

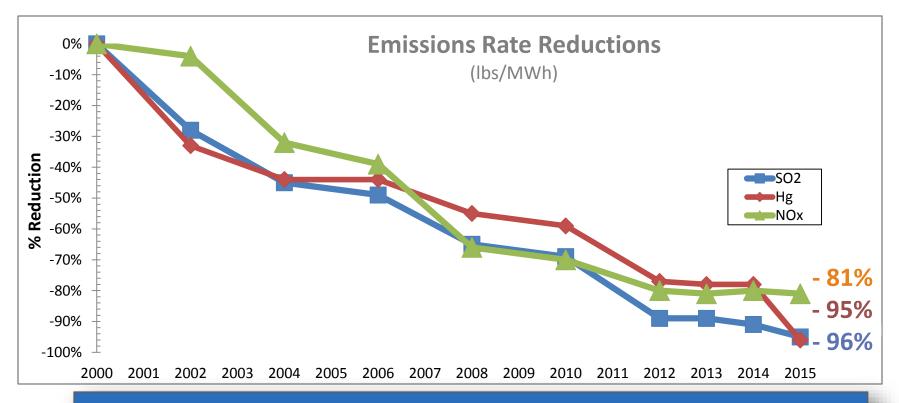


Powering the Peninsula

ENVIRONMENTAL

Constantly Improving:

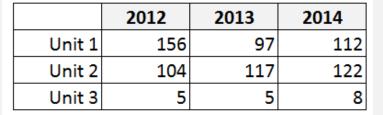
 Over the last 15 years, we are seeing constant improvements in reducing our systemwide emissions



During the same timeframe, Dominion's system-wide carbon emissions was reduced by 23%.

YORKTOWN POWER STATION

Yorktown Power Station Days at 100% Capacity



With a capacity factor limitation of 8% (MATS rule), Unit 3 operations are limited to an average of 29 days annually at full capacity



DOZENS OF ALTERNATIVES CONSIDERED

Generation Alternatives

- X Retrofitting Yorktown Power Station
- X Repowering Yorktown Power Station
- X New Generation
- X Demand-Side Management (DSM only ~ 70 MW)

Transmission & Hybrid

- X Chickahominy Lanexa 500 kV
- X Save The James Alliance Alternative
- X 214/263 230 kV Line Rebuild (James River Bridge Crossing)
- X Chuckatuck Newport News 230 kV (Whittier Hybrid)
- X Surry Whealton 500 kV Line
- X Surry Skiffes Creek 500 kV Underground (Alternating Current)
- X Surry Skiffes Creek 500 kV Underground (High Voltage Direct Current)
- X Surry Skiffes Creek 230 kV Underground (With and Without Yorktown Generation)
- X Chickahominy Skiffes Creek 500 kV (Resolves NERC Criteria Violations but with greater environmental impacts and costs than Proposed Project)
- ➤ APPROVED BY SCC: Surry Skiffes Creek 500 kV, Skiffes Creek Whealton 230kV, Skiffes Creek Switching Station





