

Transmission Line Proliferation

The impact of data center overdevelopment



Loudoun is the data center capital of the world



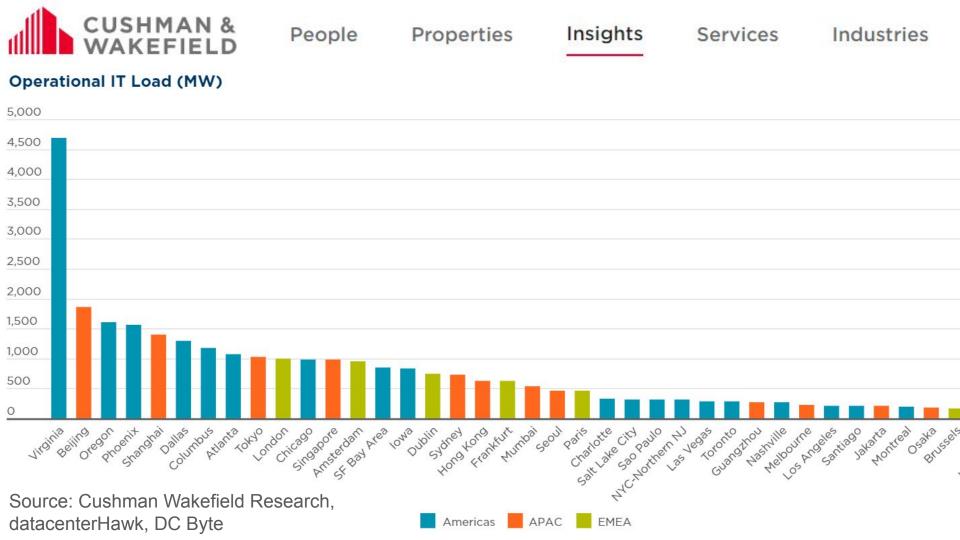
Data centers consume a huge amount of electricity



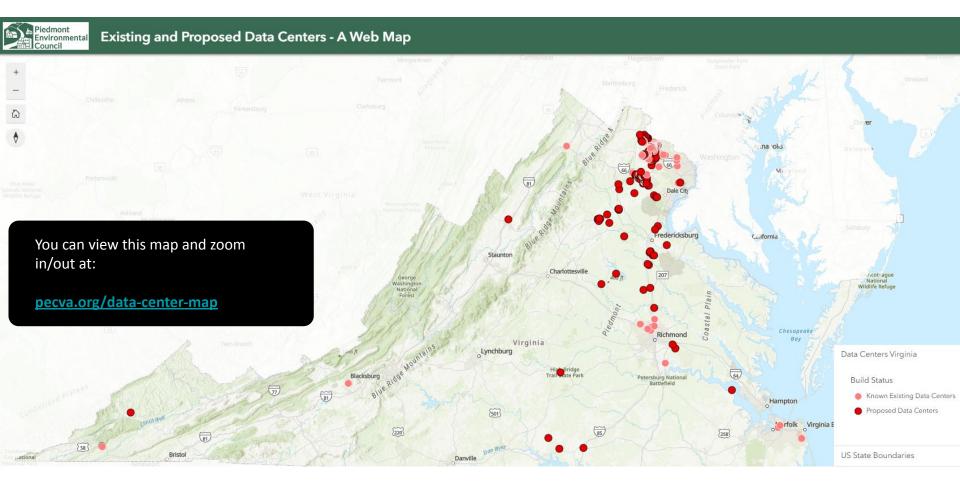
Over 60 MW per building = 15,000 homes



Currently 57 million square feet existing or being constructed in the state...



Data center proposals keep coming...



There's another 180 million square feet approved or in the pipeline...

Buildout compared to residential load demand: 1 MW serves 250 homes...

Total Current Load From Data Centers in VA

= 3,200 MW

Proposed Data Centers in the State could reach up to...

54,105 MW!



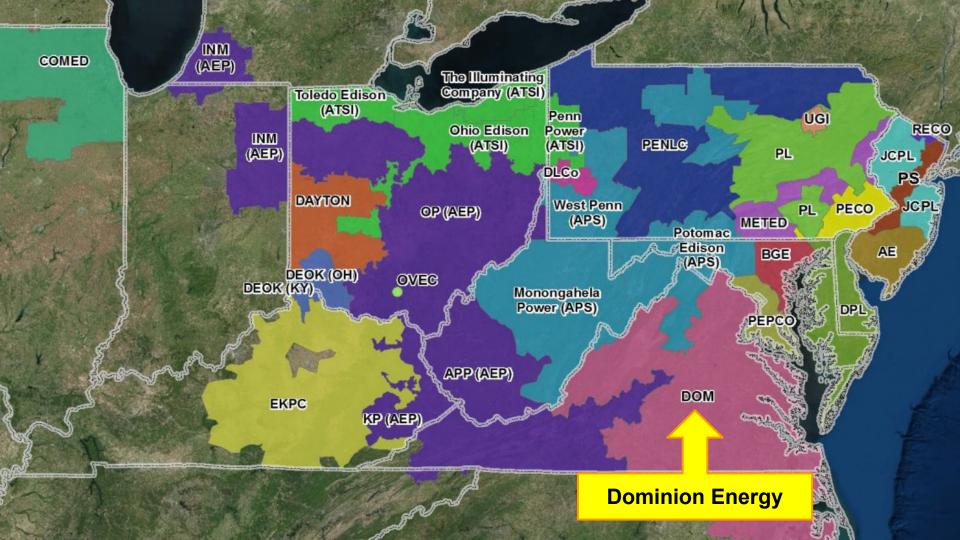
800,000 homes



13.5 million homes!

