



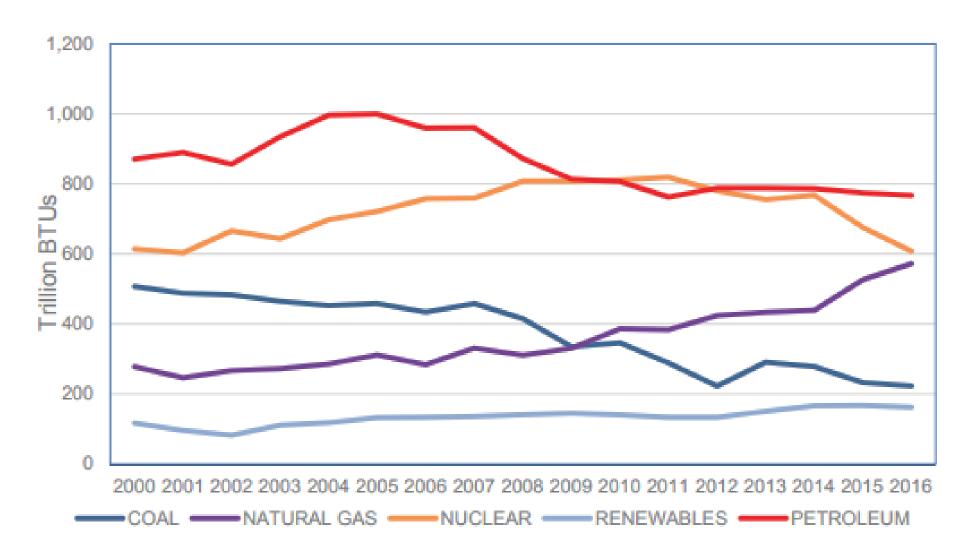


DMME Mission

Since 1985

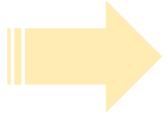
To enhance the development and conservation of energy and mineral resources in a safe and environmentally sound manner in order to support a more productive economy in Virginia.

VA Historical Energy Consumption by Source, 2000-2016





State Electricity Goals



30% by 2030



100% by 2050



Energy Equity

Produce 30 percent of Virginia's electricity from renewable energy sources by 2030

Produce 100 percent of Virginia's electricity from carbon-free sources by 2050

Achieve energy goals in a just manner that advance social, energy, and environmental equity



Division of Energy

The Division of Energy develops and implements the Virginia Energy Plan and Policy, and associated legislative and executive initiatives, such as the 2018 Grid Transformation and Security Act and the 2019 Executive Order 43

Staff covers four areas:

- VEMP
- Solar and Wind
- Financing
- Transportation
- (Utility/Regulatory primarily DA)



Division of Energy

Solar and Wind

Division programs to deploy or advance renewable generation include:

- Support EO 43, including 420 MW renewable energy contract (solar + wind)
- Annual PPA RFP for 10 MW
- Locality support for solar citing, policy, financing and procurement
- DMME 12 MW offshore wind research lease
- Dominion 2,600 MW offshore wind (2026)
- State LBE project funding
 - 5 state agencies, 1.2 MW solar PV
- Solar-enhanced ESPC
 - \$3 million for buy downs





News Trends

VIRGINIA

Virginia emerges as a 'hotbed' for solar as rural counties welcome projects





Governor Northam Announces Largest State Renewable Energy Contract in the Nation

New agreement to purchase 420 megawatts of solar and wind energy follows historic month for clean energy in Virginia

