286 Roem (D) –
 Undergrounding of transmission lines within a half mile of a national park is in the public interest
- SB708 Perry (D) Undergrounding of 500kV transmission line paid for by the industry

Industry Pays Bills

- HB1288 Webert (R) Requires public electric, water, and sewer utilities have a separate classification for data centers
- SB191 Subramanyam (D) Requires aggregate planning of generation, transmission, and distribution and initiates a proceeding to assess the current allocation of costs and amend if found data centers are subsidized
- SB664 Stuart (R) Prohibits the costs associated with electrical infrastructure required by the industry to be allocated to all ratepayers.

Process Bills

 SB 667 Stuart (R) – Removes authority for locality for accelerated permitting

Join us for Lobby Day in Richmond on Jan. 31 with the Virginia Conservation Network!

- Event: 7:45 a.m. 4 p.m.
 - Register by Wed. 1/24 @ midnight>>
 - Chance to lobby your delegate and senator
 - Light breakfast, lunch provided
 - Meet other conservation advocates

Optional bus to take down

- 5:30 a.m. departing Haymarket
 Park & Ride, returns at 6 p.m.
- Register >>



Join us for Lobby Day in Richmond with the Virginia Conservation Network!

Schedule:

7:30am- Arrive in Richmond

7:45-8:30am- arrive at St. Paul's Episcopal Church (815 E Grace St, Richmond, VA 23219), coffee and light breakfast fare will be available, legislators give remarks

8:30-11:30am- Lobby your Delegate and Senator with other conservation advocates

11:30-1:30pm- Lunch at St. Paul's Episcopal Church and remarks from agency staff members

1:30-4:00pm- Lobby key committee members on data center reform (possible interview with press)

4:00pm- return home

Register for Lobby Day:

https://support.npca.org/page/61992/event/1

Want to bus down with us? Register:

www.eventbrite.com/e/data-center-legislation-bus-to-rich mond-tickets-795312901297

Departing 5:30am - Haymarket park & ride Returning 6pm



Loudoun Has An Important Role...

- 2024/2025 changes to Comp
 Plan and Zoning Ordinance
- Data center applications

LoudounNow

Data Center Campus Plan Hit with Community Power Concerns

Norman K. Styer Jan 11, 2024 - 14

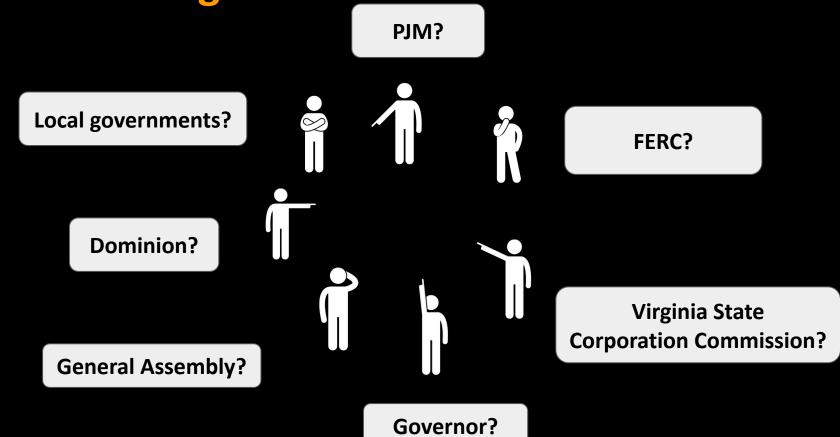


"This campus adds like 20% more data center usage in this county than all than all of our data centers combined right now. It is a huge, huge amount of data center space, power, and [density]," Randall said.

"Is there just no stopping at this point? I don't know how to deal with this anymore," she said.

"You're not the only one," Planning Director Daniel Galindo responded.

Who is in charge?



What can you do?

- Reach out to elected officials and support data center reform legislation
- Submit initial comments to NextEra:

 www.nexteraenergytransmission.com/
 midatlantic-resiliency-link.html
 and track their response or lack thereof
- Stay informed NextEra routing process,
 County Zoning and Planning, etc.
- Share information/video with friends, family, contacts and neighbors
- Financially support the local efforts and the broader campaign that is needed





Questions?

Final Thoughts

"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

Homework!

- Reach out to elected officials and support data center reform legislation
- Submit initial comments to NextEra:
 <u>www.nexteraenergytransmission.com/midatlant</u>

 <u>ic-resiliency-link.html</u>
 and track their response or lack thereof
- Stay informed NextEra routing process, County Zoning and Planning, etc.
- Share information/video with friends, family, contacts and neighbors
- Financially support the local efforts and the broader campaign that is needed