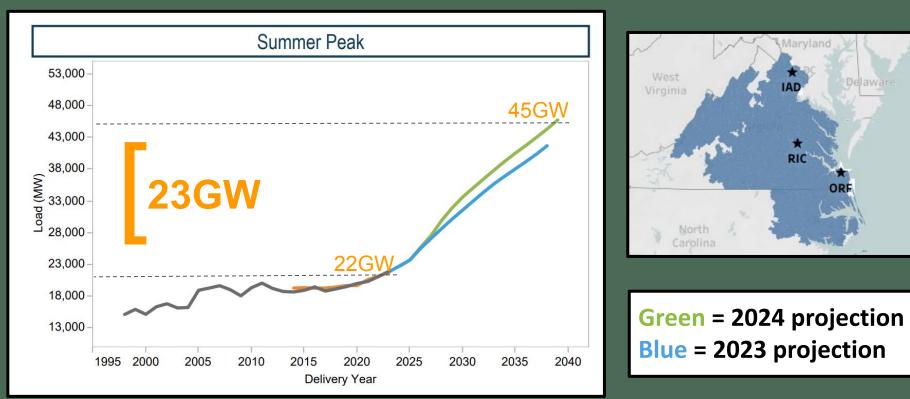
More demand than all the homes in these cities combined:





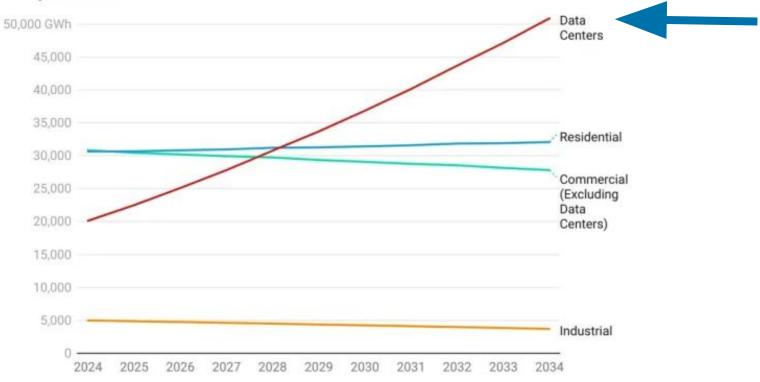
Skyrocketing Load Demand

Dominion Energy



Forecasted Dominion Energy annual electricity sales

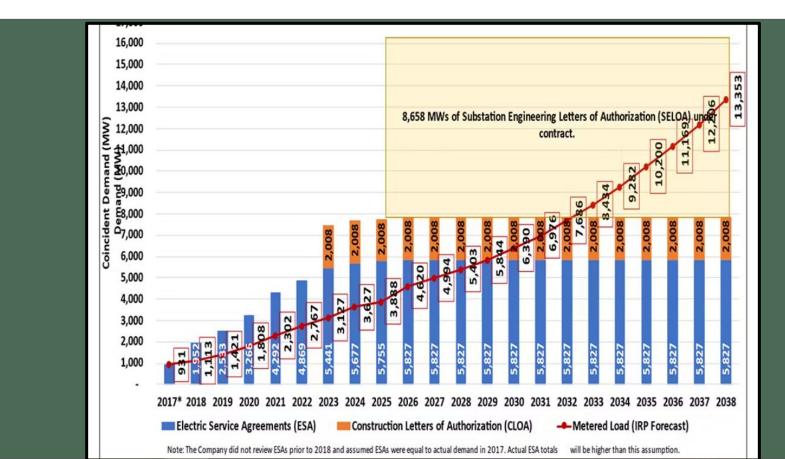
Data center electric sales will increase by 152% in the next decade, while others sectors remain mostly the same.



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

Dominion Energy and data center companies are making major power agreements without any oversight or planning...



More data centers need more power and transmission lines



The cost to build these will be passed on to ratepayers



Our bills to **double** in 11 years

"...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

OVERTEEMENT

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

 Vegata Bertei aut Power Company & Ves Deniation Energy Vegetei ("Soutiation") has relevant ted in 2013 Reservable Nucleika Standard ("WPS") filing "2013 WPS Wang", "Its 2003 NES Wing and autoint Doctations RPI Development Plan and respects for a space of the content or a square and oppress from and welligh-scale projects and a start and to be one power planata supremethin.

 Dominion reports approved of protocol Rules C3 with a revenue requirement of 1136,074,886 over the nate year beginning Play 1, 2018, and councieding April 20, 2015. According to Distance, this memory result increase a typical residuated customers will using 1,200 kilowate hours per meanth by 19 10.

 A Hearing Exemises appointed by the Commission will hold a telephone busing in this rate on humany 30, 2004, at 10 nm. for the receipt of public witness restances;

 An evidenticly having will due to belie on january 10, 2026, et 10 e.m., or at the conclusion-of the public veloces portion of the functing, whichever is later, in the Commension's second flow combtoonal located in the "Not-Indialing, 1300 East Mees Notes, Robinson's 2021, No society the residuary and editories of Demonstrate, and respondents, and Commission East.

