



Reliability Analysis Update

Sami Abdulsalam, Senior Manager

Transmission Expansion Advisory Committee

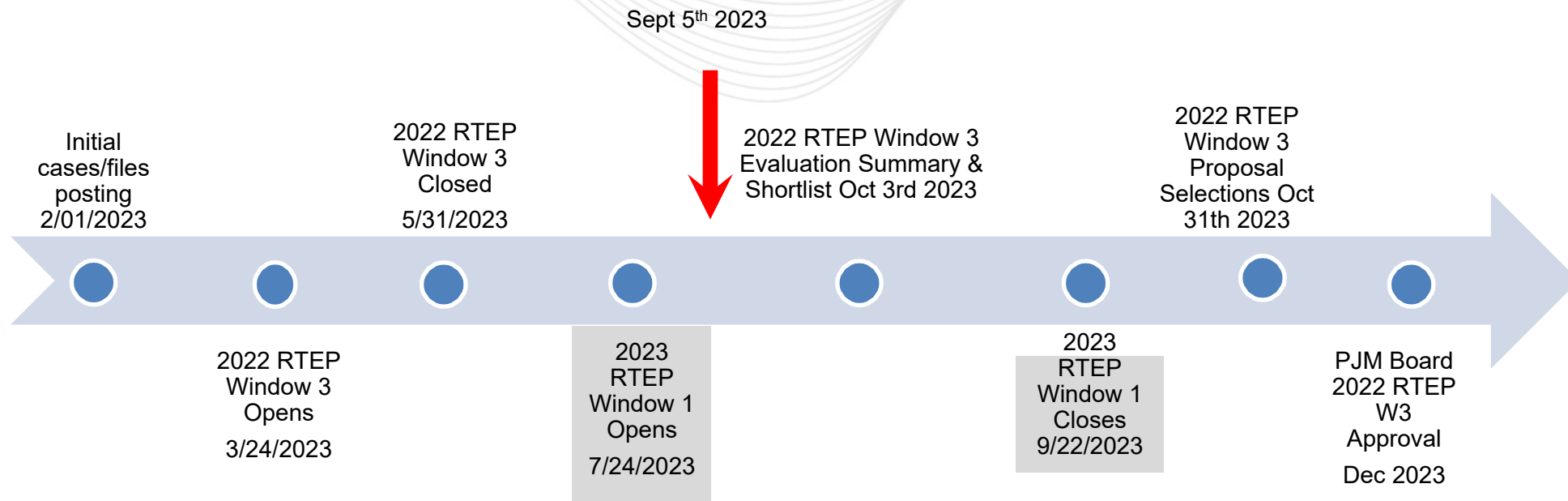
Sept 5th, 2023

2022 RTEP W3 & 2023 RTEP W1

Timeline and Status Update



2022 RTEP Window 3 (and 2023 RTEP Window 1) - Timeline



- PJM opened the 2023 RTEP W1 on July 24th 2023 (on schedule).
- PJM Released latest updated basecase and information files on July 24th 2023
- PJM Released an addendum on August 3rd 2023
- Total 266 flowgates (130 competitive Vs. 136 non-Competitive)
- 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 – Nov., Dec. and Jan. TEAC for solutions.



2022 RTEP W3

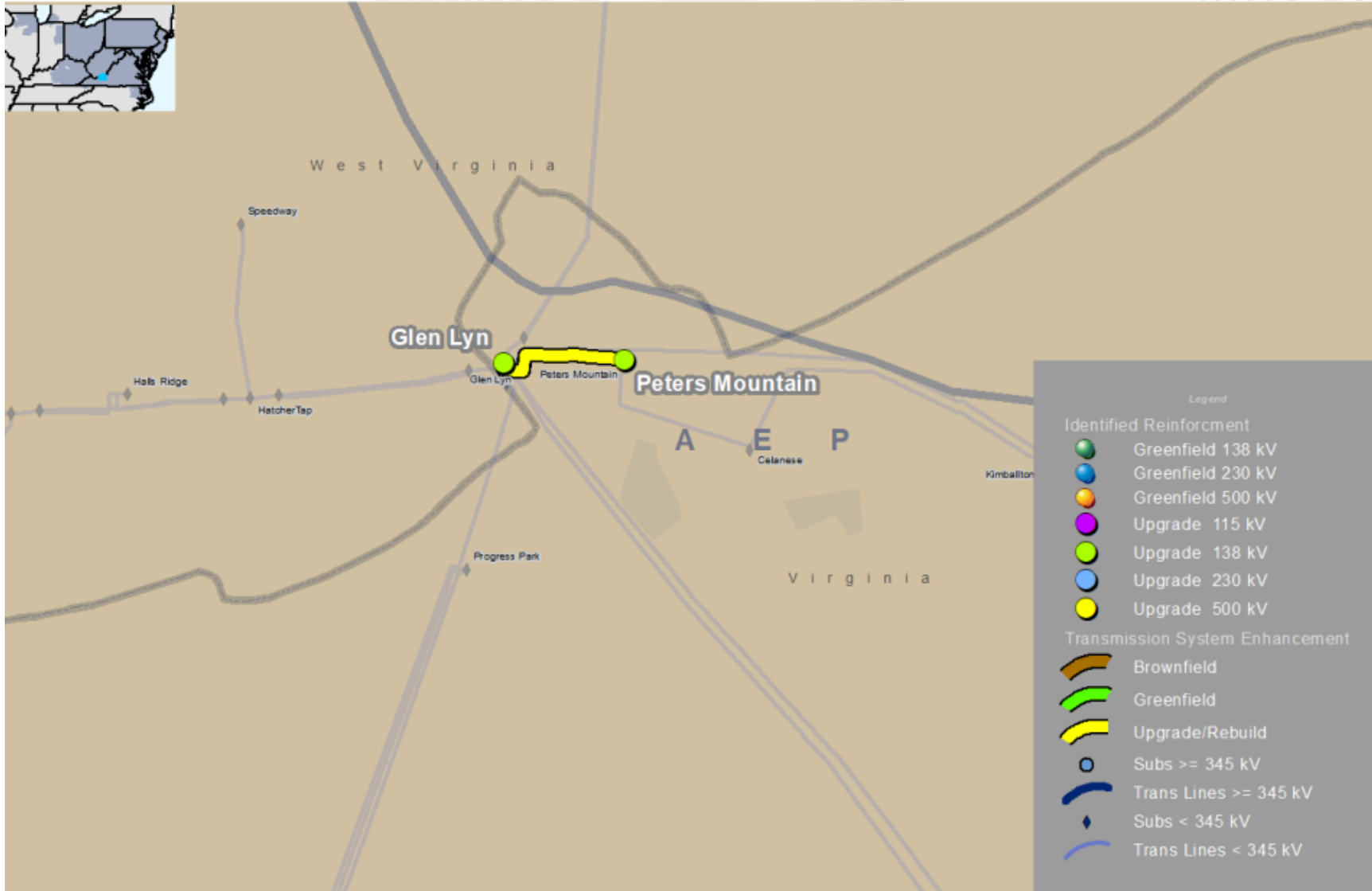
Progress Update

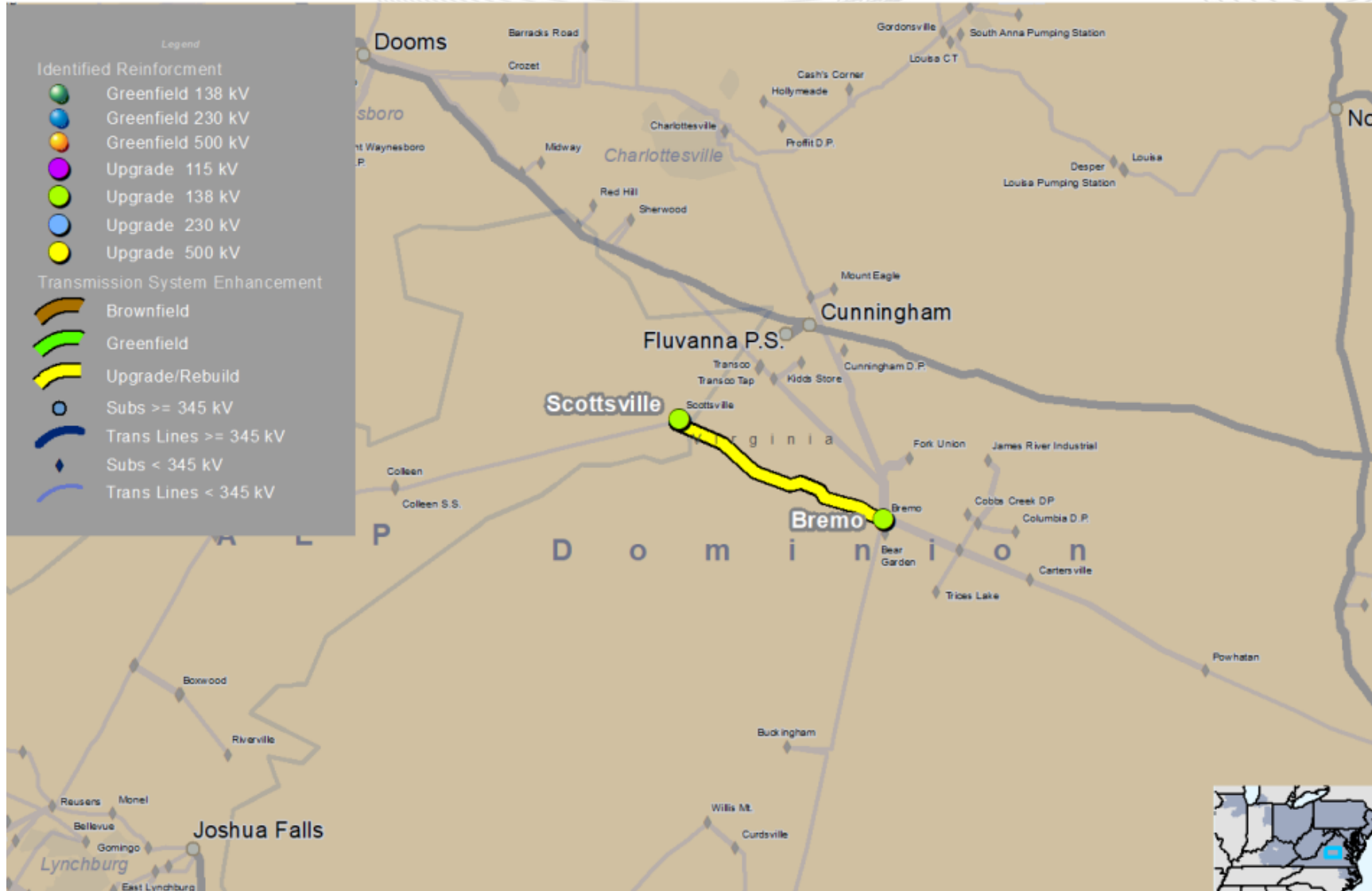
- Window Summary:
 - The 2022 Window 3 officially closed on May 31 2023.
 - 72 Proposals were received from 10 entities
 - 6 are Incumbent, 4 Non Incumbent
 - 22 Projects are upgrades, while 50 are Greenfield
 - 44 Proposals have Cost Containment Commitments
- PJM completed individual proposal screening and planning evaluations
- Proposal scenario evaluations underway

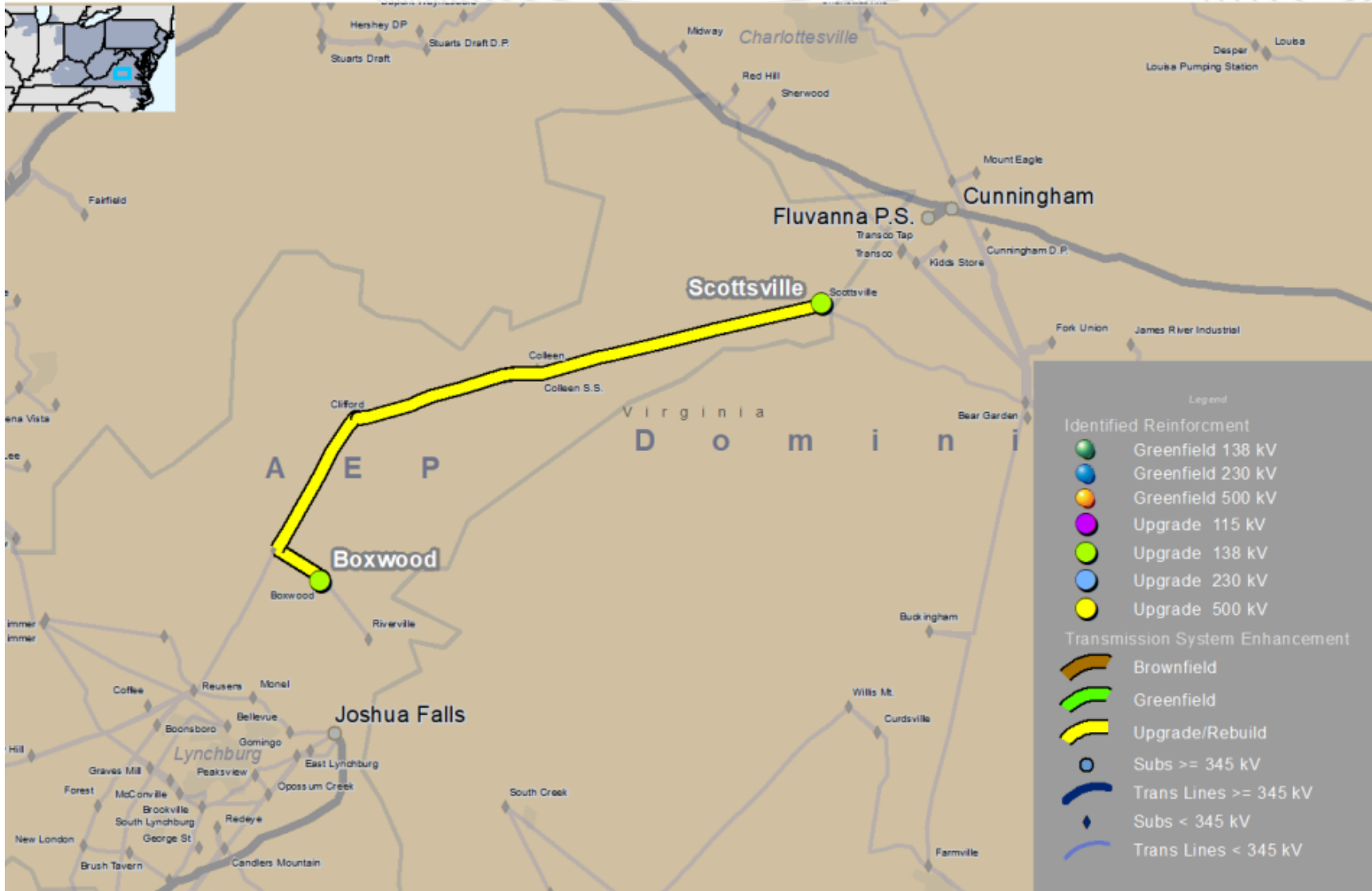
- All 72 proposals are evaluated separately
- Top down approach: address regional violations first, then local issues
- For 2027 evaluations:
 - Almost all the proposals address their target issues in 2027 W3 models with some proposals causing new violations
 - Over 30 Scenarios were studied using the 2027 models (Combination of proposals and components from different proposals)
- For 2028 evaluations:
 - Total of 46 Scenarios evaluated so far using the 2028 RTEP case
- Five scenarios represent proposing entity combinations as complete packages.
- The remaining scenarios evaluated represent variations of different proposals and/or components

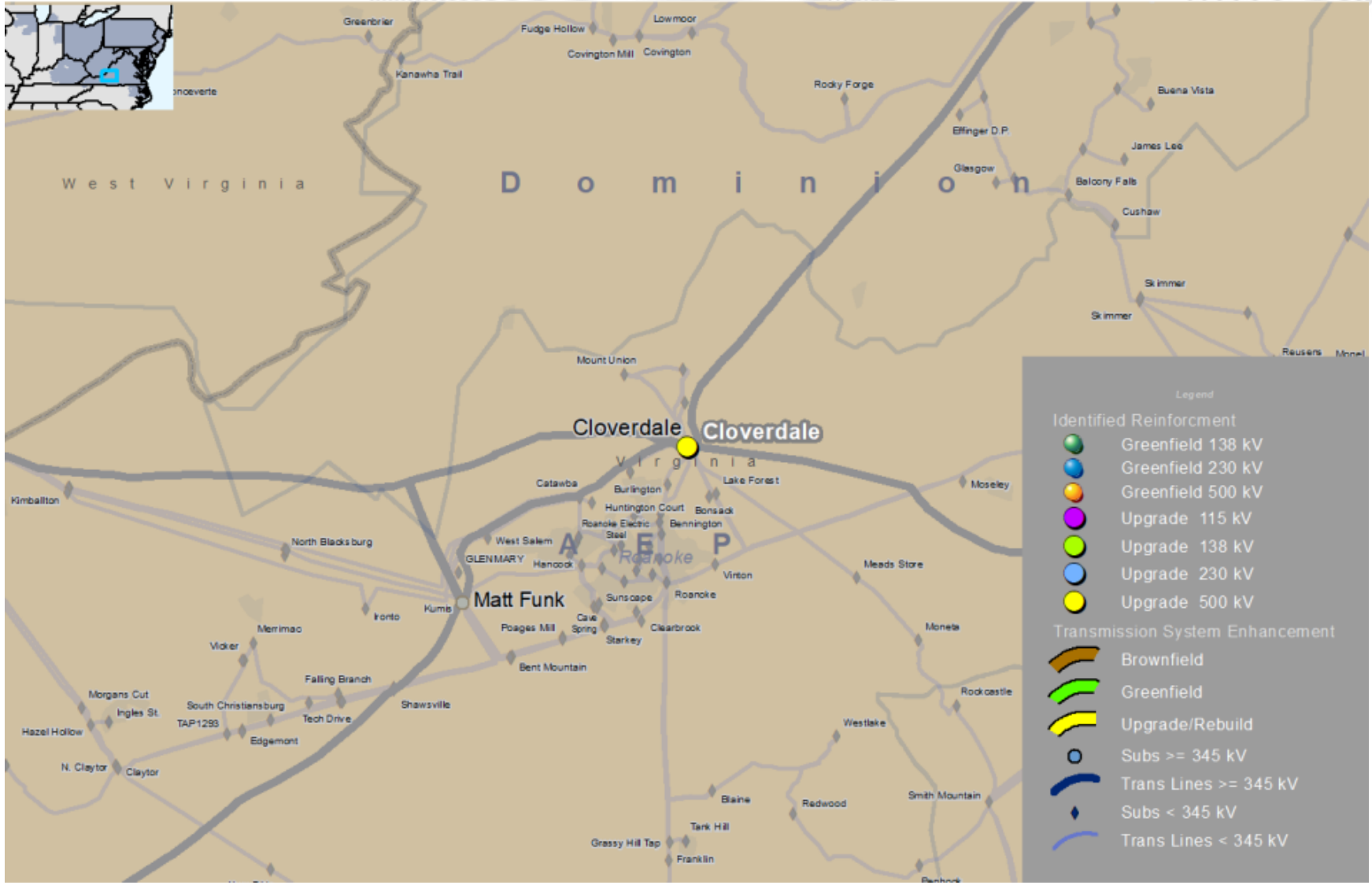
- Scenario evaluations to continue through September 2023.
- PJM initiated load deliverability evaluations for the short listed scenarios – scheduled to complete in mid September 2023
- Targeting to finalize technical and constructability evaluations by end of September 2023.
- PJM will use the regular Oct 3rd TEAC to walk through the window evaluation results before the October 31st 1st read TEAC meeting

