



Reliability Analysis Update

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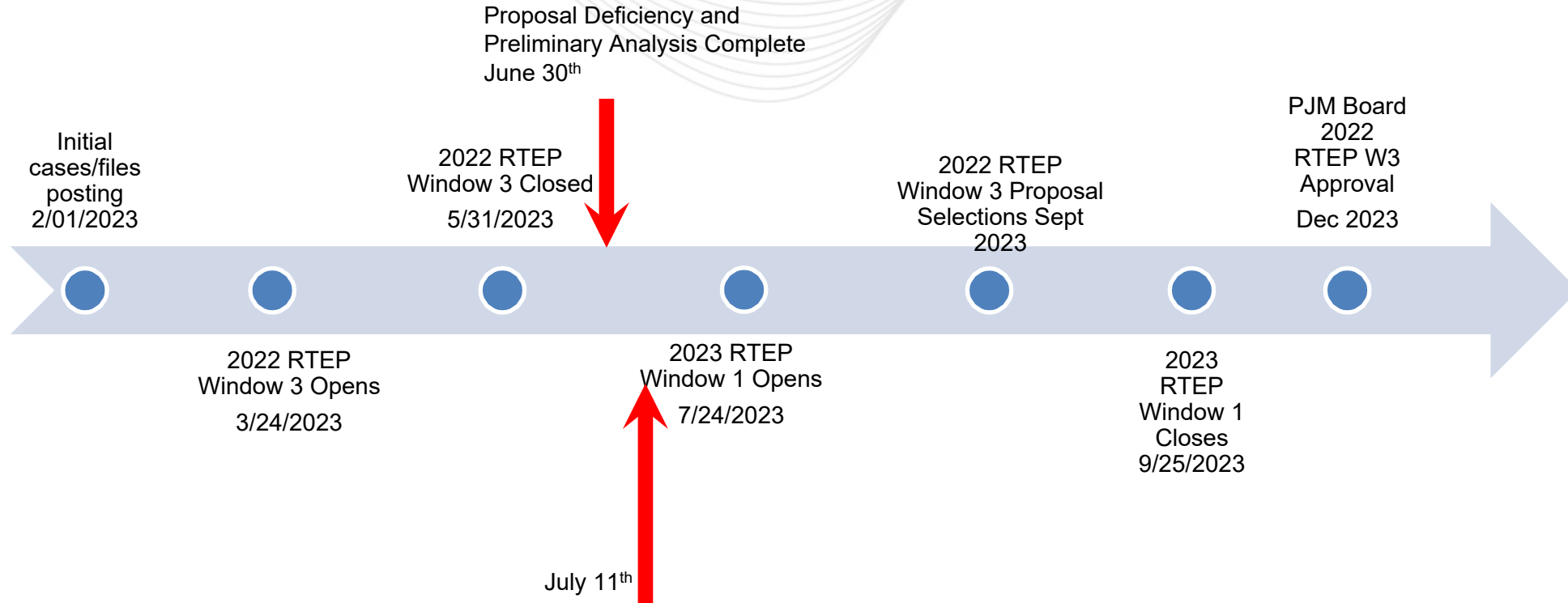
Transmission Expansion Advisory Committee

July 11, 2023

2022 RTEP W3 and 2023 RTEP W1

Timeline and Status Update

2022 RTEP Window 3 and 2023 RTEP Window 1 - Timeline



Proposing Entity	Dominion	East	West	South	local
AEP					X
Dominion	X			X	
Exelon		X			
First Energy	X		X		
LS Power	X	X	X	X	
NextEra	X	X	X	X	
PPL		X			X
PSEG		X		X	
Transource	X	X	X	X	

- All individual proposals screening completed
- Baseline scenarios have been developed and currently under evaluation:
 - Includes all full solution proposals offered in all 4 need areas (East, West, South and Dominion)
 - Includes scenarios representing key component/element replacement sensitivities from the baseline scenarios
 - Preliminary analysis show superior performance of a number of scenarios while other scenarios showed remnant violations (unaddressed flowgates)
 - A number of scenarios are currently being evaluated for screening considering:
 - Development timelines – a number of proposing entities reevaluating In Service Dates (ISDs) and proposal sequencing
 - Development risk – ROW, Permitting, Cost and Supply chain risks
- A detailed analysis update will be provided during the August TEAC

- PJM is on schedule to open the 2023 RTEP W1 on July 24th 2023.
- PJM Released latest updated basecase and information files on July 3rd 2023
- Window will focus on resolving reliability constraints outside the area currently covered by the 2022 RTEP W3 scope.
- 60 Day Window
- Targeting Feb 2024 board approval – Oct, Nov and Dec TEAC for solutions.

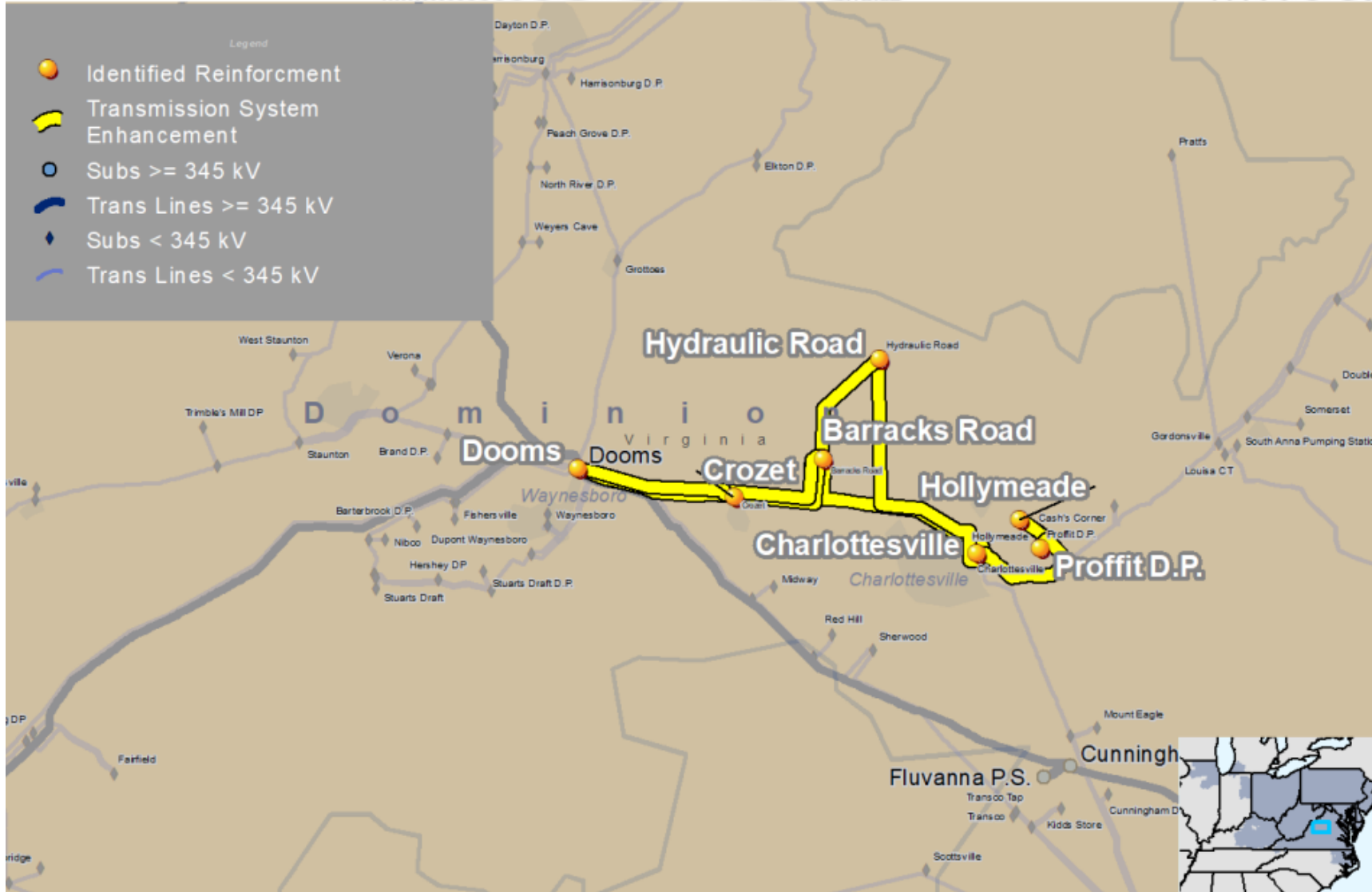
TPL-001-5

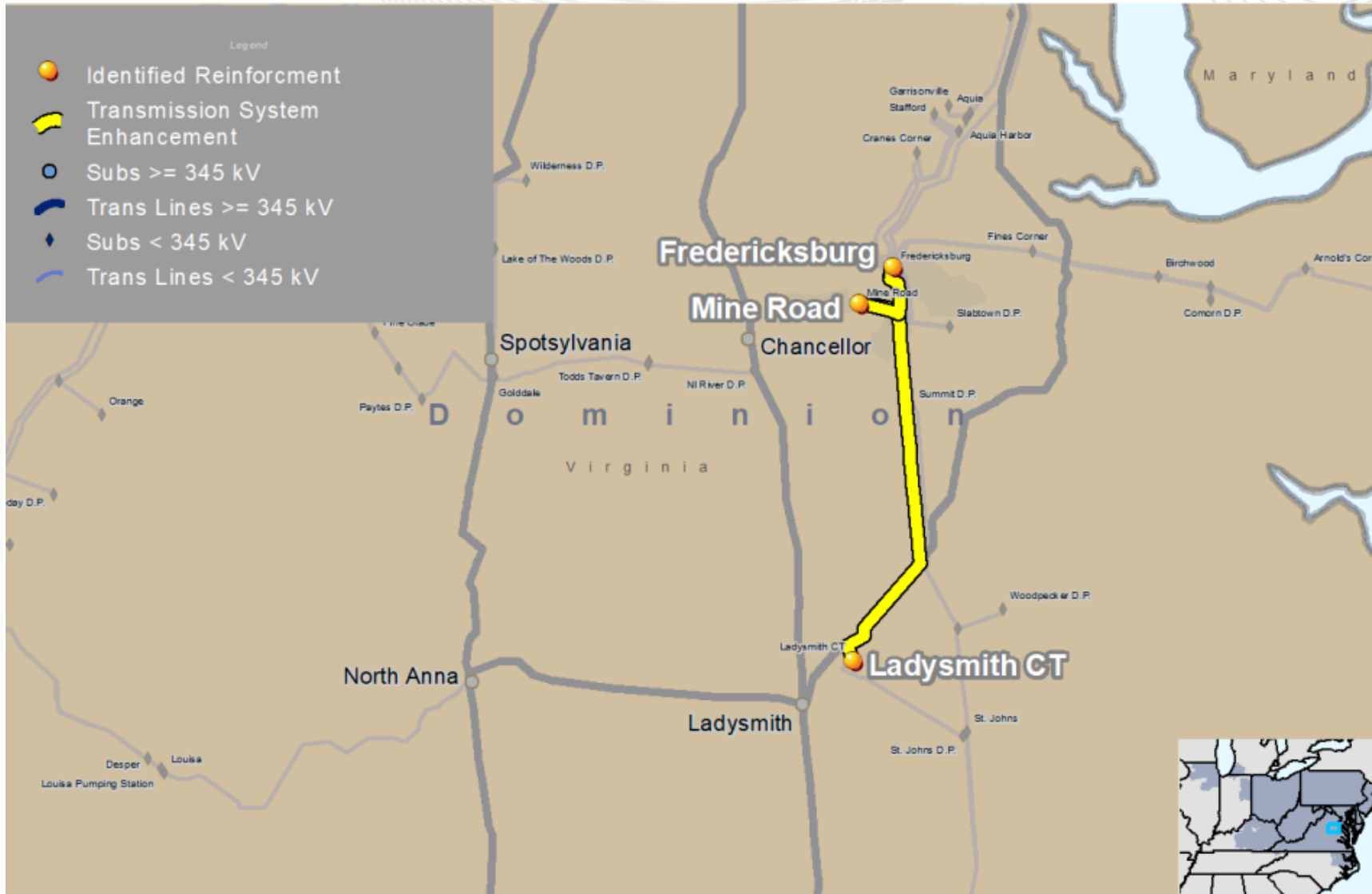
Timeline and Status Update

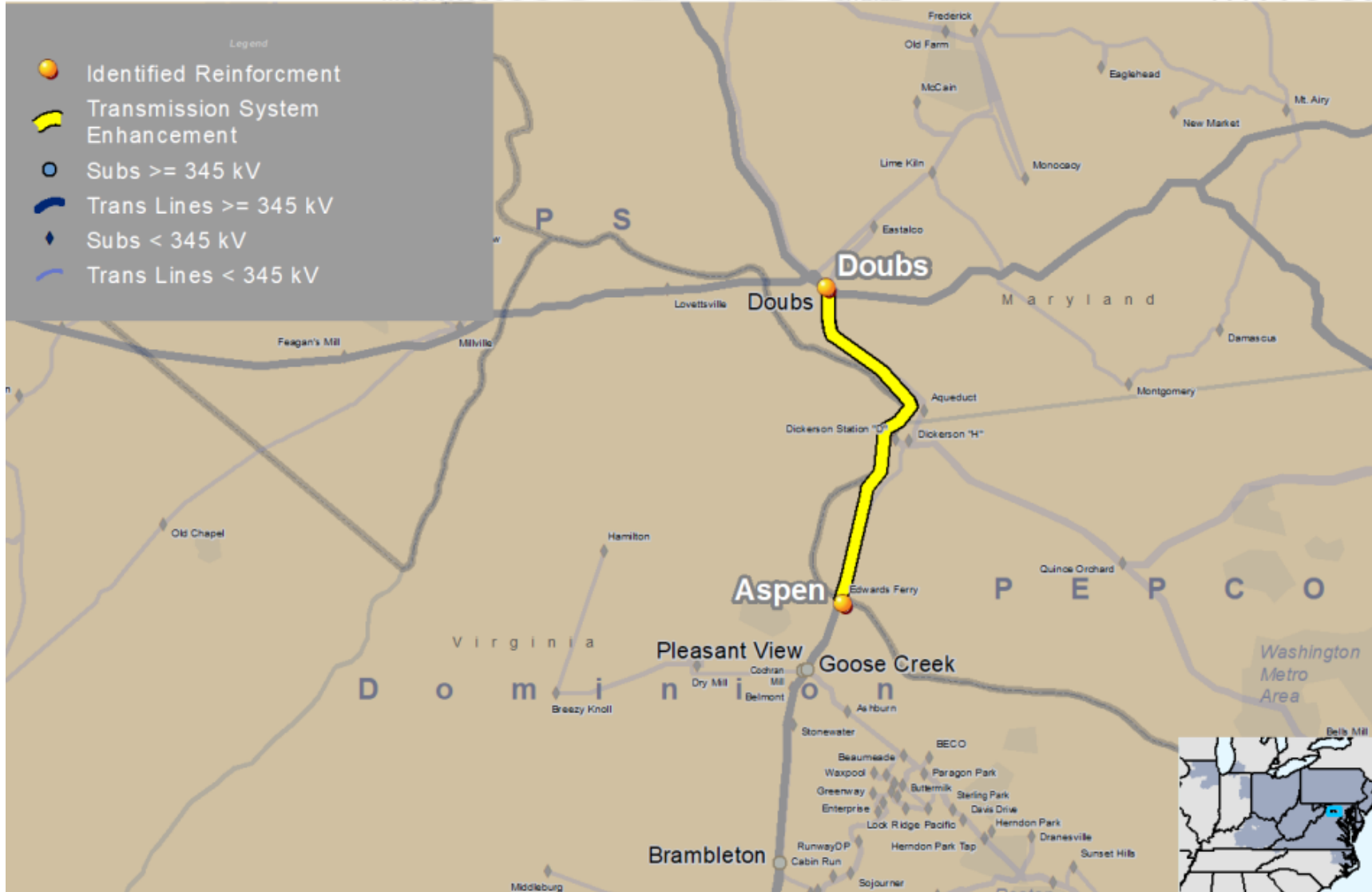
- FERC Order issued approving TPL-001-5.1 on 6/10/2020
- TPL-001-5.1 becomes effective 7/1/2023
 - First annual Planning Assessment to be completed in accordance with the standard but without Corrective Action Plans (CAPs) for revised P5 by 7/1/2023
- Additional 24-month period (7/1/2025) allows time for the development of CAPs for Category P5 planning events involving single points of failure in Protection Systems
- TPL-001-5.1 is fully enforceable by 7/1/2029
- PJM provided Transmission Planning Manual 14B updates reflecting TPL-001-5 language and requirements to the PJM PC on July 6th