- Purther information about this rate is available on the SOC website of

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On October 1, 2023, Dominion submitted its servicel RPS Filling to the Commission ("2023 RPS Filling" or "helition"), The 2023 RPS Filling requests the Commission:

(i) Approve the Company's anneal pice for the development of new salar, ondoers wind, and exectly storage resources ("RPS Development Play") is connection with the mandatory RPS Program pursuent to Code § 55-5(5:5:0:4;

(ii) Brand contribution of public conversionce and necessity (*CPCNet") and approval to construct or acquire and operate four utility-acide projects totaling approximately 329 megawatts (*WW*) of solar pursuant to Code § 56-560 D;

(II) Approve to recover through the Roder CE: sole educativest classes the costs of (a) free stillayscale scale projects, totaling, approximately 324 MW, and related interconnection hadlines contectively, CCA Projecth, and (b) can calcificate scale project, totaling opportunitely 3 Mill, and related interconnection hadlines (VCE4 Desthated Salar Project"), pursuant to Code § 95-555 1.0.0

(V) Approve an update to Pater CE for recovery of costs associated with the previously approved CE-1, CE-2, and CE-3 projects, the CE-2 and CE-3 destructed solar projects, and misland execution-control focilities.

(v) Moles a prutance determination for the Company to enter into 13 power purchase agreements (*PFMs?) for solar resources, lotaling approximately 435 MW, (collectively, *CE-4 PFMs²) pursuant to Code 6 36 585.1.4;

(v) Approve recovery through Rider CE of the costs of the CE-4 PPAs parsuant to Code § 36-585.1 A 5; and

(vii) Approve the Company's request in consolidate Fider CE and Rider IPR pursuant to Code § 56-565 1.h.T. resulting in: (a) the incovery of costs associated with the CE-1, CE-2, and CE-3 PPAs through Rider CE, and (b) the end of Rider IPRA as of April 33, 2004.

Dominion states that its RPS Development Plan reports on the Carlogene lowering the solar, control work, and energy stronge development largets addred in the VOSA and present the Carpany's development plan Carbon stronge (State) Recognary Strongenet (State) (Sta

Der Company wie precises au zusallichtet dell ausginza socialität per perjected routetty tell franzagi 225 für straditatils, stradit general aufrich, auf angel Benoram Pein, For Alamatte Pein aufragi aufragi angel precisione aufragi 2000 für aufragi 2000 für

Futher, the Company also presents its 2022 RPS Program Compliance Report in the Petition, orthonic compliance with the RPS Program for compliance year 2022. ADVERTISEMEN

CL-4 Tablick Deviction exists (C-ML and approvalite construct or accurse and operated four utility scale projects basing approximately 23 Mill of calcula: In deficits to Read for opperty, Davisian institute to accurate and approval one additional CL-4 Polyce and a Mill Note Indial (Programma). These the Danapay asserts that, canadate with the Commission is pire determination that approach of the Will of Section Compares CCHC was Read to 1 of the Commission is Tablic Section Section in Segurate of Applications for Adulty to Contexts and Operate an Electric Generality Facility. Programme dates and applications for Adulty to Contexts and Operate an Electric Generality Facility.

The name, size, locality, interconnection and projected commented operation date (*COO*) for each of the CE 4 Projects is provided below.

Project Size (MMac)		Locality	Interconnection.	C08	
		UBity-Soaia Solar	10-7	10	
Daklain	ST	Powhoten County	Transmission	2029 2025 2025 2024 2026	
Dias Fidge	86	Plev/venia County	Turomissico		
Boolers Mill	127	Richmond County	Transmission		
Michael	58	Henry Pitteyksala County	Transmission		
Pappertown	5	Hanover County	Debitution	2034	

The Company asserts that the CE-4 Projects are needed to comply with the VCEA and to some costances: copacity and ensary, needs. According to the Company, the total addinated costs for the CE-4 Projects are approximately SIXCS in white, rectaining financing costs, or approximately ECSE per following (VM) at the total 334 MW (monital AZ) rolling.

Rider CE

LEGAL NOTICES

In this proceeding, Duminian nakes four requests initiated to Rider CE. First, the Company seeks, to update Rider CE for the recovery of costs associated with the CE-1, CE-2, and CE-3 projects, the CE-2 and CE-3 distillated solar projects, and related interconnection facilities, which have reveacuate beam approved by the Camination.

Second, Dominism requests recovery through Rider CE of the costs of the CE 4 Projects and CE 4 Databased State Projects, as well as the related interconnection facilities. The CE 4 Projects are discussed in more detail above. The CE 4 Databased State Project costs of one distributed notes project tableg approximately 316W and related interconnection facilities.

The Company assets that the CE-4 Dehtholad Solar Project is needed to comply with the VCEA and to serve customers' capacity and energy needs. According to the Company, the total estimated contails for the CE-4 Dehtholed Solar Project are approximately \$13.9 million, excluding fearables costs in proceedings (SSRE) per Wir at the total 3 WW (concert AC) rating.