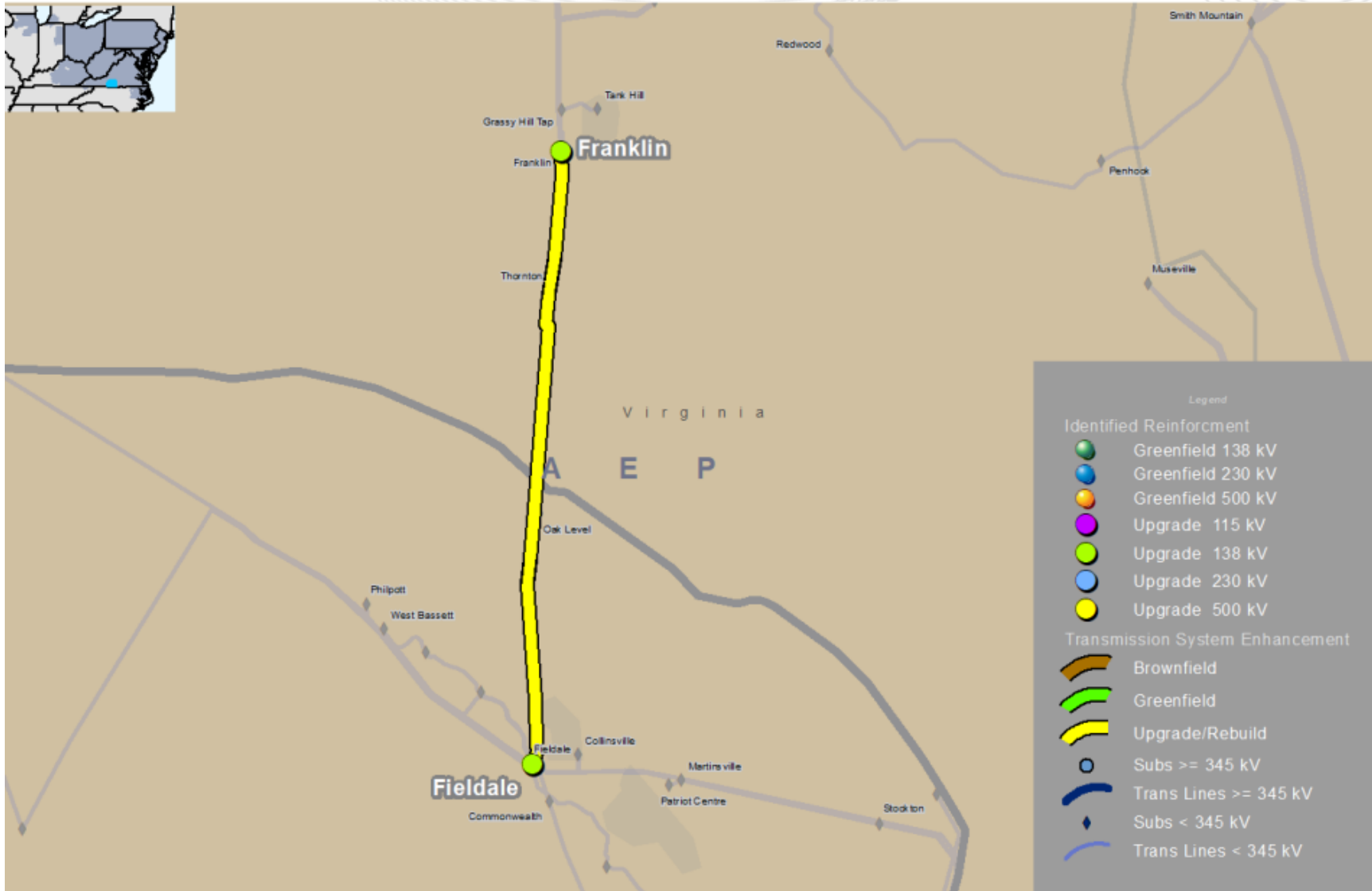
Appendix

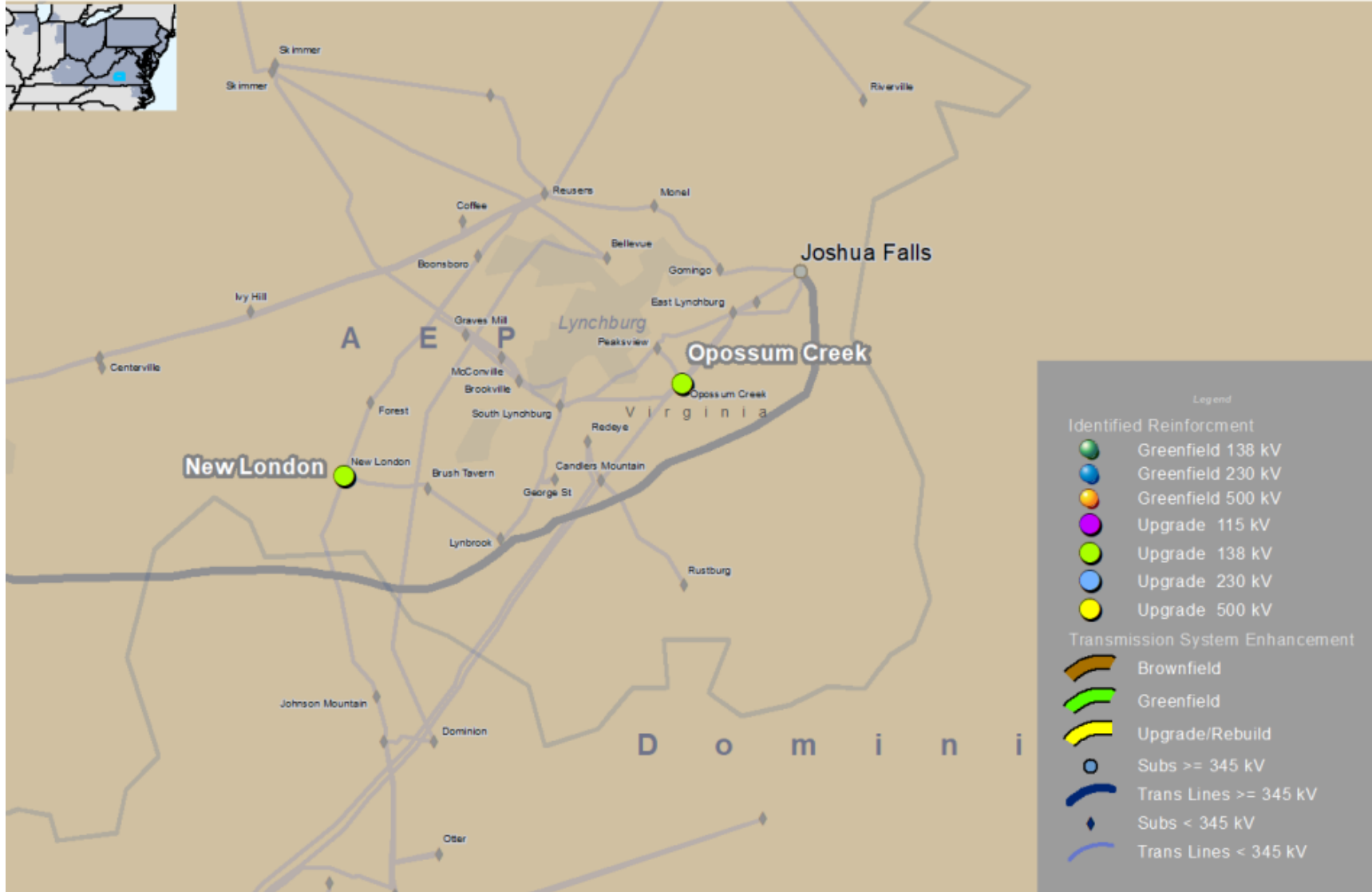


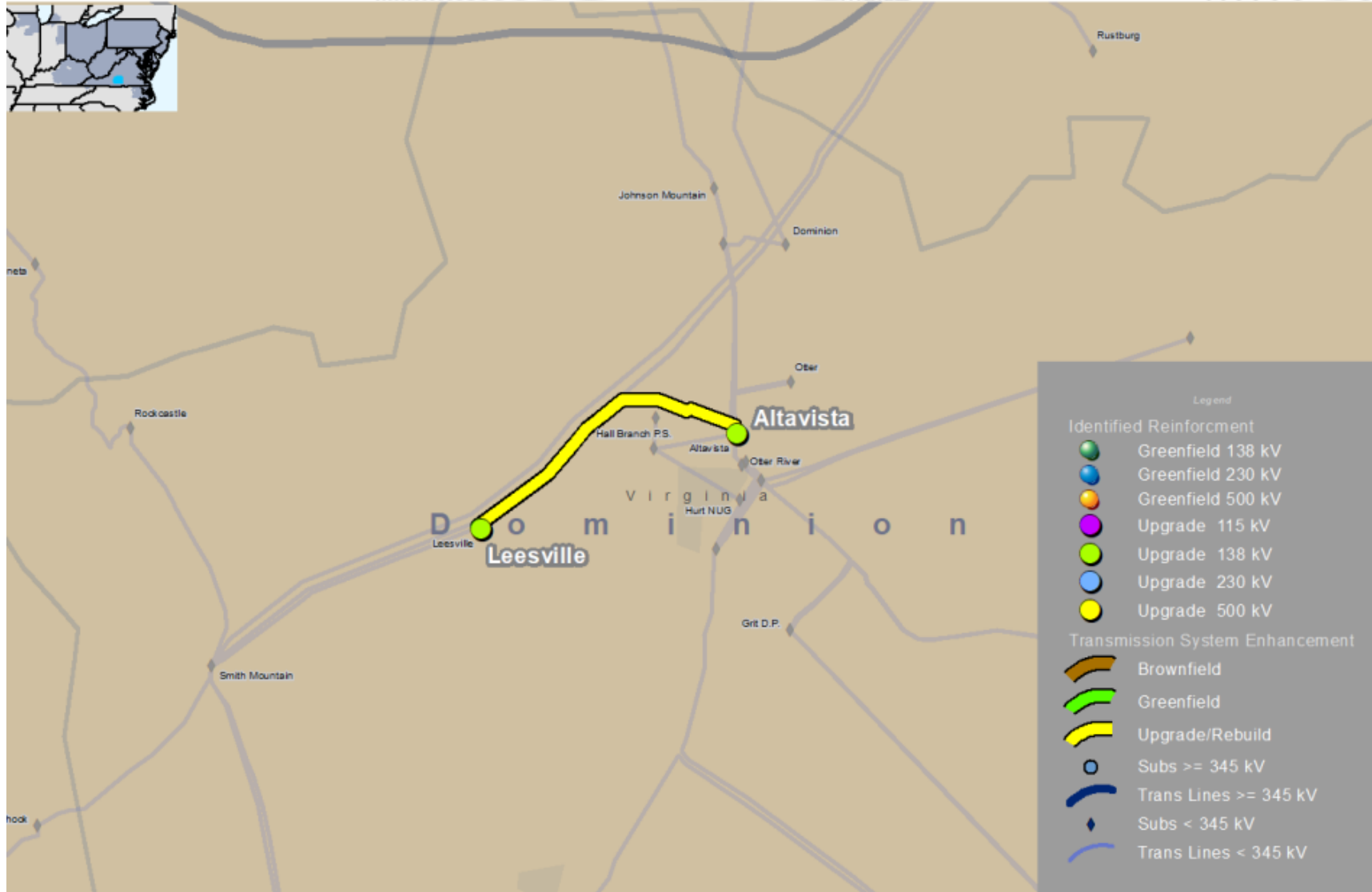


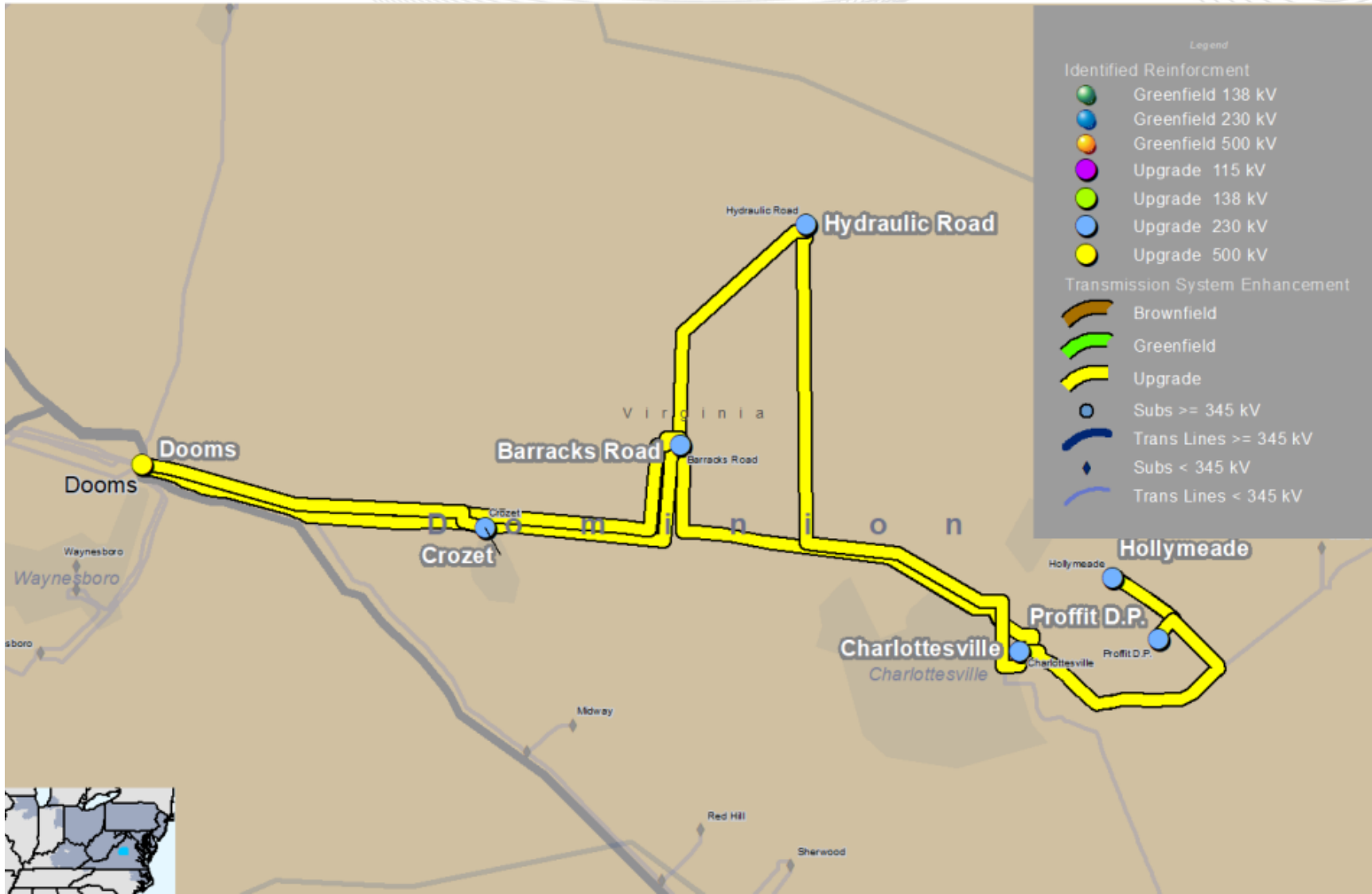


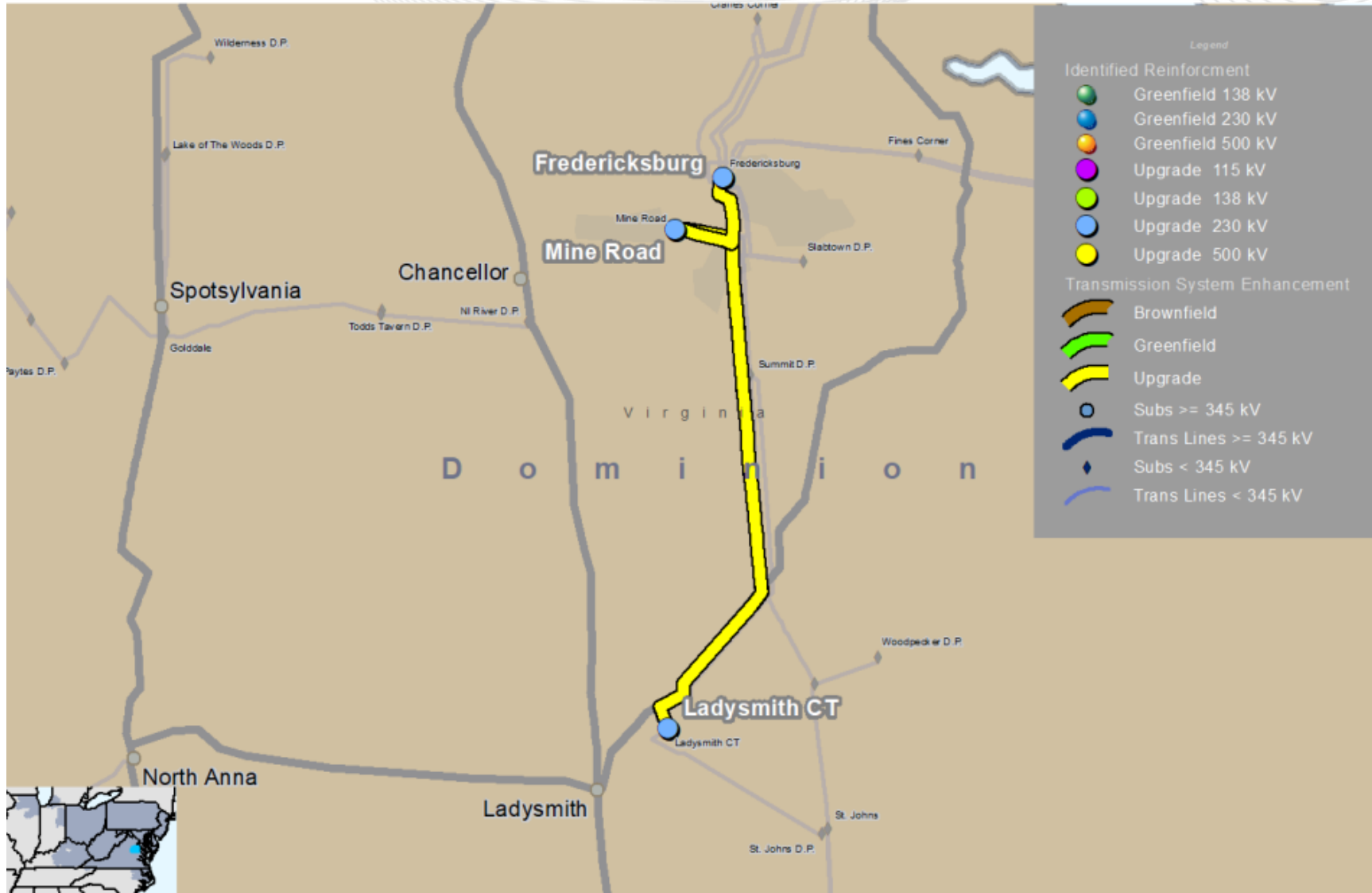


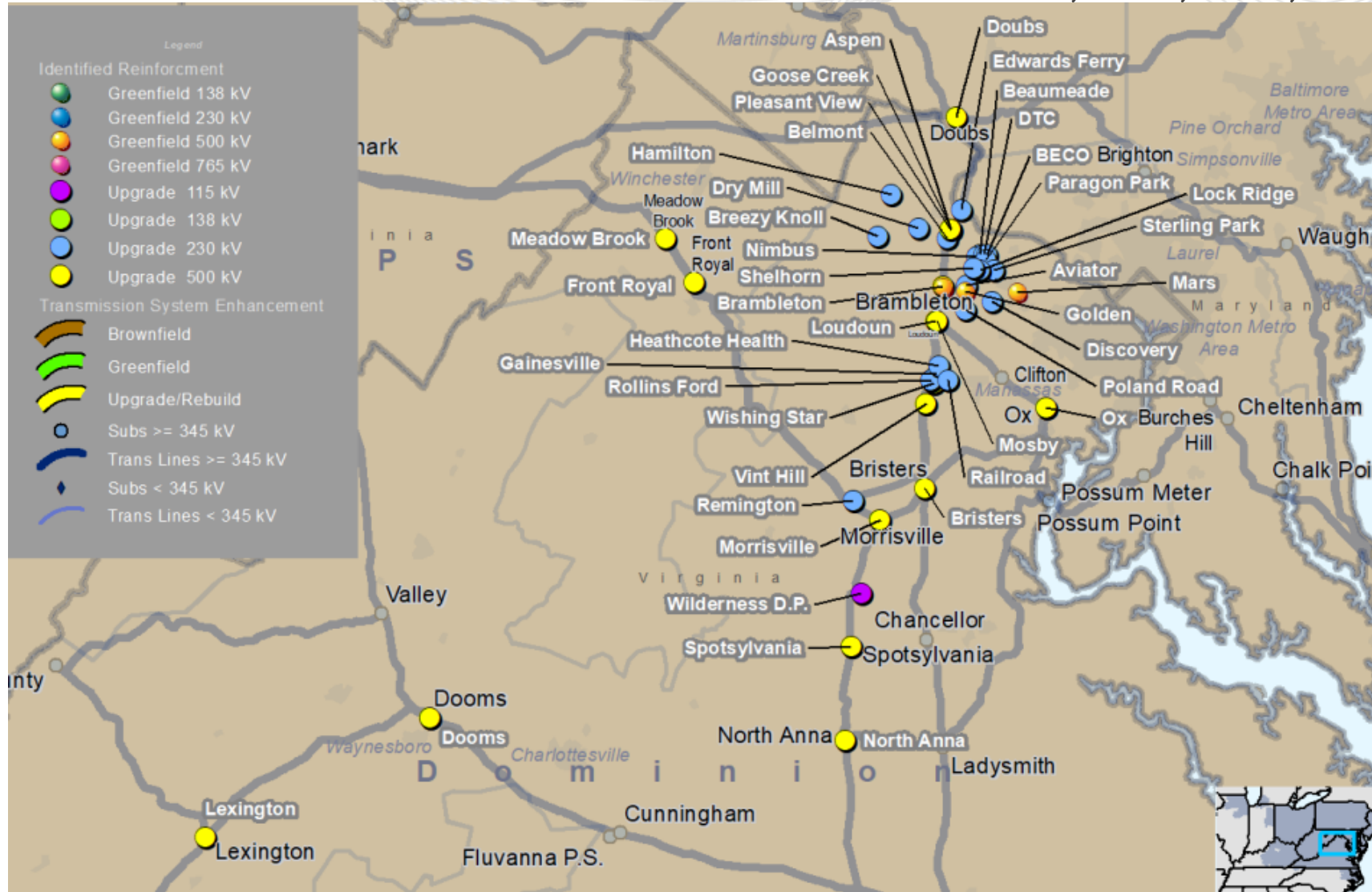


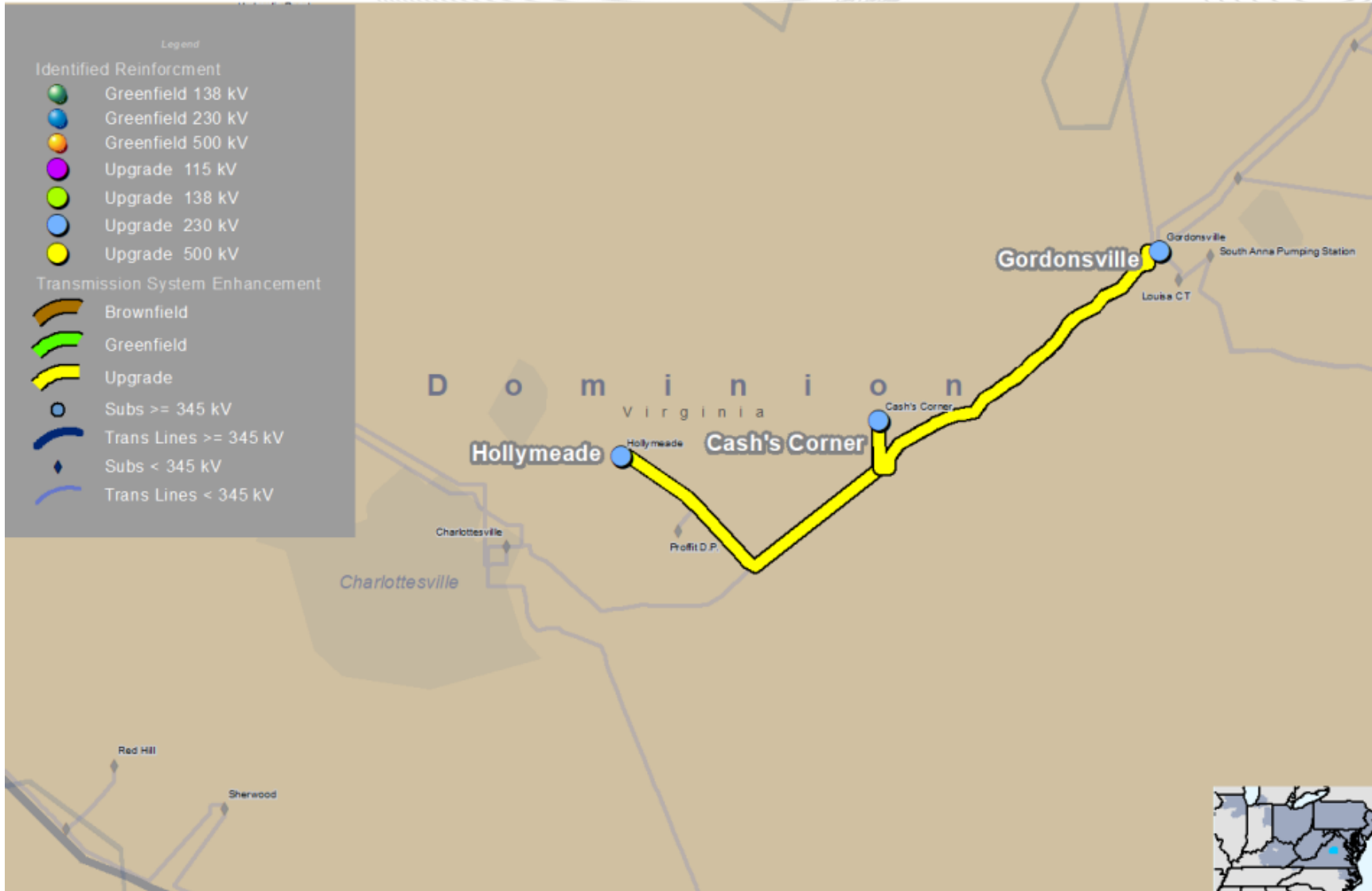


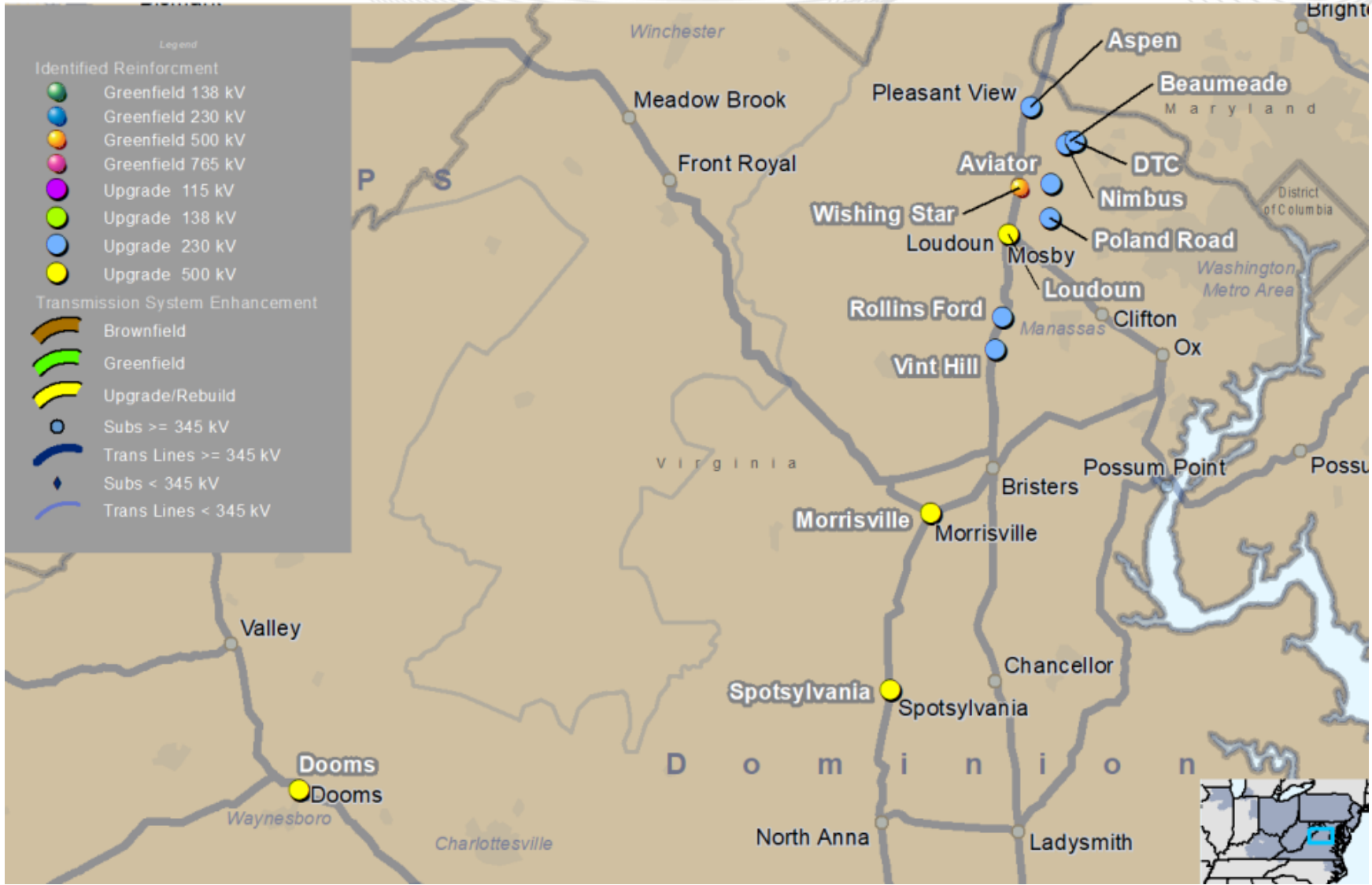