Despite opposition, Matoaca solar farm project moves forward

SEPTEMBER 25, 2019

BY JIM MCCONNELL SENIOR WRITER













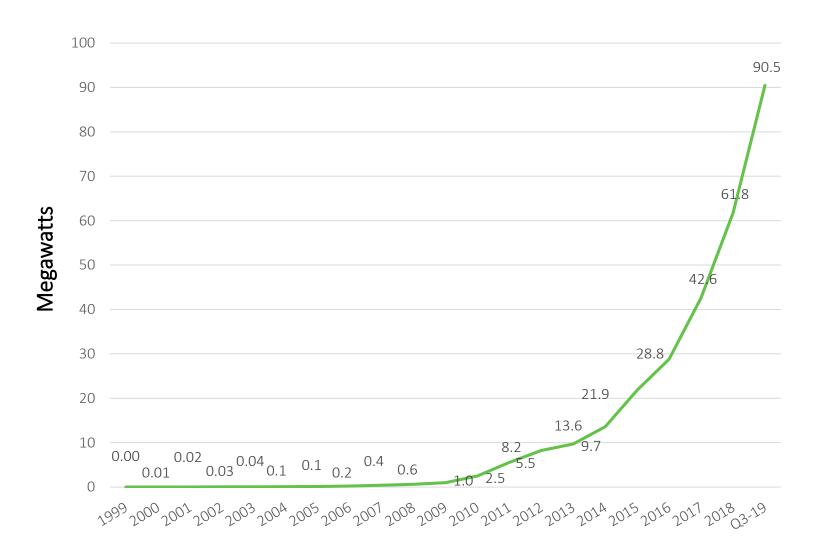


Culpeper mulls more rules for big solar projects

ROPHY CHAMPION CULPEPER STAR-EXPONENT Sep 14, 2019



Customer-Owned Solar Growth Net Metering Since 1999





Co-op Utility Net-Metered Solar VS. 1% Cap

Cooperative	Cumulative Total	1% Cap	% of Cap Filled
A&N	0.51 MW	1.67 MW	30%
BARC	0.53 MW	0.53 MW	100%
Central Virginia	2.26 MW	2.59 MW	87%
Community	0.14 MW	0.65 MW	22%
Craig-Botetourt	0.23 MW	0.28 MW	81%
Mecklenburg	0.68 MW	1.39 MW	49%
Northern Neck	0.41 MW	0.95 MW	43%
NOVEC	3.91 MW	11.5 MW	33%
Prince George	0.12 MW	0.75 MW	16%
Rappahannock	7.83 MW	11.71 MW	67%
Shenandoah Valley	5.46 MW	5.46 MW	100%
Southside	1.44 MW	3.21 MW	45%

Solar + Wind Permit by Rule Program Status

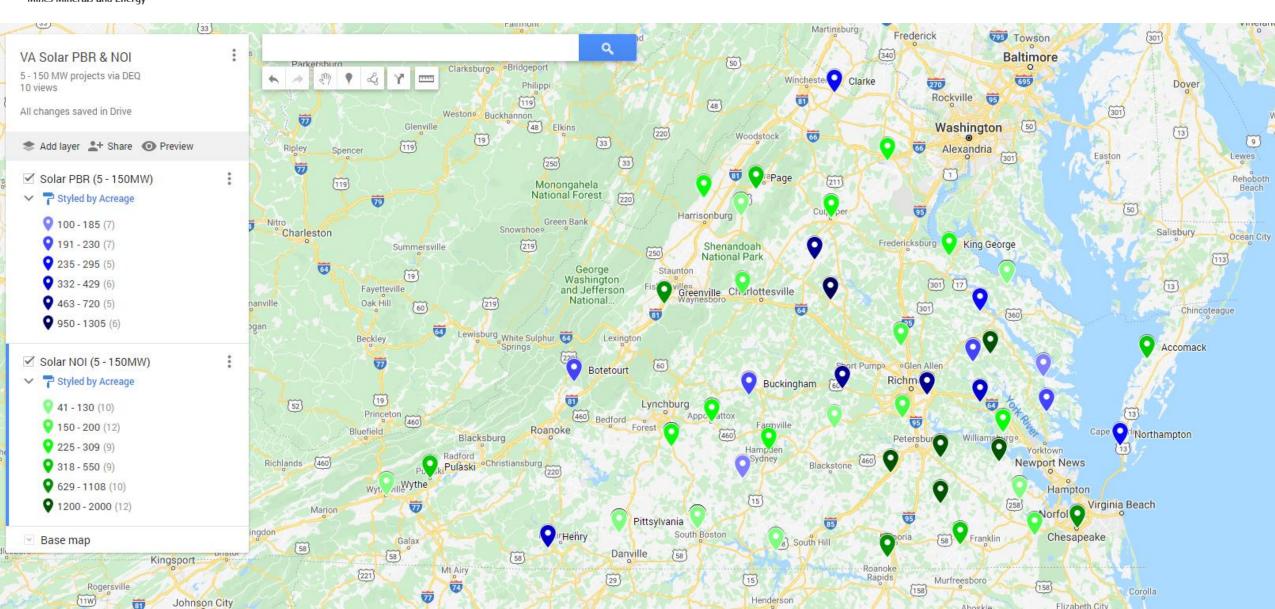
 Total No 	otices of Intent	62
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•	Number of	of PBRs	<u>Granted</u>	36
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- Solar 36
- Wind
- MW permitted 1,272
- MW in NOI Pipeline 3,534
- Total Projected MW 4,806
- Number of Acres Projected 51,563