The fine Compare webs to consistive Refer C2 and Med PNR, Refer PFR, was approved by the Commission provider 10 chef (\$550.41 k 51 k the is consolidation of Refer C2 and Refer C4.51.28), and C45.3PRs. The Compare parametrit the the consolidation of Refer C2 and Refer PFRs in the test of Addied compositive Networks and the commission of the Refer C4 and Refer PFRs in the test of Addied compositive Refer Re

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

Domines axis the Commission to approve needed their CE for the rule year beginning faily 1, 2008, and ending April 30, 2020 Theorem (1). The Company meaning a 1401 investment applications of 13, 2021 Text (4) is apported. The Text (4) have the second and investme applications of 13, 2021 Text (4) is apported. The second company text (about on the second one of the second and the second company text (4) have the second company text (4) have the text one of the second and the second company text (4) have the second company text (4) have the per second have approximately (5) and when company to 14 an adouted company when the second text (1) have the second and text (1) have the second company text (1) have the second text (1) have the second and text (1) have the second text (1) have the second and text (1) have the second text (

CE-4 PERA

In its 2023 RPS Filing, Domision also seeks a produce determination for the CE4 PPVs. The CE4/PPIscansistor, () eight PPVs for alling scale solar generating facilities totaling approximately 420 MW and (i) the PPIsc for distributed solar generating facilities totaling approximately 15 MM.

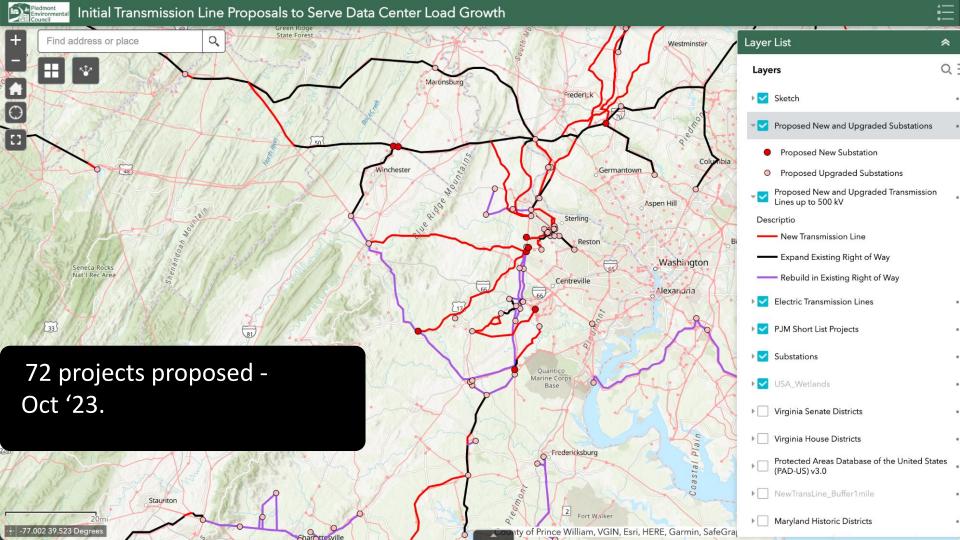
Deminish asserts that the CE-4 PPAs are needed to comply with the VCEA and to serve autonomy capacity and areagy needs. An realist above, the Company werks approad to recover the costs of the CE-4 PPAs through Refar CE. In addition is the costs of the CE-1, CI-2 and CE-3 PPAs previously approval by the Commission.

Interested parsons are encoursigned to review Dominicor's Petition and supporting documents in full for deals shoul these and other proposals.

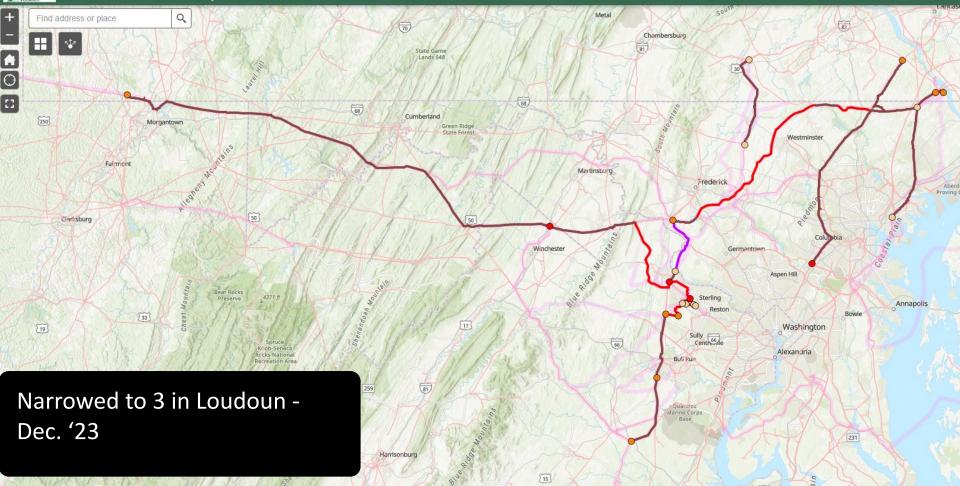
TAKE NOTICE that the Commission may apportion revenues among customer classes and/or design rates in a manner afficting from that shown in the Petition and supporting documents and thus may adopt rates that offler from those appearing in the Company's Petition and supporting documents.