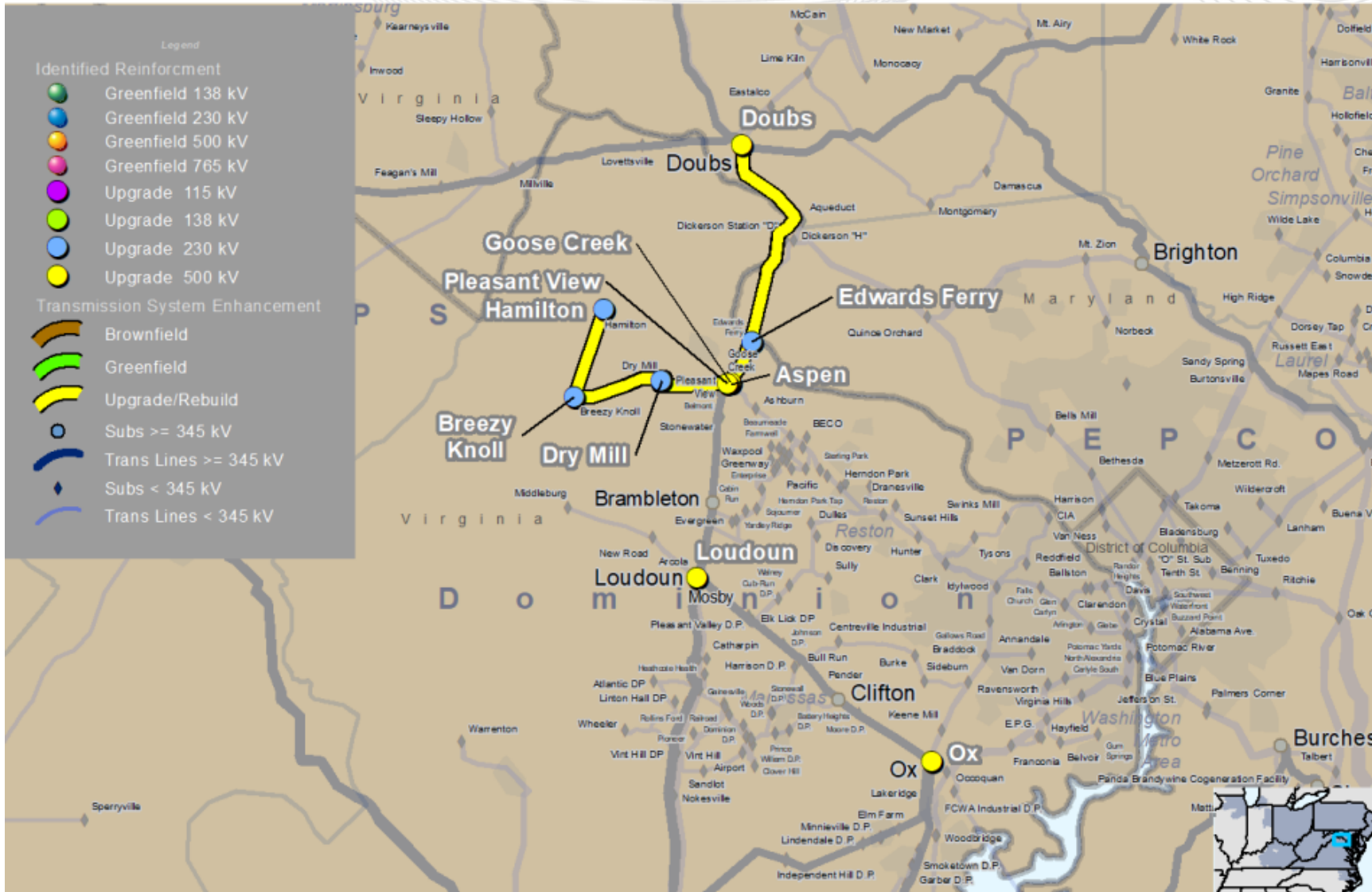


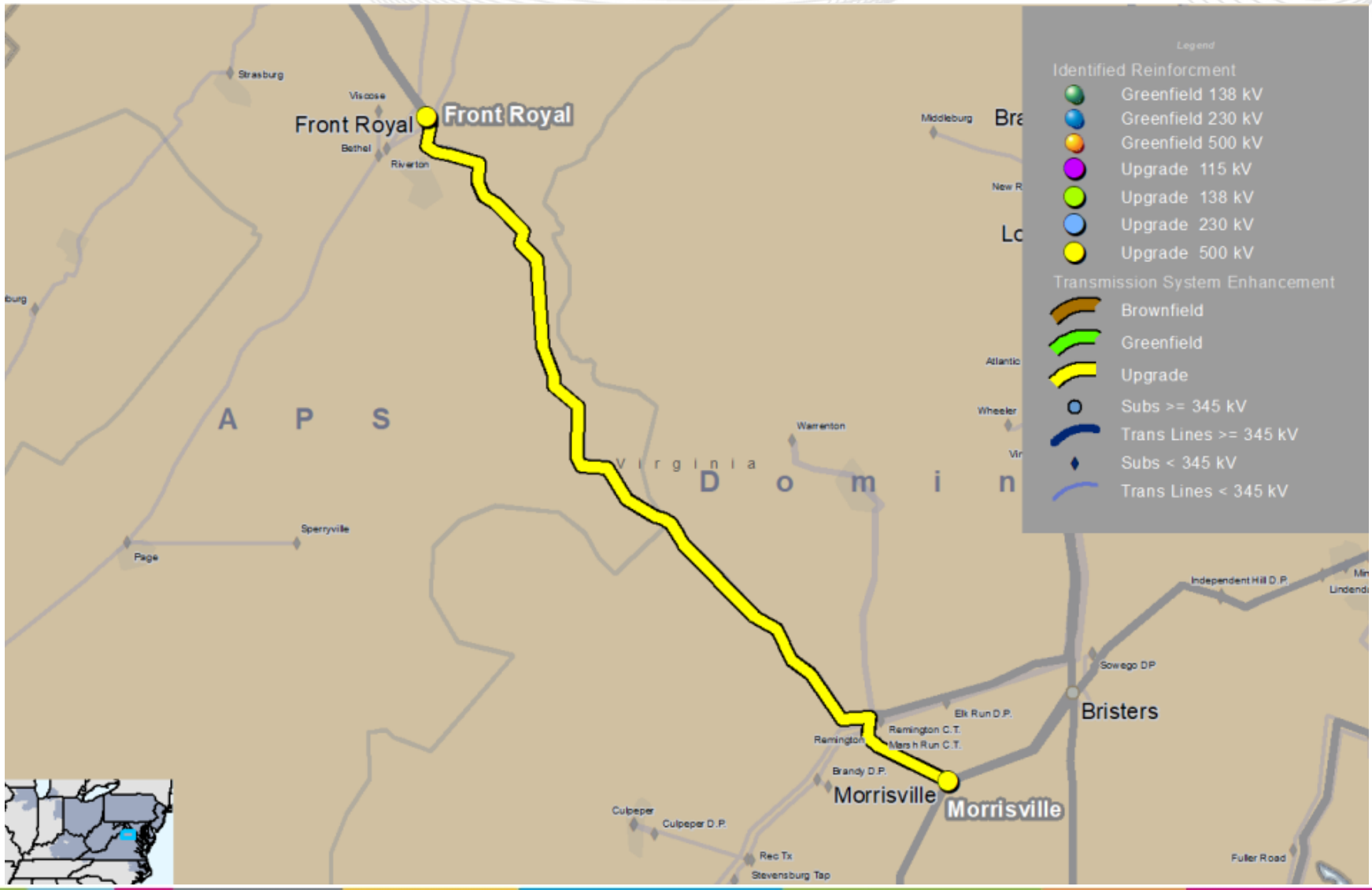


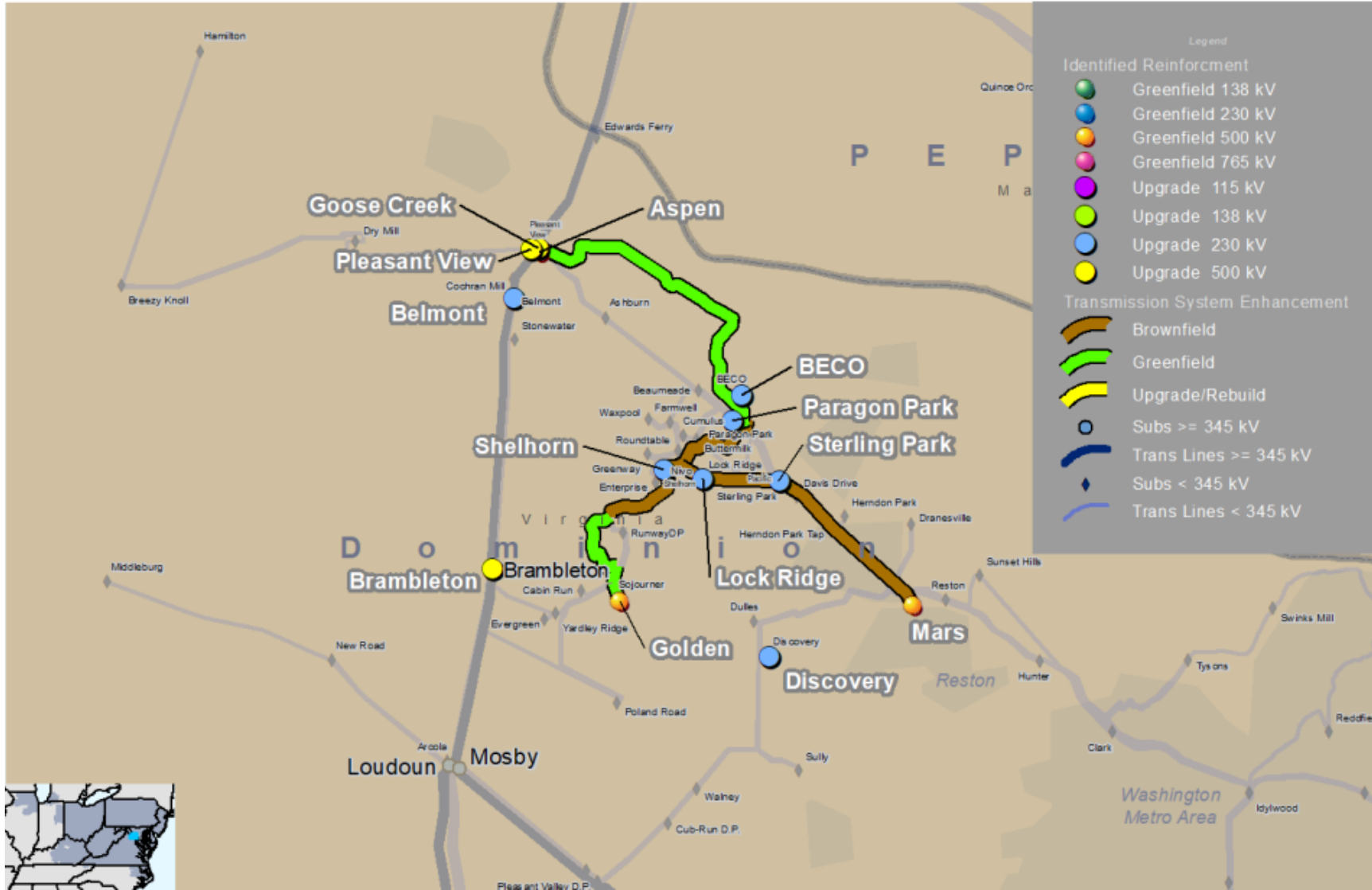


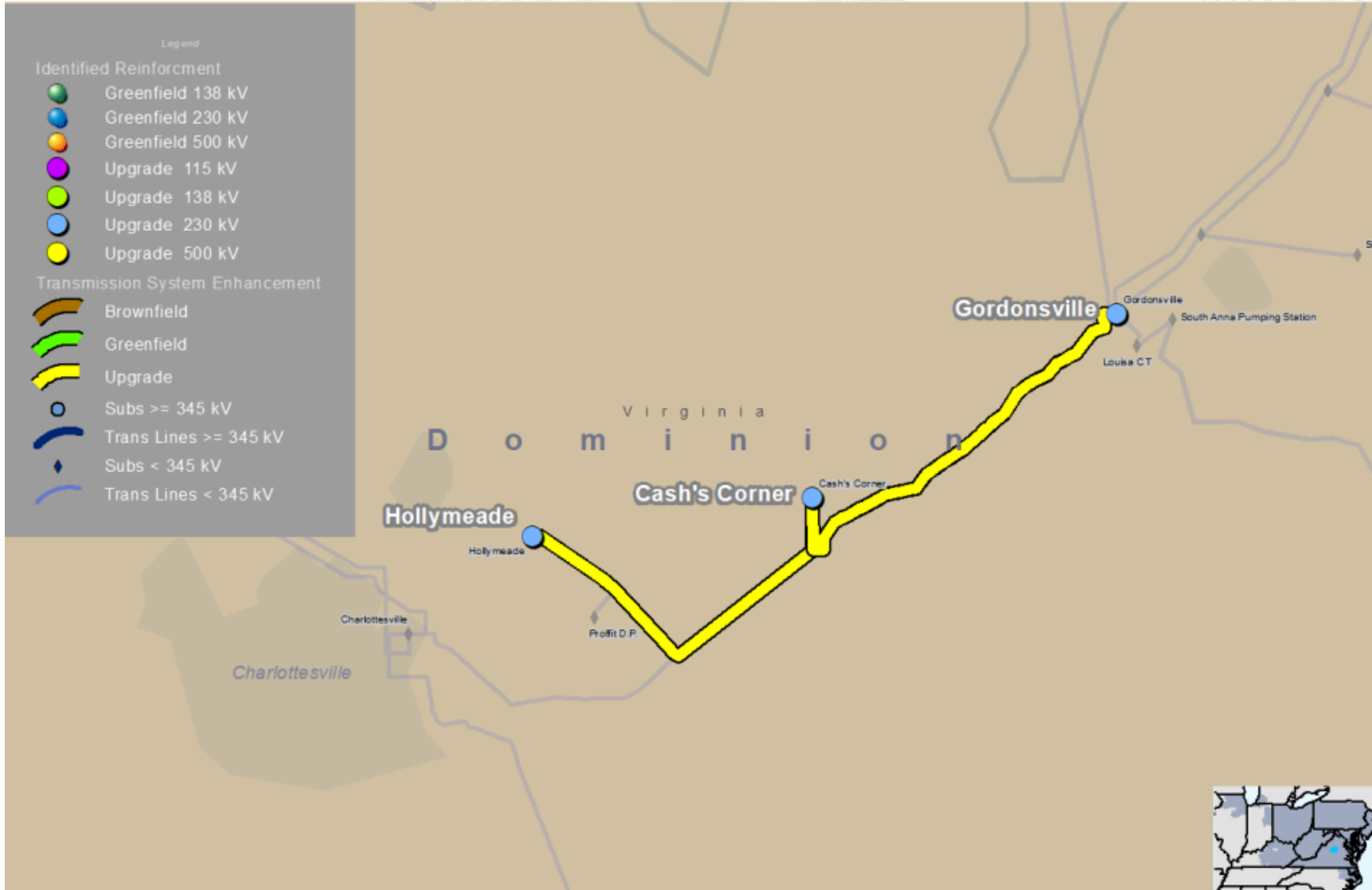




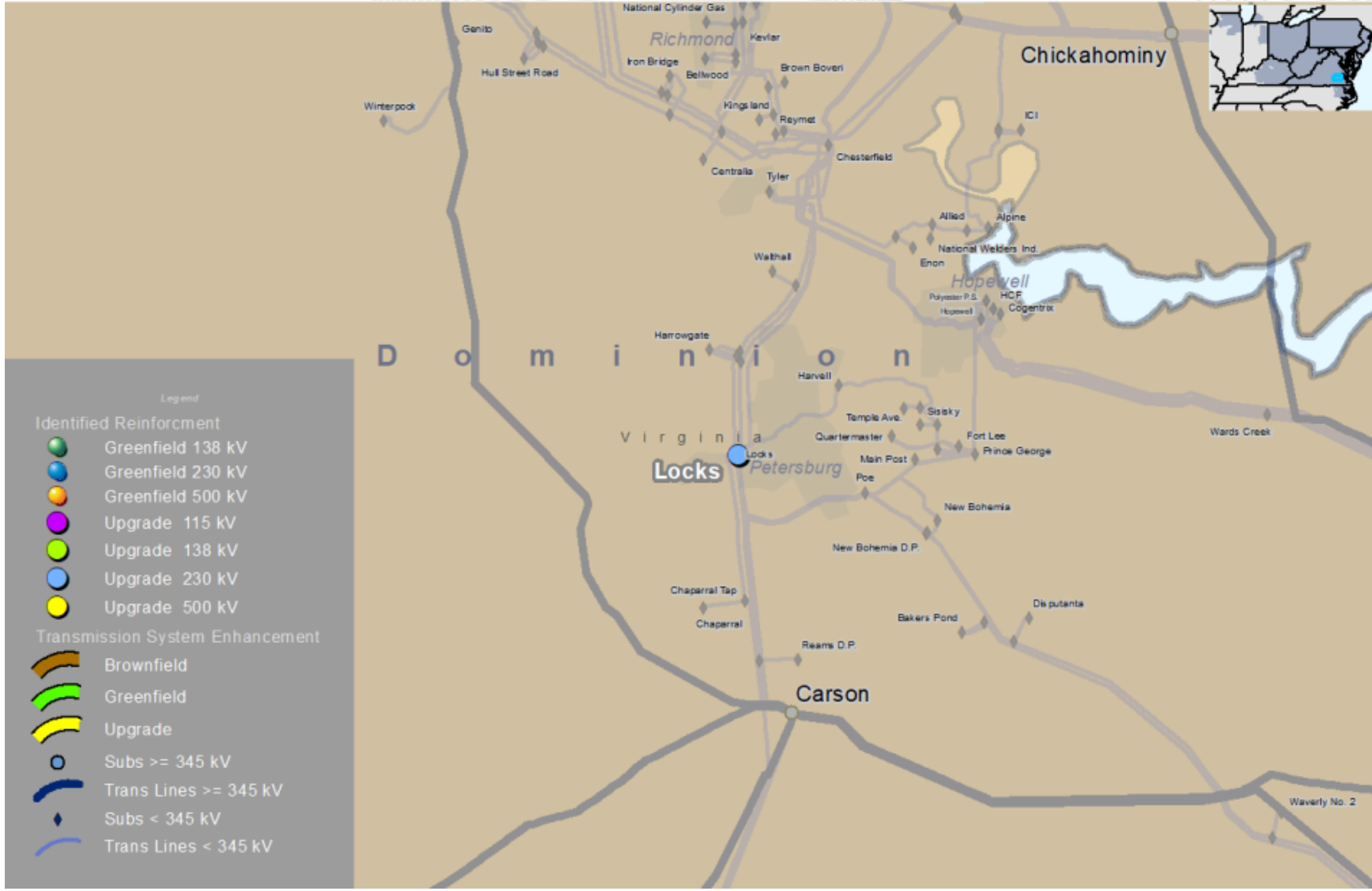


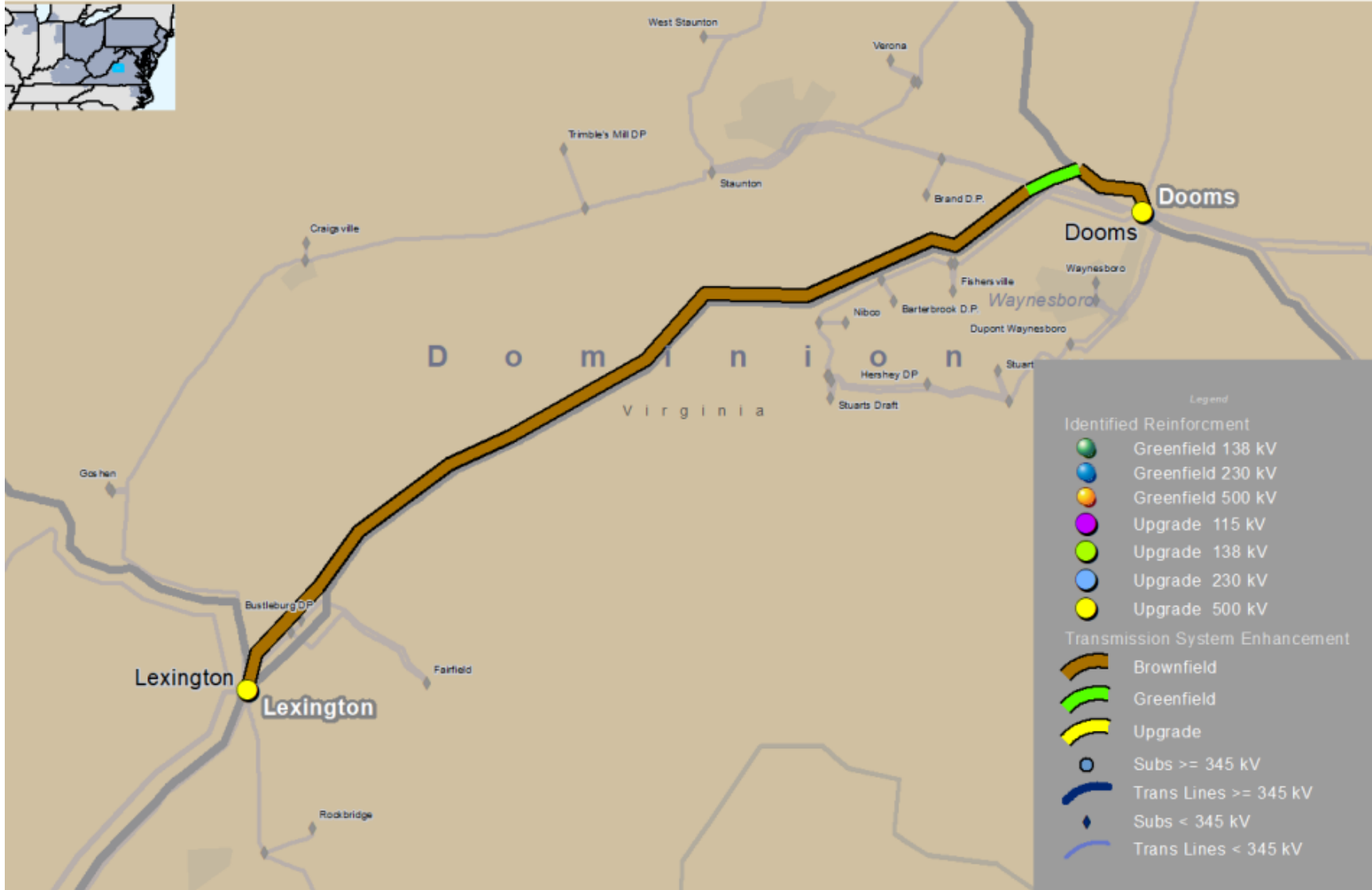


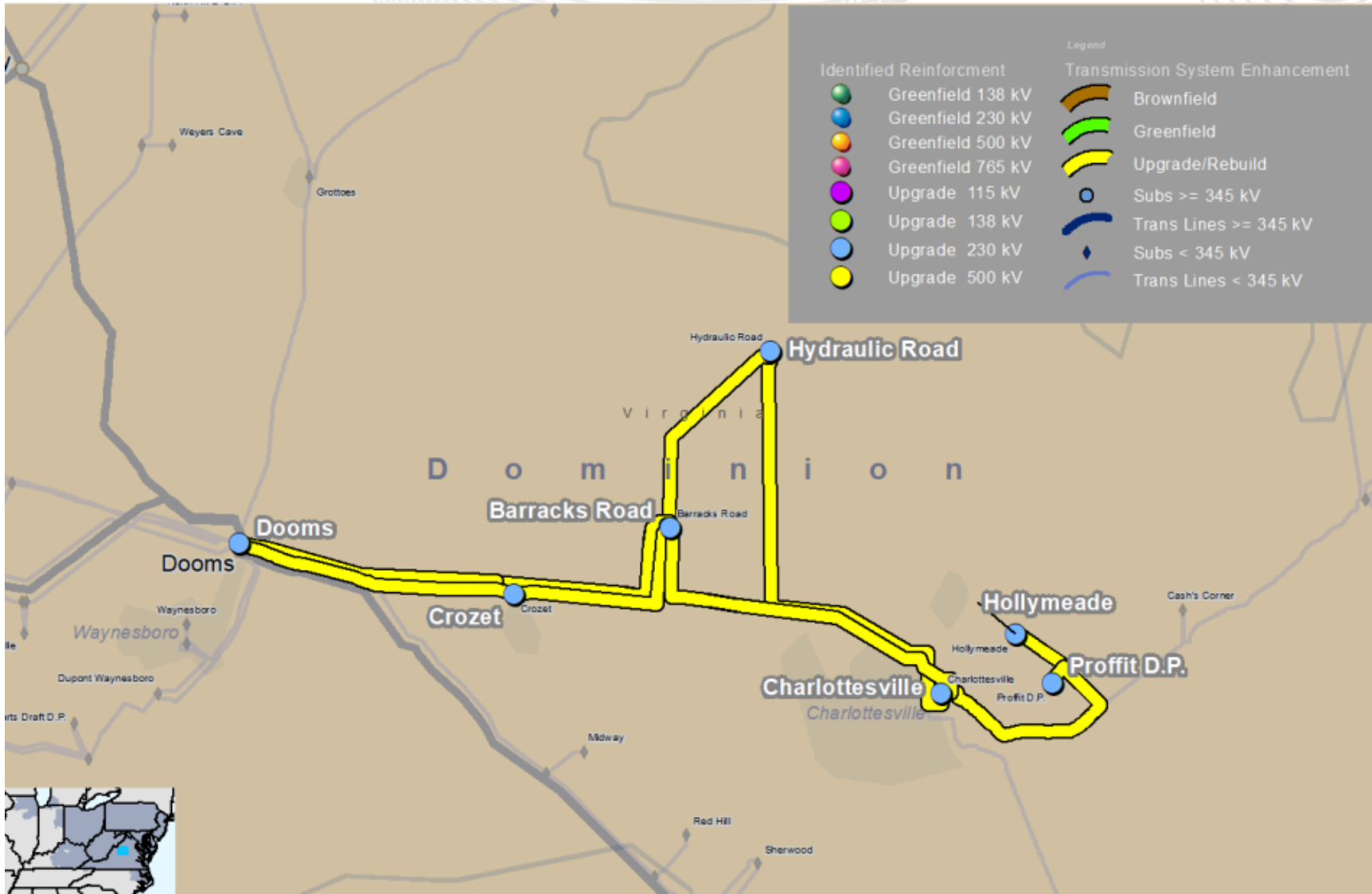


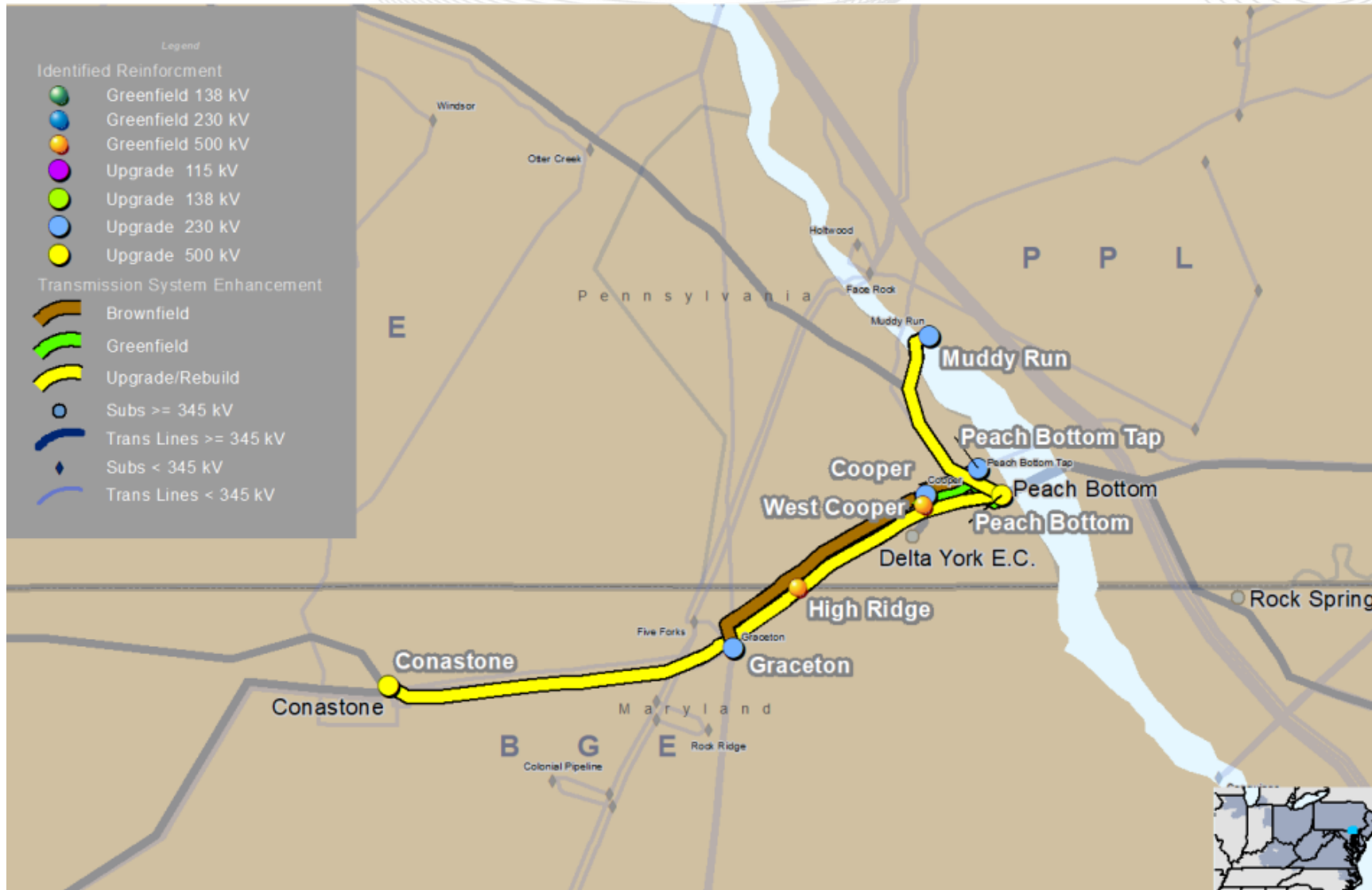