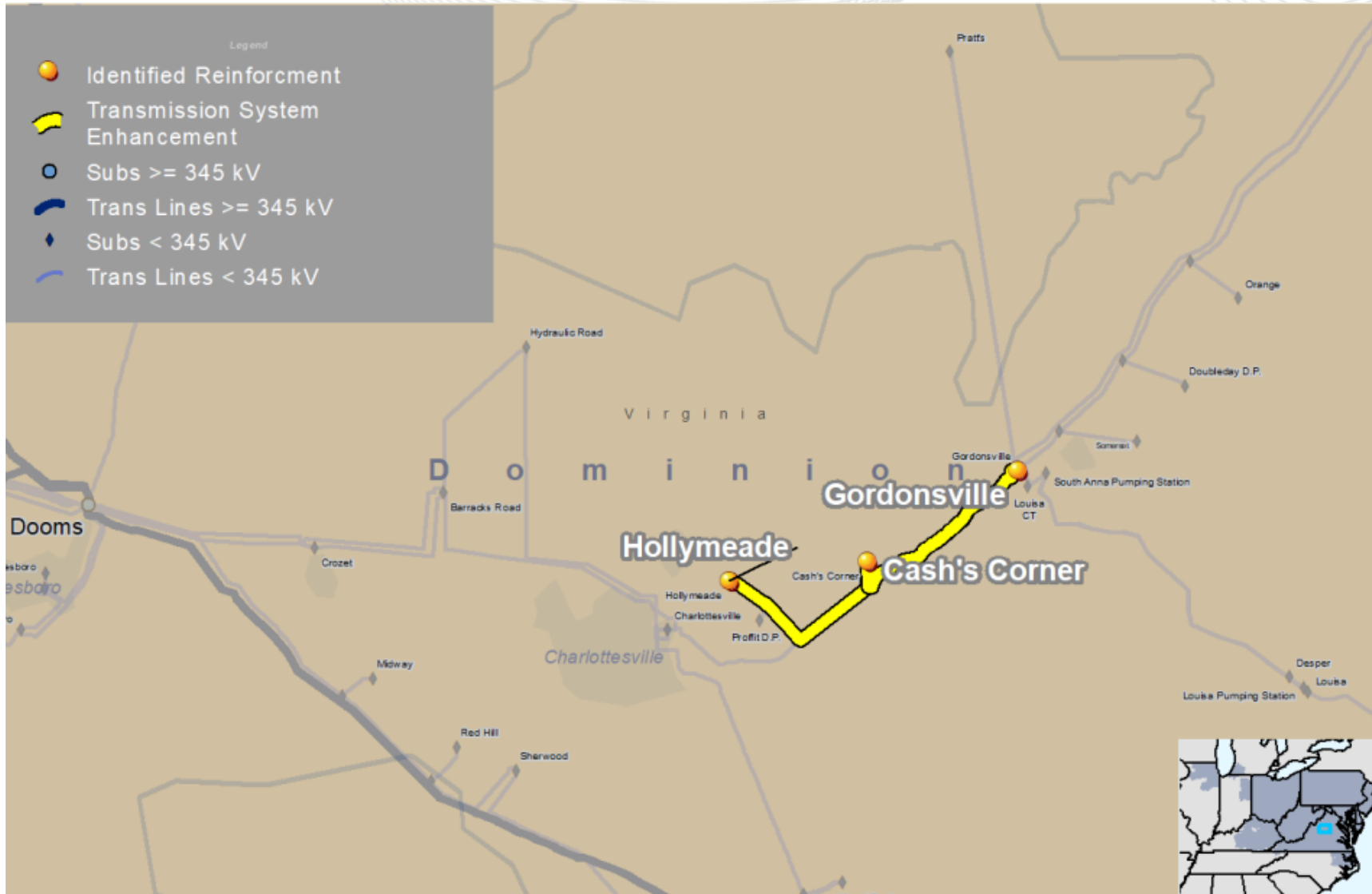
Appendix

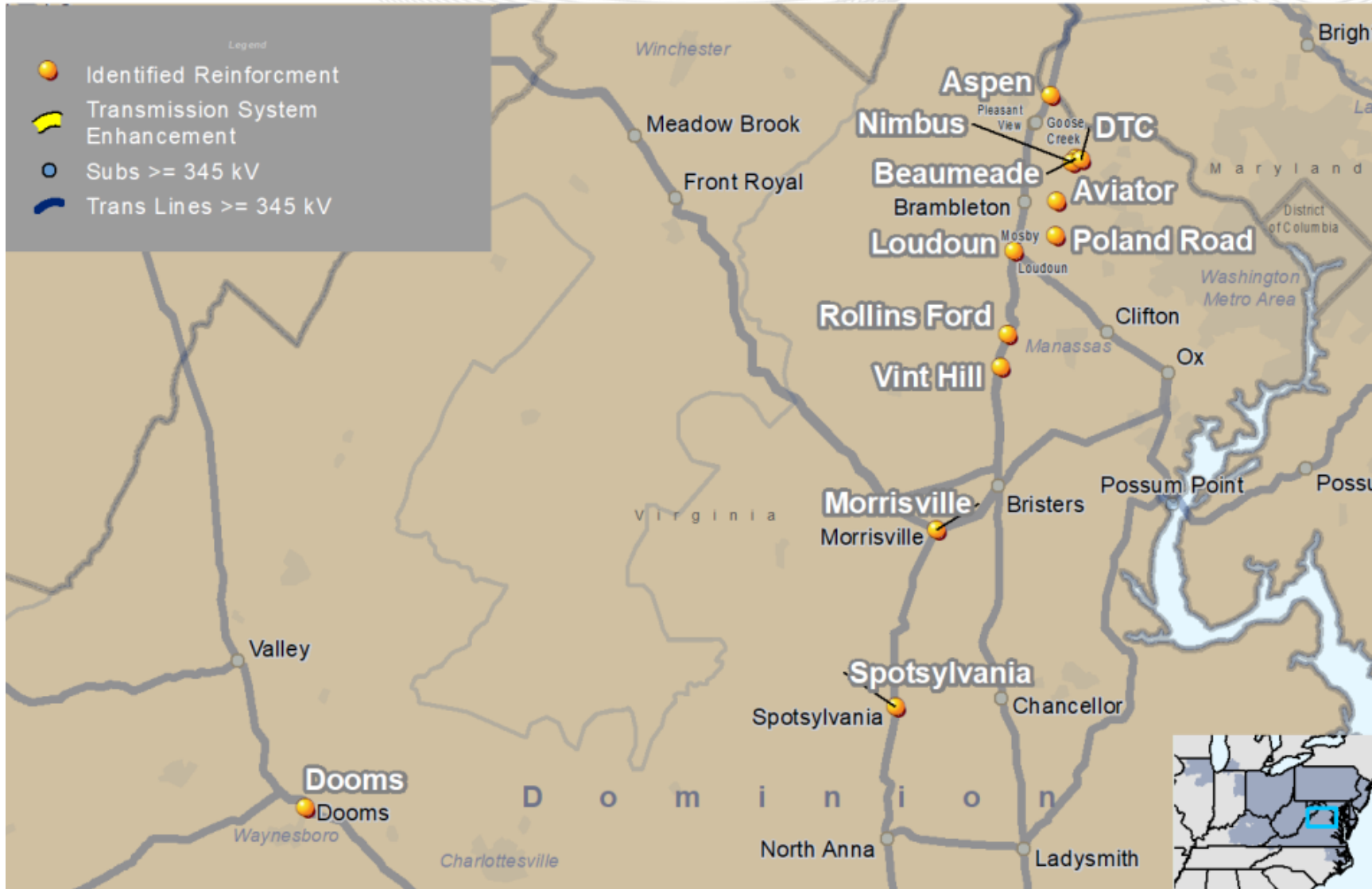
2022 RTEP W3 Proposals Maps

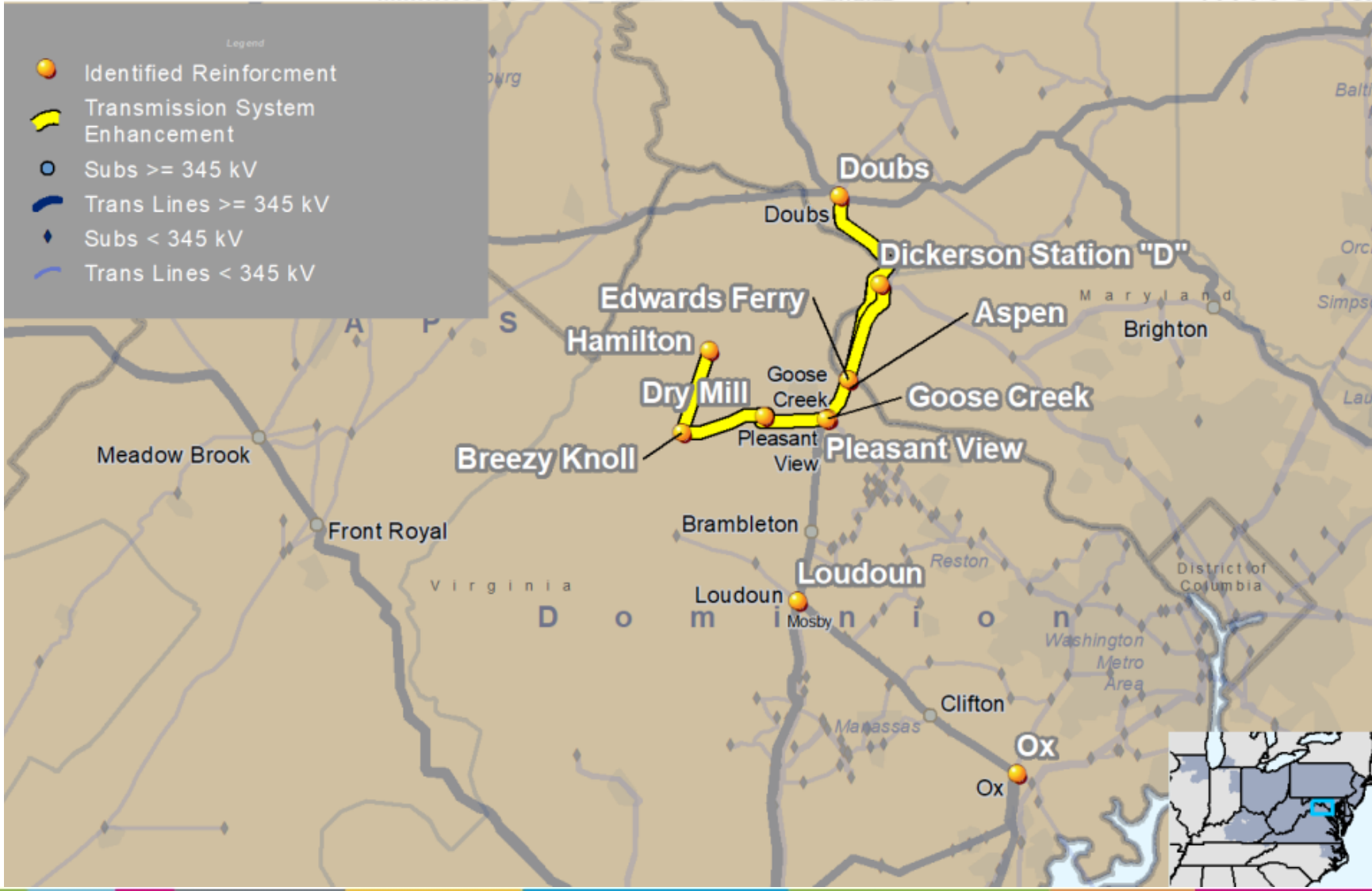


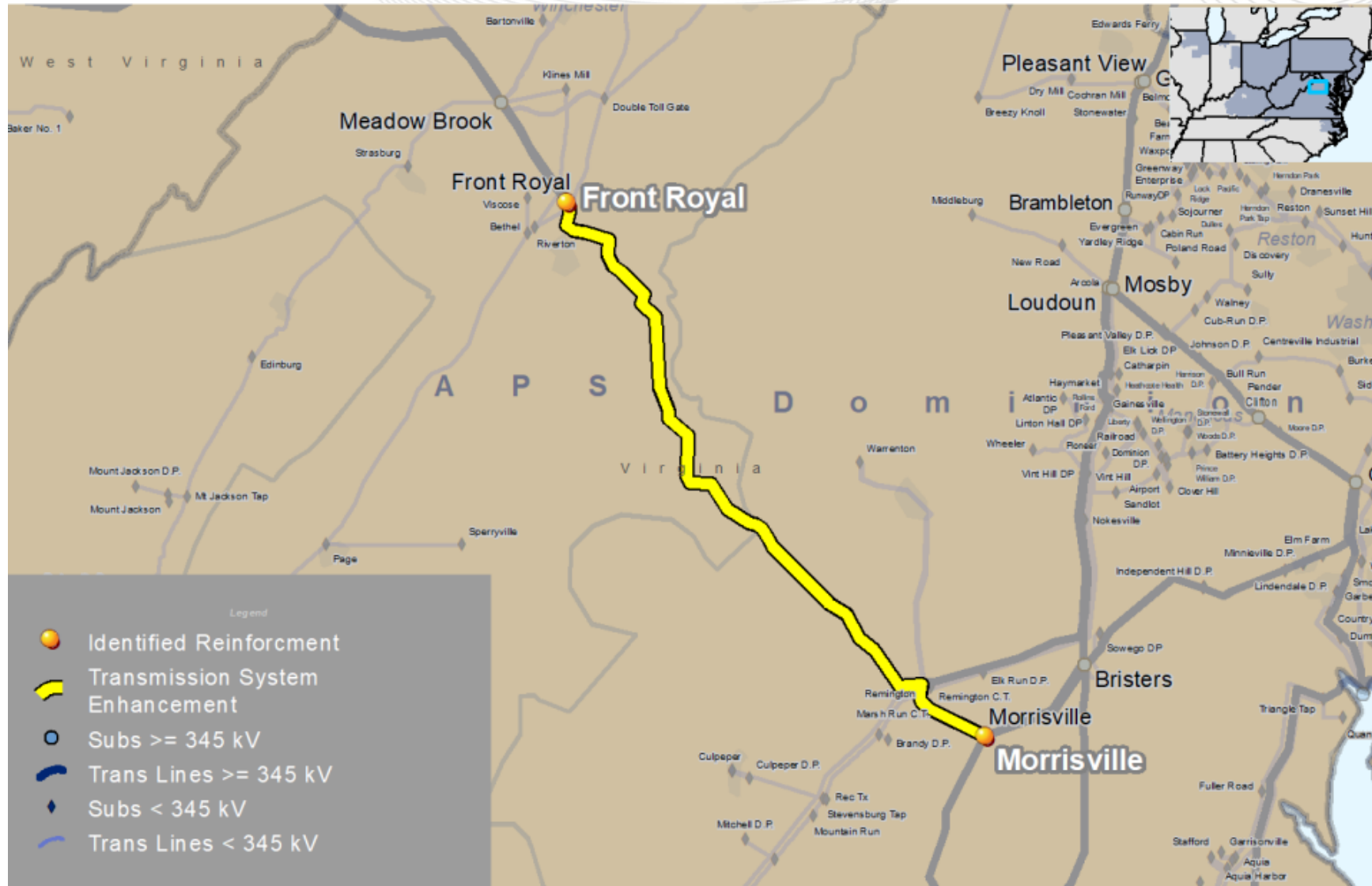