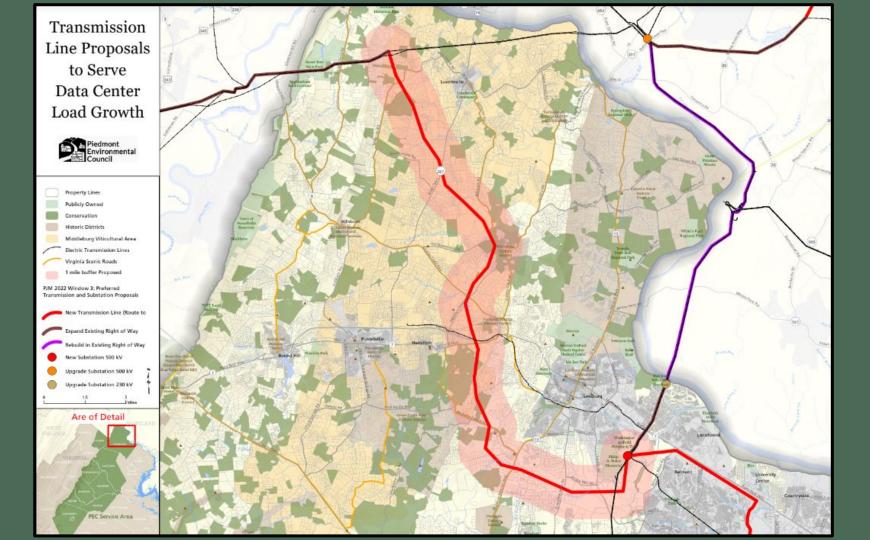
The Commission extension is chosen for formal the initial proceeding part, service data targos, scientidad data benetrys no Commission 1 helitos, it have the result of testimoty form public whereases an the Company's Pattien that the converted telephonemaky at 12 as a Jamany 18, 252 AD on or detrom amany 1, 2524, any present uniting a duff animative public targot and a strain the commission of the commission of the commission of the processing the Commission of the commission of the public targot and the commission of the commission of the public targot and the Commission of the the lattice for proceeding on the lattice of the commission of the Commission of the commission of the commission of the public targot and the Commission of the commi

RPS Development Plan



Determined Initial Transmission Line Proposals to Serve Data Center Load Growth

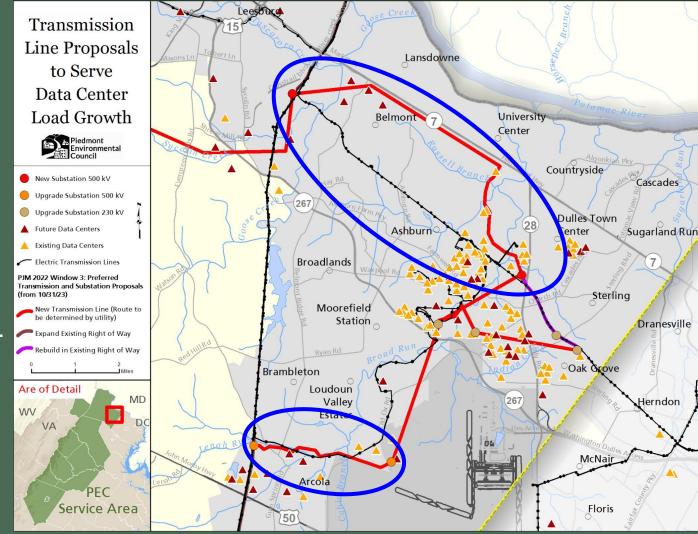




3 Part Eastern Loudoun loop

For existing data centers.

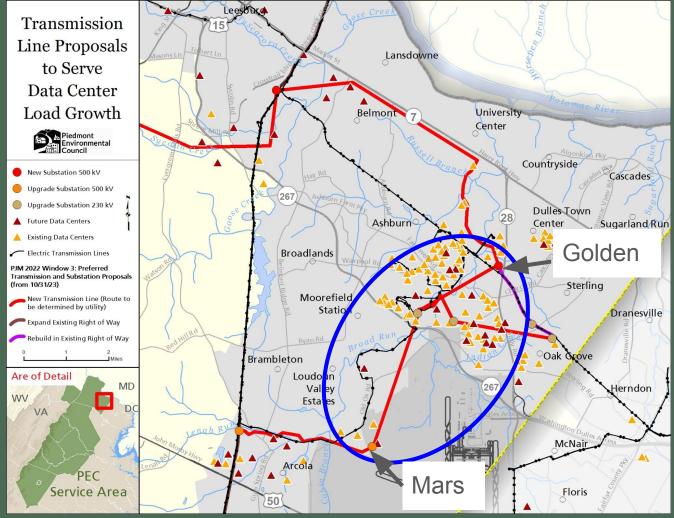
Not for approved-butnot-built or new applications.



The Connecting Link

- Dominion is working on alternatives to propose to the public.
- Mailers to go out in mid-June.
- Open houses (virtual and in-person) expected end of July/early August.

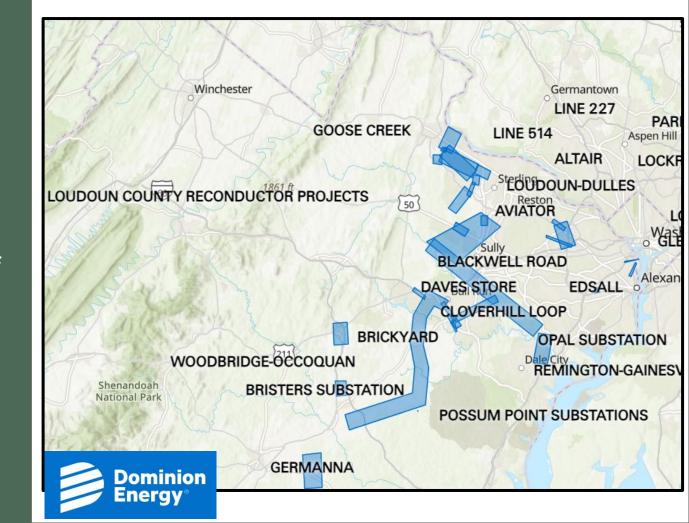
ROUTE has yet to be determined.