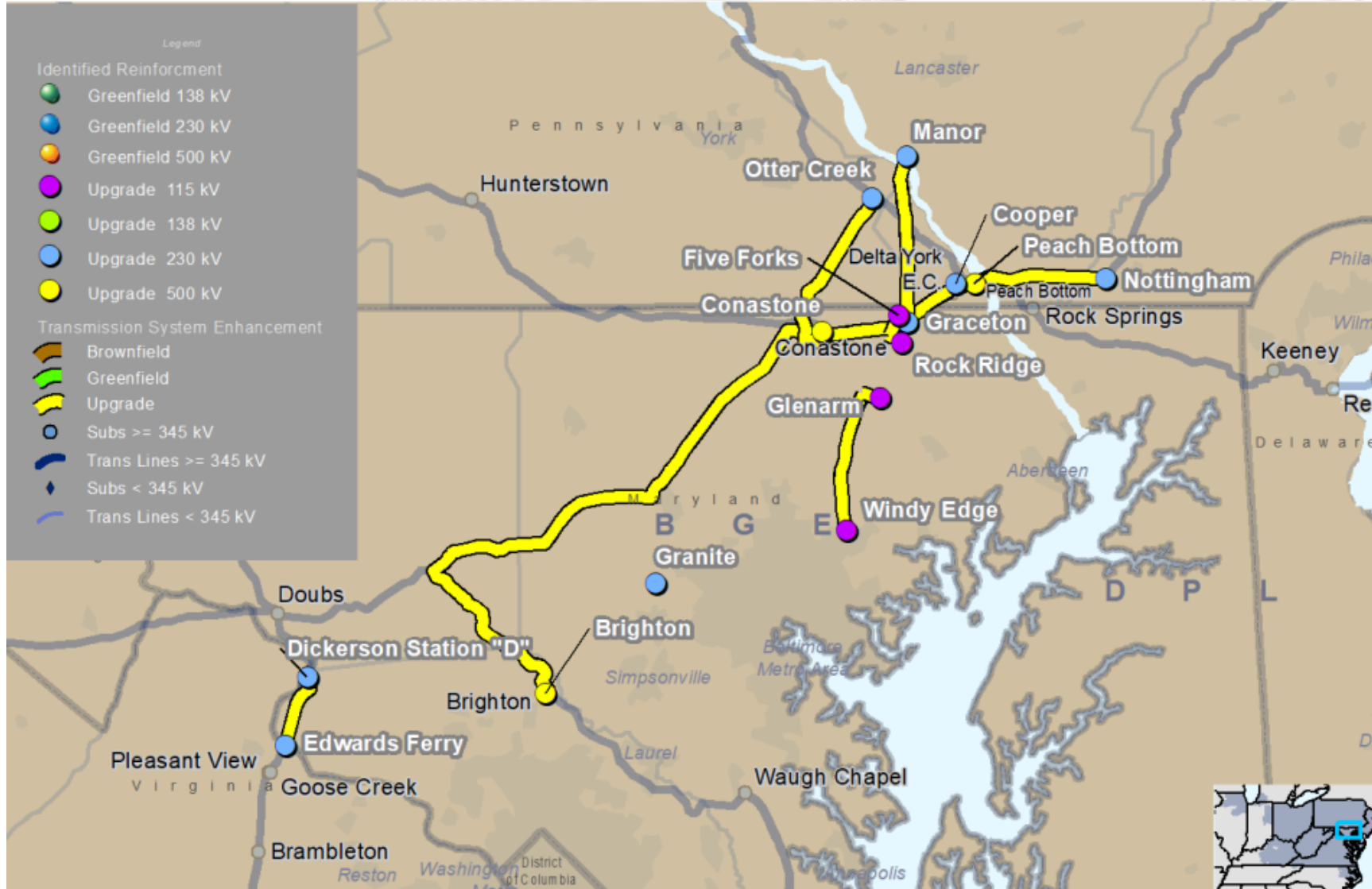


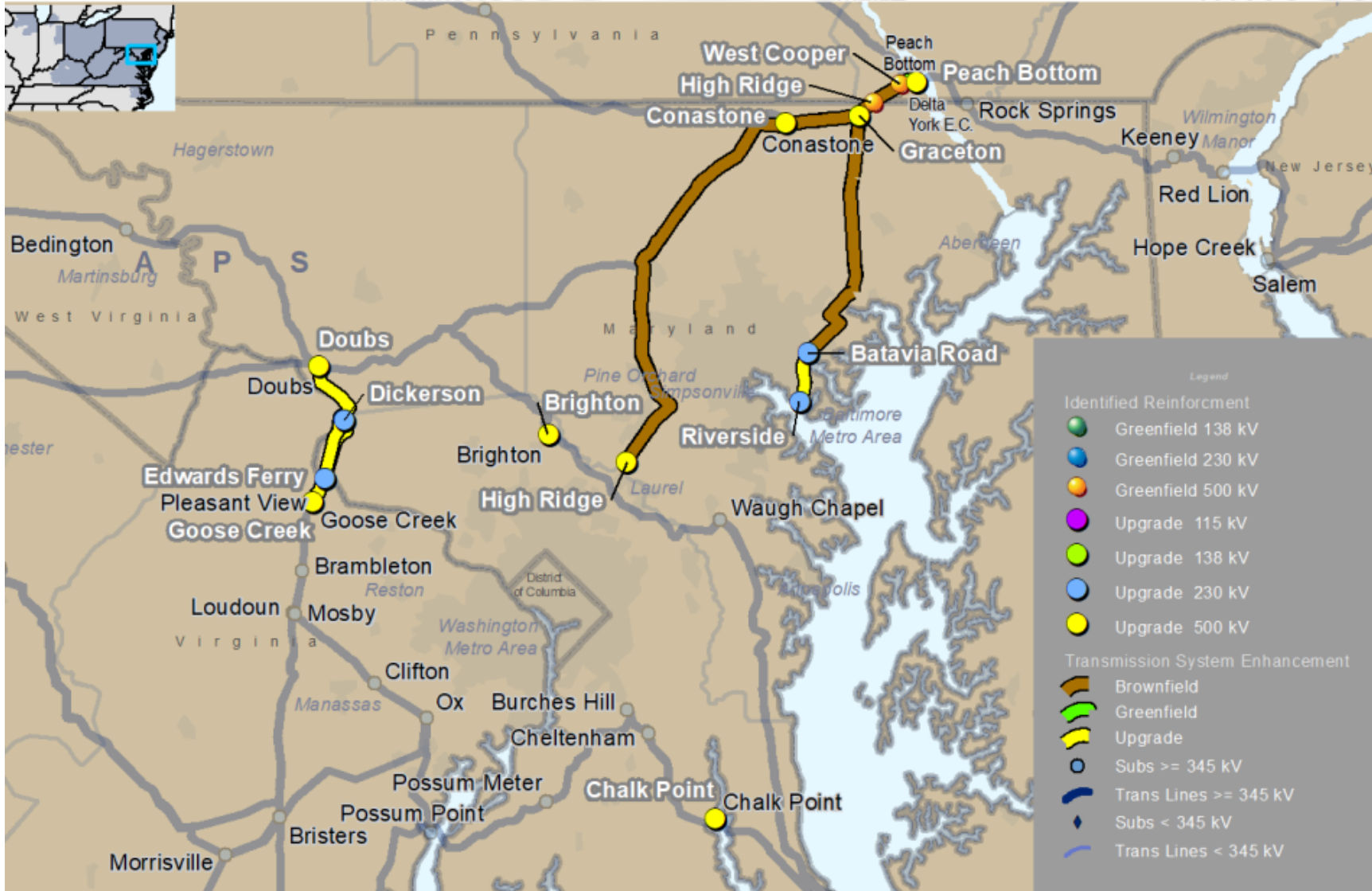


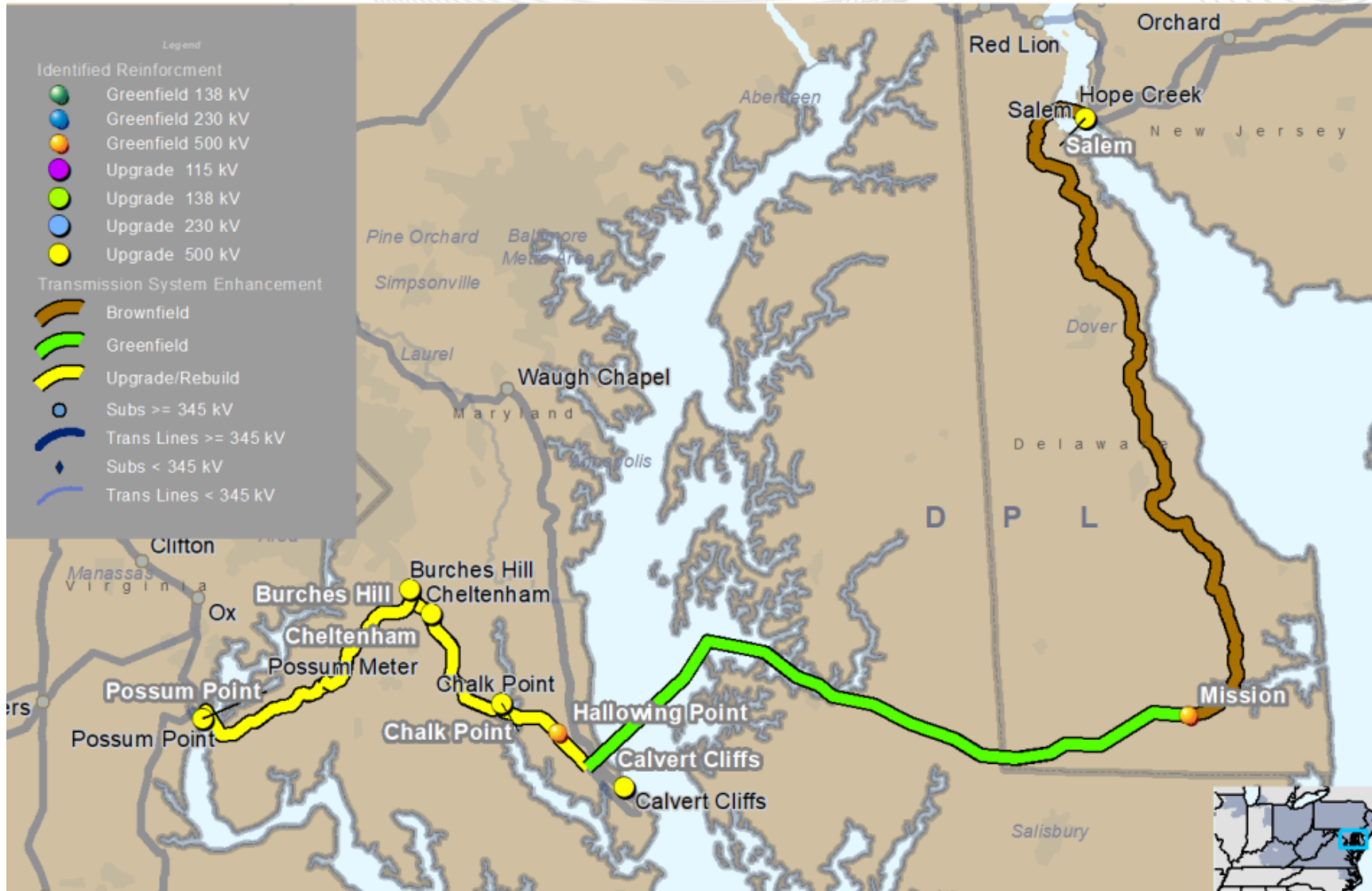


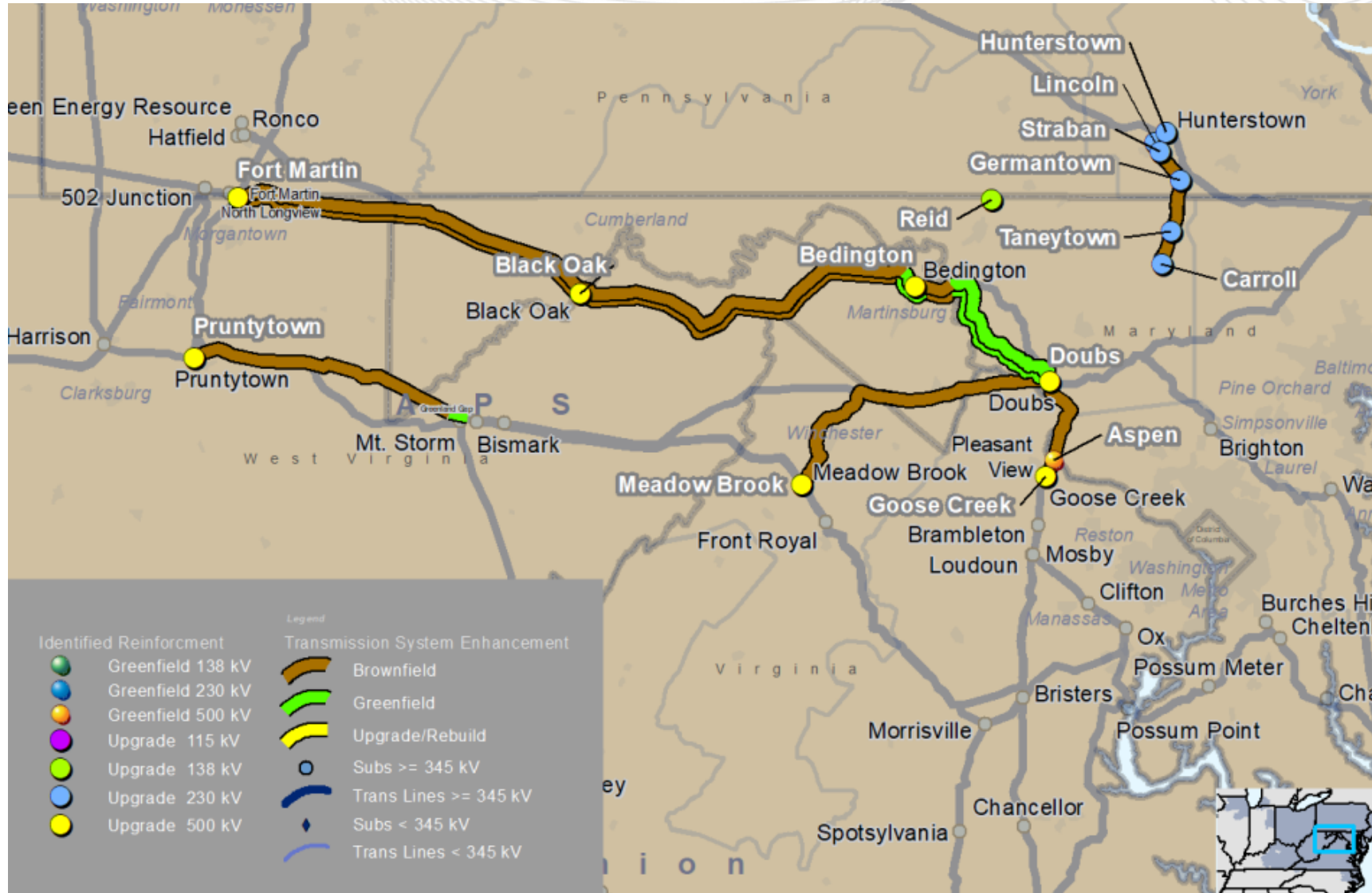


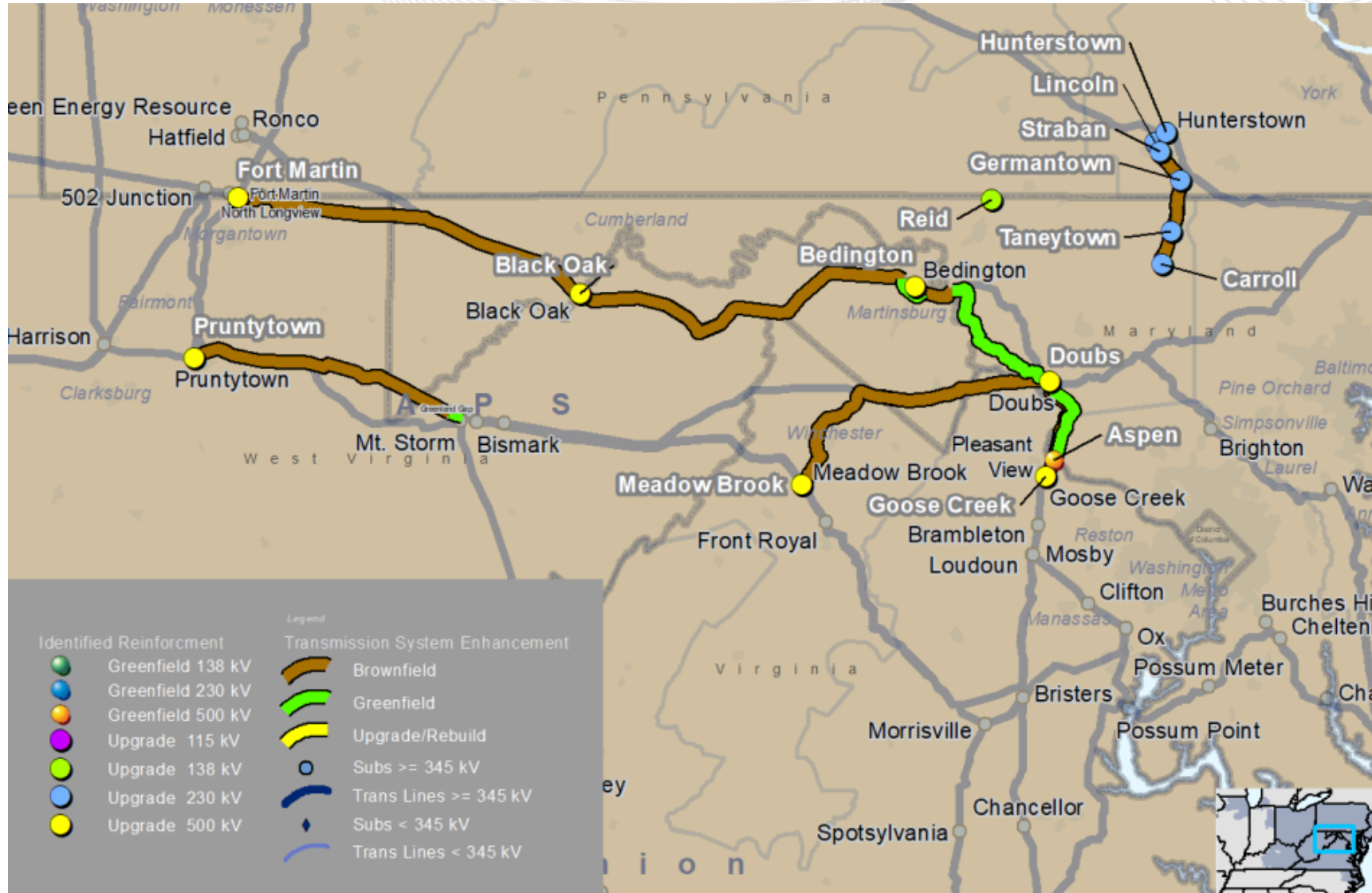


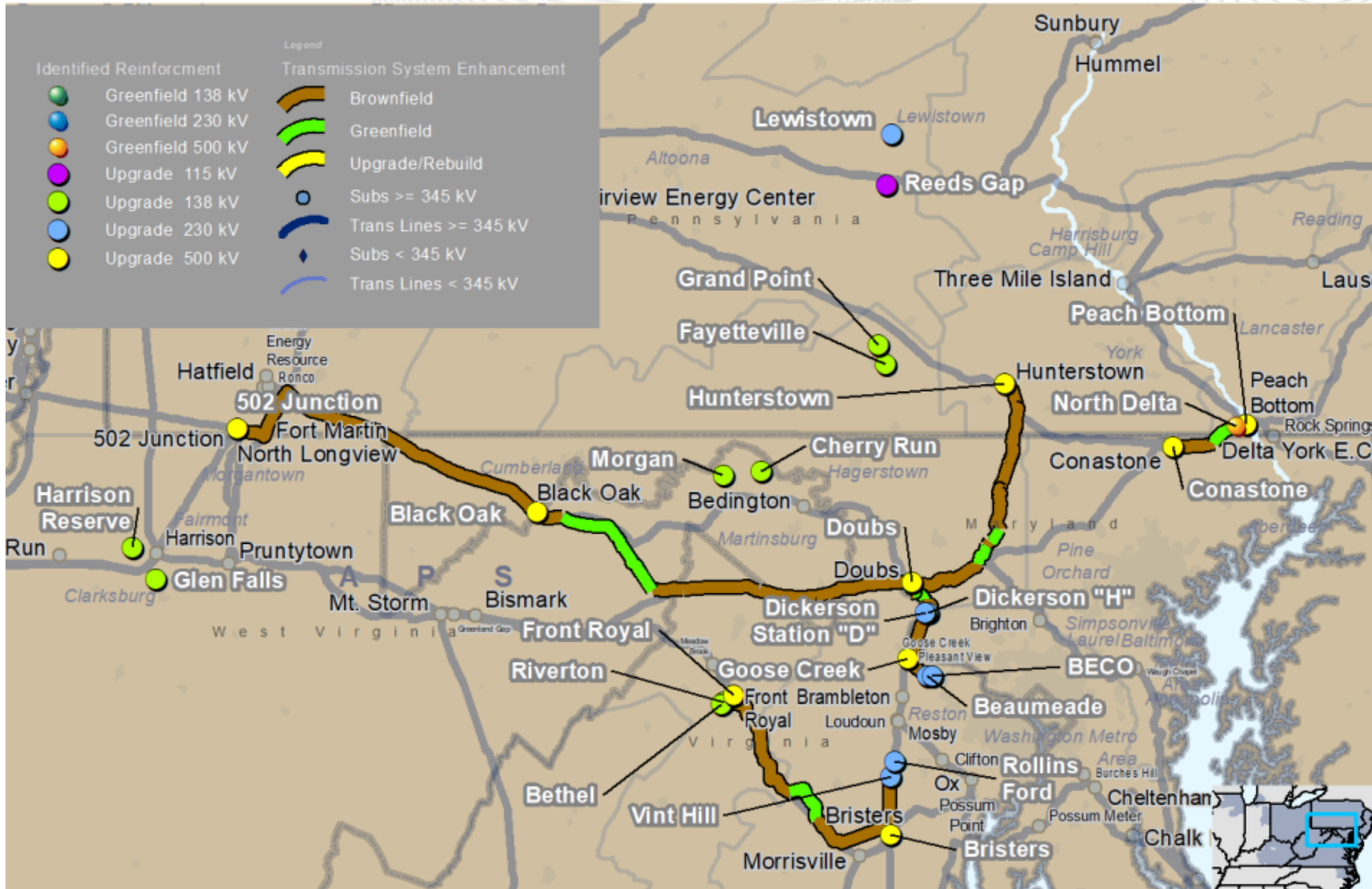


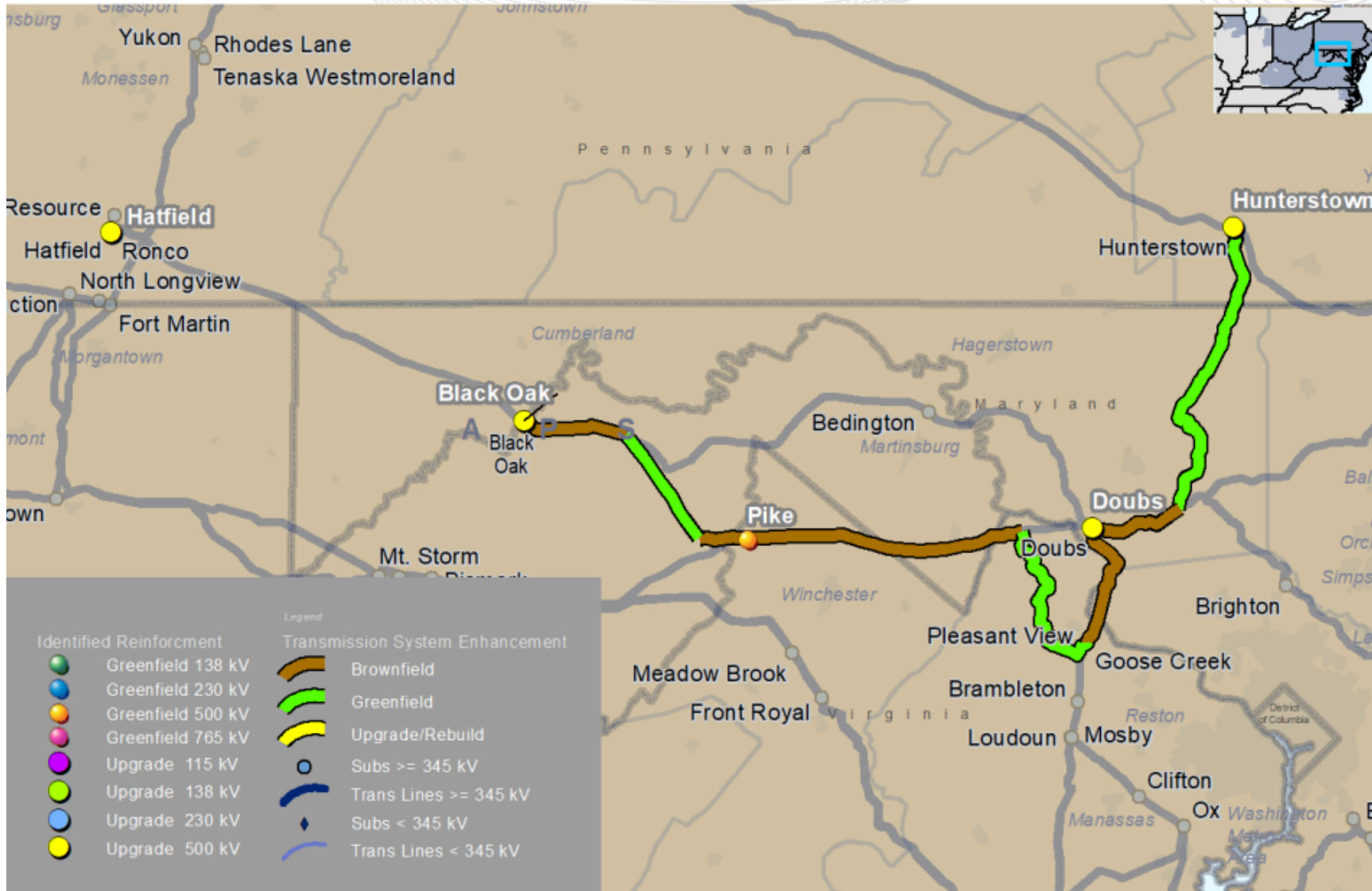




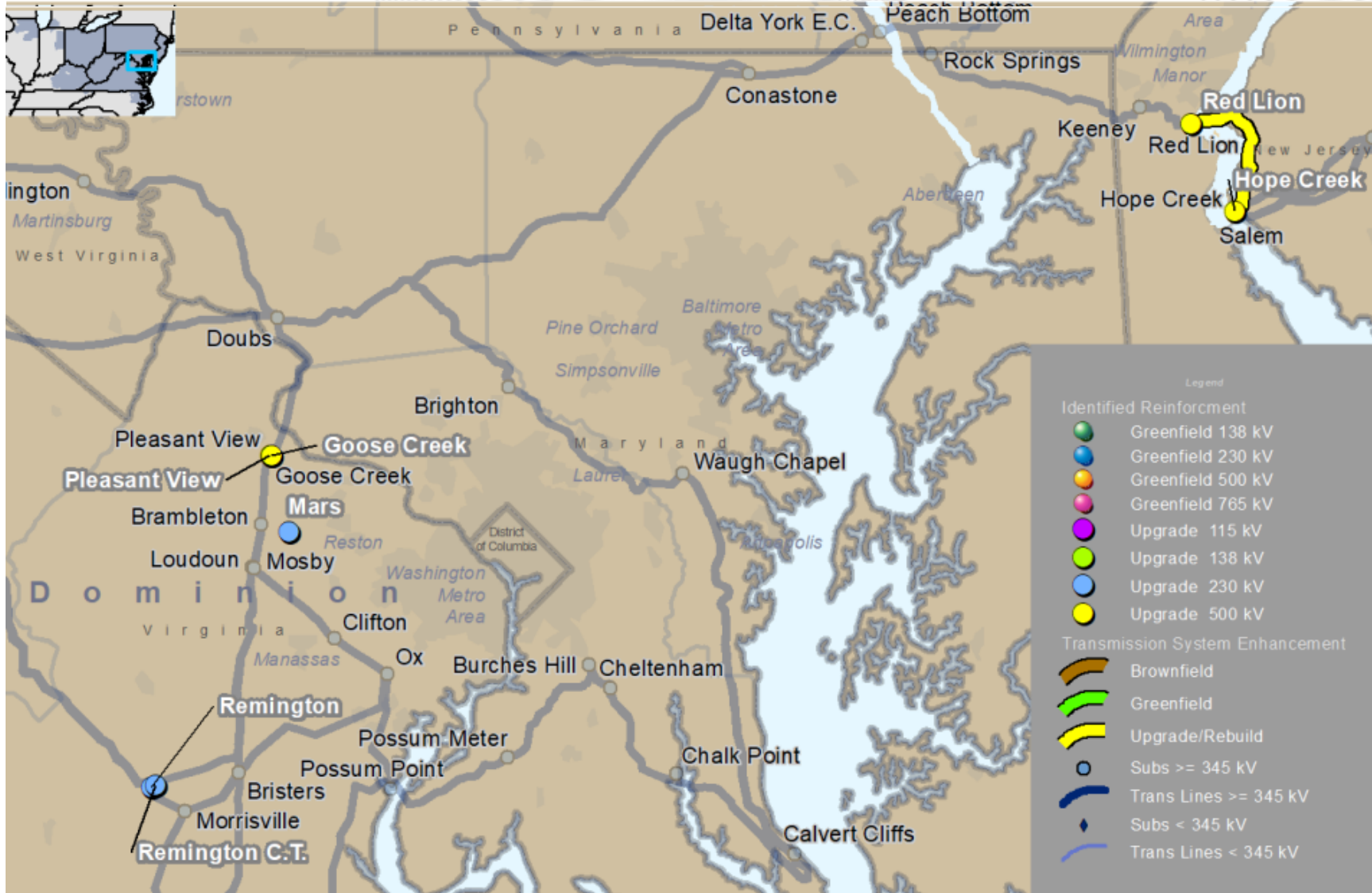