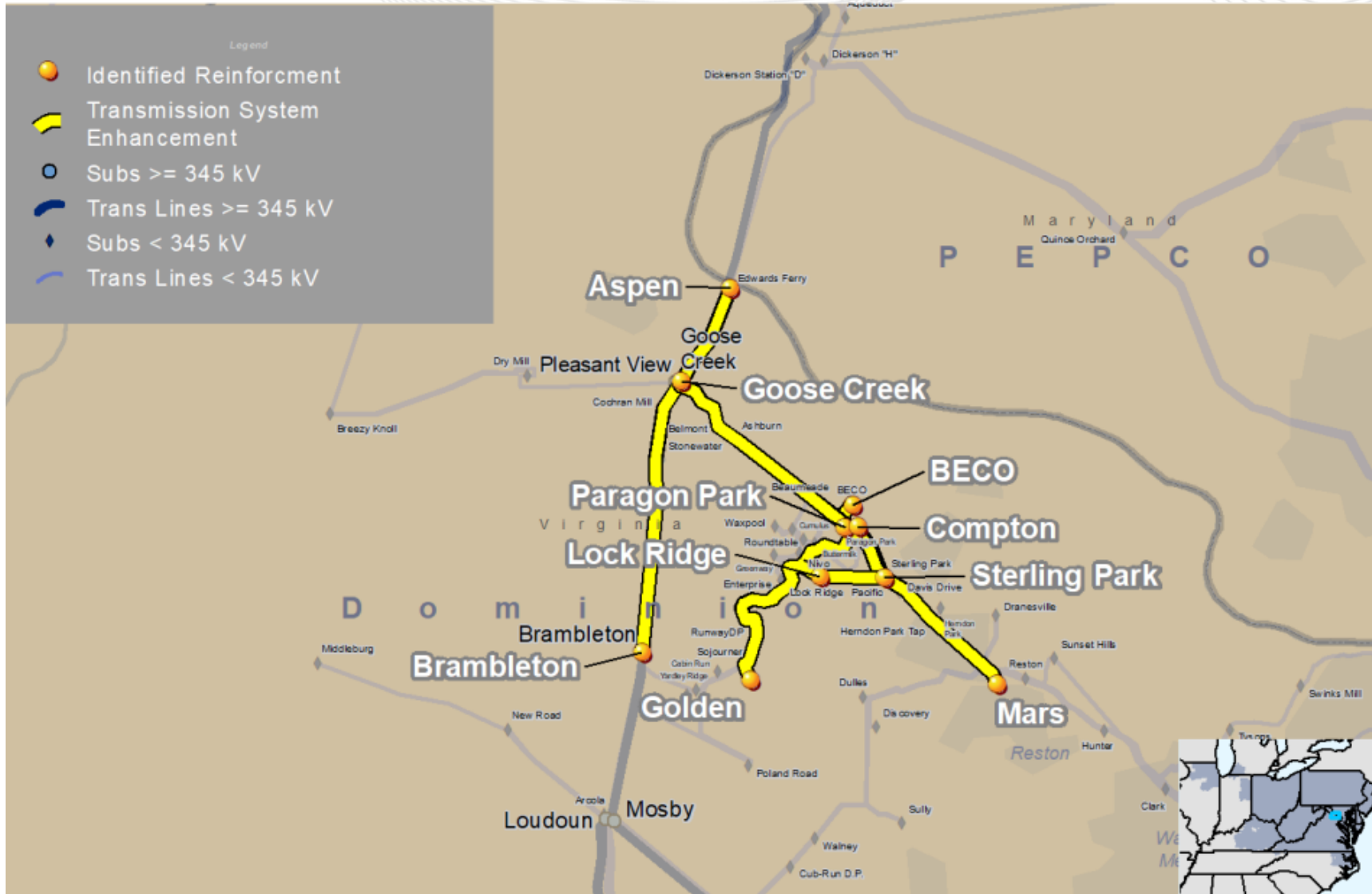


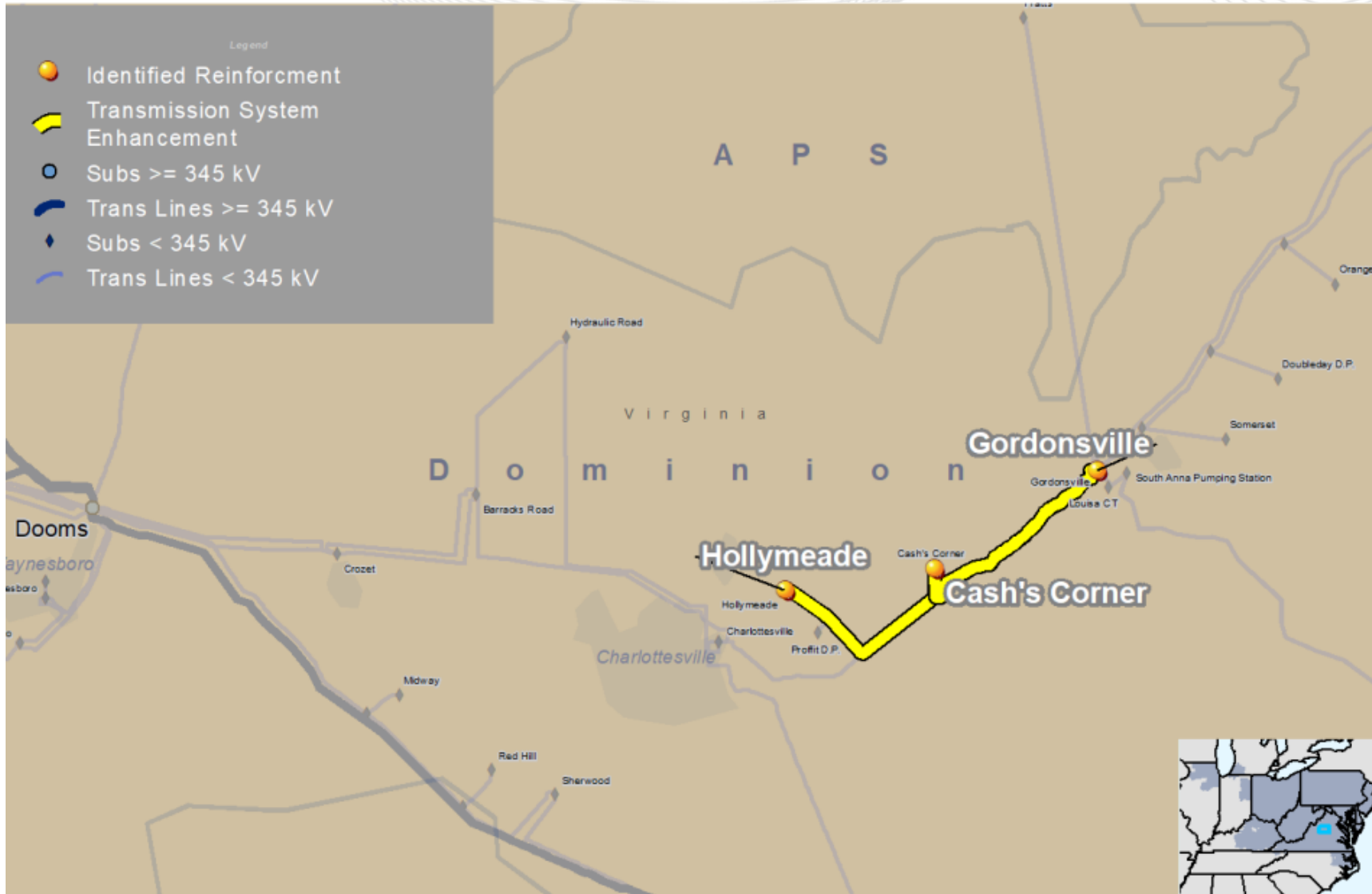




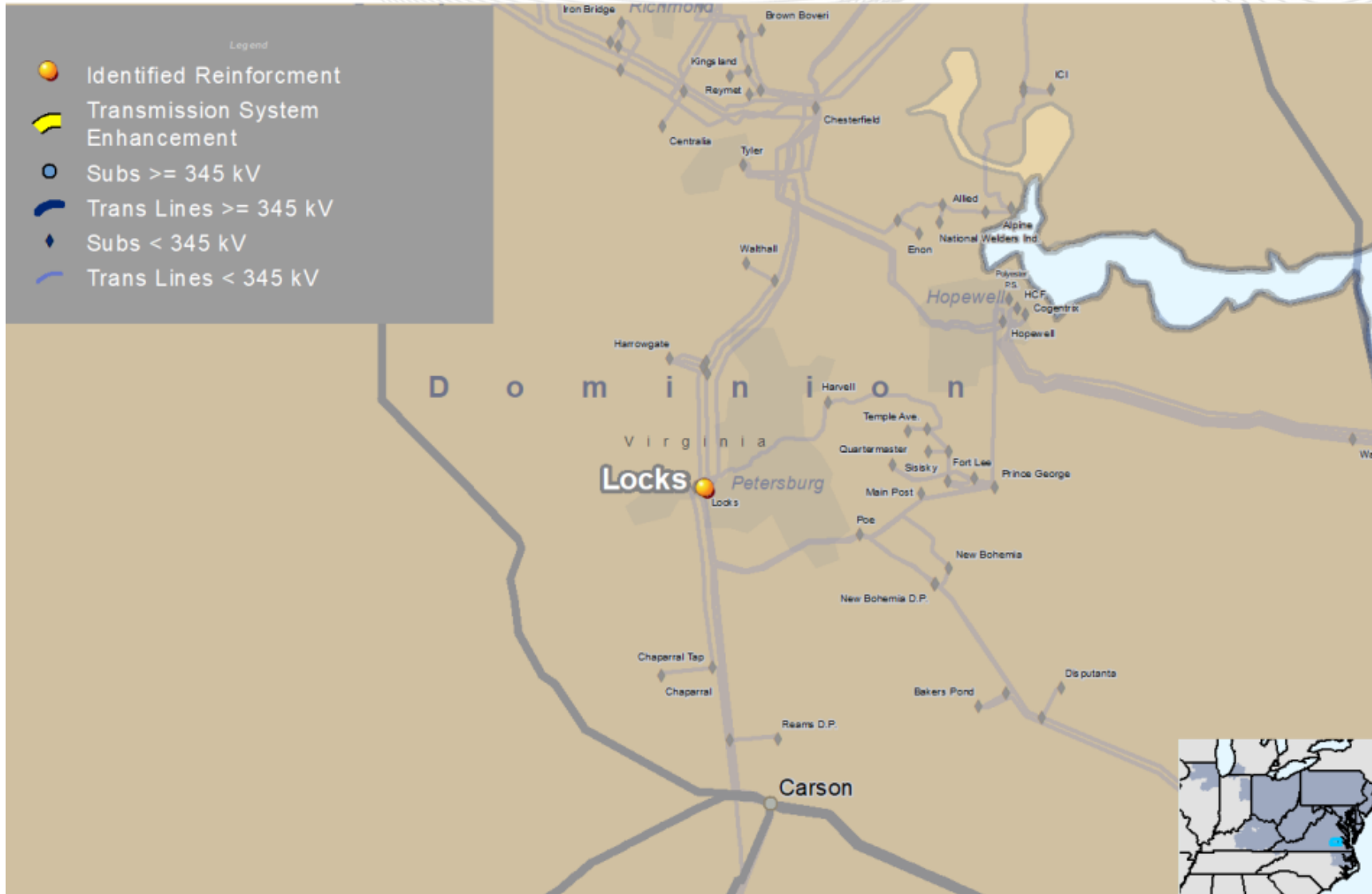


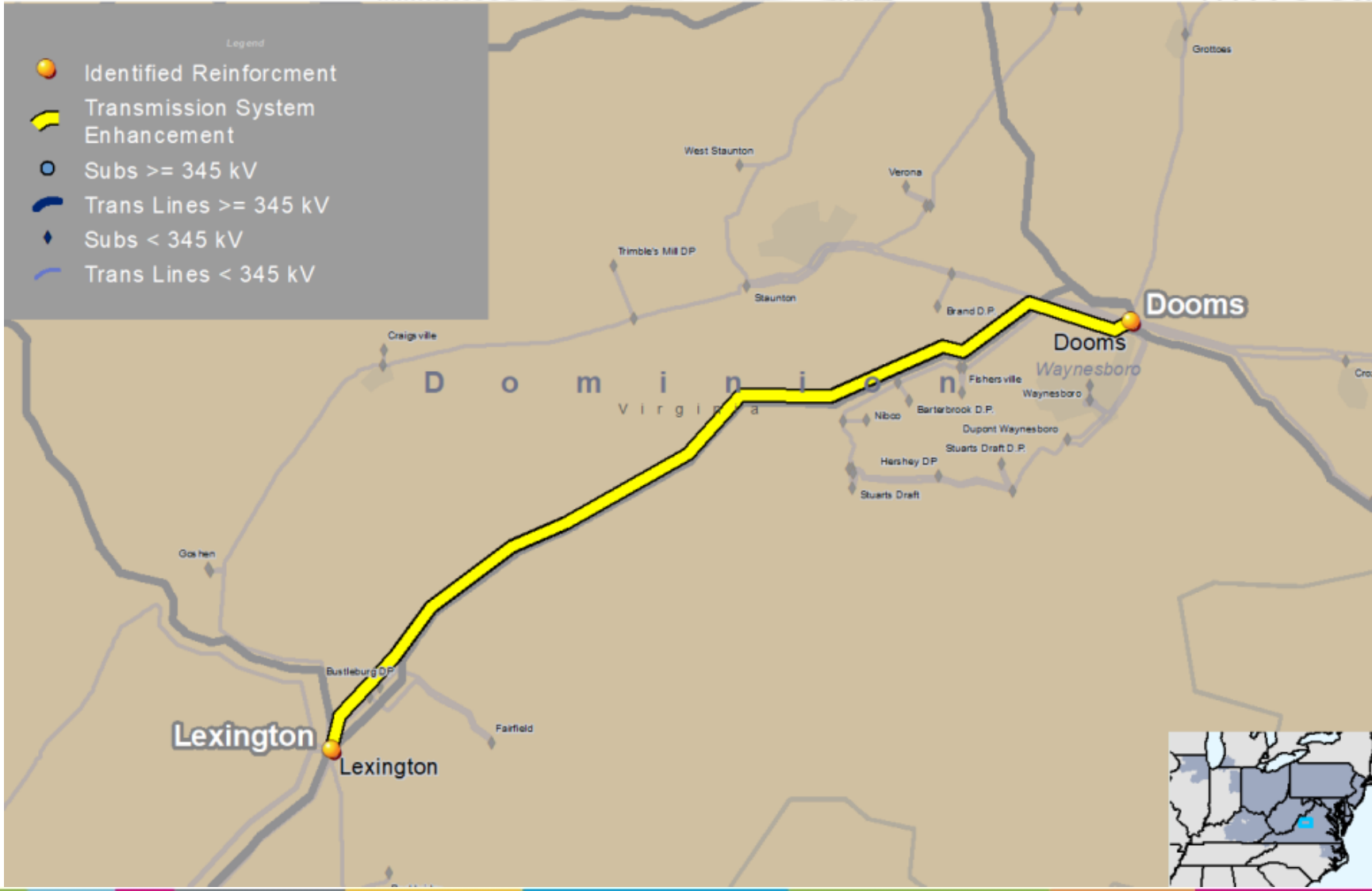


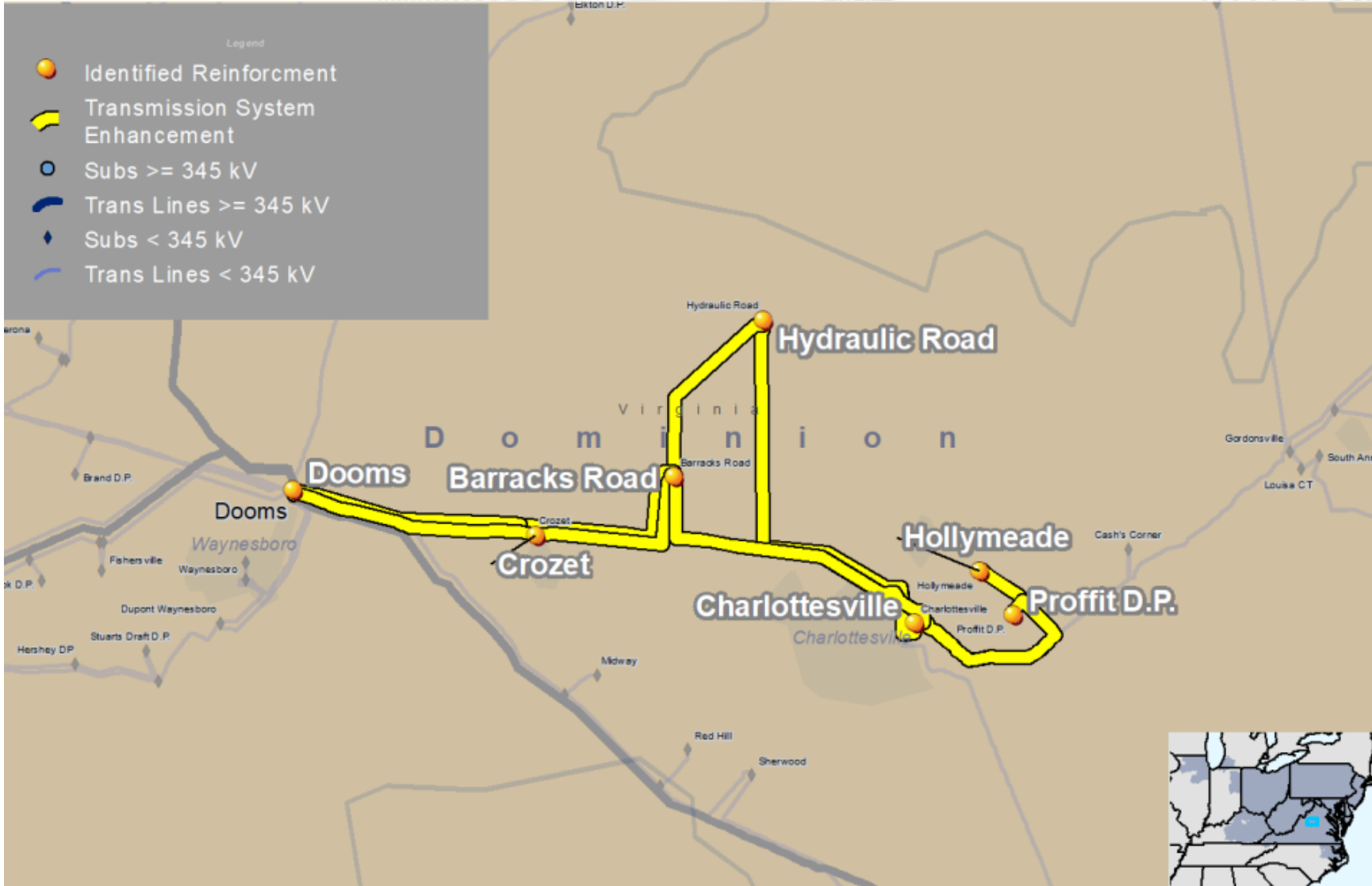