Permit by Rule & NOI Distribution





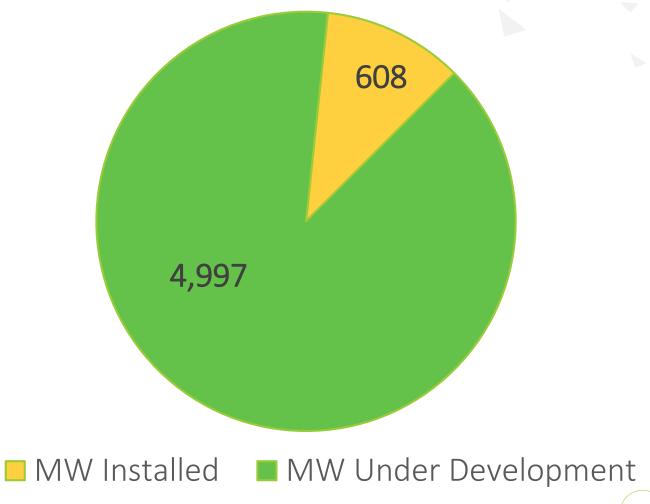
Dominion Energy Solar Projects





Total Solar Megawatts in Virginia

PJM Queue: 221 projects 19,120 MW

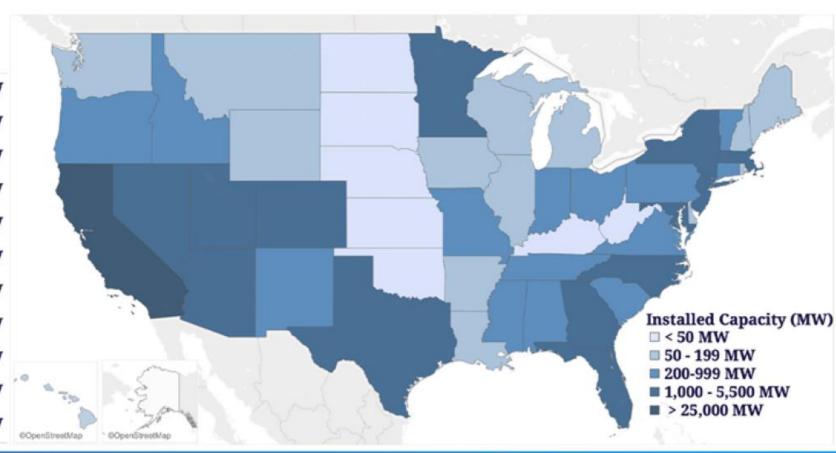




Utility Solar Capacity in US, 2019 (Source: SEIA)

Top 10 States

California	25,016 MW		
North Carolina	5,467 MW		
Arizona	3,788 MW		
Nevada	3,452 MW		
Florida	3,156 MW		
Texas	2,957 MW		
New Jersey	2,829 MW		
Massachusetts	2,535 MW		
New York	1,718 MW		
Utah	1,661 MW		
Georgia	1,572 MW		

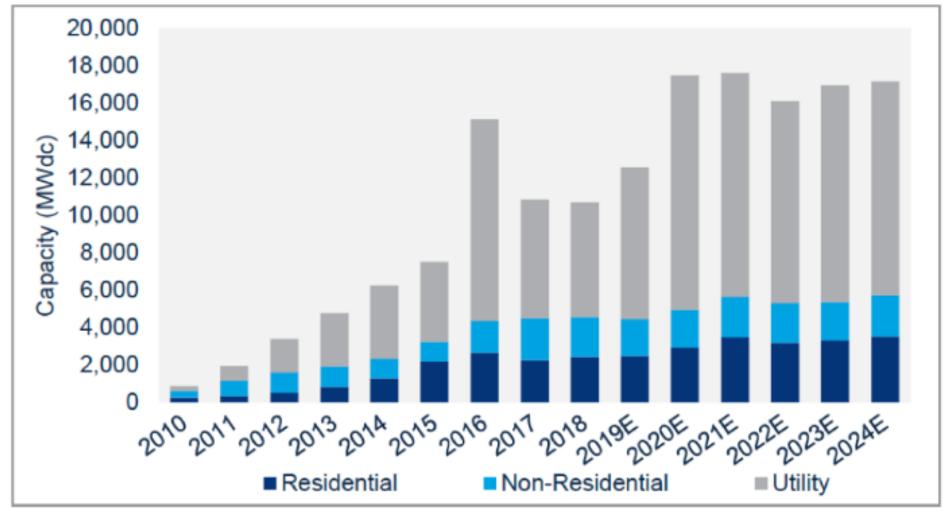








U.S. PV Installation Forecast, 2010 – 2024e



Source: Wood Mackenzie Power & Renewables





Land-Use Considerations for Development

- Future Land Use
- Agriculture, Forestry
- Residential Use
- Industrial Zone Land
- Location (Location, Location)
- Visual Impacts
- Decommissioning

- Wildlife Corridors
- Stormwater, Erosion, Sediment
- Cultural, Env. Resources
- Financial Incentives
- Employment (Short/Long-Term)
- Fiscal Impacts
- Property Values