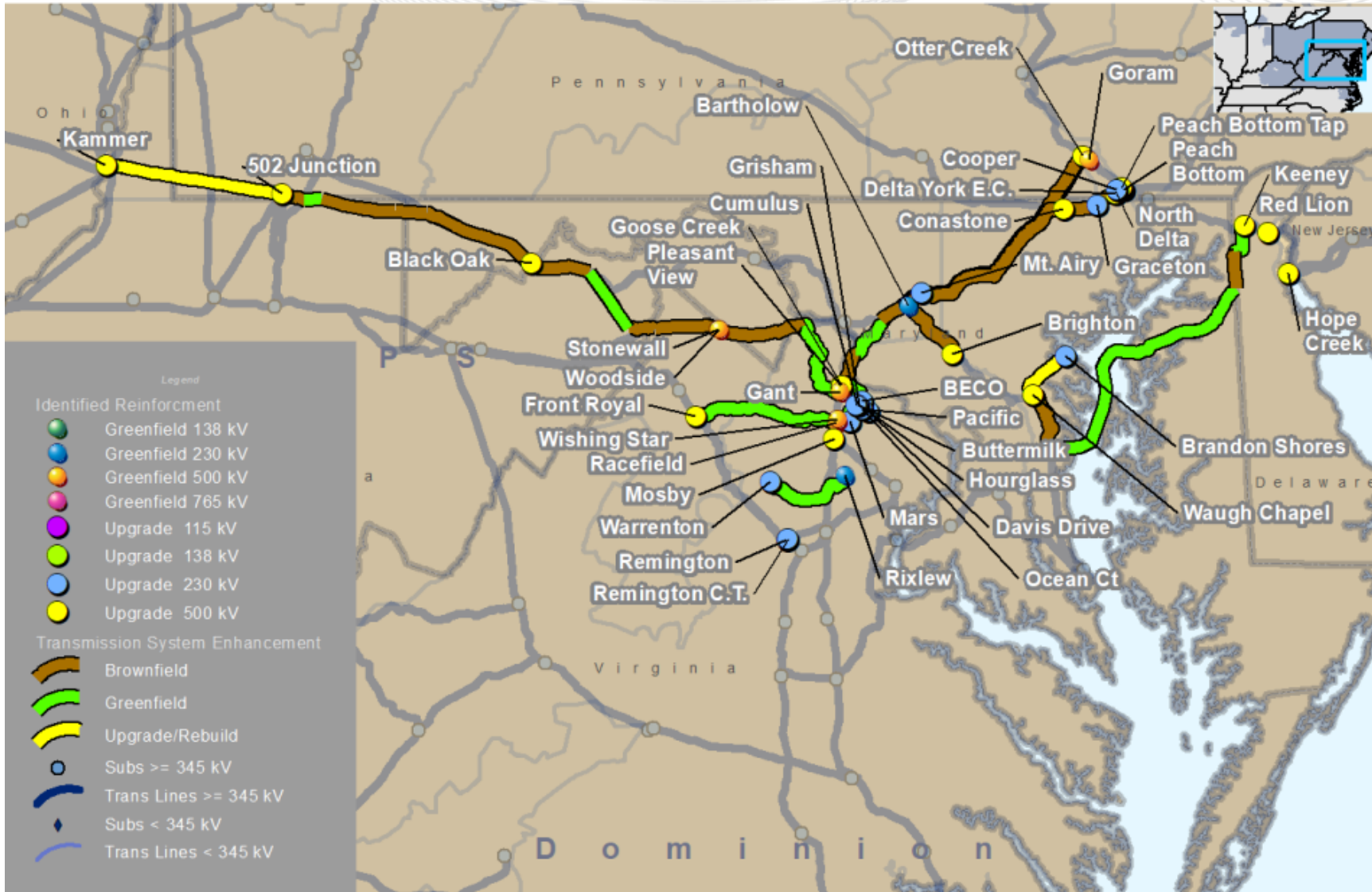


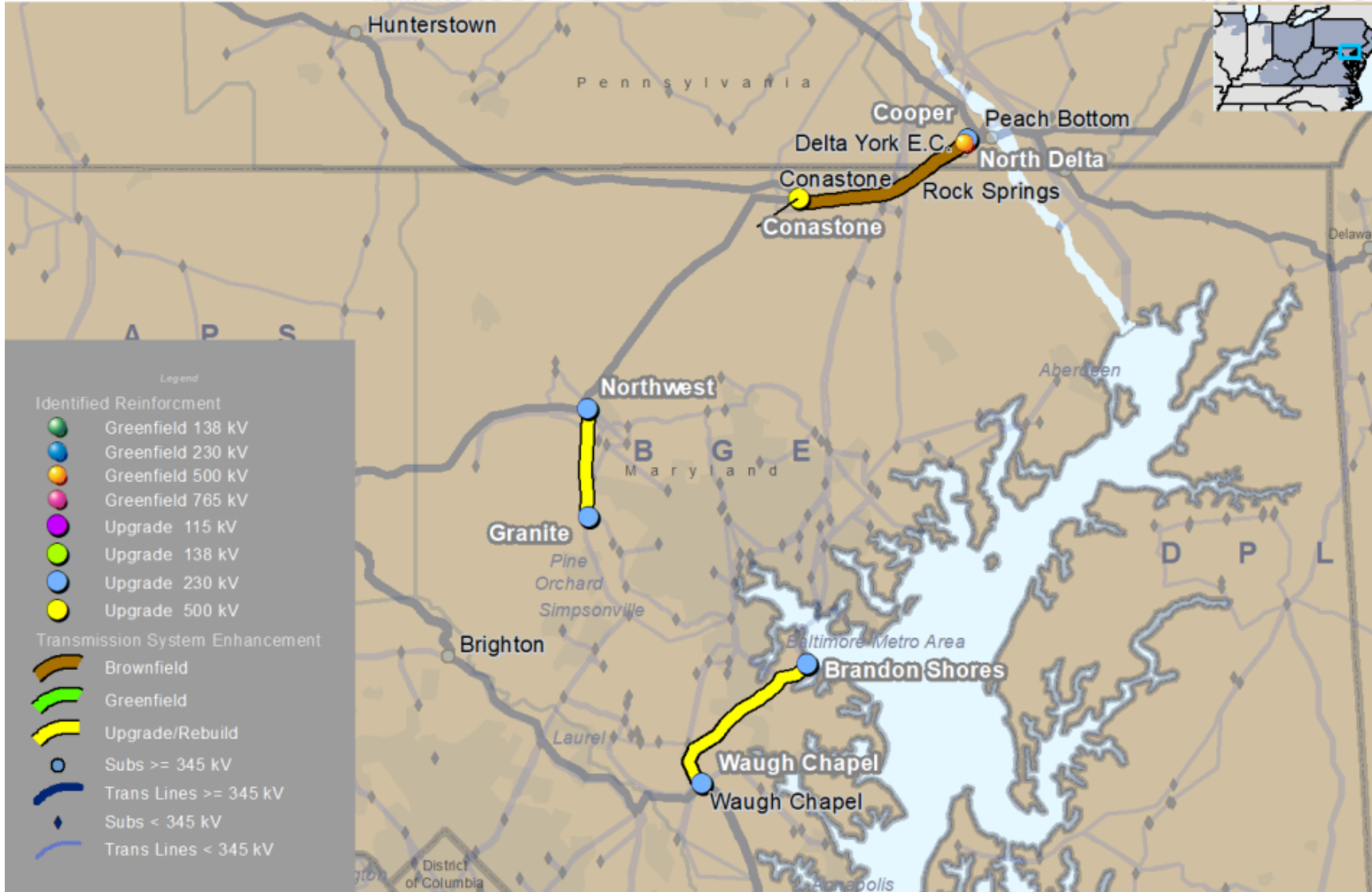


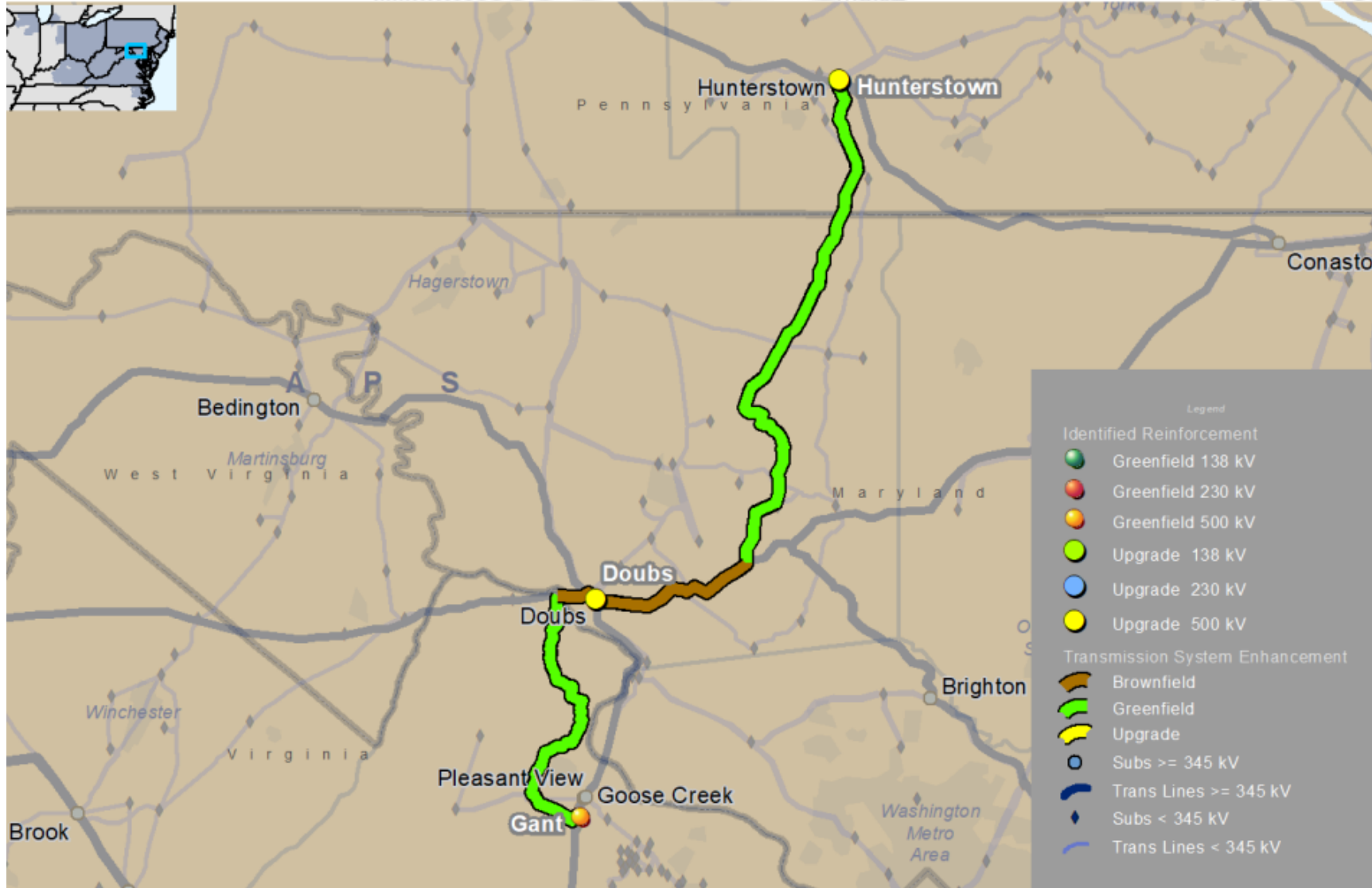


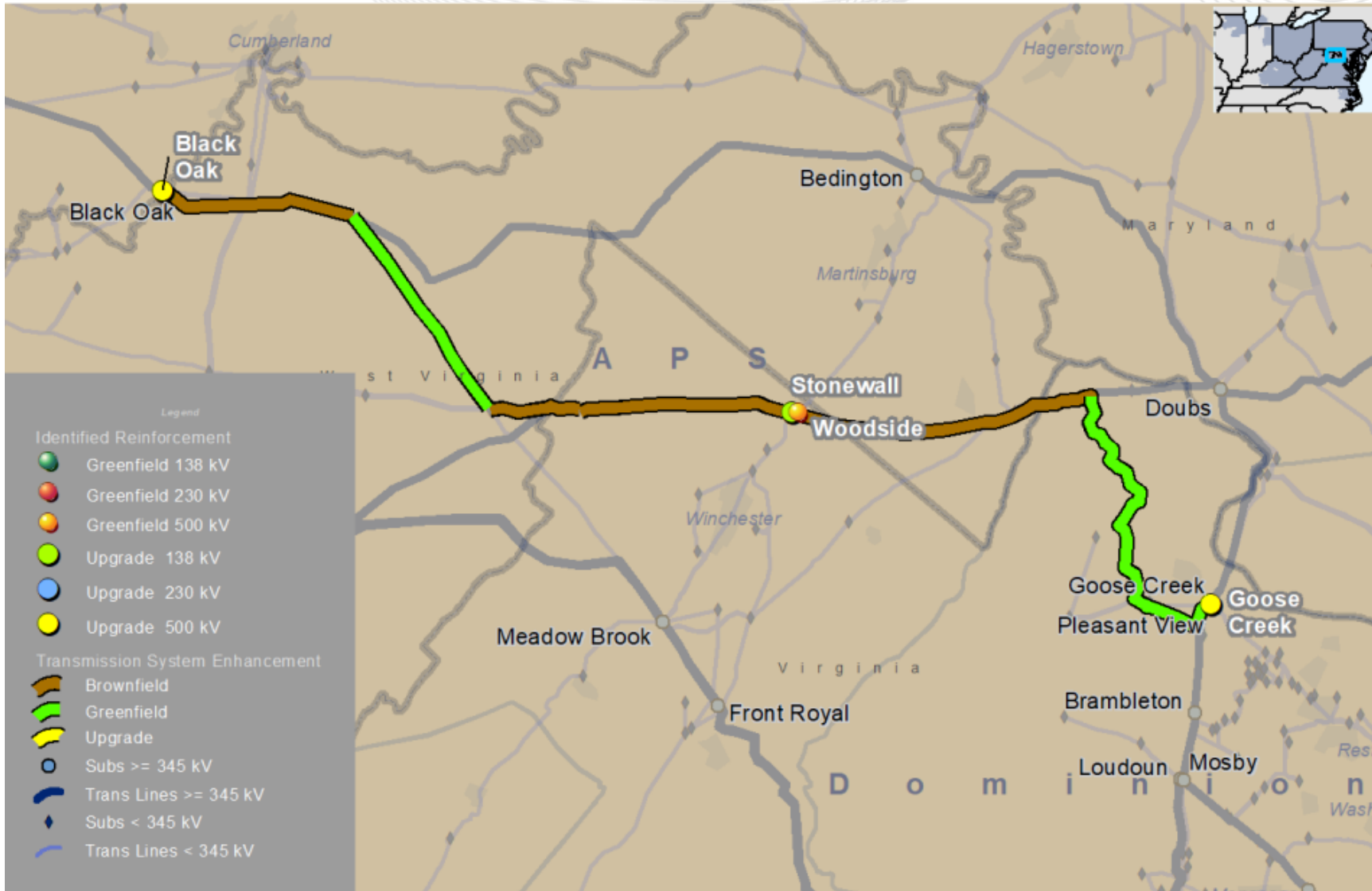


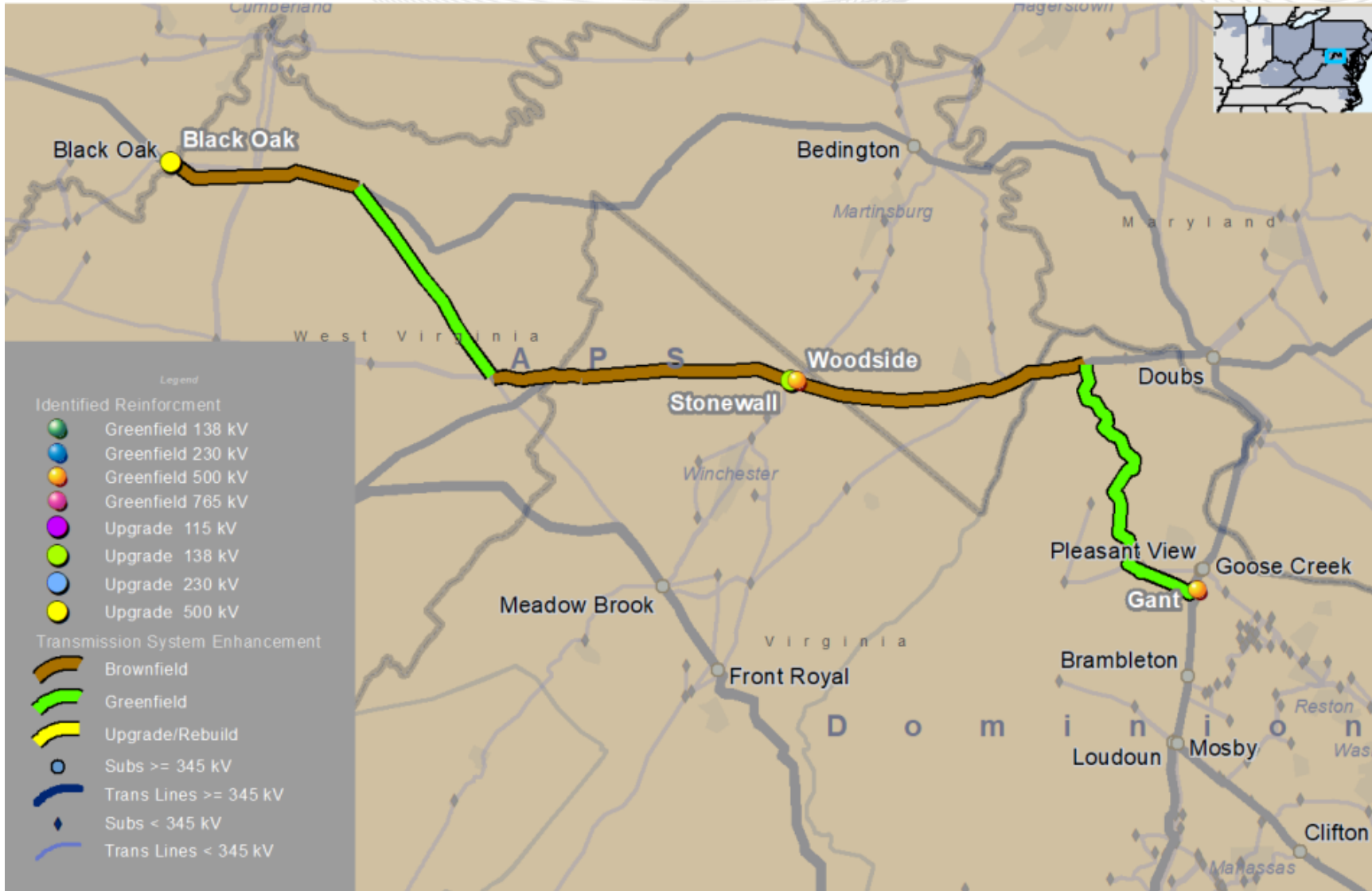


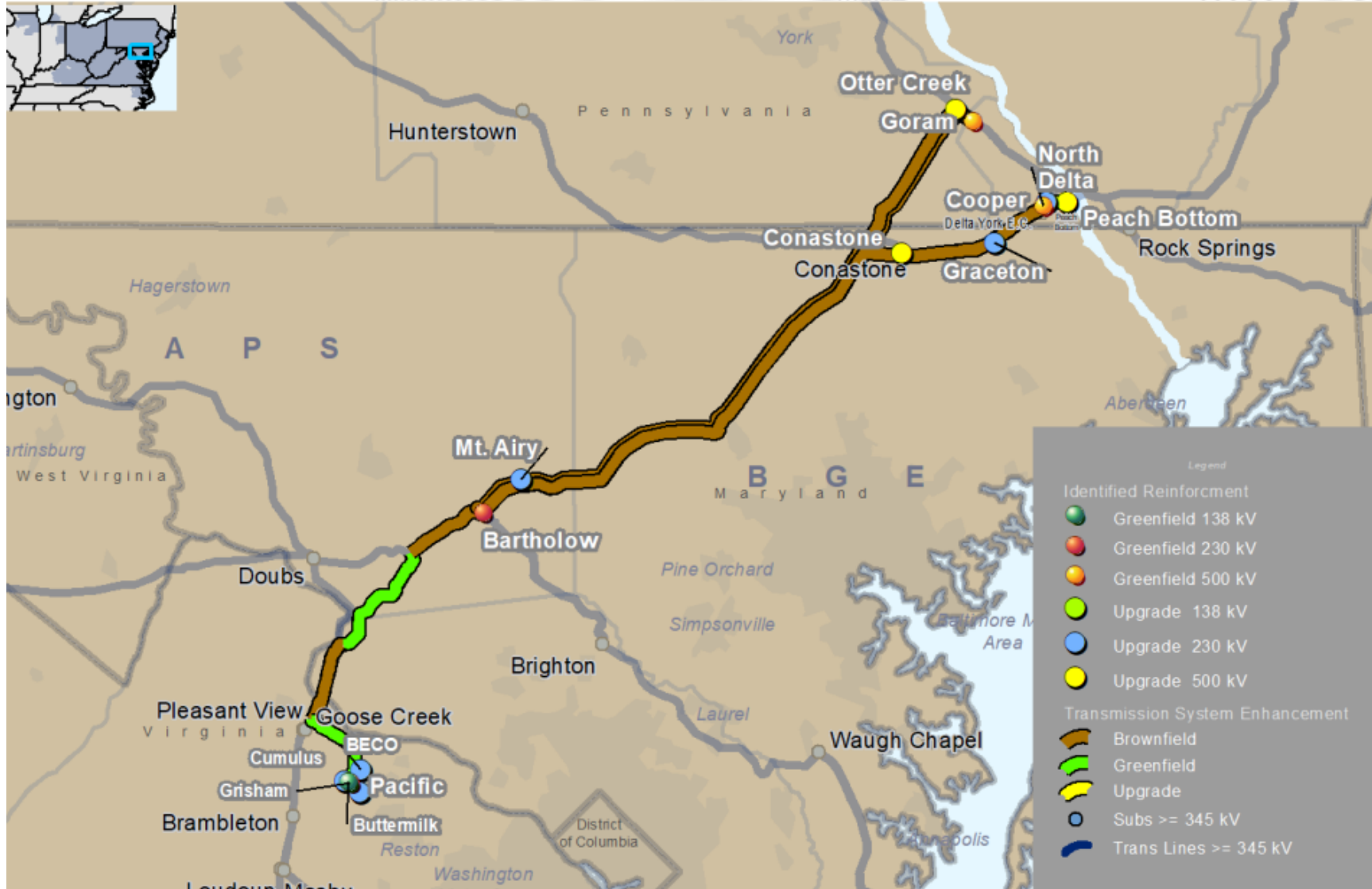




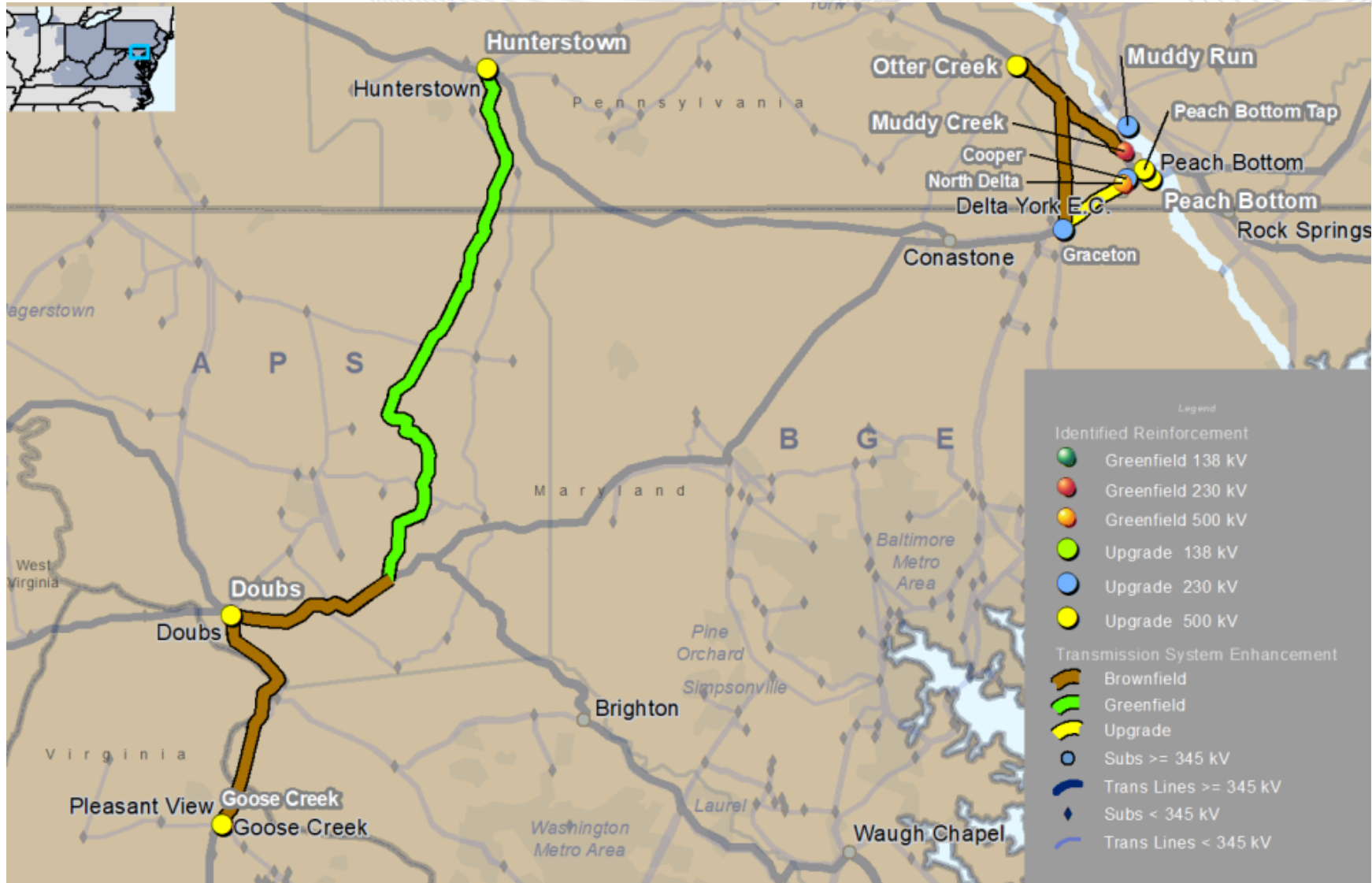


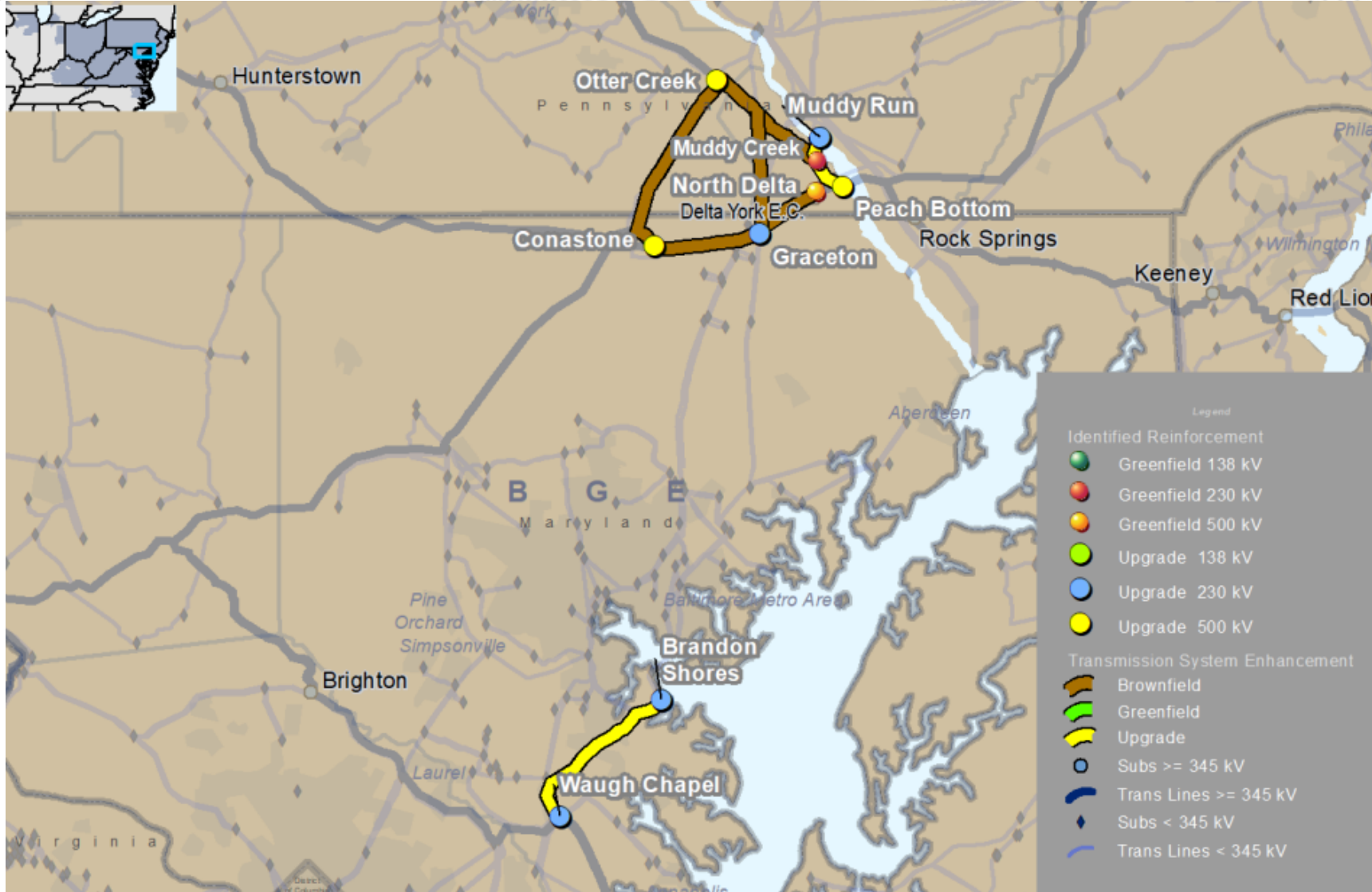


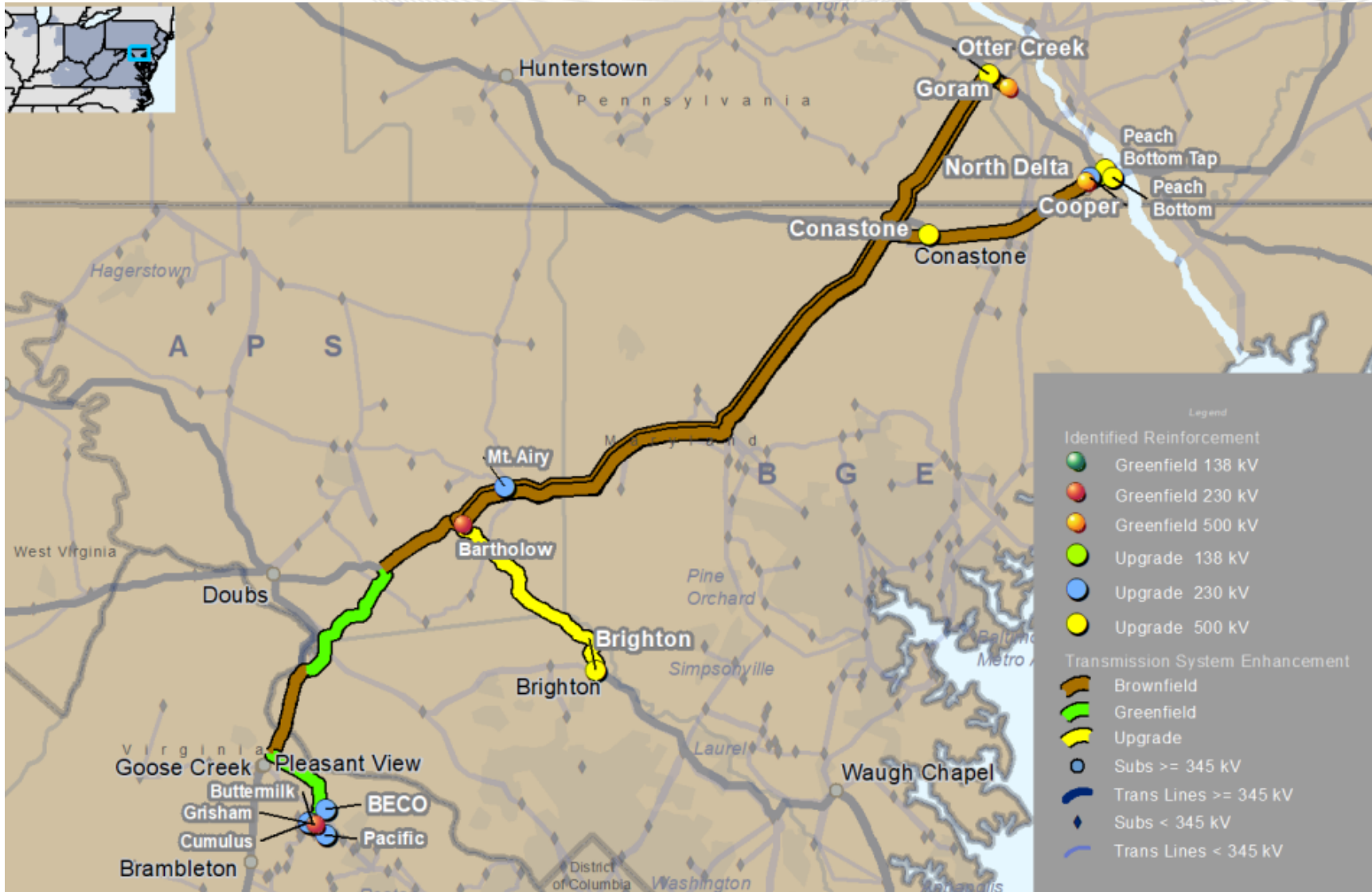