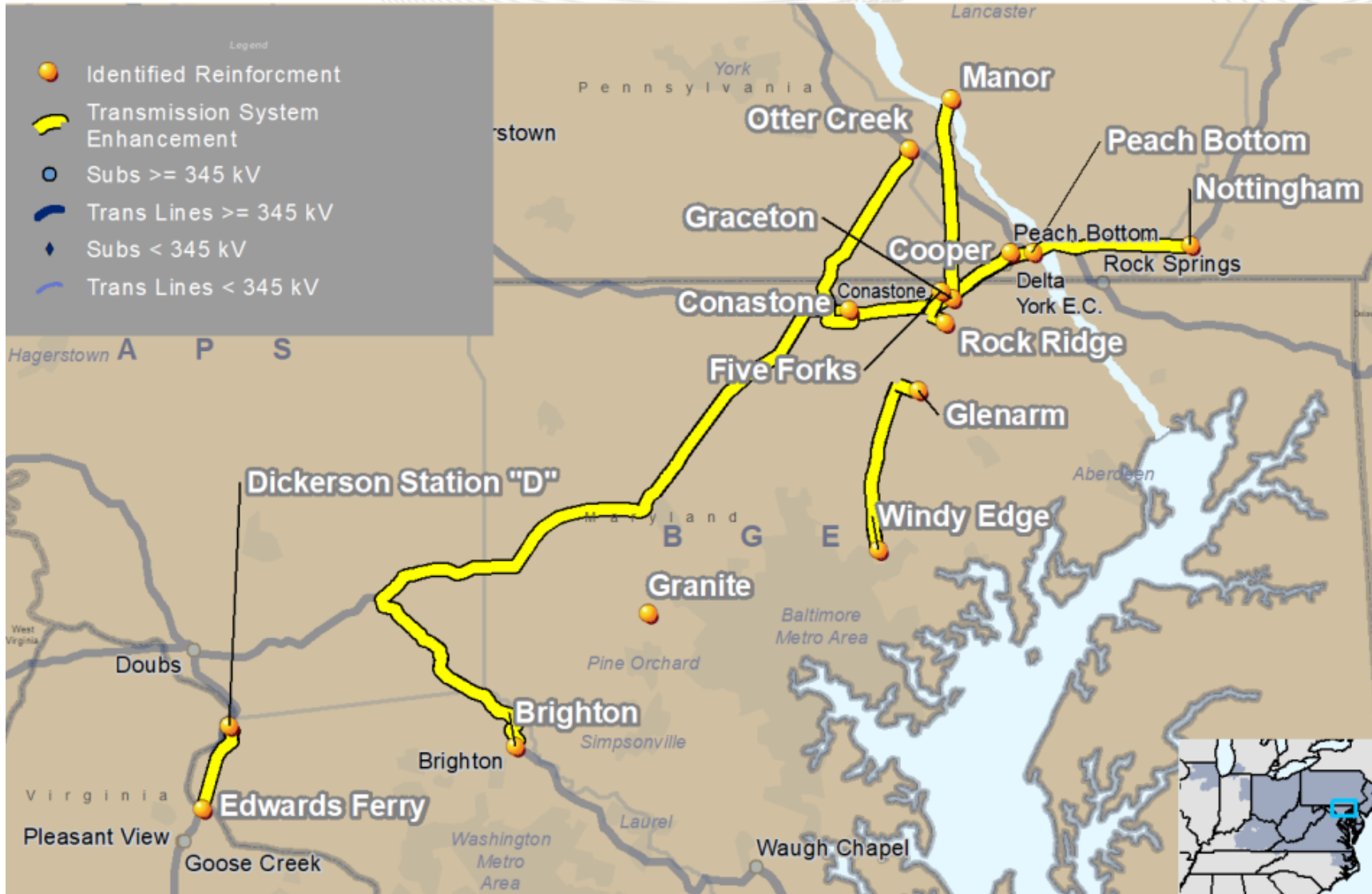


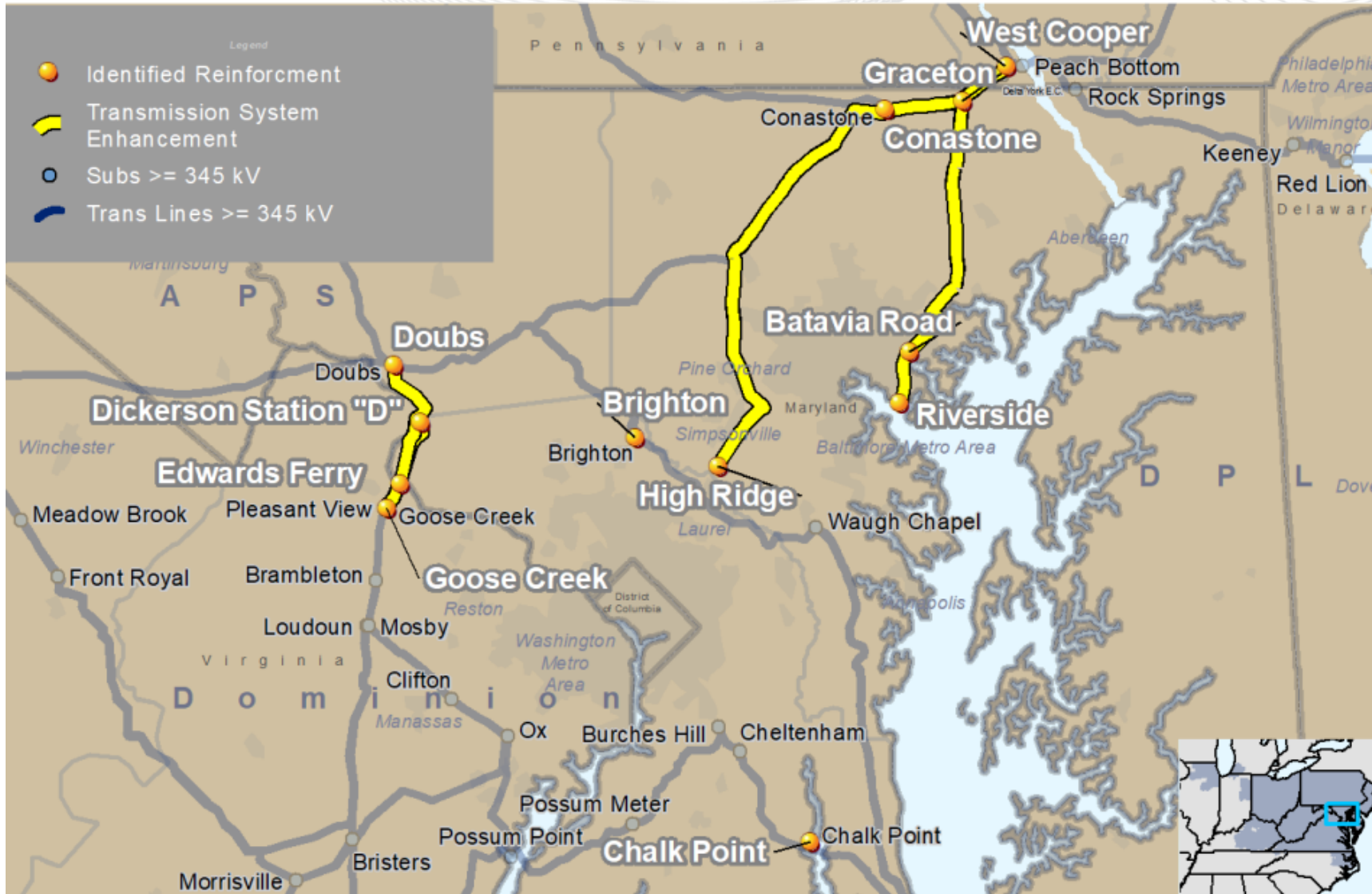


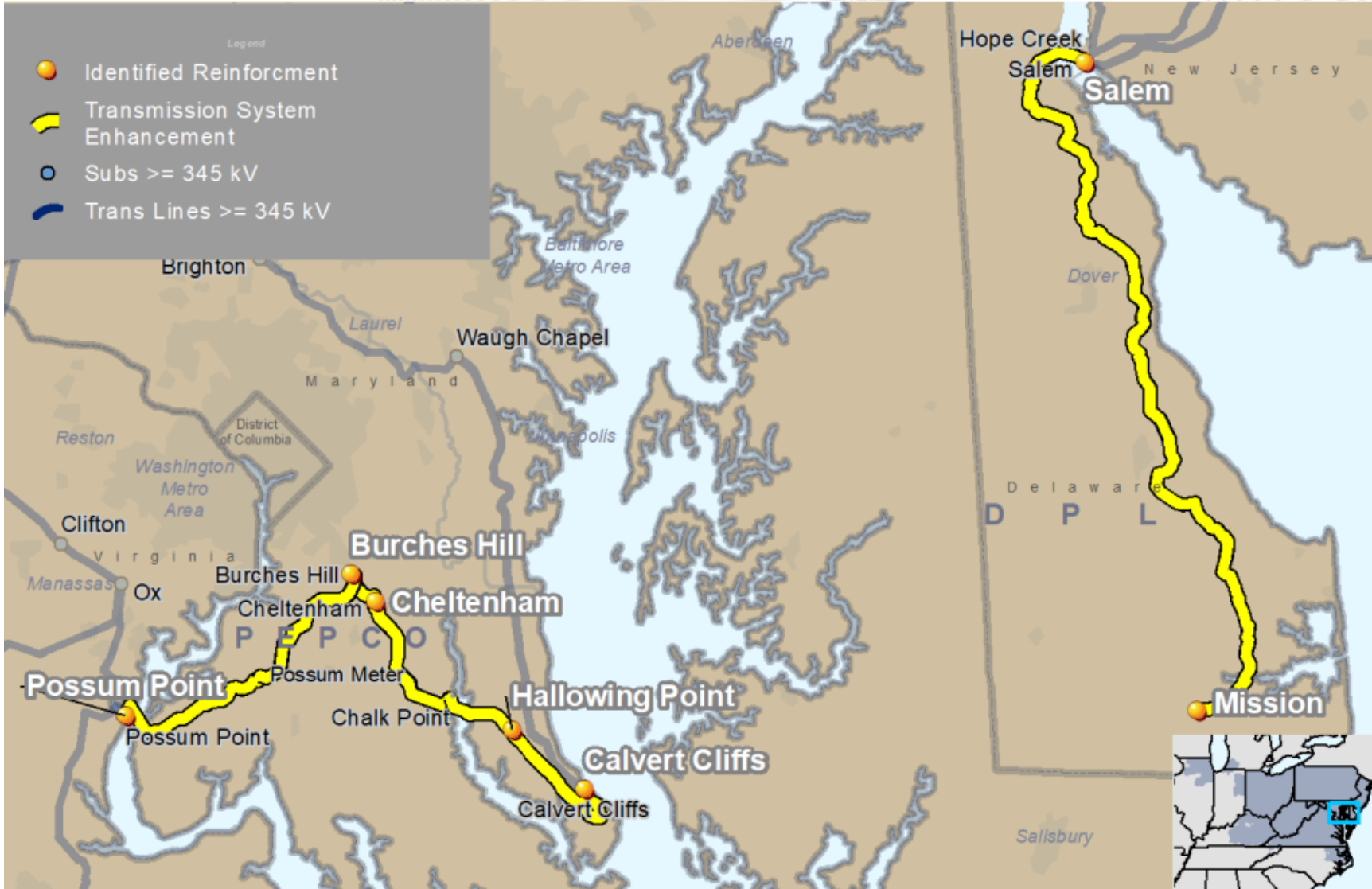


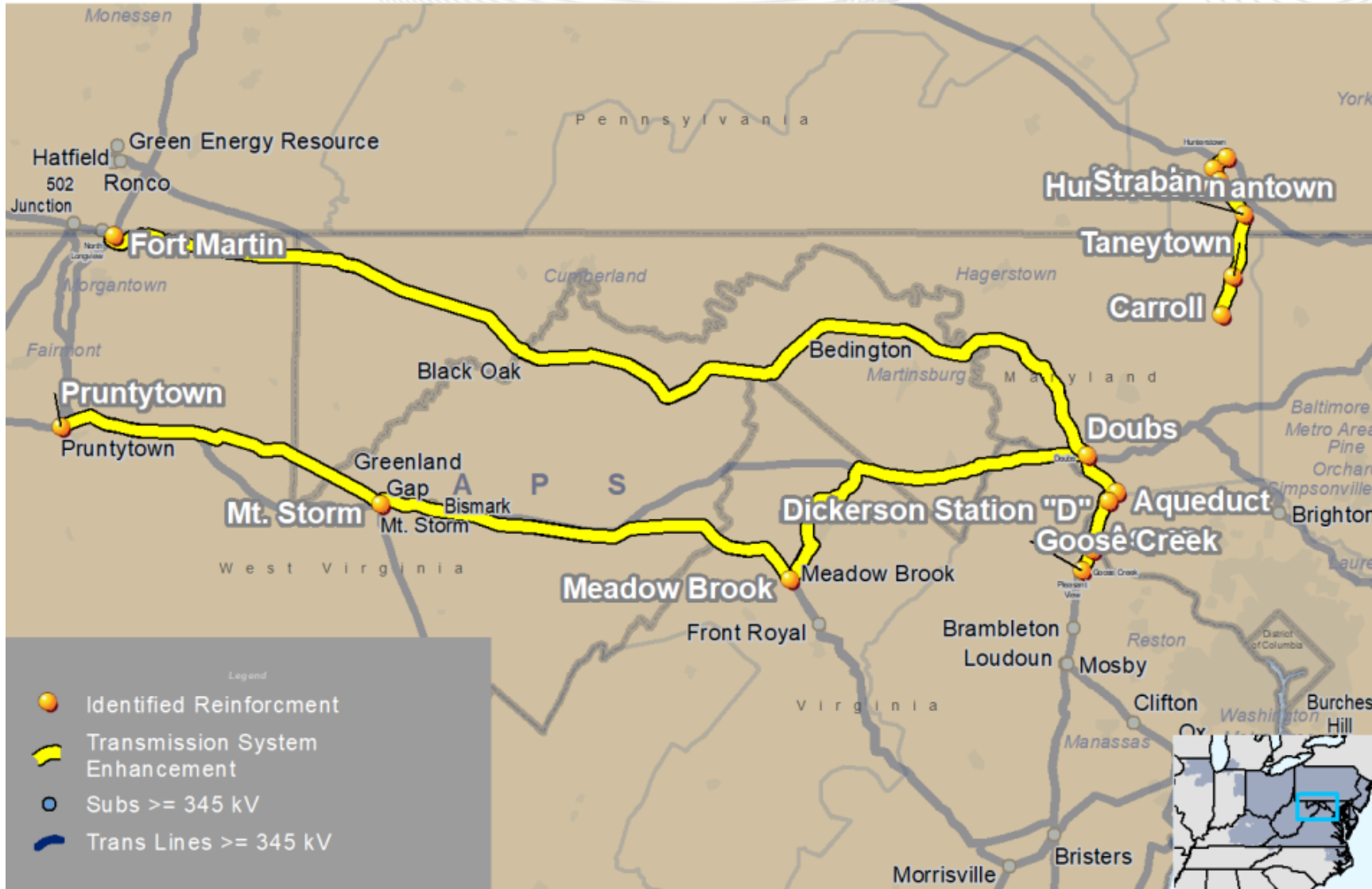