Other Northern VA Dominion Energy Projects

- Twin Creeks to Apollo
- Aviator to Takeoff
- Reconductoring projects

• Line 514

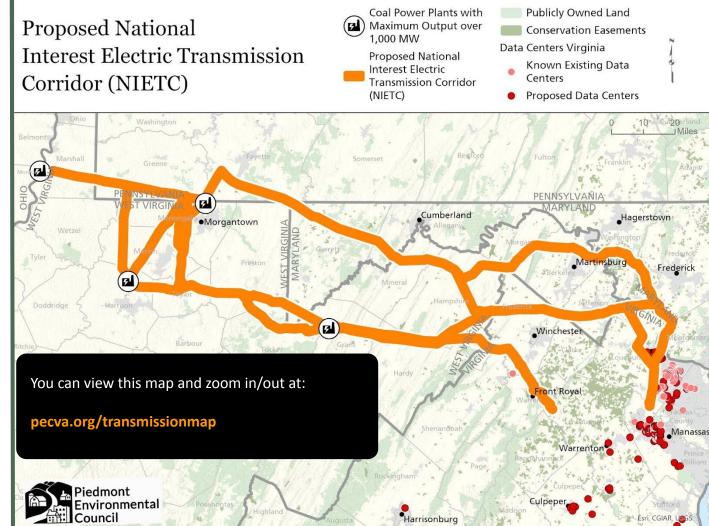


What is NIETC?

The Federal Power Act authorizes the Secretary of Energy to designate any geographic area as a National Interest Electric Transmission Corridor (NIETC) if the Secretary finds that consumers are harmed by a lack of transmission in the area and that the development of new transmission would advance important national interests in that area, such as increased reliability and reduced consumer costs.

4 Phase process which began in February

Preliminary List of Potential National Interest Electric Transmission Corridors A NIETC designation for the MARL line project could overrule the Virginia SCC



Threshold Need Determination

Potential NIETC	Reliability	Resilience	Congestion	Consumer Costs	Future Generation & Demand Growth	Clean Energy
New York - New England						
New York – MidAtlantic						
Mid-Atlantic – Canada						
Mid-Atlantic						
Midwest – Plains						
Northern Plains						
Delta – Plains						
Plains – Southwest						
Mountain – Plains – Southwest						
Mountain – Northwest						

Reliability = Operate transmission system elements within equipment and electric system thermal, voltage, and stability limits

Resilience = Withstand and/or recover from system disruptions or unanticipated failure of system elements, particularly extreme weather events

Congestion = Alleviate economic impacts on the users of electricity that result from a transmission constraint

Consumer Costs = Facilitate delivery of lower-cost resources to high-priced demand areas

Future Generation & Demand Growth = Accommodate

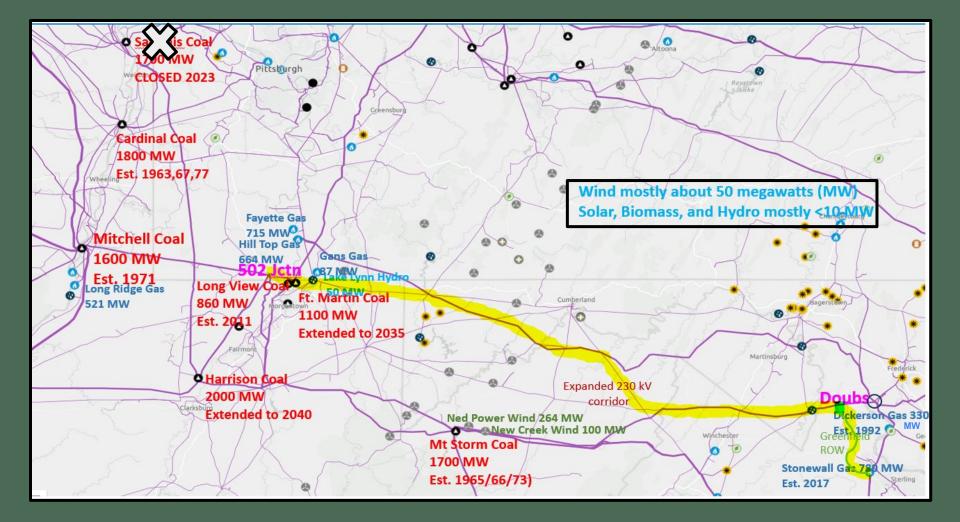
likely scenarios of future power system characteristics driven by market forces and utility, state, and federal policies

Clean Energy = Interconnect clean energy resources to reduce greenhouse gas emissions