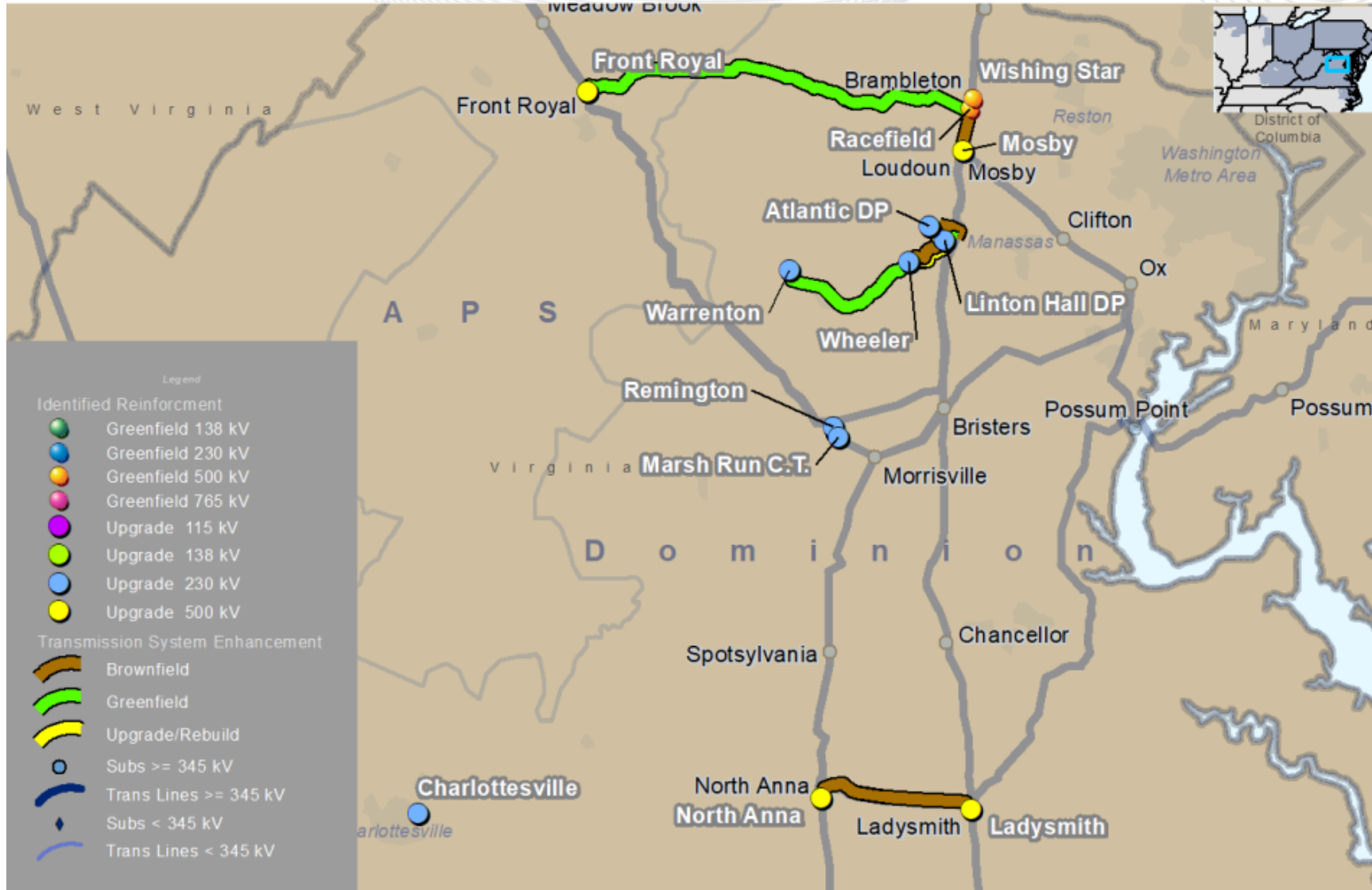


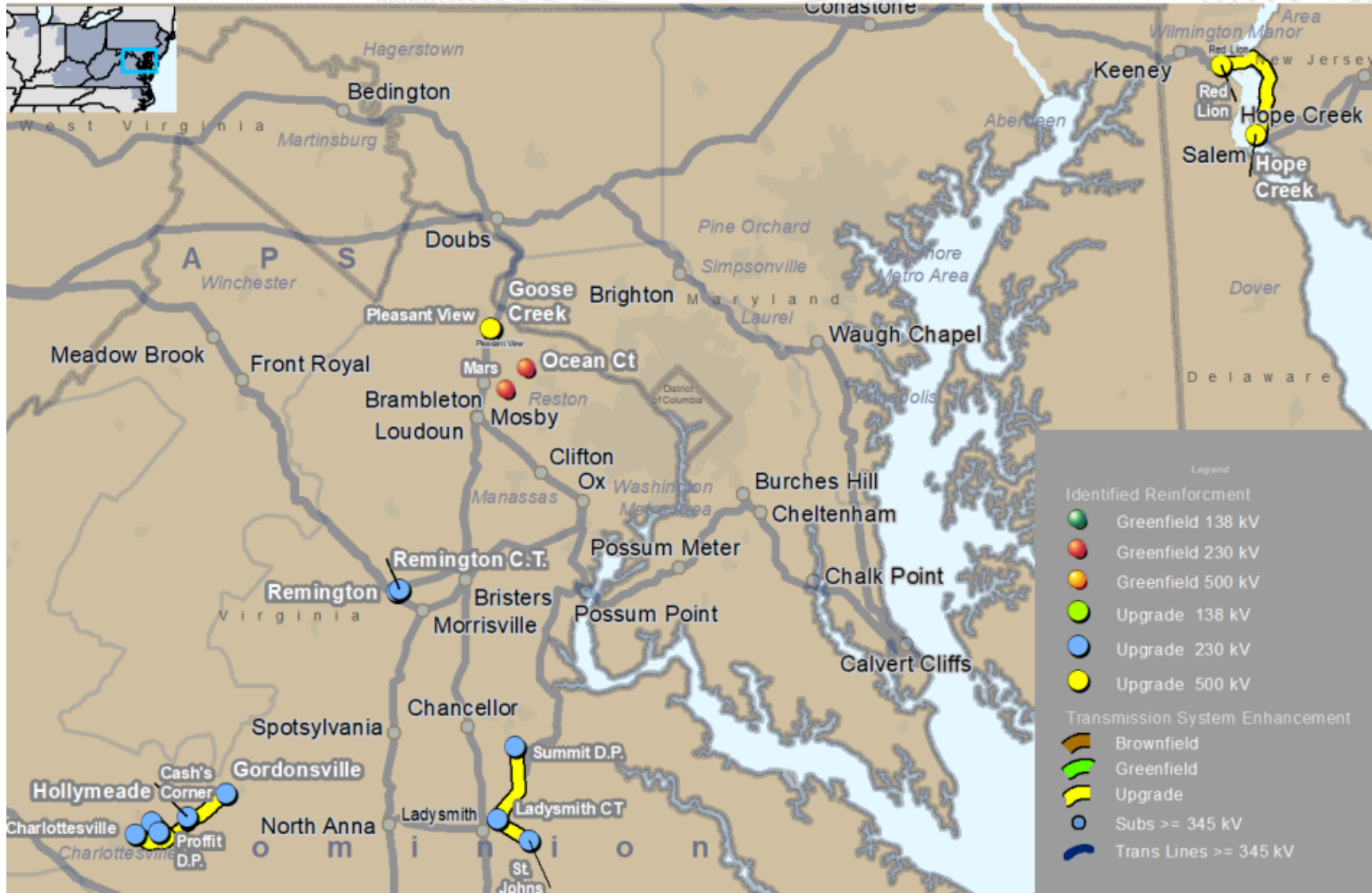


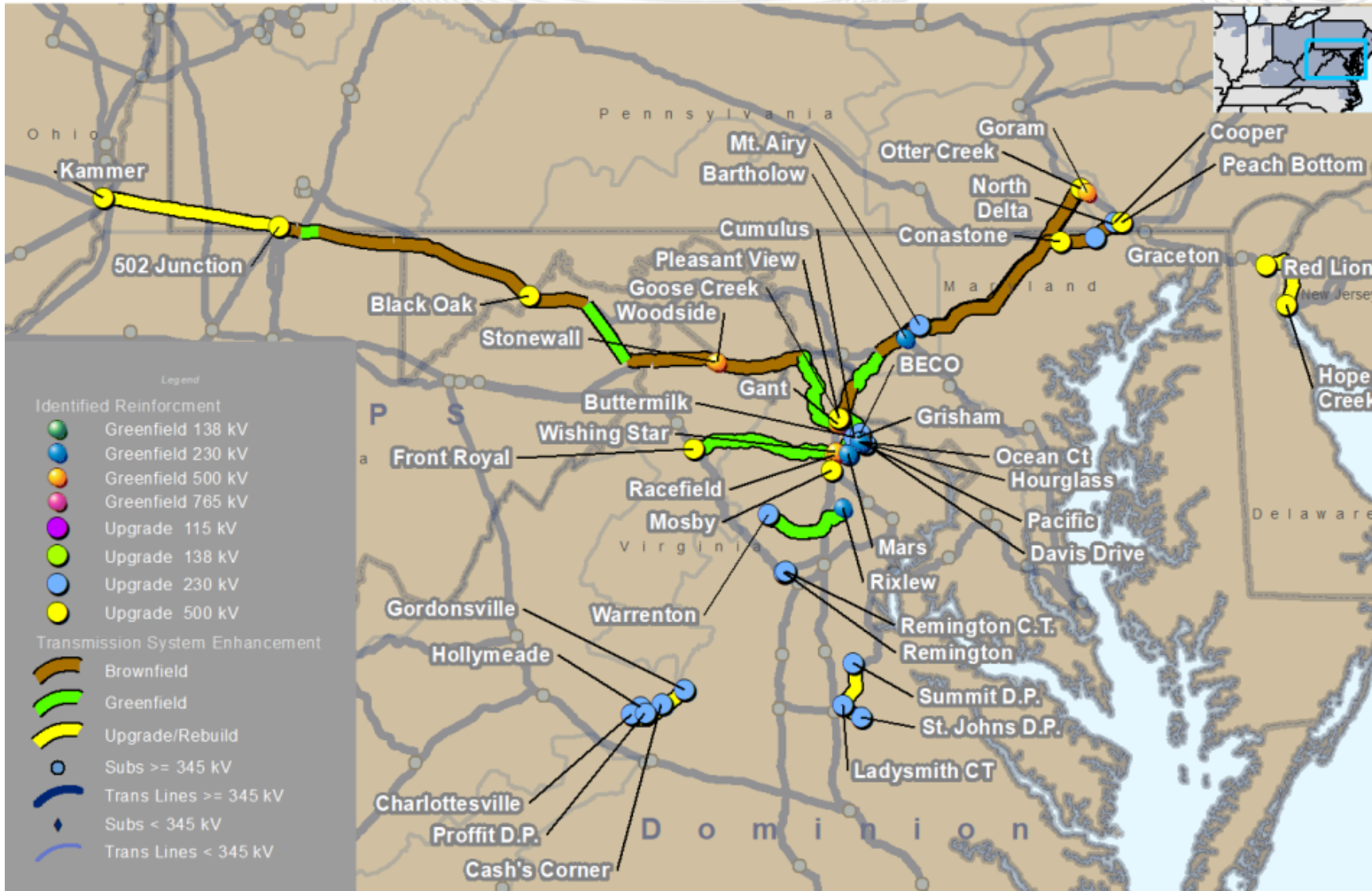


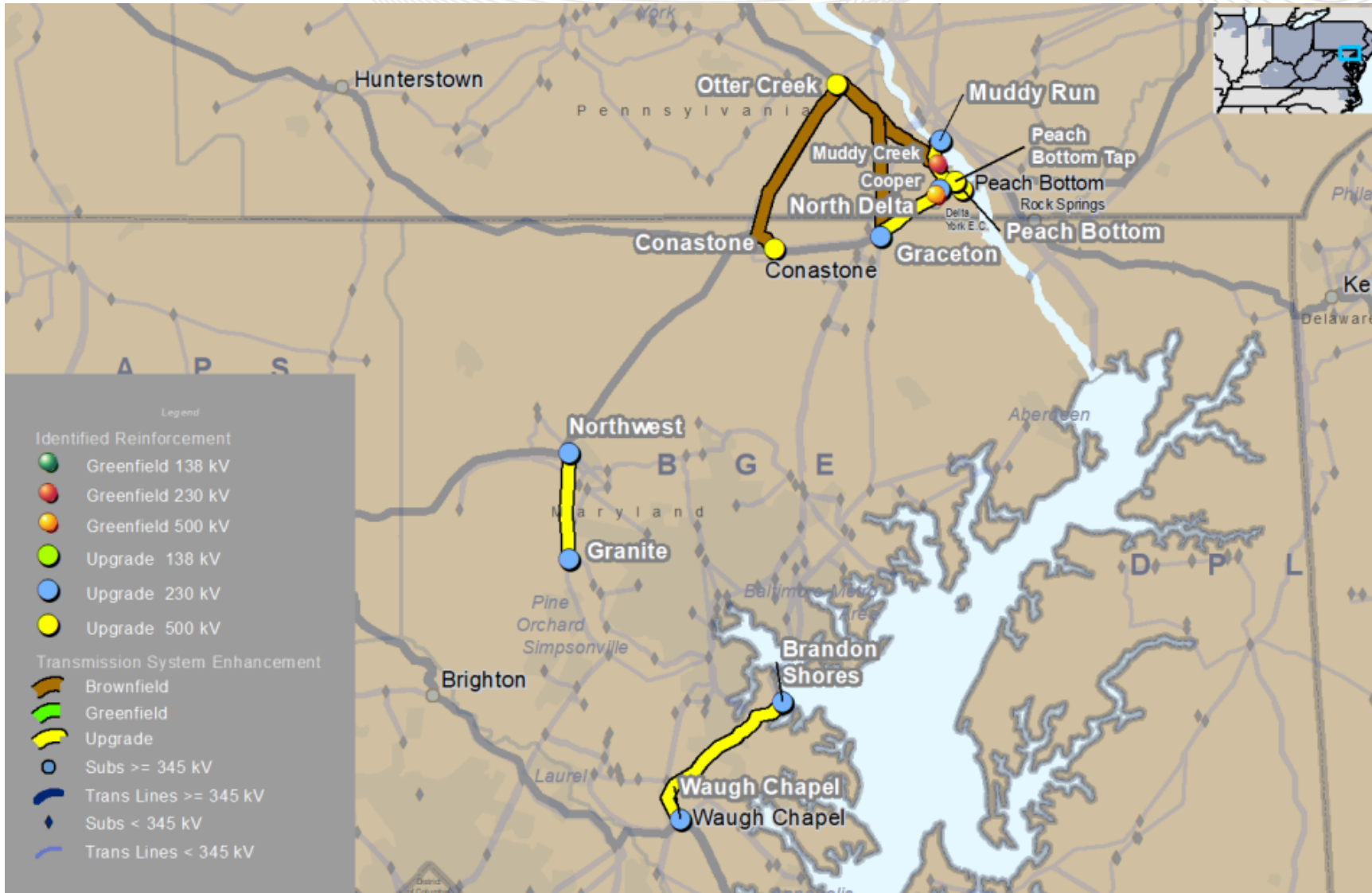


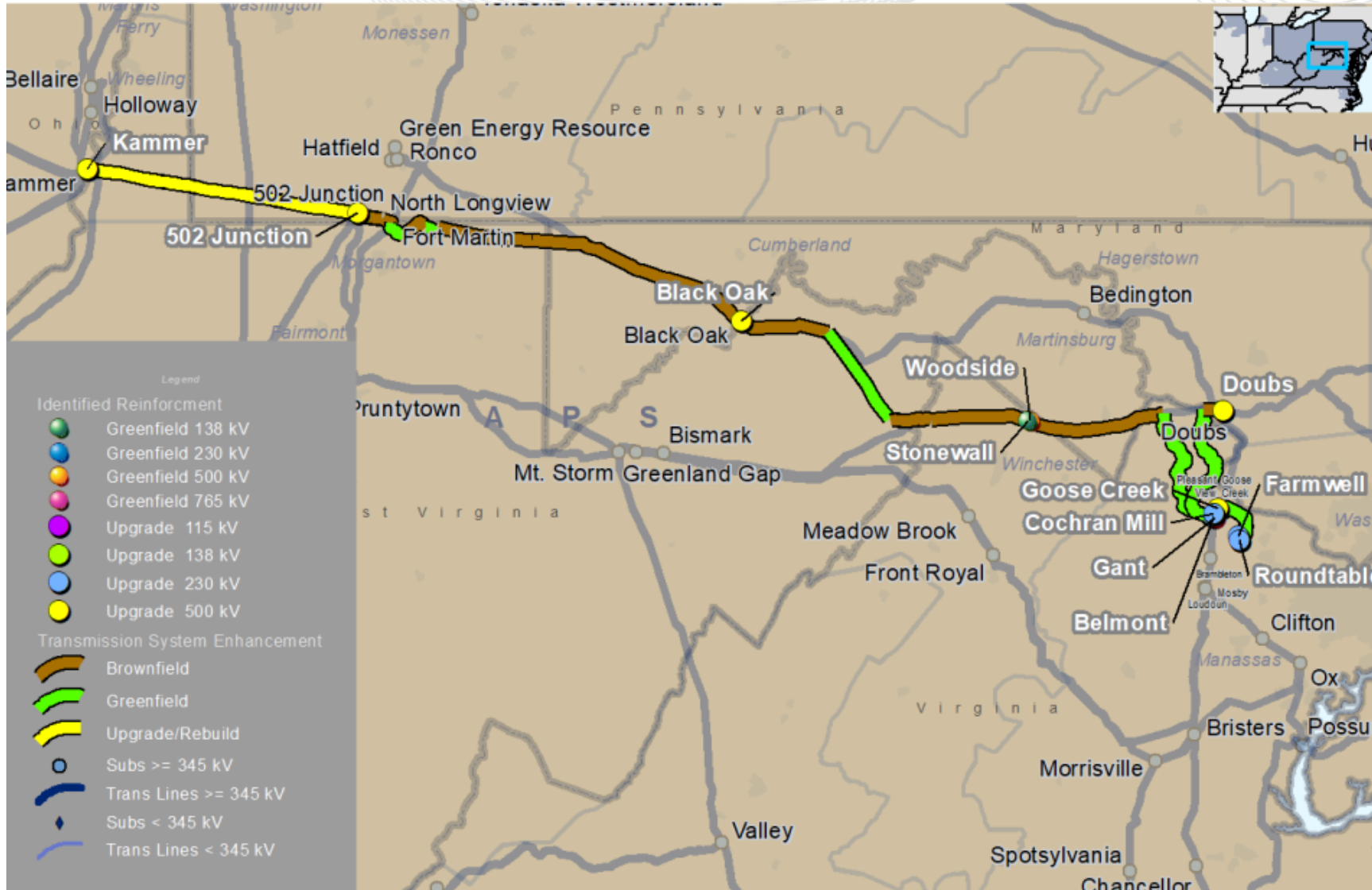


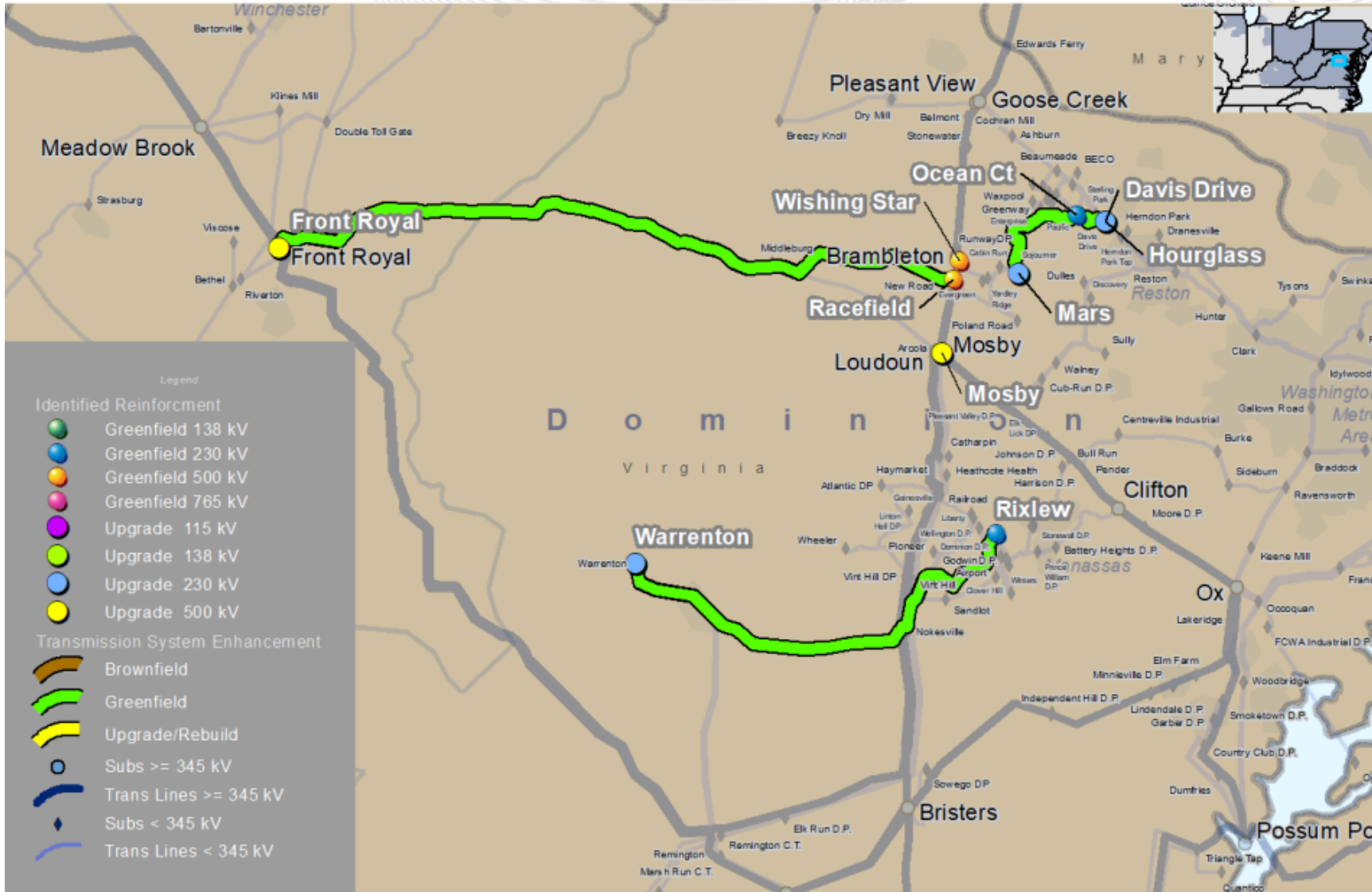


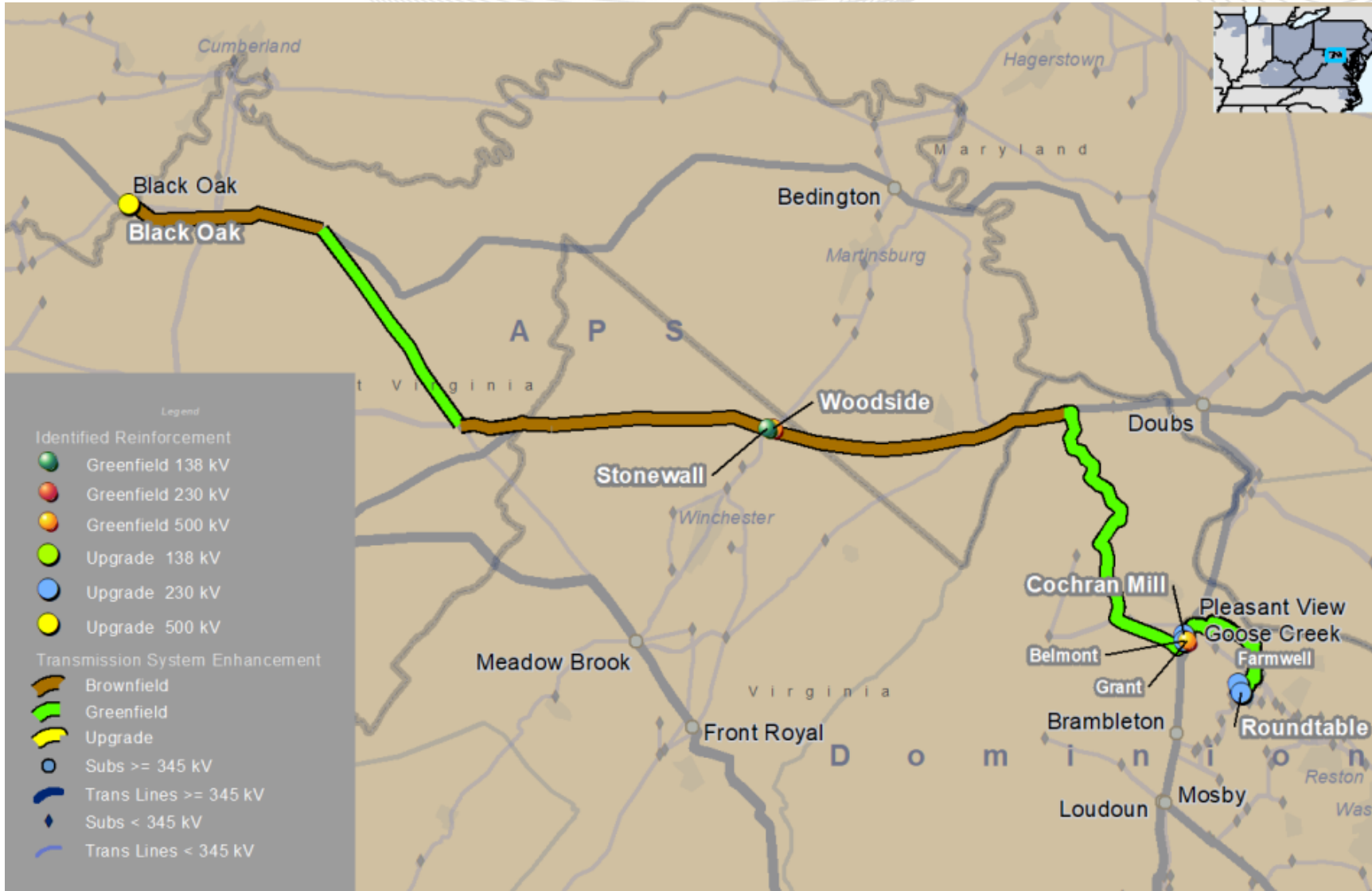


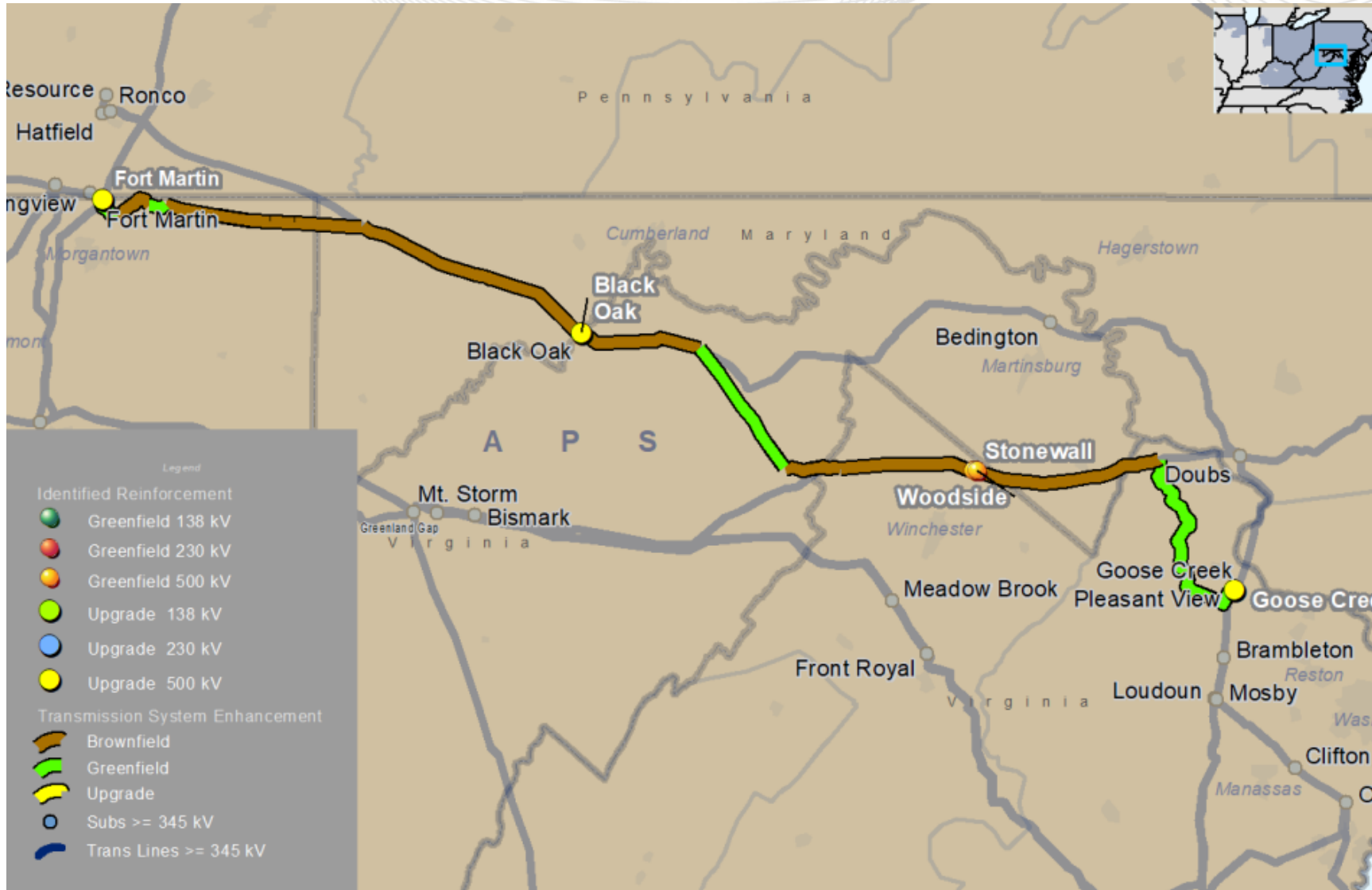