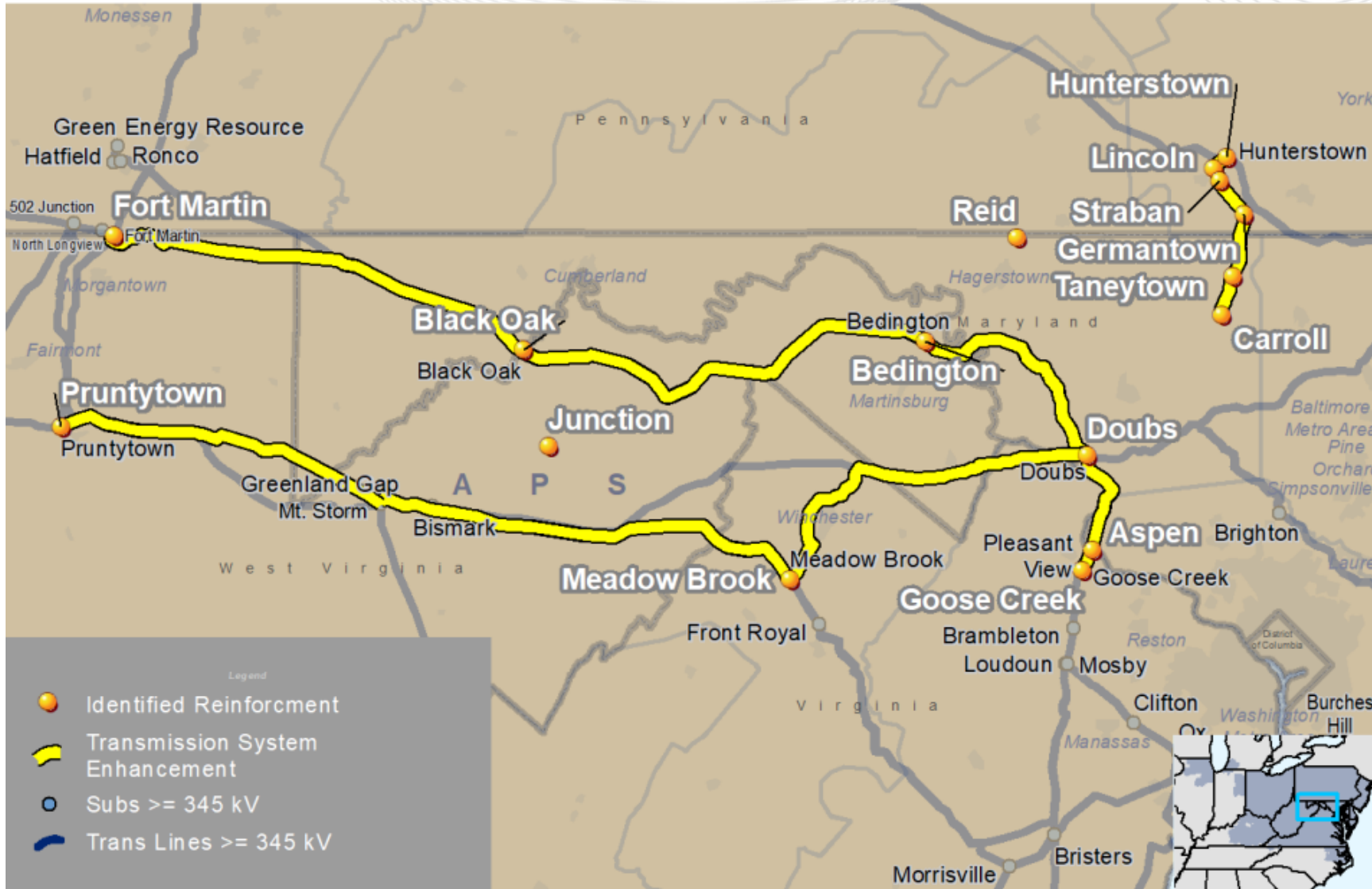


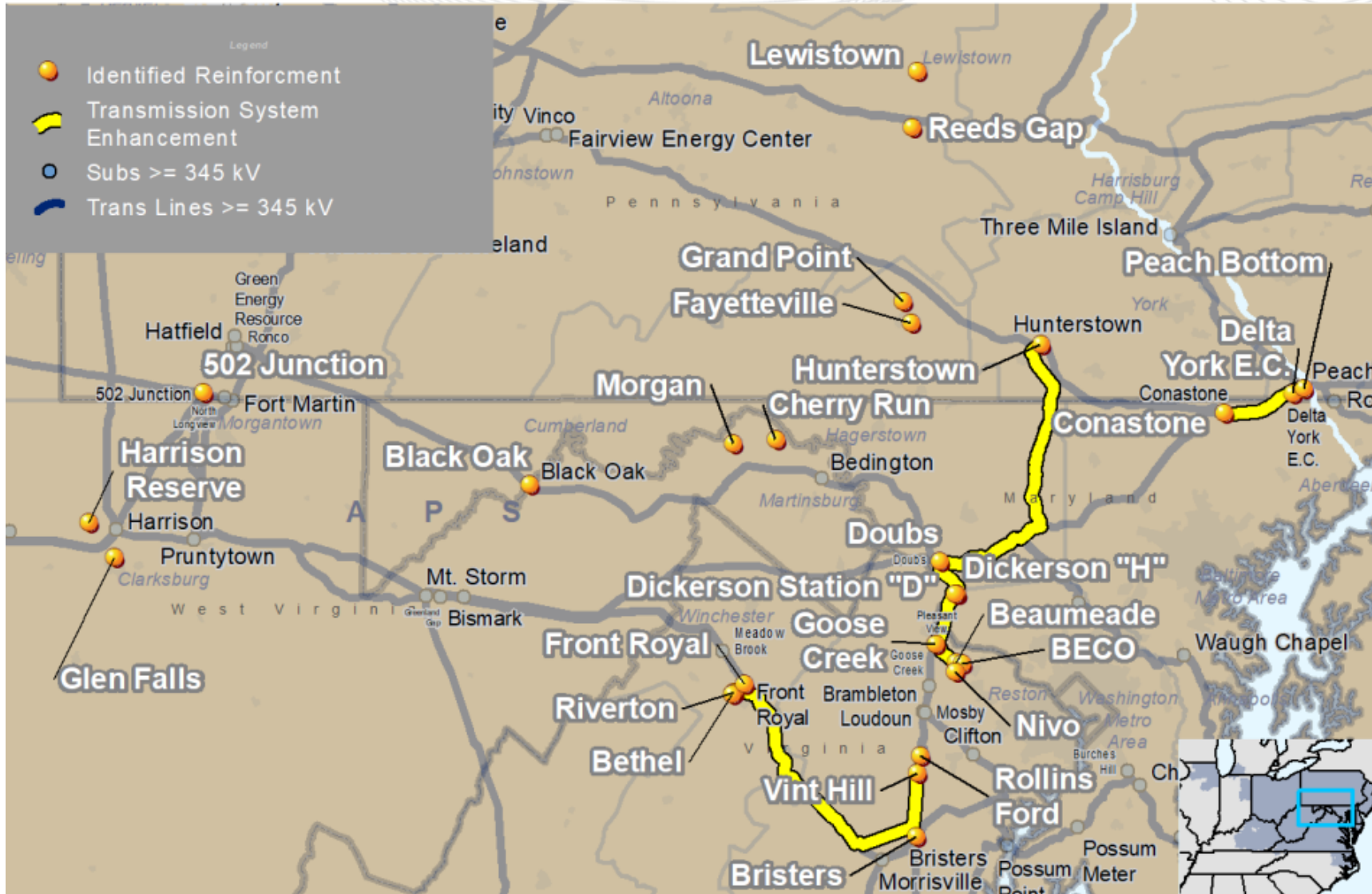


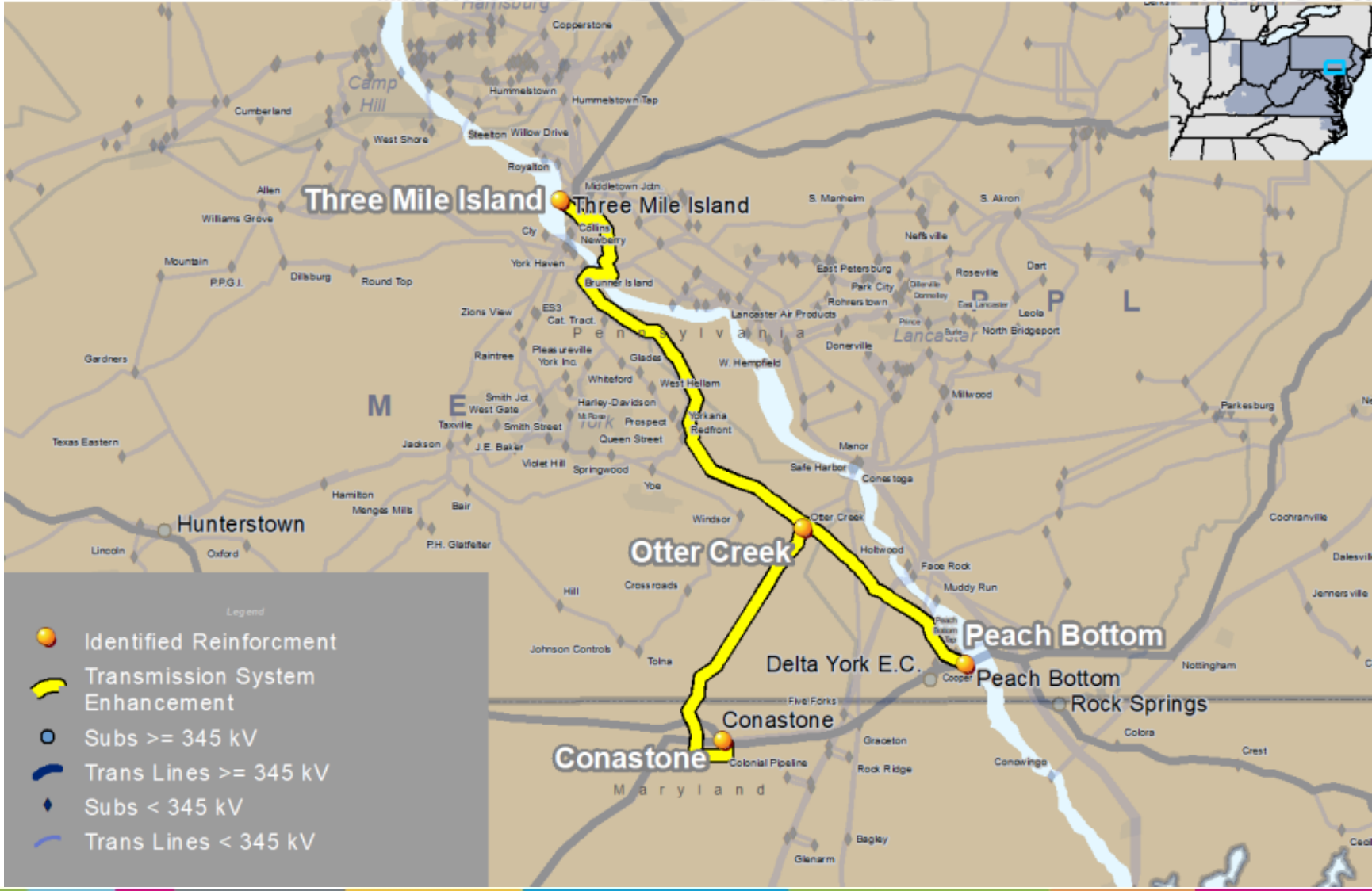


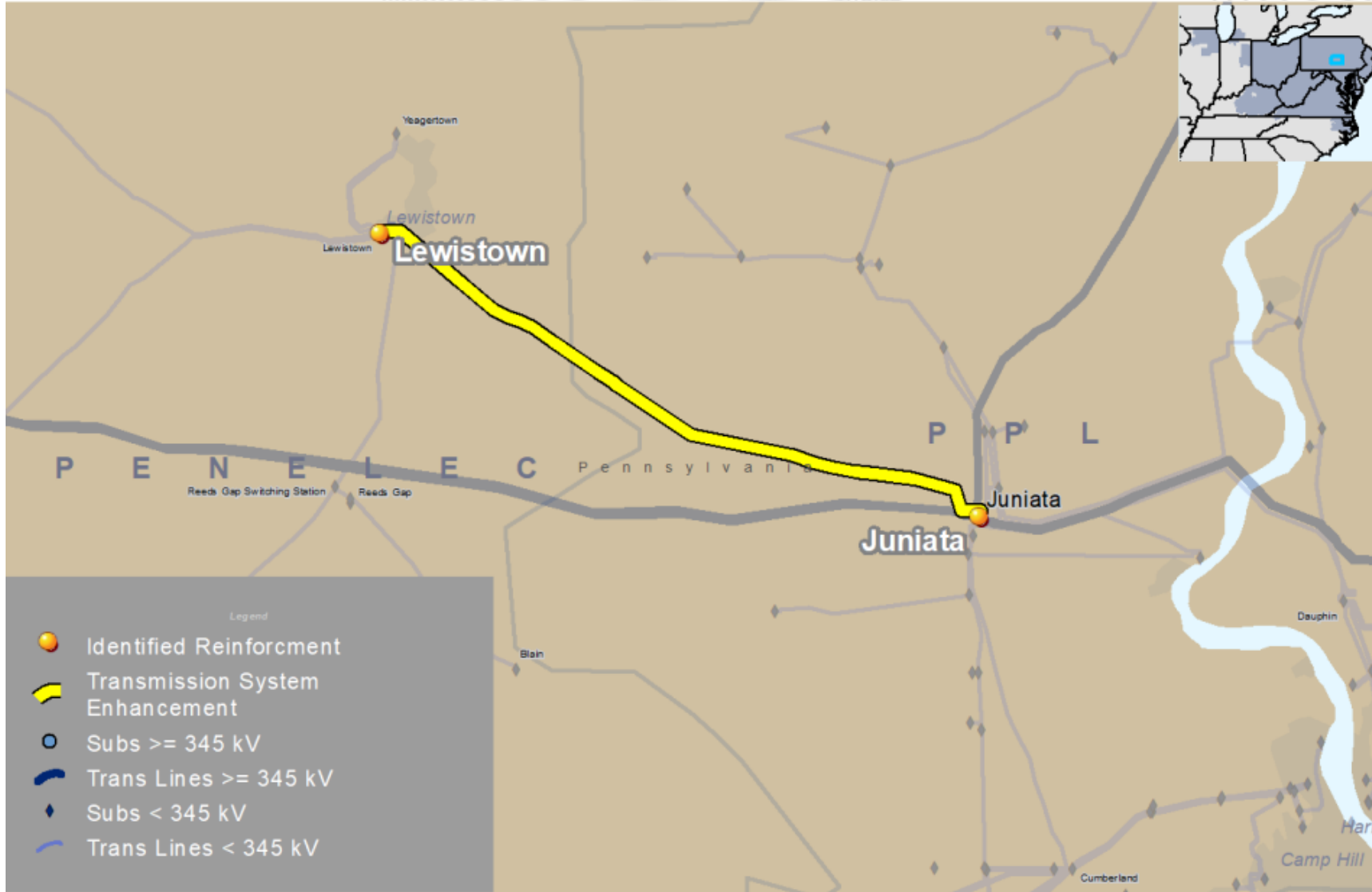


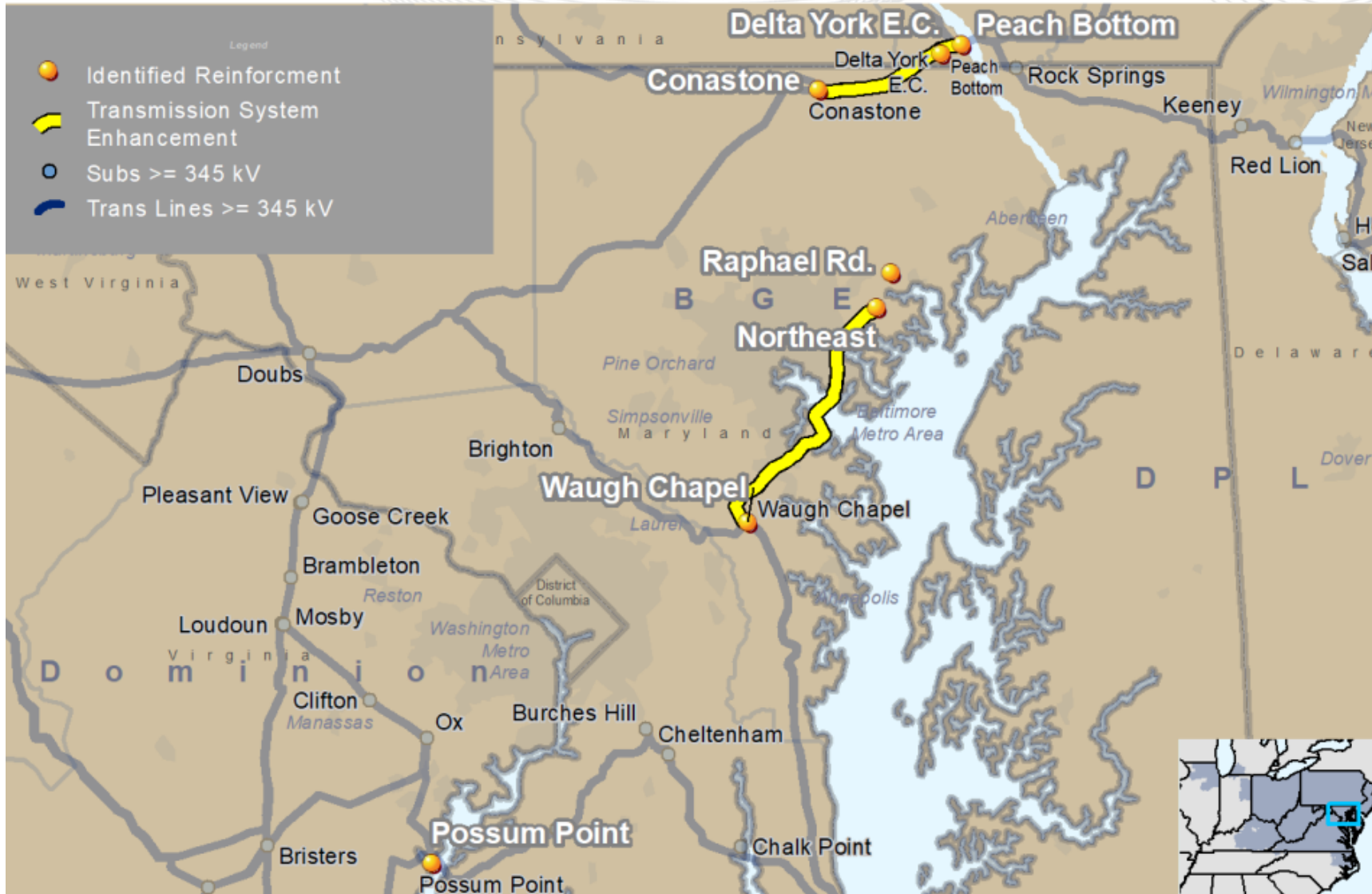