Surry – Skiffes Creek – Whealton Electric Transmission Project

September2016

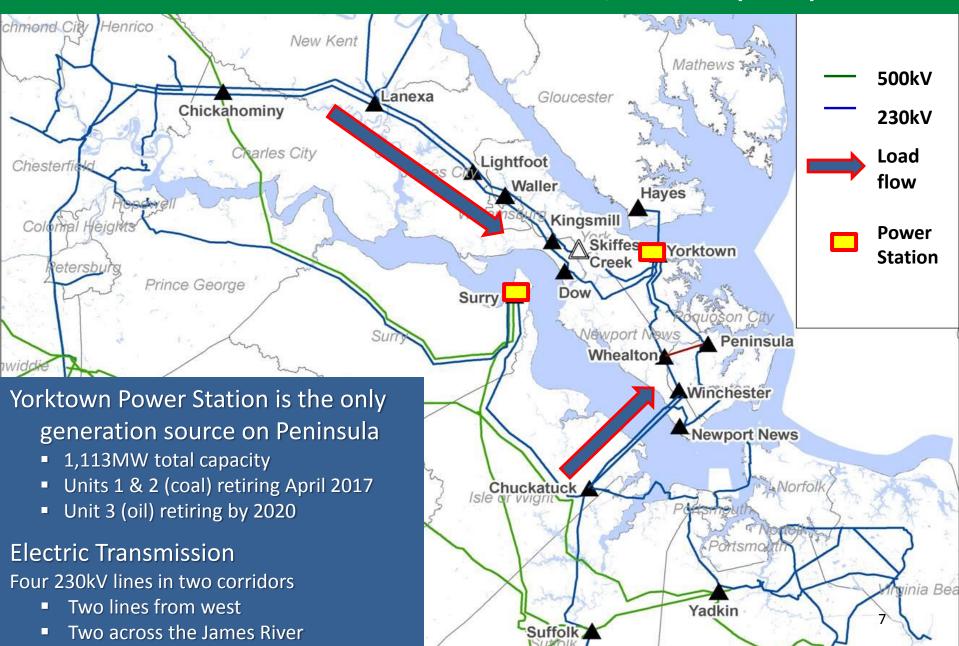
SUMMARY OF CHALLENGES

- Growing need for electricity on Virginia's Peninsula
- Yorktown coal units scheduled for closure April 2017
- Federal law mandates compliance with electric reliability standards

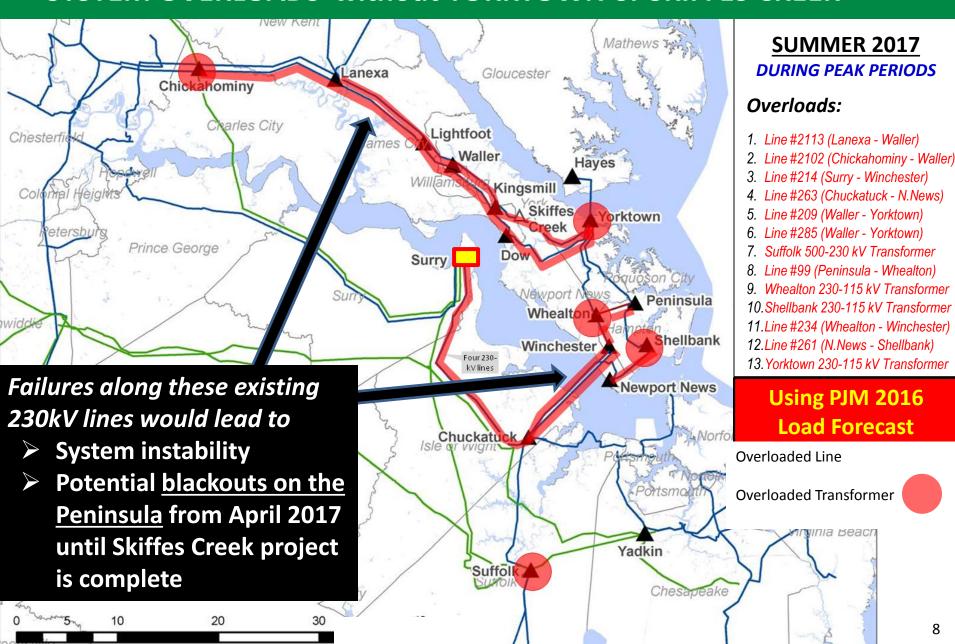
The future without Skiffes Creek project in service:

- Potential widespread blackouts across Peninsula from April 2017 until Skiffes Creek project is complete
- Automatic scheme being developed to avoid outages cascading into Richmond, Northern Virginia or North Carolina