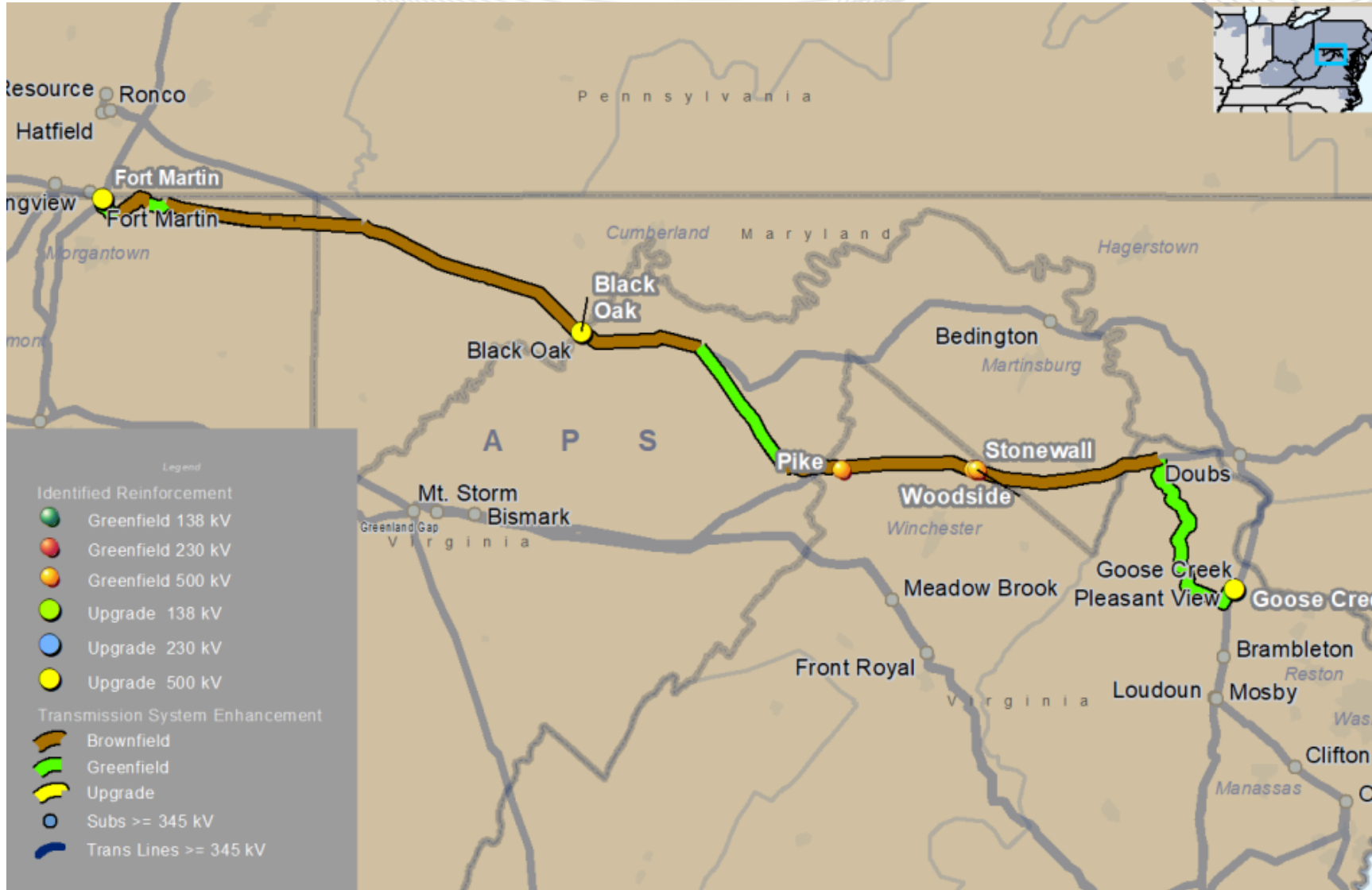


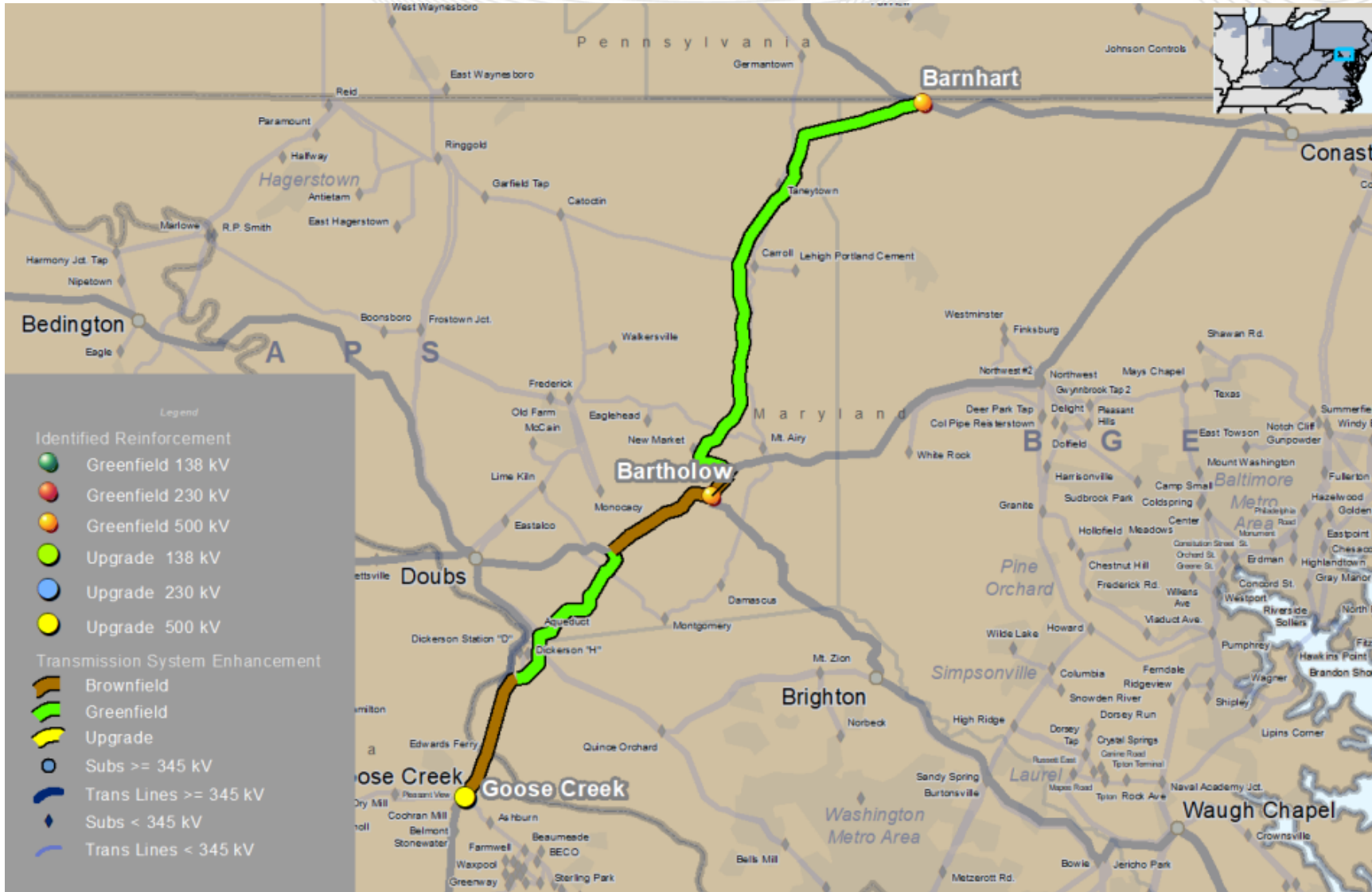


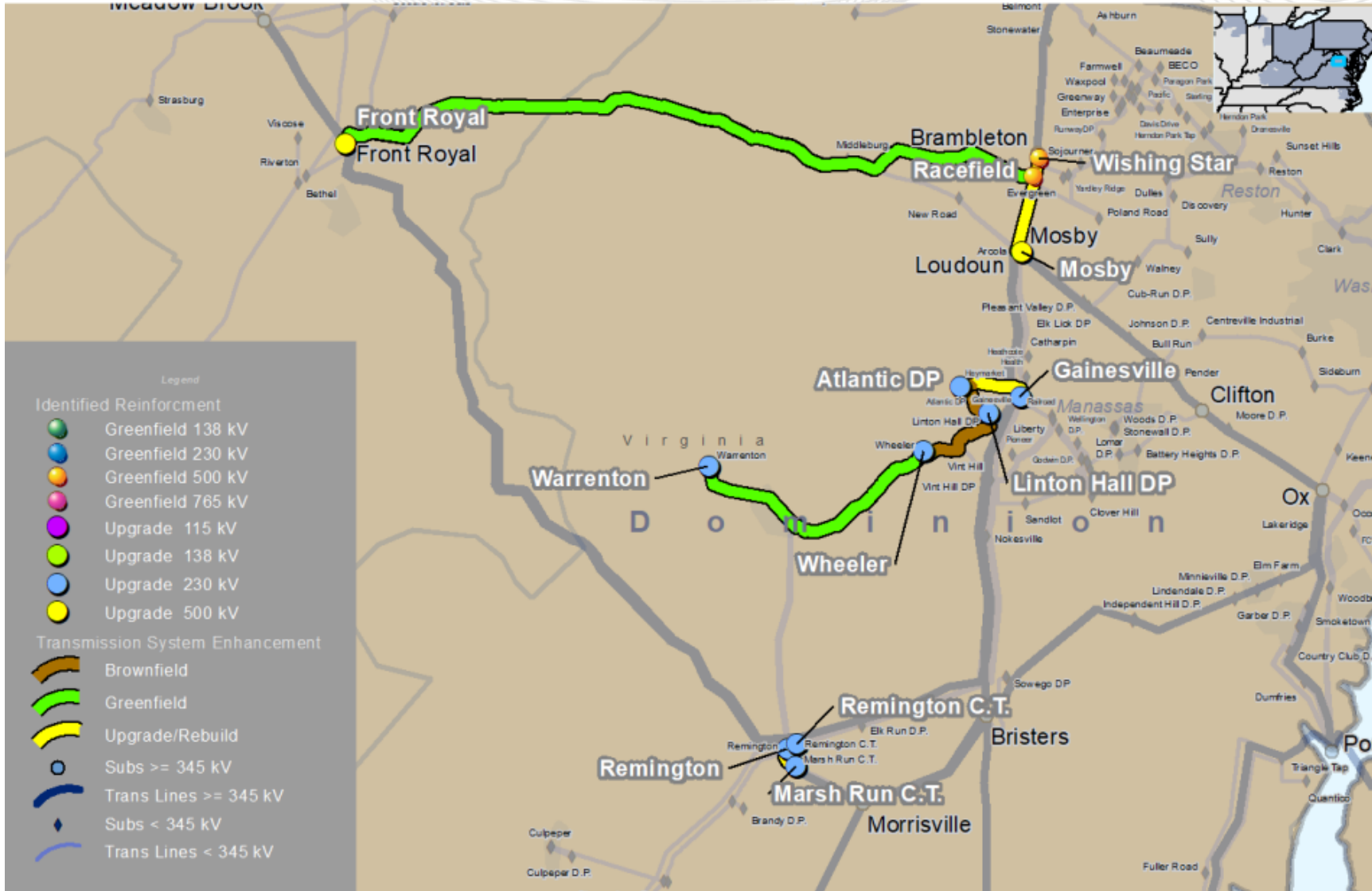


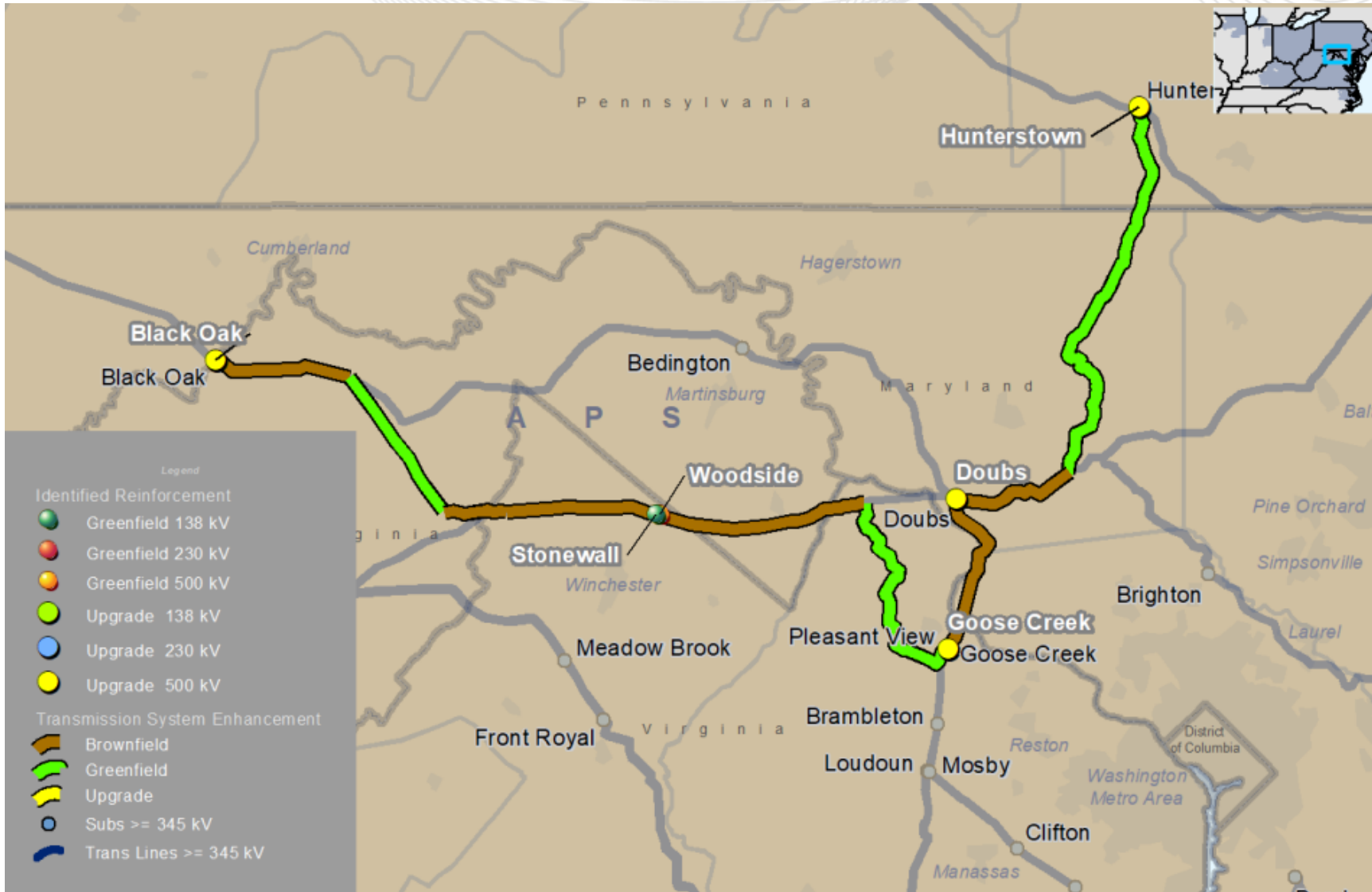


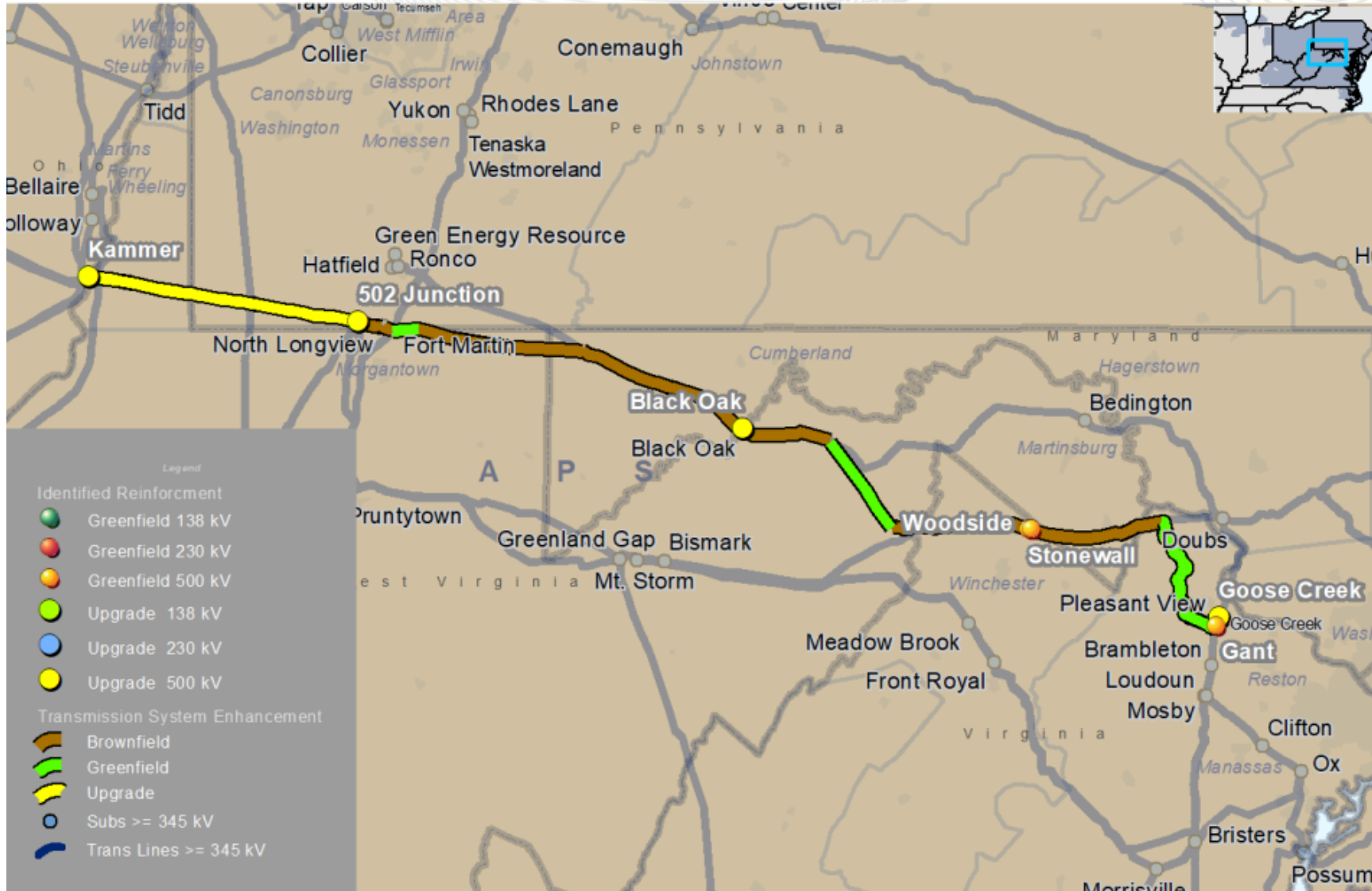


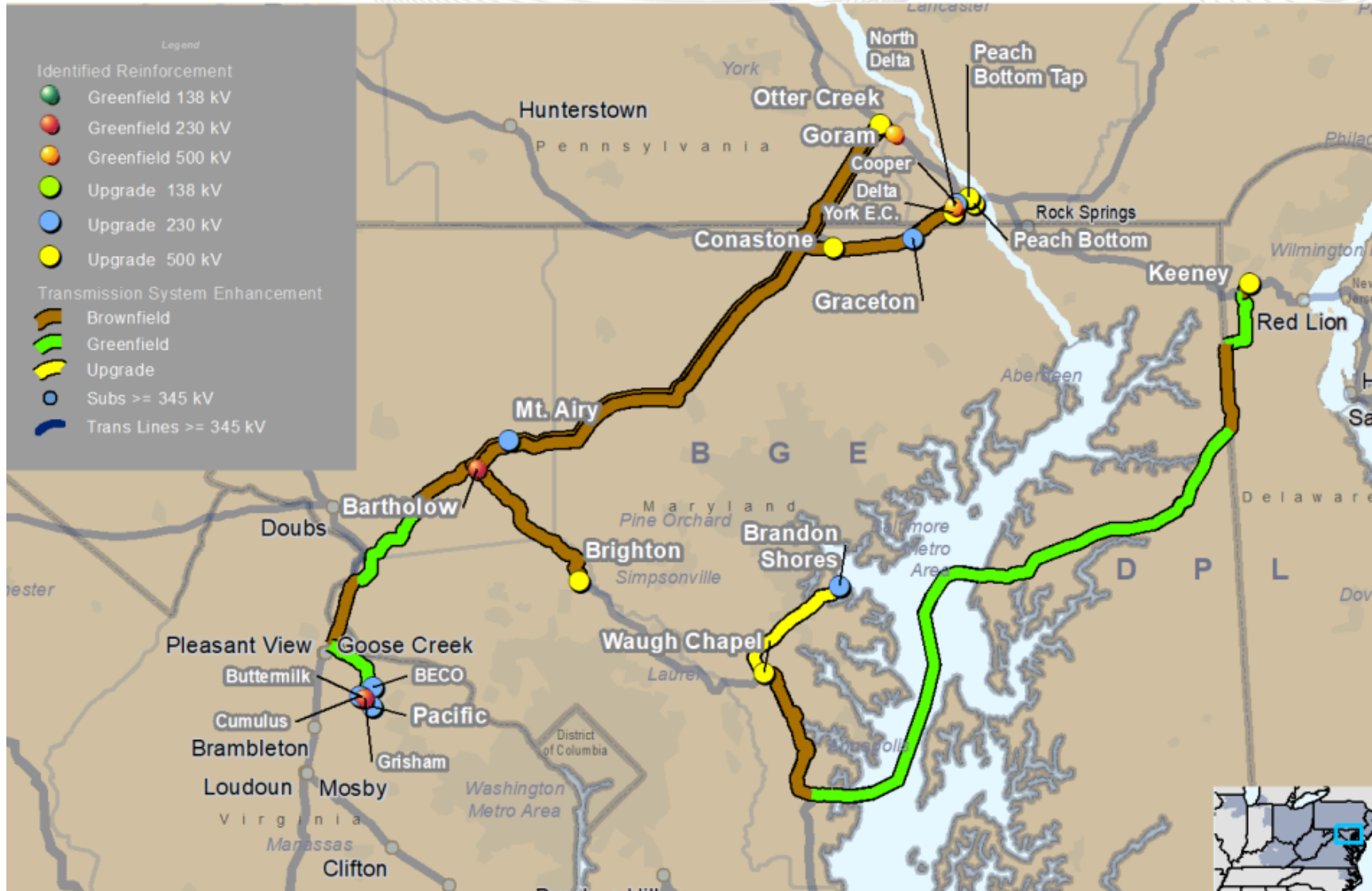


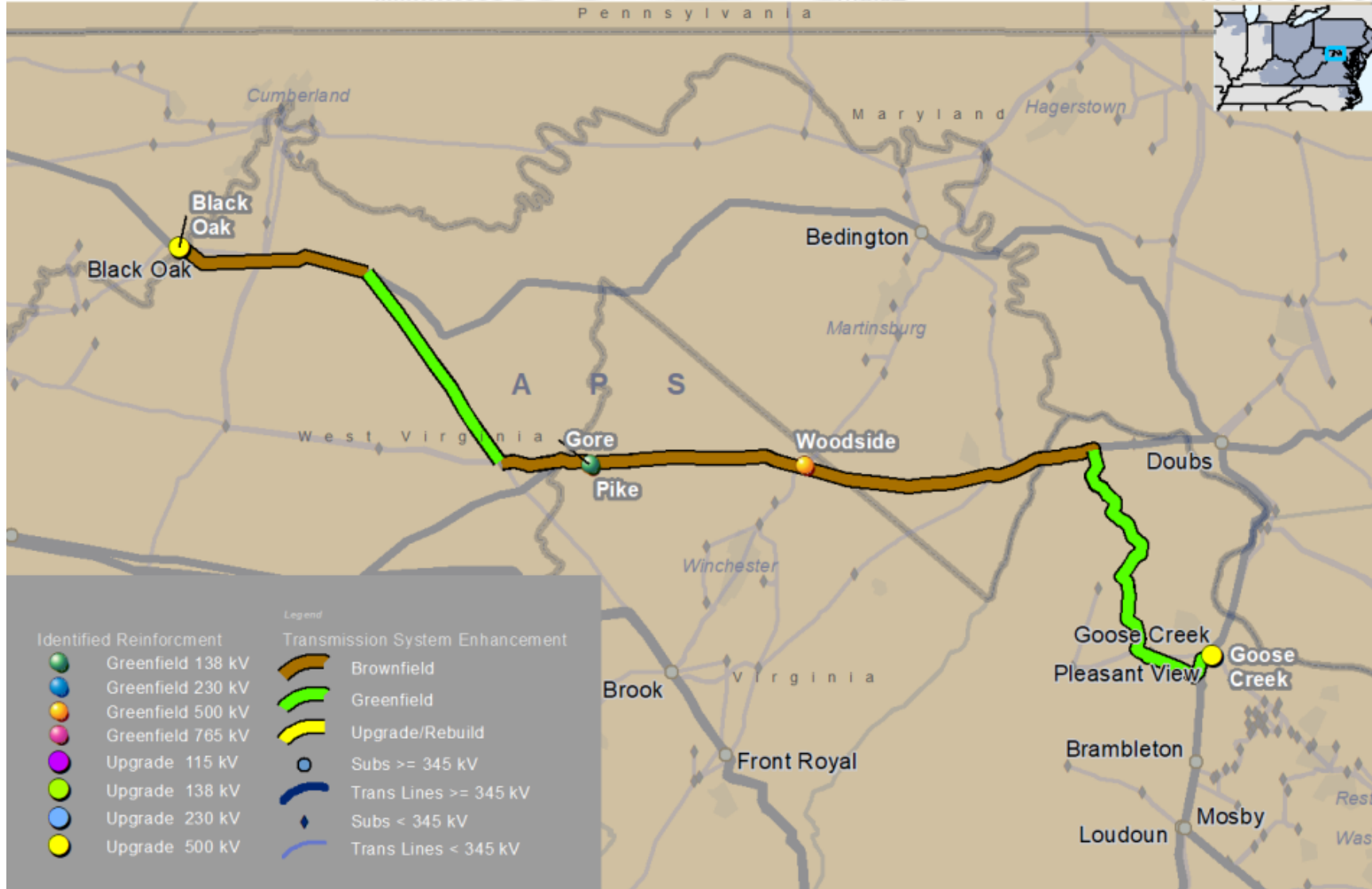


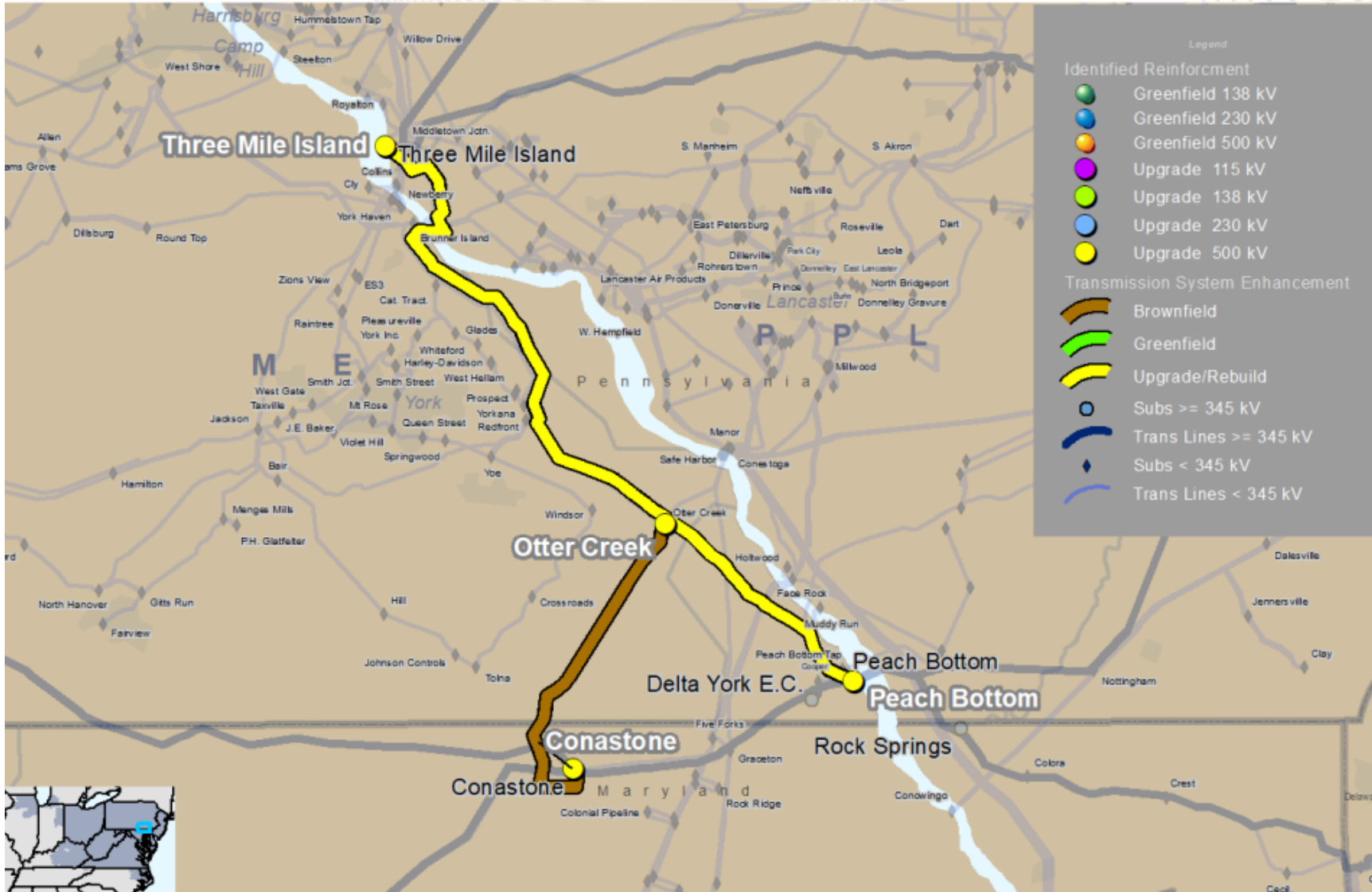