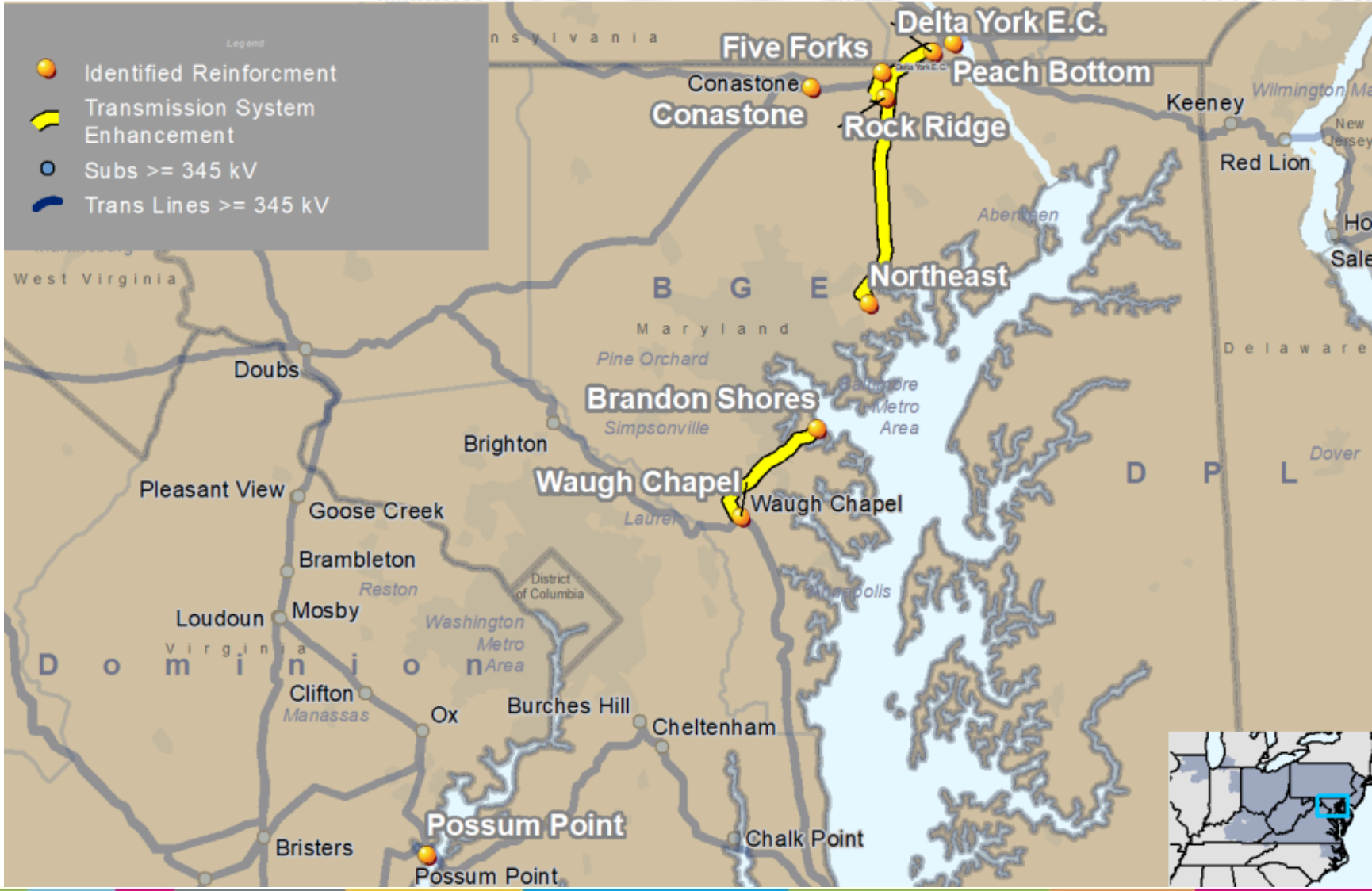


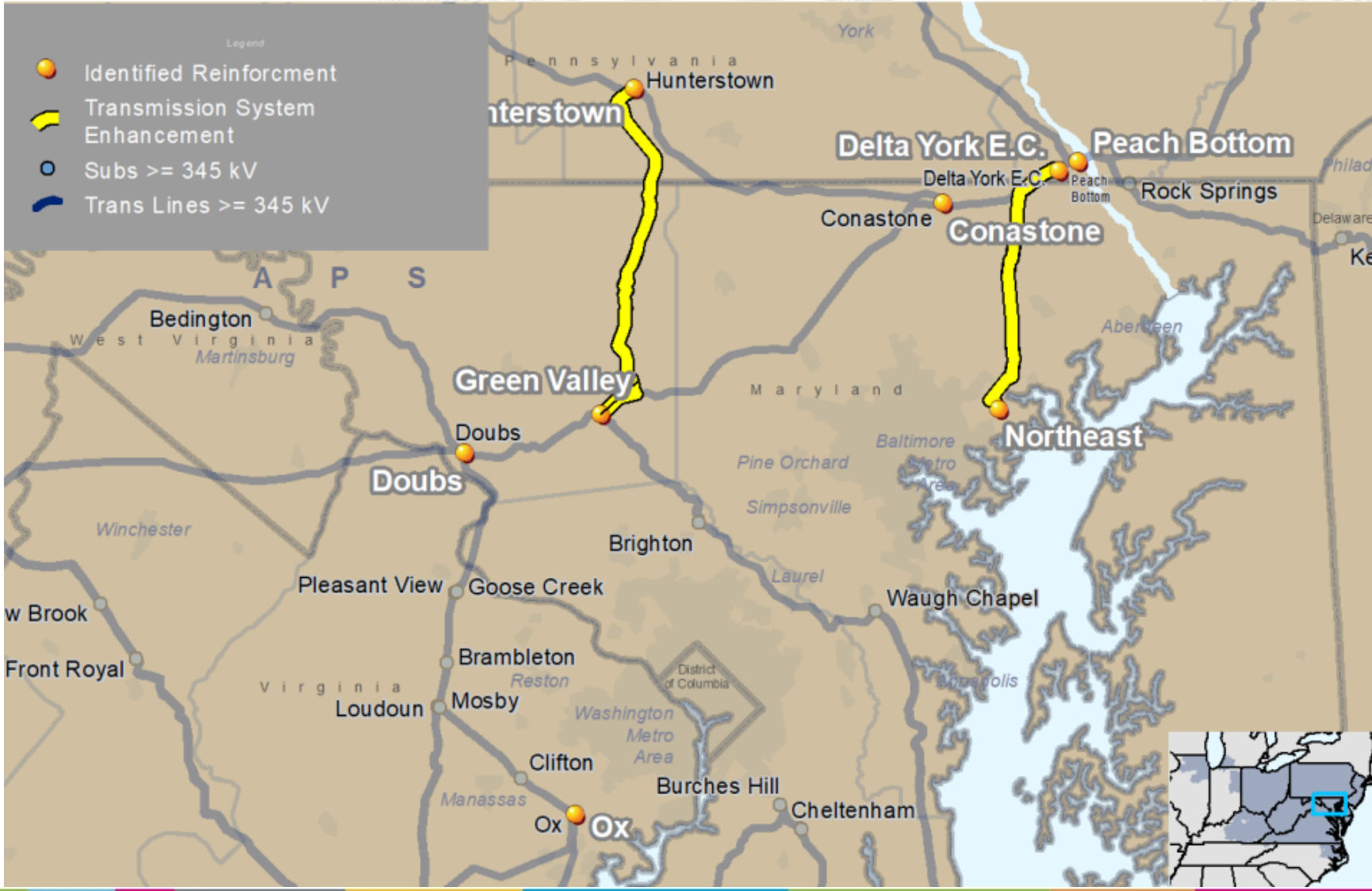


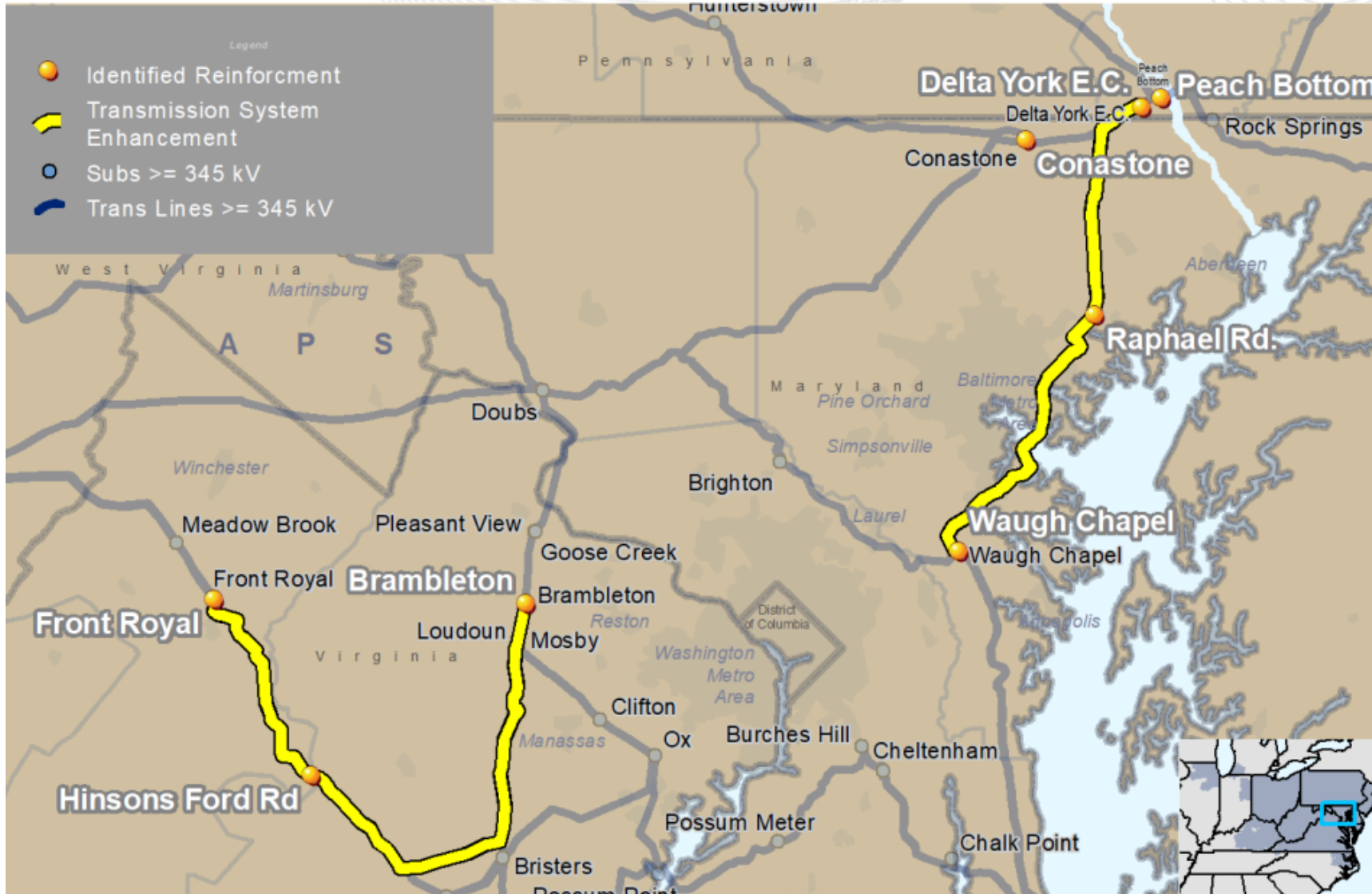


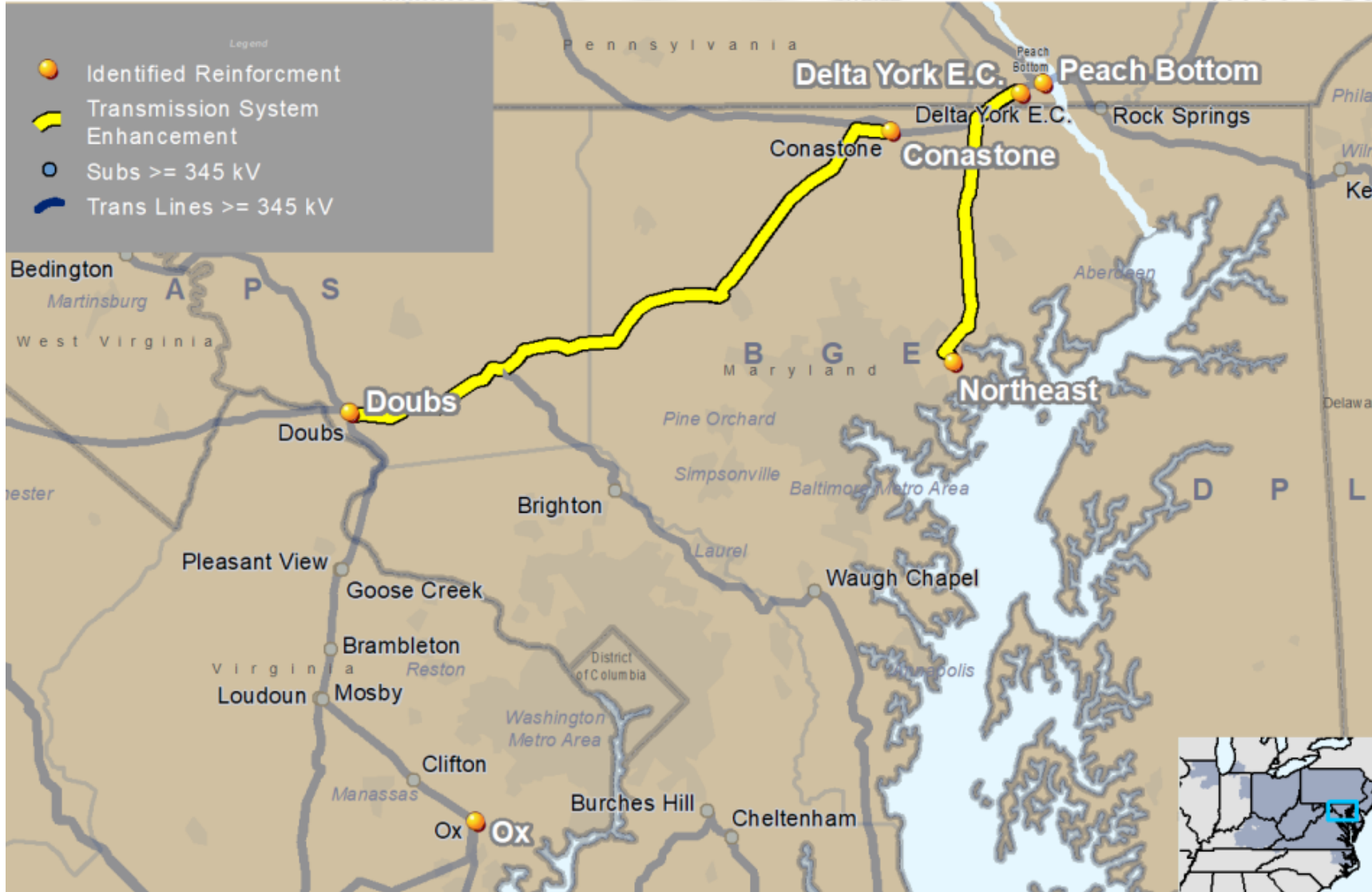


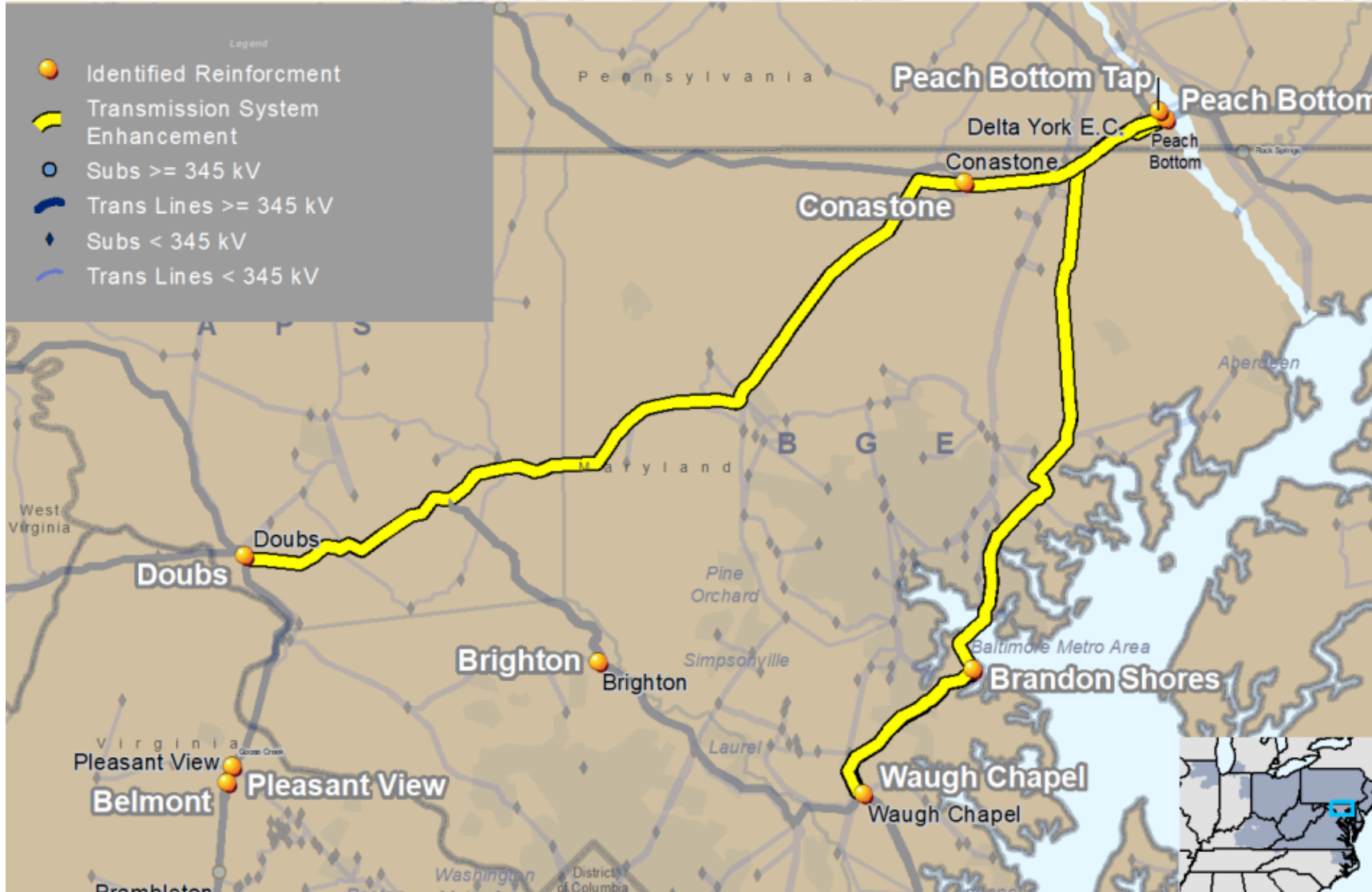