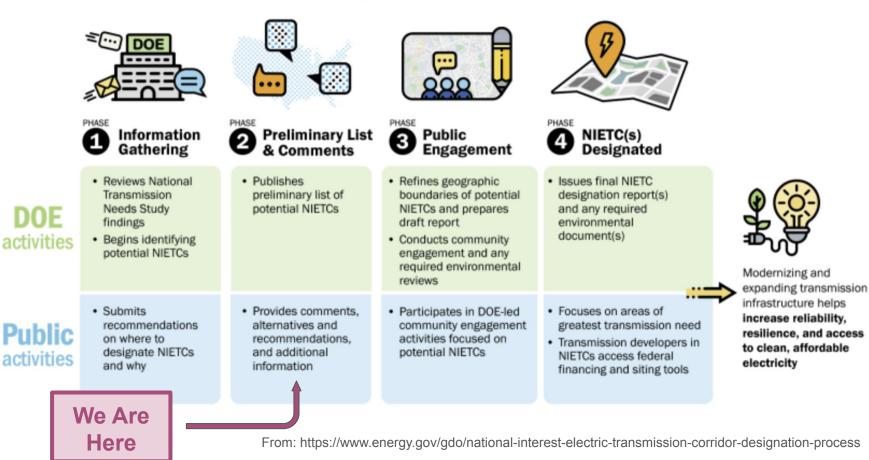


A Billion dollar investment to connect to fossil fuel plants: Fort Martin and Harrison coal-fired plants to stay open





NIETC Designation Process



What can you do on transmission line proposals?

Send comments on NIETC

by June 24

NIETC@hq.doe.gov

6

United States Department of Energy

> GRID DEPLOYMENT OFFICE

Send SCC comments:

- Aspen to Golden online comments by September 10.
- MARL line TBD

More info to come



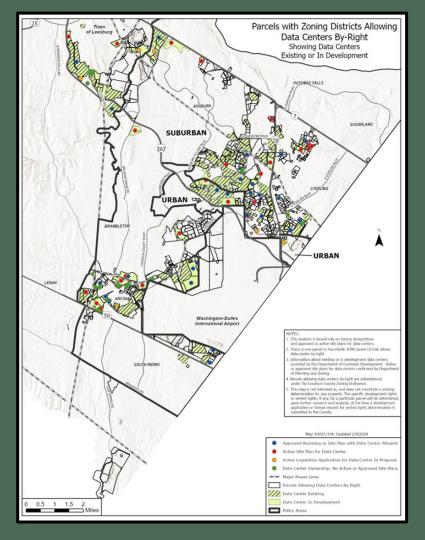
What can you do to advocate for state and federal reform?

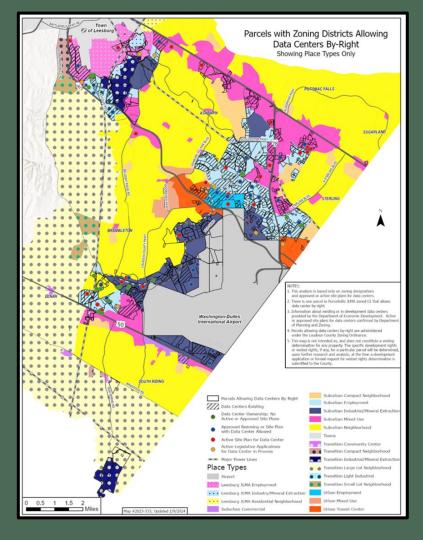
- Share information with friends, family, contacts and neighbors.
- Reach out to state elected officials and ask them to support data center reform legislation at state level
- Tell Congress to support the Artificial Intelligence Environmental Impacts Act
- Financially support the local efforts and the broader campaign needed!



Still Digging the Hole Deeper







Pending Legislative Approvals

- **3** Applications Currently up for Consideration
 - Orme Farm
 - BOS Public Hearing
 - BOS Vote
 - Hiddenwood Assemblage
 - BOS Public Hearing
 - Greenlin Park
 - Planning Commission Business Meeting

Orme Farm

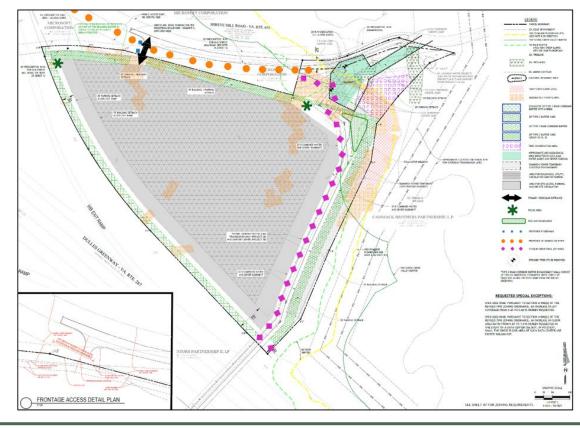
Rezoning and 2 Special Exceptions

11.7 acres from JMLA 20 to **PD-IP**

Increased Floor Area Ratio from 0.6 to 1.0

Increased Maximum lot coverage from 0.45 to 0.60

Figure 2: Concept Development Plan (CDP)