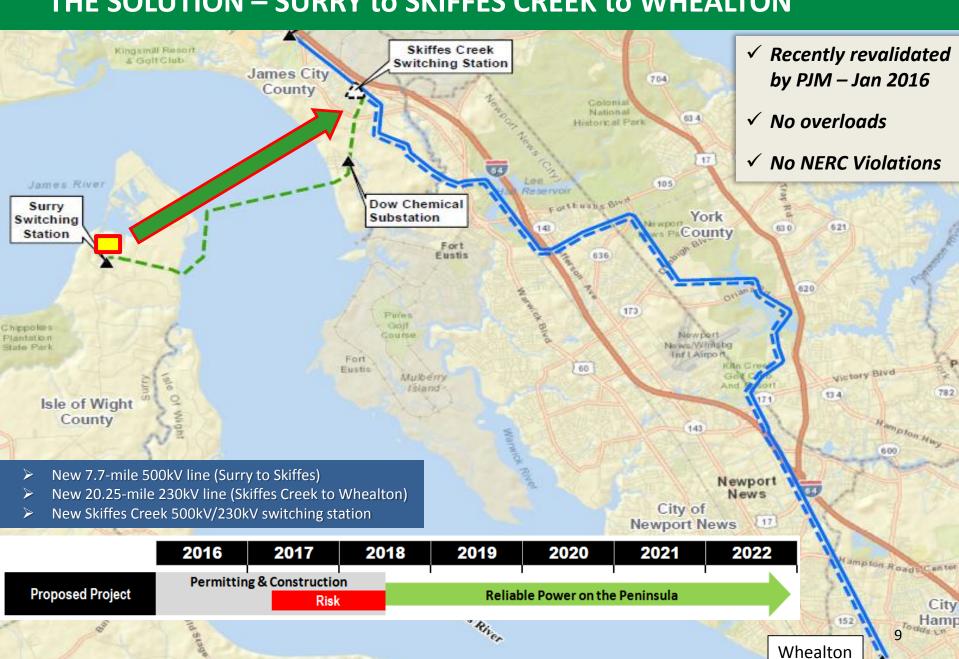
POWERING THE PENINSULA – Peak Load 1,438 MW (2015)



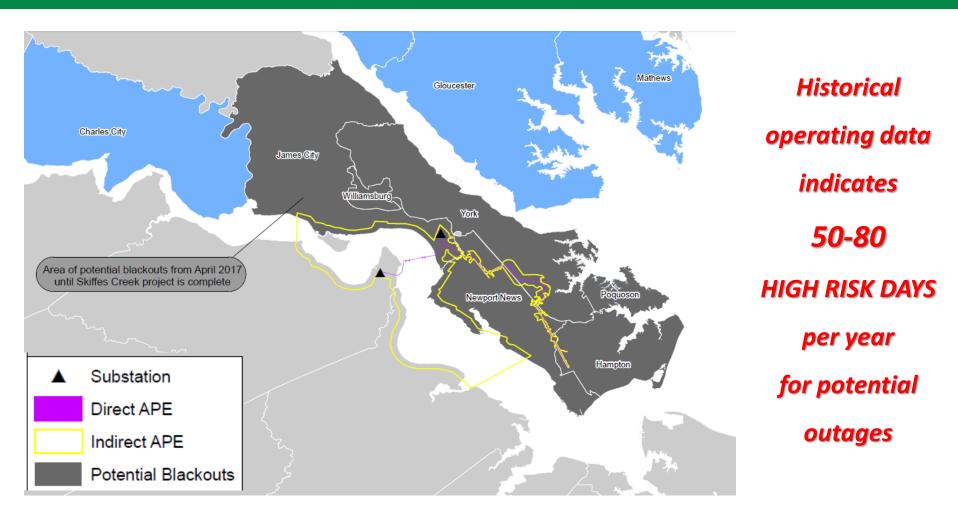
SYSTEM OVERLOADS without YORKTOWN or SKIFFES CREEK