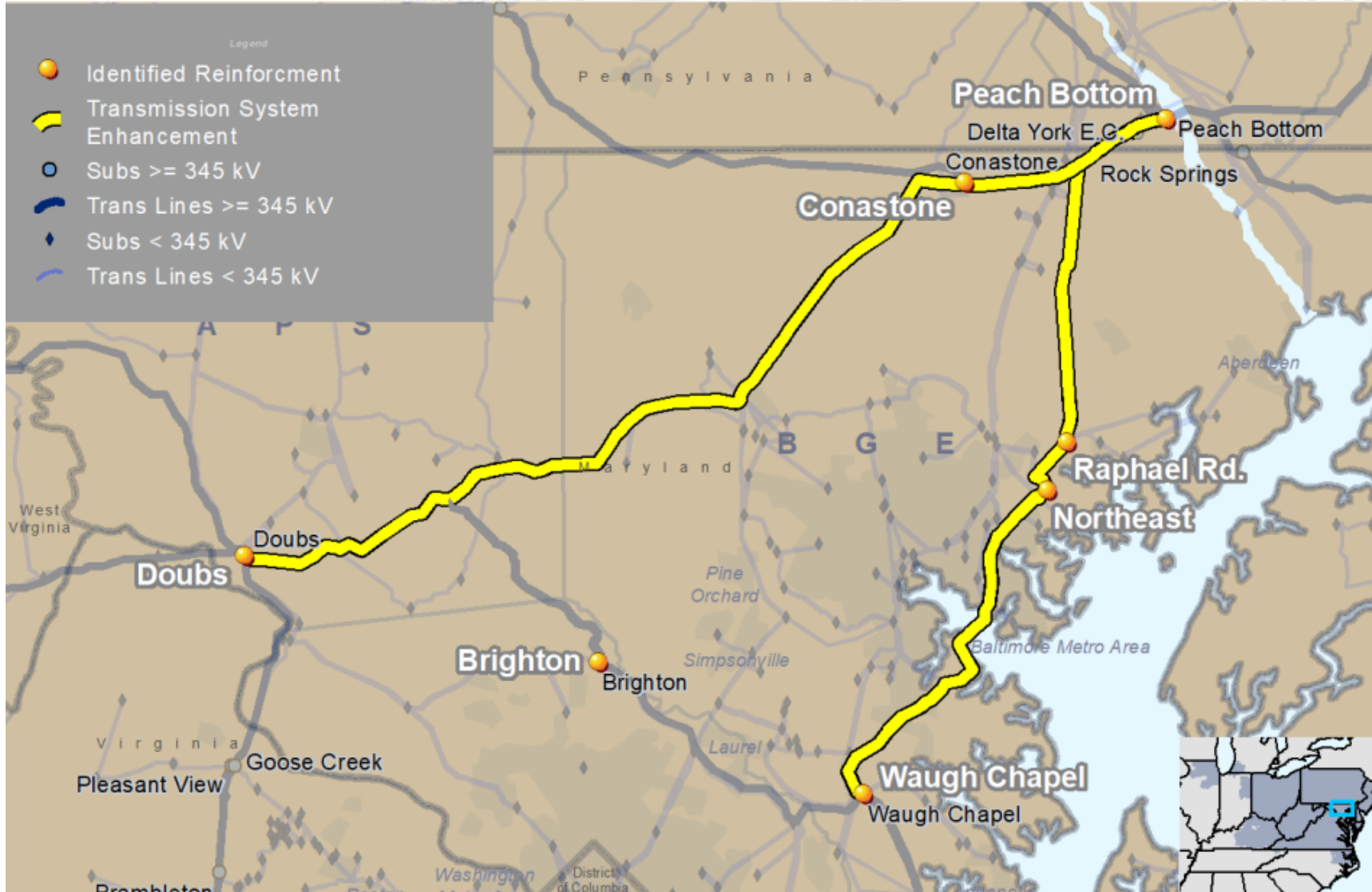


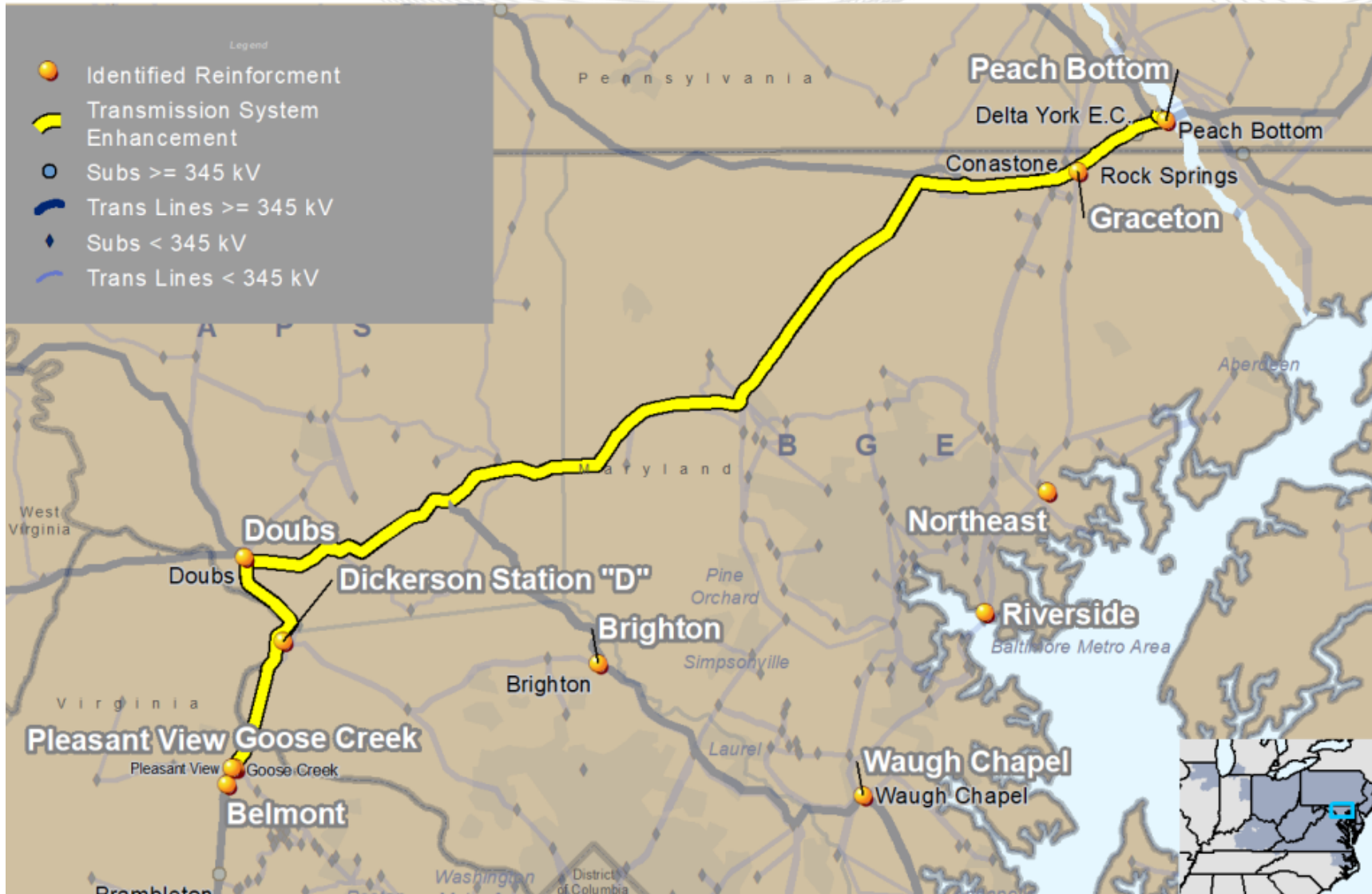


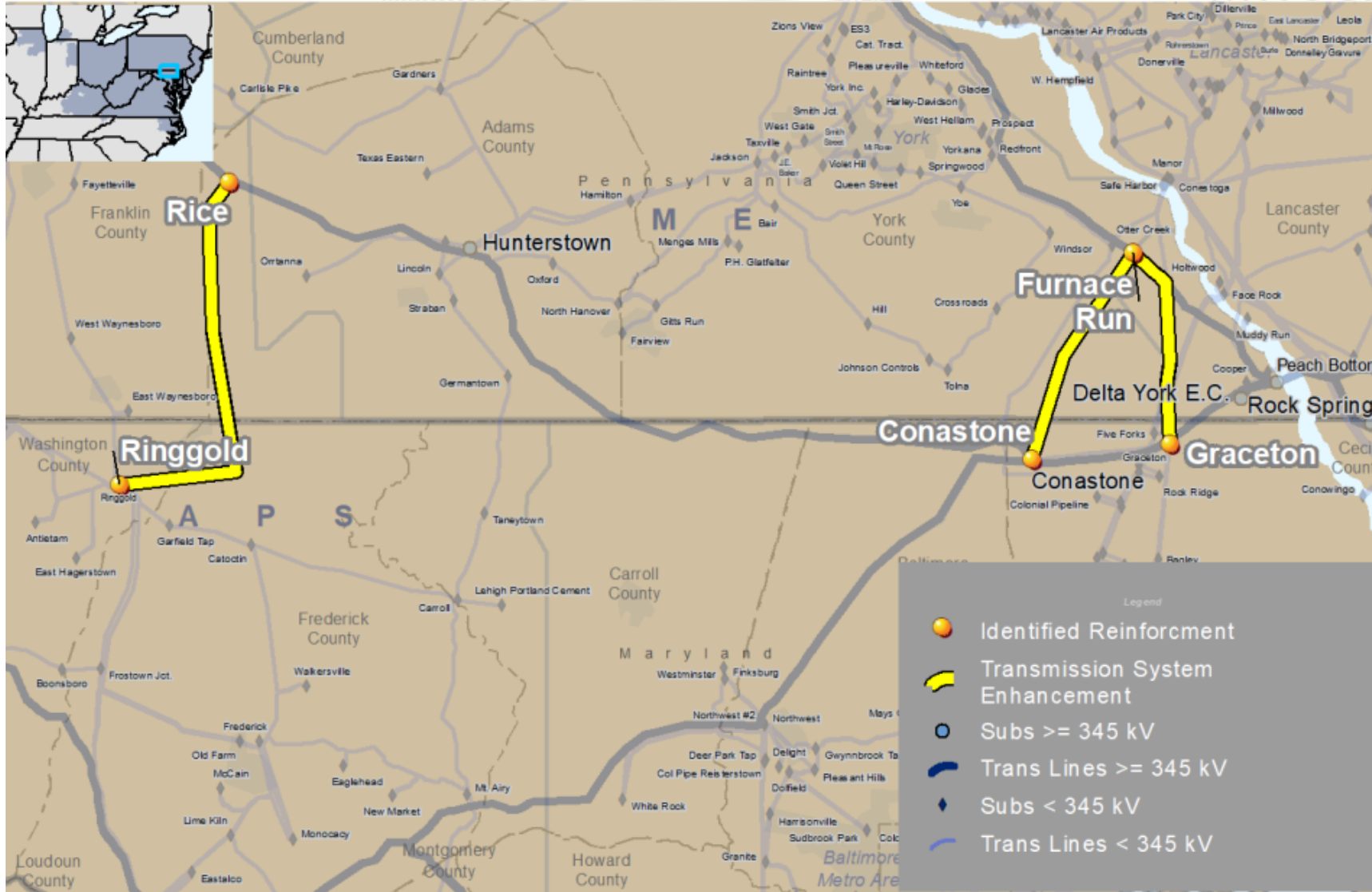


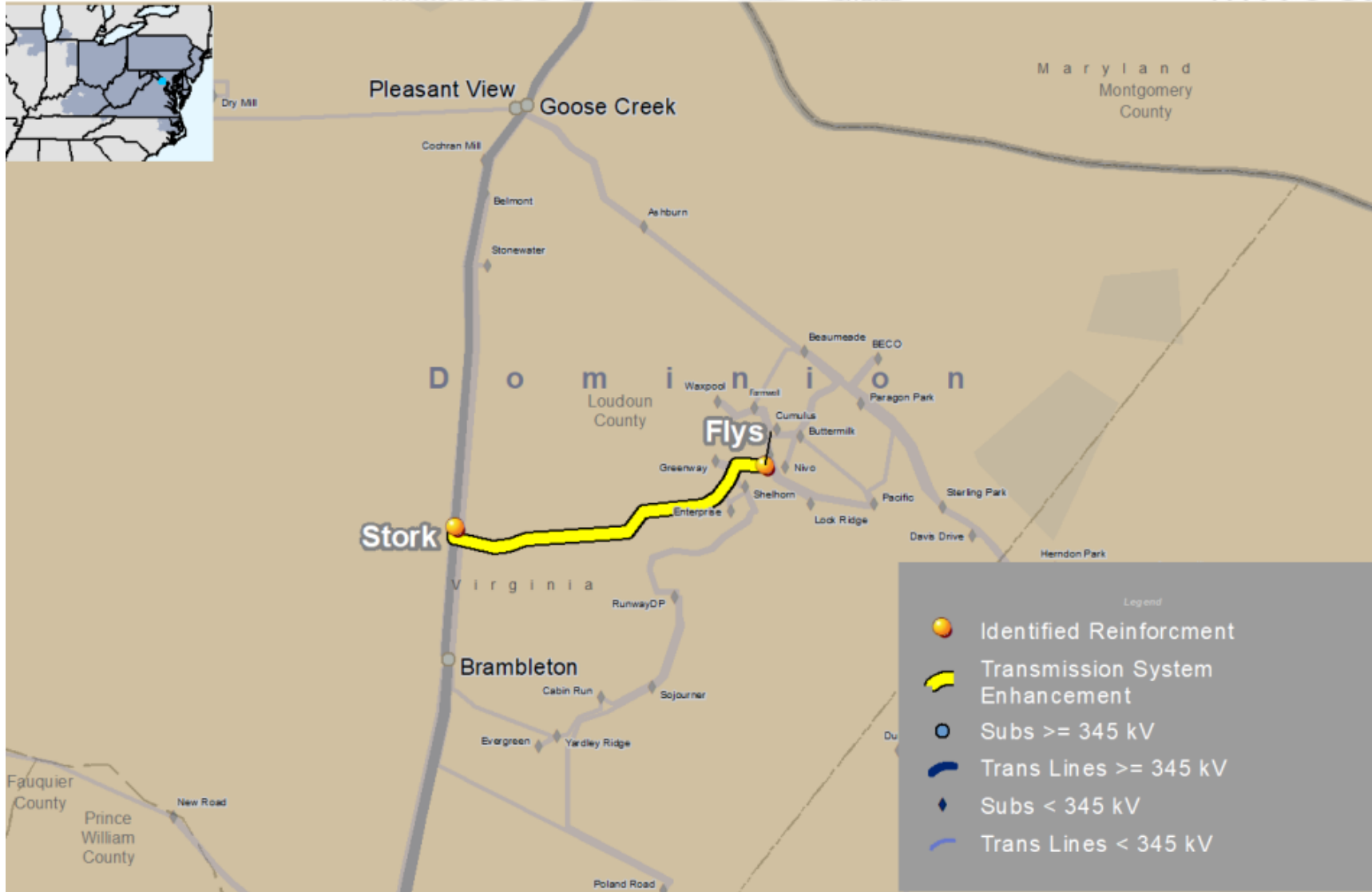


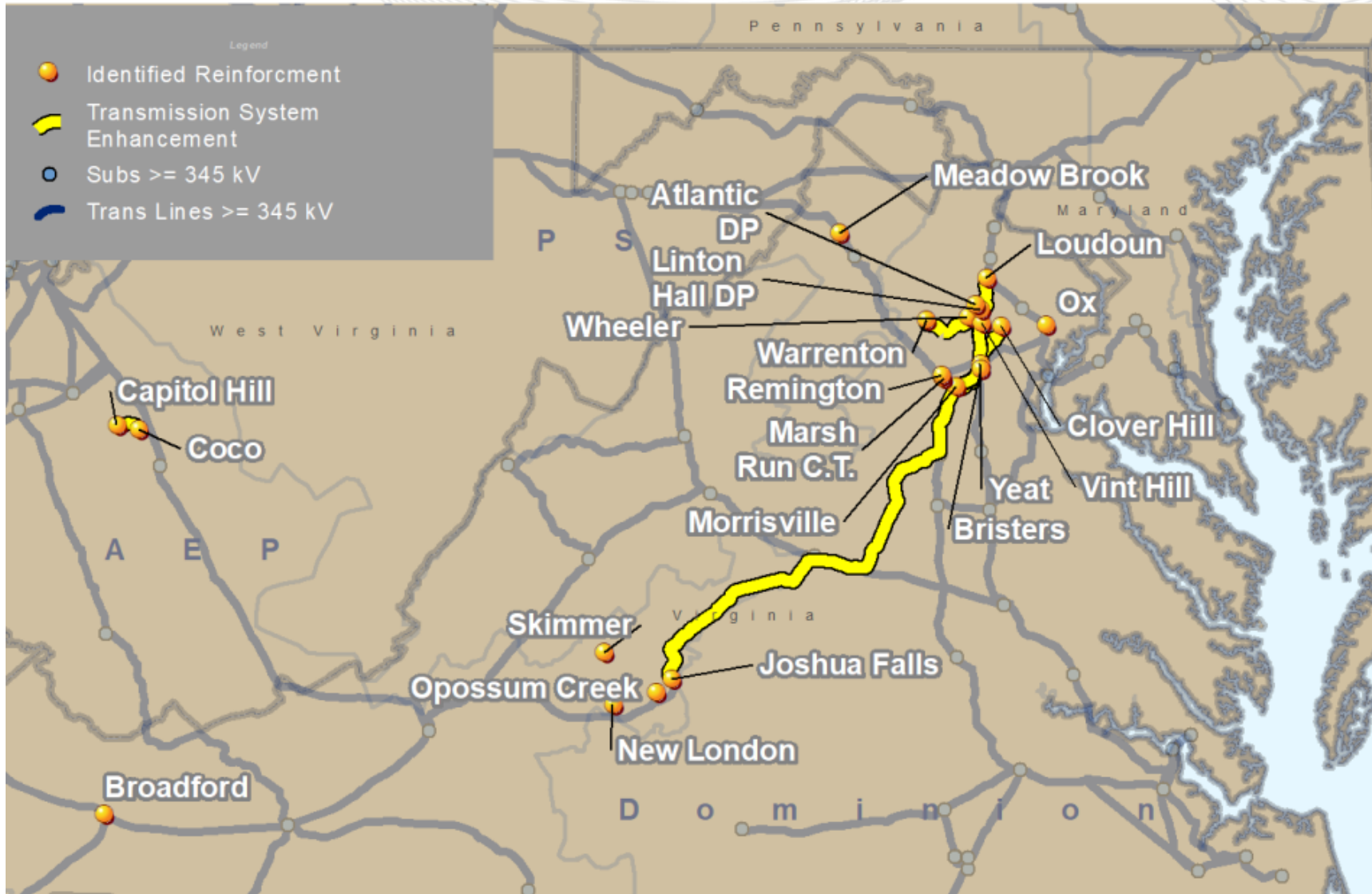