Hiddenwood Assemblage

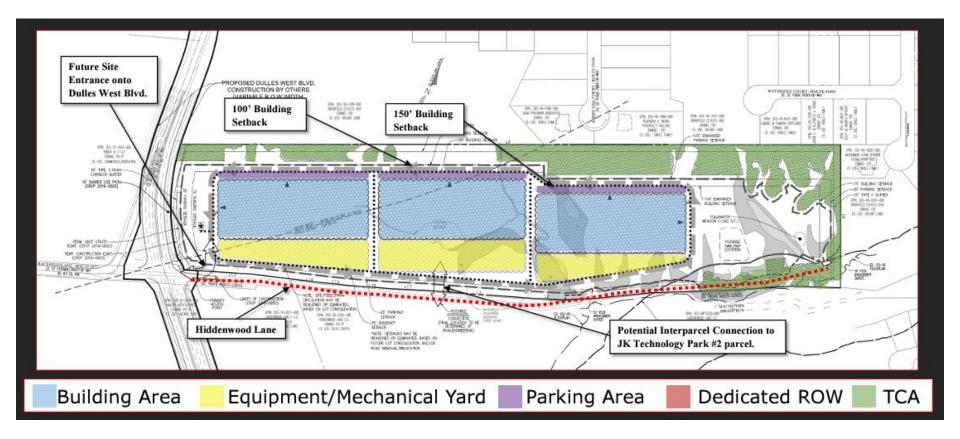
Rezoning

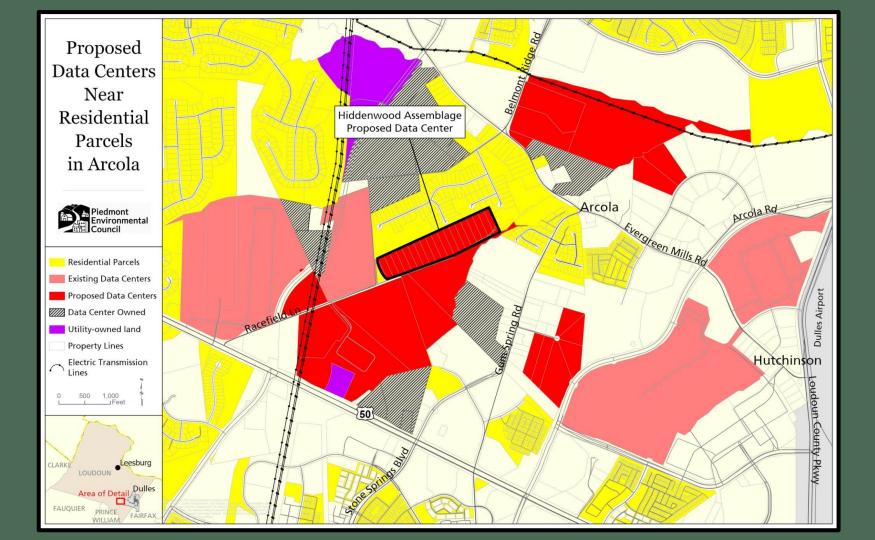
28.92 acres from CR-1 to PDIP

Allows for existing homes to be torn down to be replaced by a **756,024** sqft data center



Concept Development Plan from Application



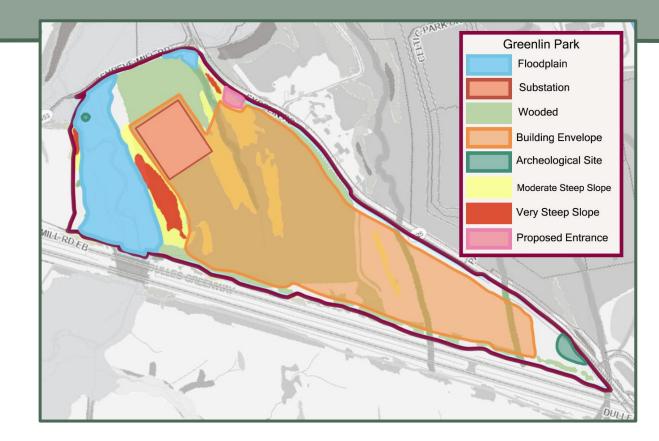


Greenlin Park

Rezoning

81.17 acres from TR-10 and JMLA-20 to PD-IP

Building Height increase 36' allowed, 60' requested by applicant



Board of Supervisors bos@loudoun.gov

- Public Hearing 2nd Wednesday (after the first Monday)
- Business Meeting 1st Tuesday

Orme Farm July 2nd Business Meeting, final vote

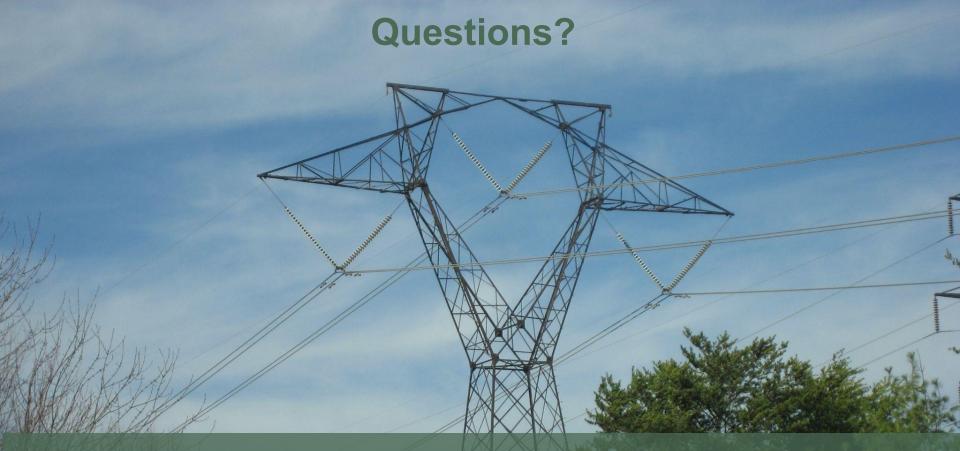
Hiddenwood Assemblage July 10th Public Hearing

Greenlin Park Late Summer to Fall Public Hearing

Planning Commission loudounpc@loudoun.gov

- Public Hearing 4th Tuesday
- Work Session 2nd Thursday

Greenlin Farm moved to July 11th work session



Time to Stop Digging and demand better solutions