THE SOLUTION – SURRY to SKIFFES CREEK to WHEALTON



OUTAGE SCENARIOS – Isolate Impacts to the Virginia Peninsula



APE – Area of Potential Impact determined by USACE

REGULATORY PROCESS

TRANSMISSION LINES:

Need for new line announced Virginia SCC Project Approval Early 2011 Feb. 28, 2014

Virginia Marine Resources Commission – Filed August 2013

Pending

U.S. Army Corps of Engineers Permit Application Filed

-- NEPA Environmental Assessment

-- National Historic Preservation Act Section 106 Consultation

August 2013

Pending

Pending

Signed Mitigation MOA is an Essential Step

SWITCHING STATION:

James City County Special Use Permit – Filed June 2015

Pending

MITIGATION AGREEMENT – APPROVAL REQUIRED OF FOUR PARTIES

□ \$85 million Obligated

- Funding is provided for a wide variety of projects that will preserve and enhance the cultural and natural features of the historic district (i.e. landscapes, shorelines, and water quality)
- Provide for enhanced visitor experience opportunities at various heritage tourism destinations within the APE
- These projects will be developed and implemented in consultation with recognized experts as well as the Corps, SHPO, and other signatories to the MOA
- Provisions are also provided for handling unanticipated discoveries and disputes in consultation with the Corps and SHPO

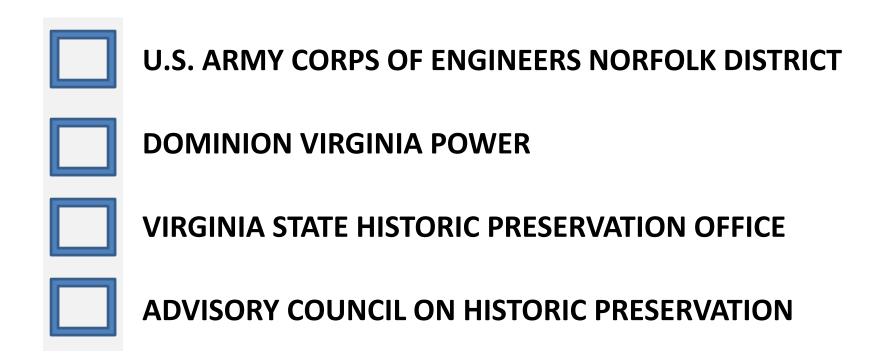
Underwater and Terrestrial Archaeological Sites

- A plan to avoid impacts will be prepared and submitted for review and approval by the Corps and SHPO prior to implementation
- Implementation of the plan will be monitored by a third party archaeologist
- The one archaeological site that cannot be avoided will have data recovery completed prior to any construction in the area of the site; work will be reviewed and approved by the Corps and SHPO

□ Electric Transmission Infrastructure

- Steps will be taken to evaluate and apply, as appropriate, tower coatings that will help minimize the visual impact of the towers when viewed from a distance
- Dominion has committed not to add any new tower infrastructure within the APE or increase the proposed tower heights for the life of the project
- Dominion further commits to review every 10 years the need for the project and the availability of industry accepted technology to put the lines under the river.

MITIGATION AGREEMENT – APPROVAL REQUIRED OF FOUR PARTIES



Without resolution of historic preservation issues the Corps cannot make a final permit decision

CONSEQUENCES OF FAILING TO ENERGIZE PROJECT



Reliability risks without Skiffes Creek in service by 2017

Under certain conditions, system load can exceed limits which create the possibility of cascading blackouts

Blackouts could occur with or without advanced warning depending on the circumstances

	2016	2017	2018	2019	2020	2021	2022	2023
Proposed Project	Permitting (Estimate)	g & Construction Risk	on	Reliable Power on the Peninsula				
Delays & Alternatives	Permitting & Construction (Seven to Ten+ Years) Blackout Risk							