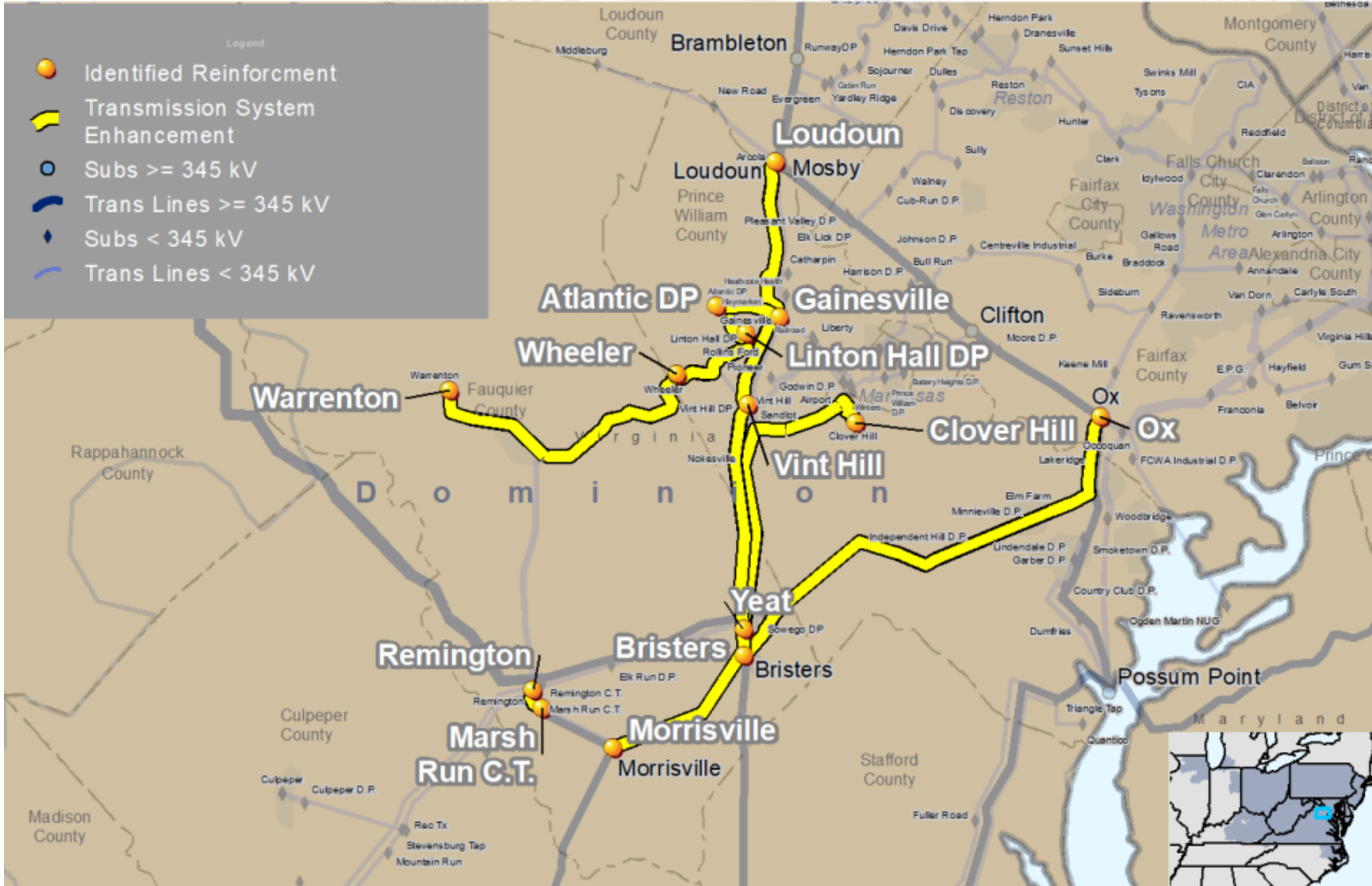












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Reliability Analysis Update



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