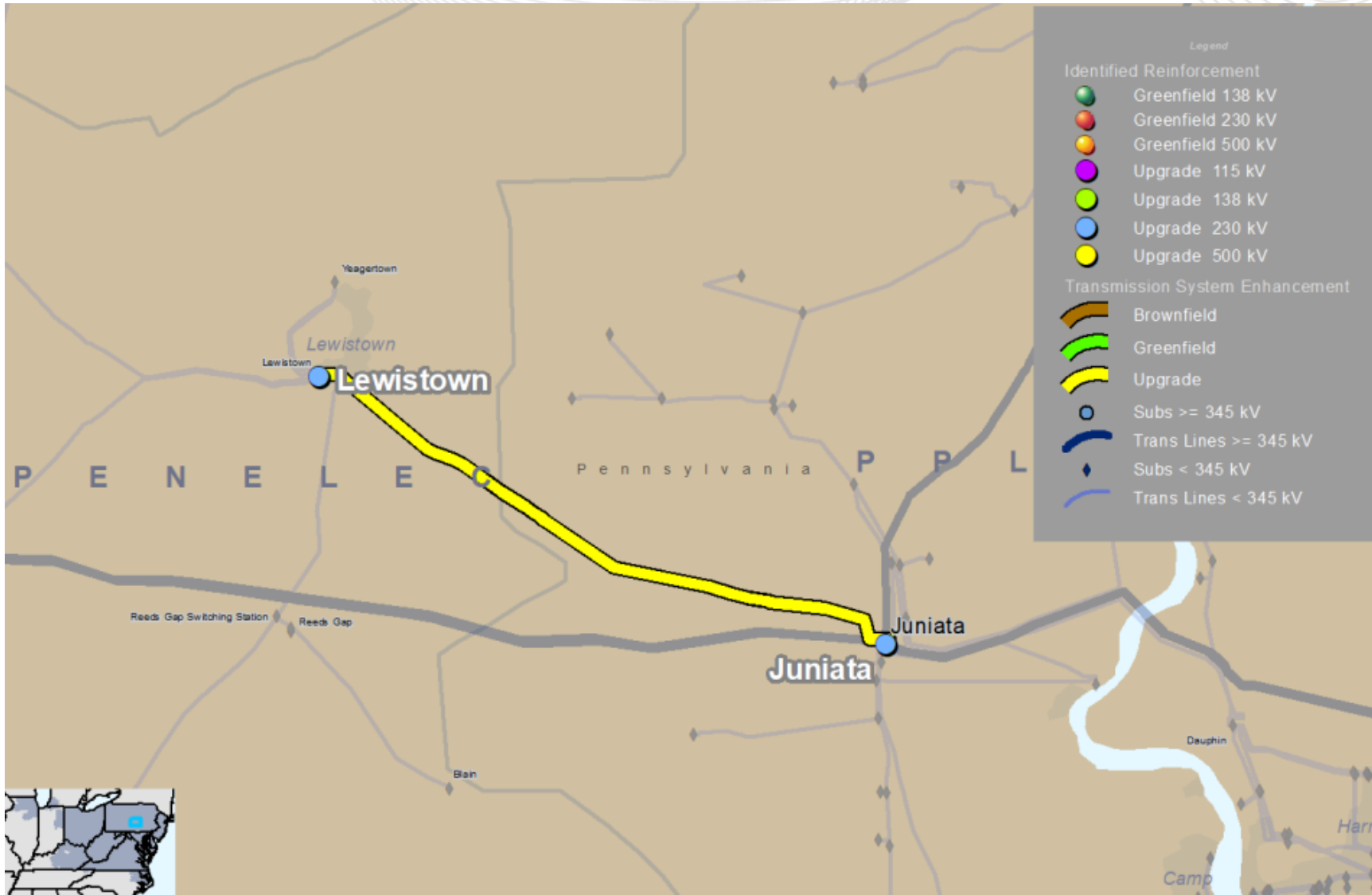


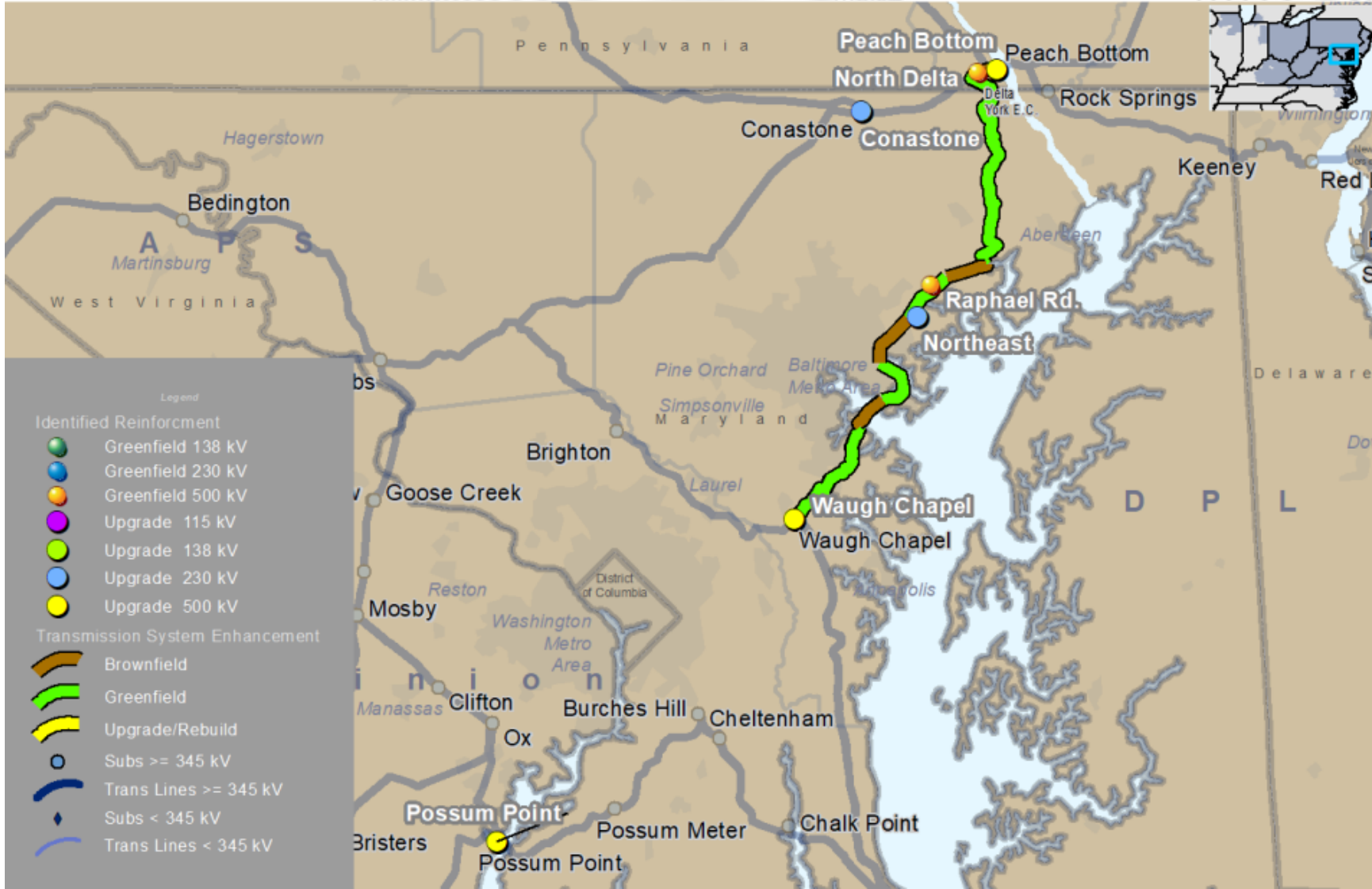


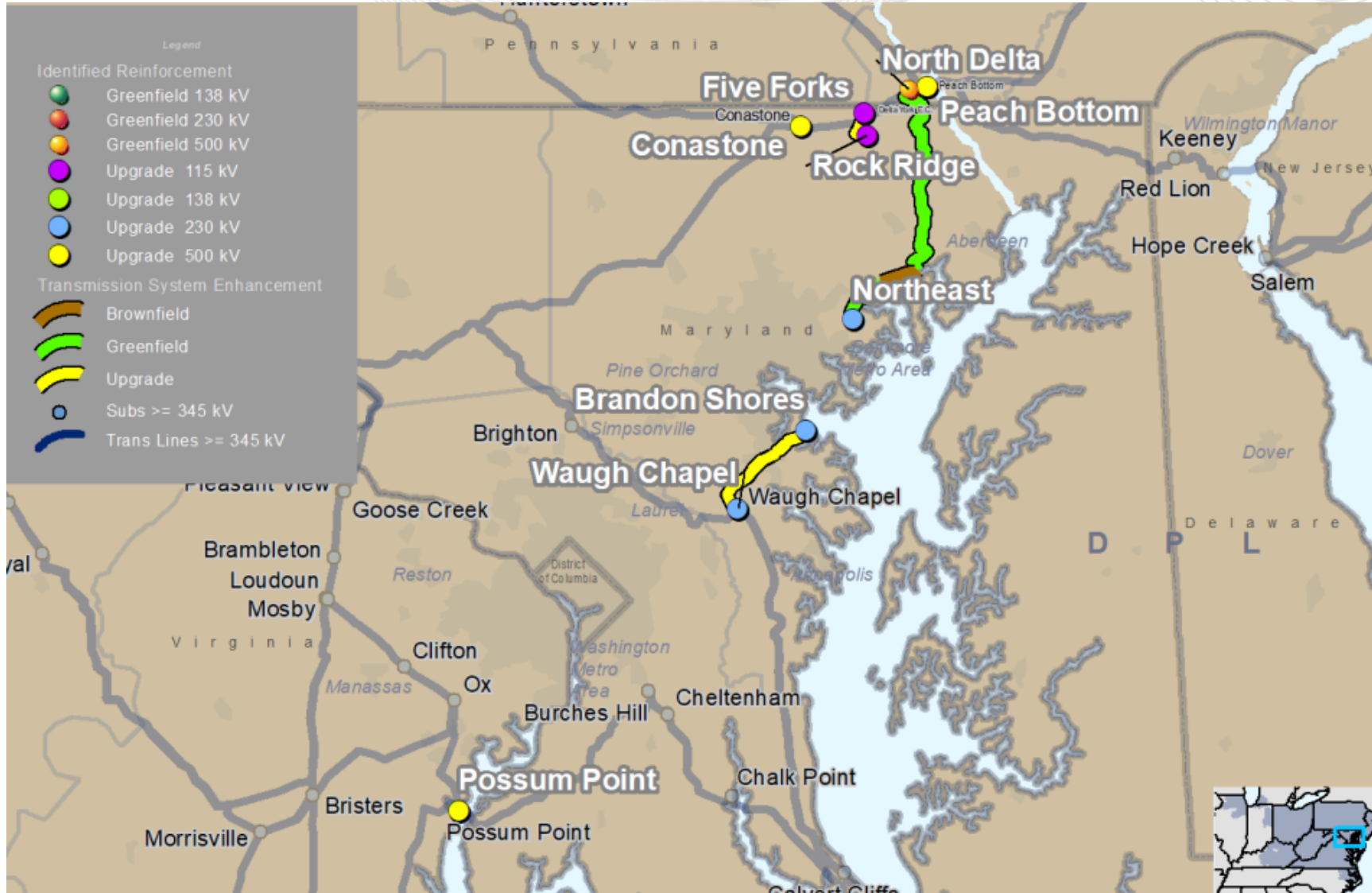


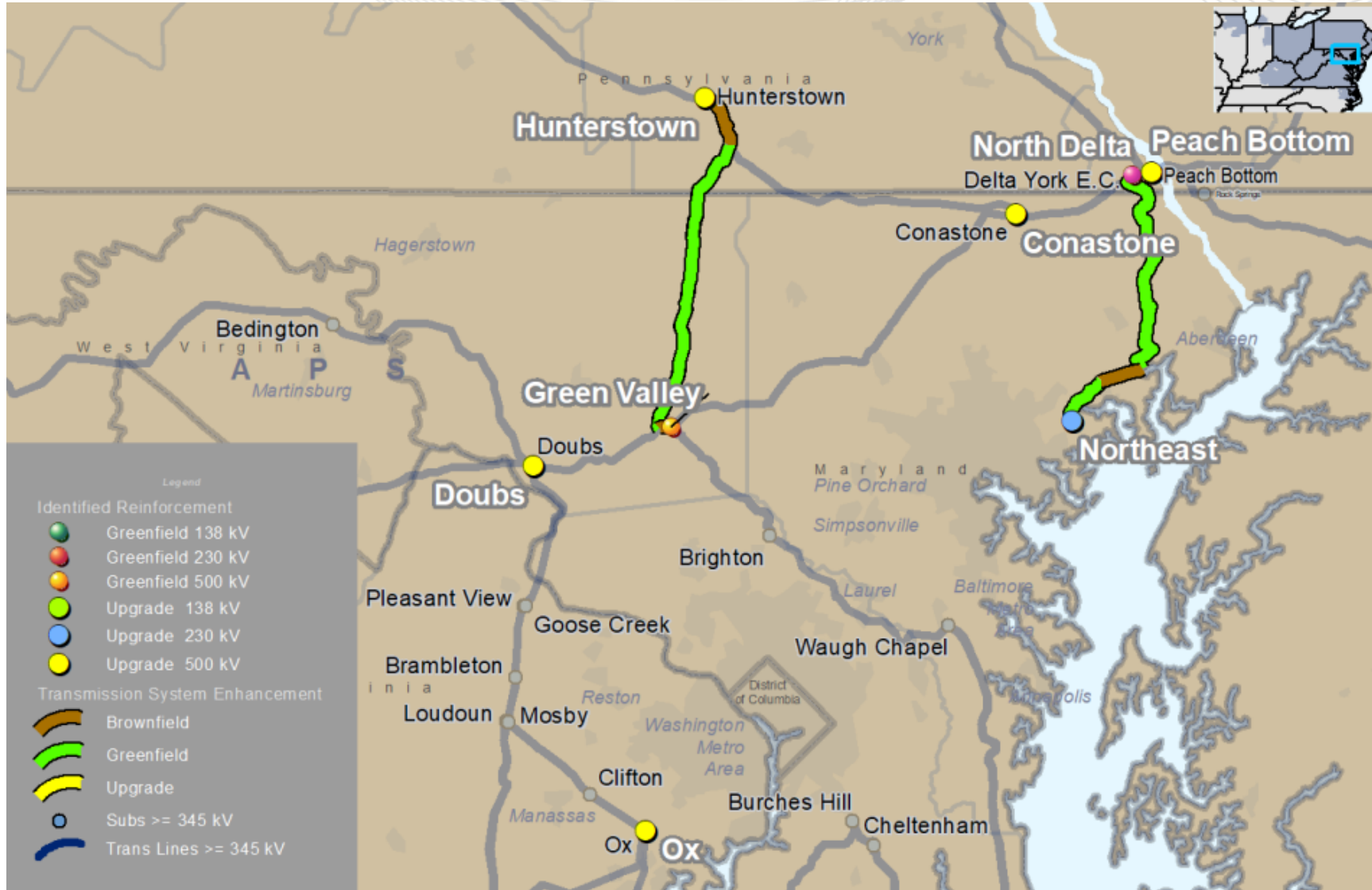


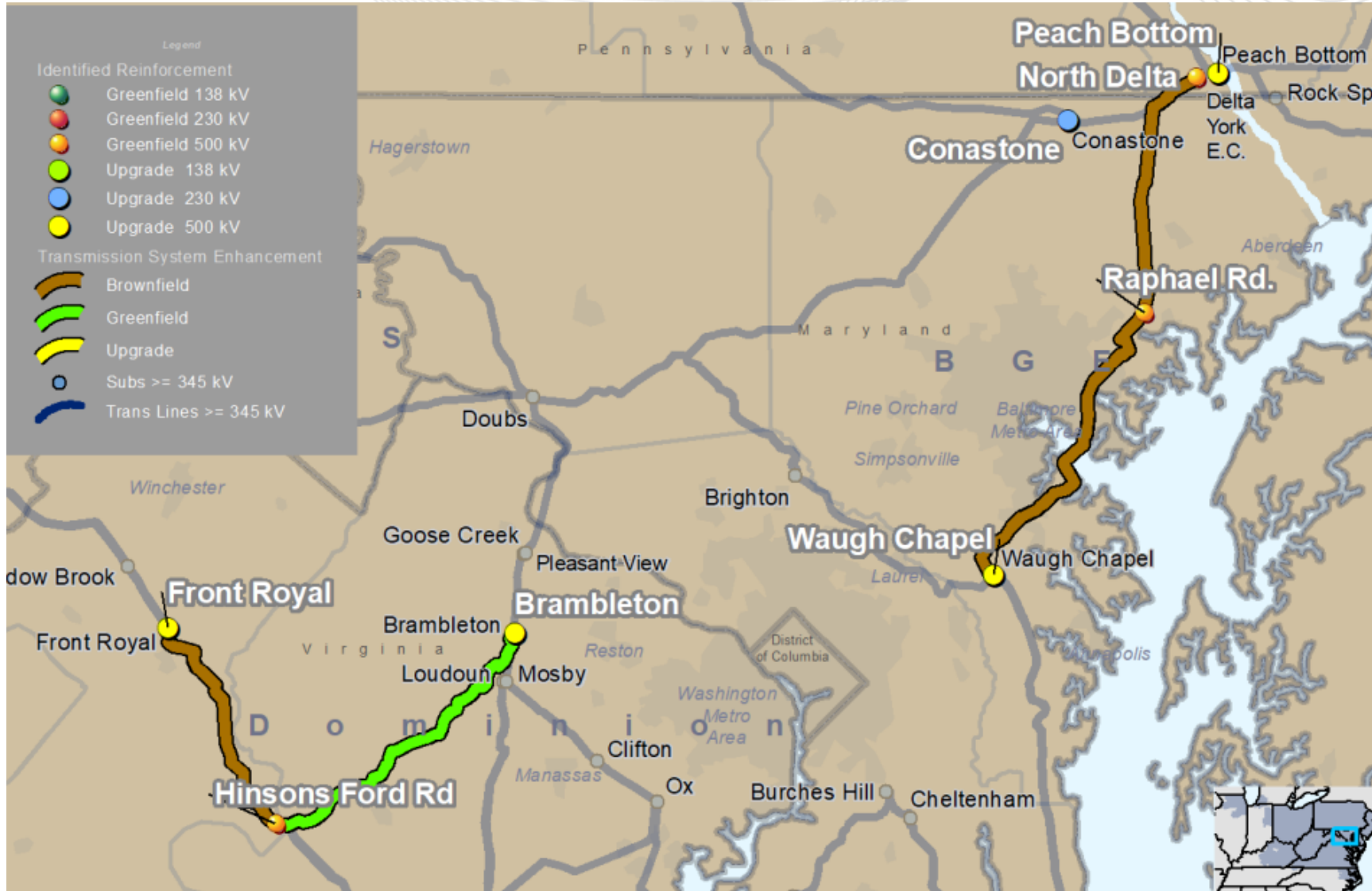




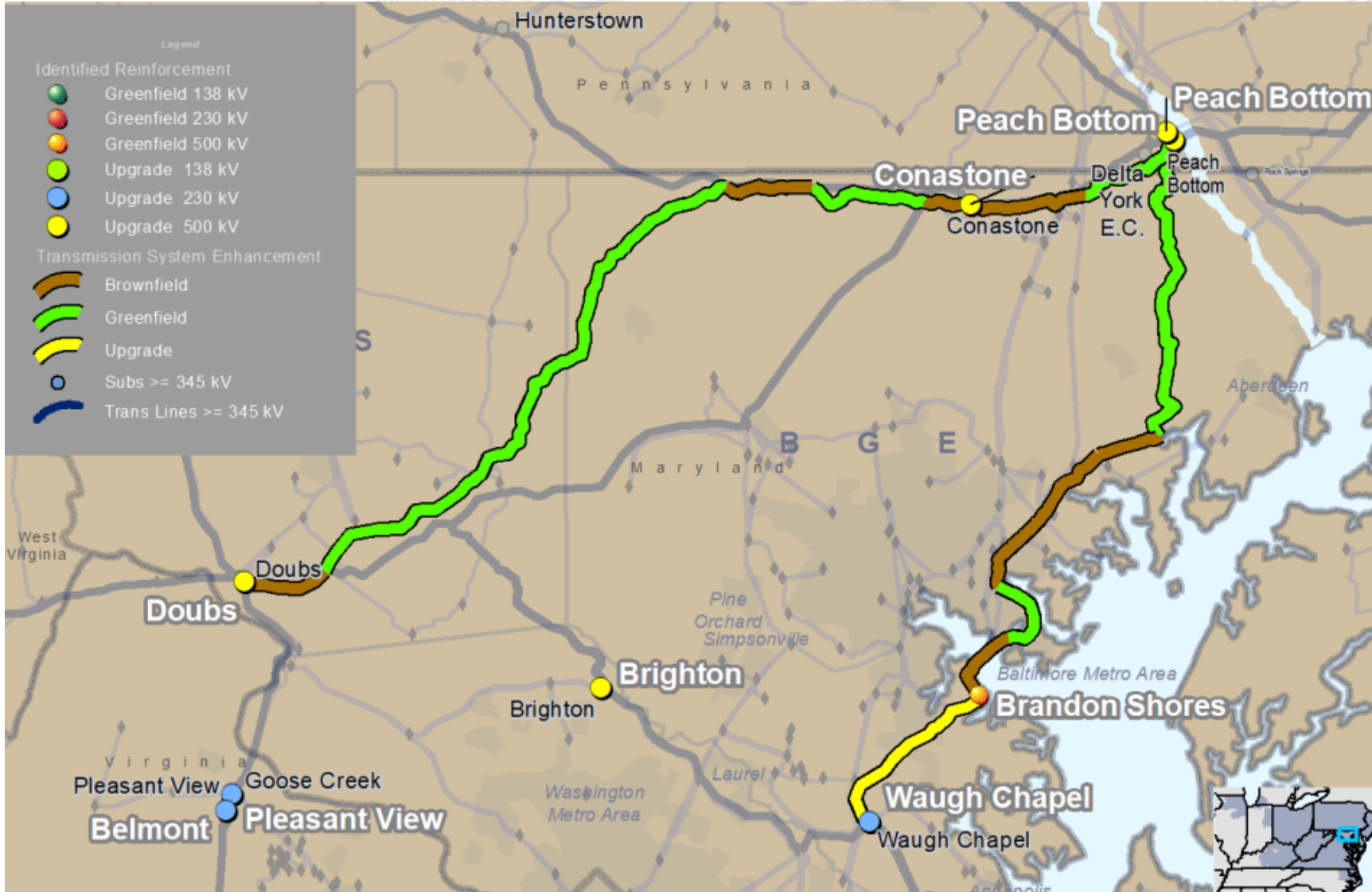






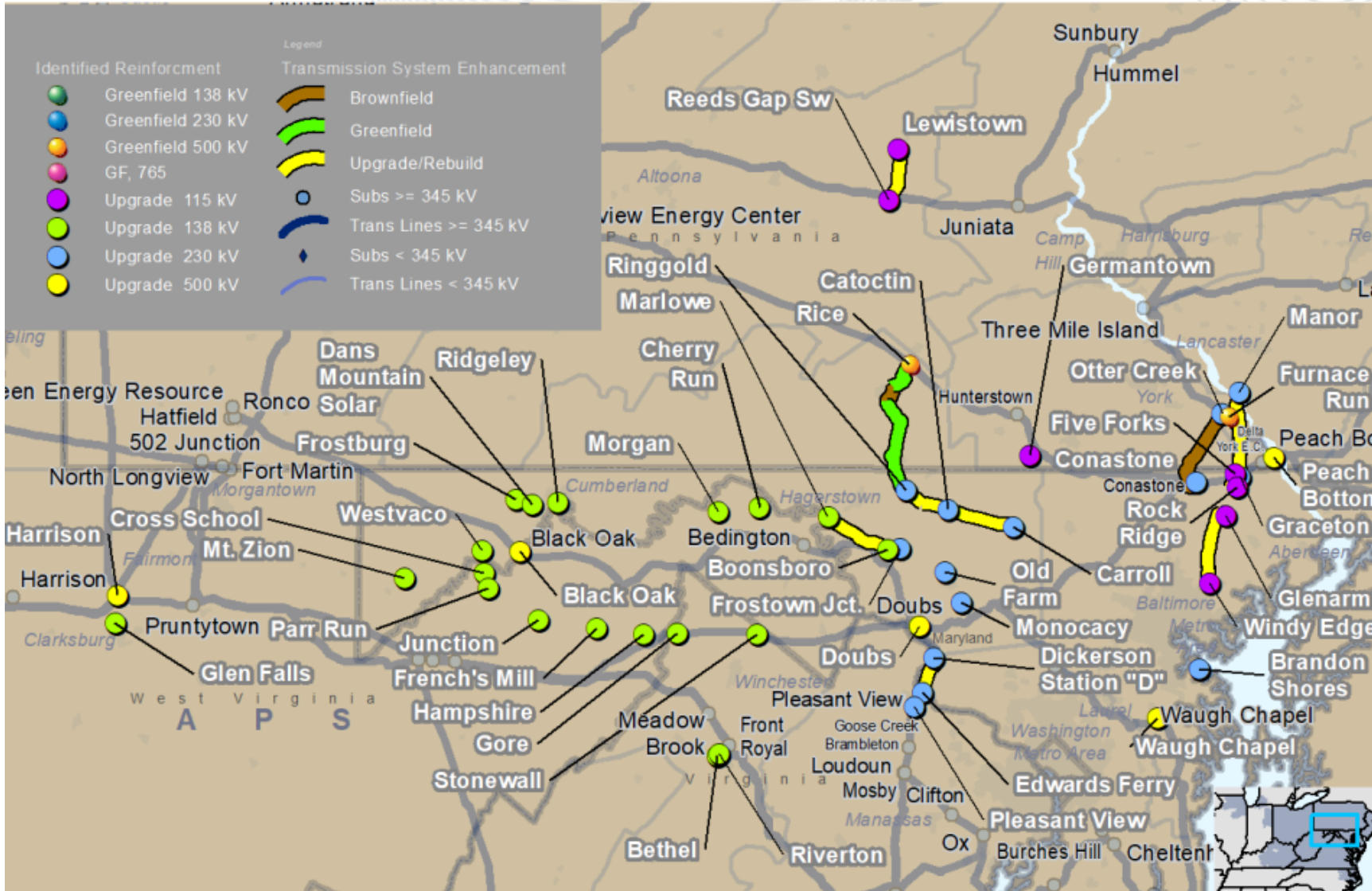


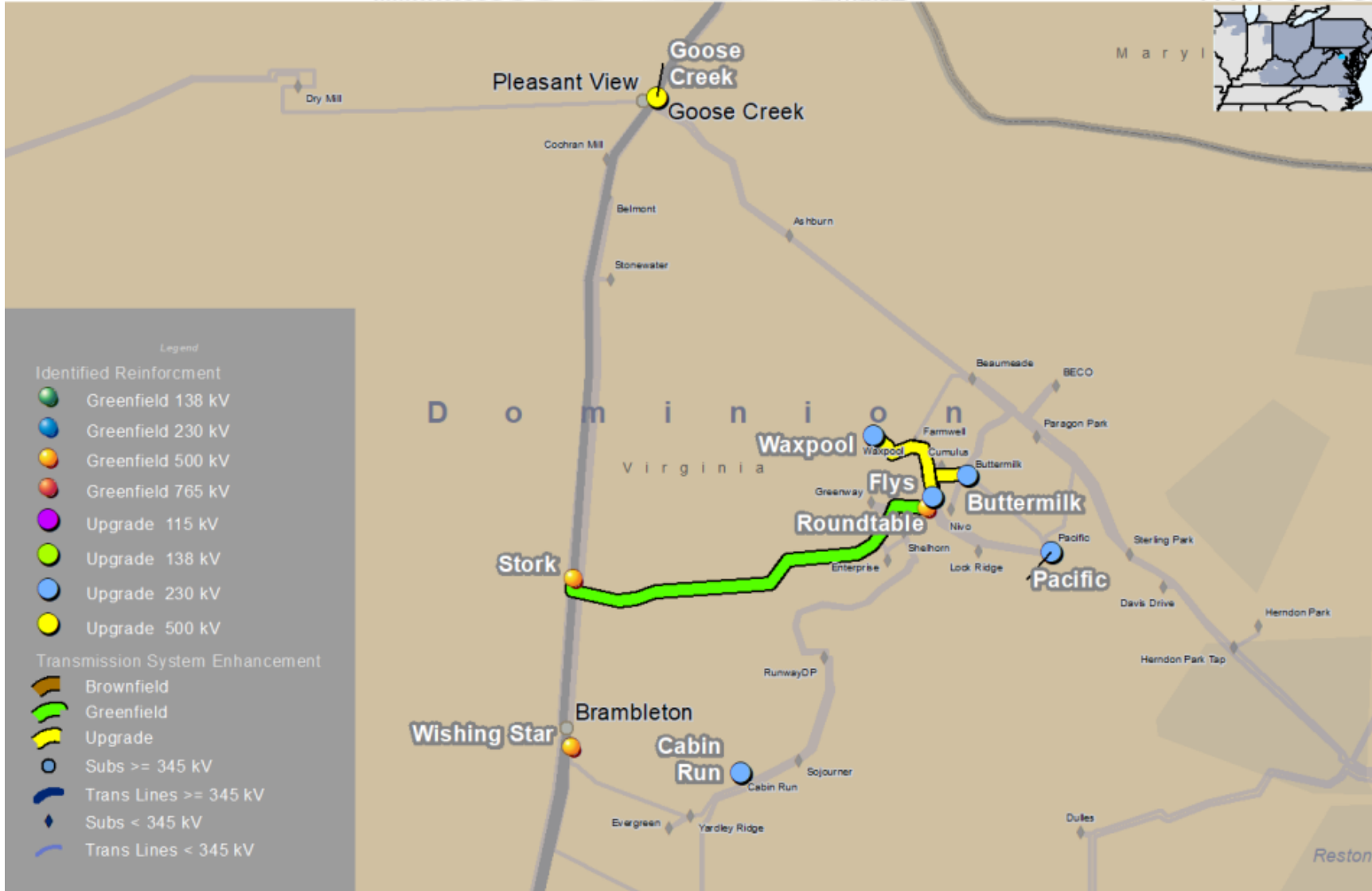


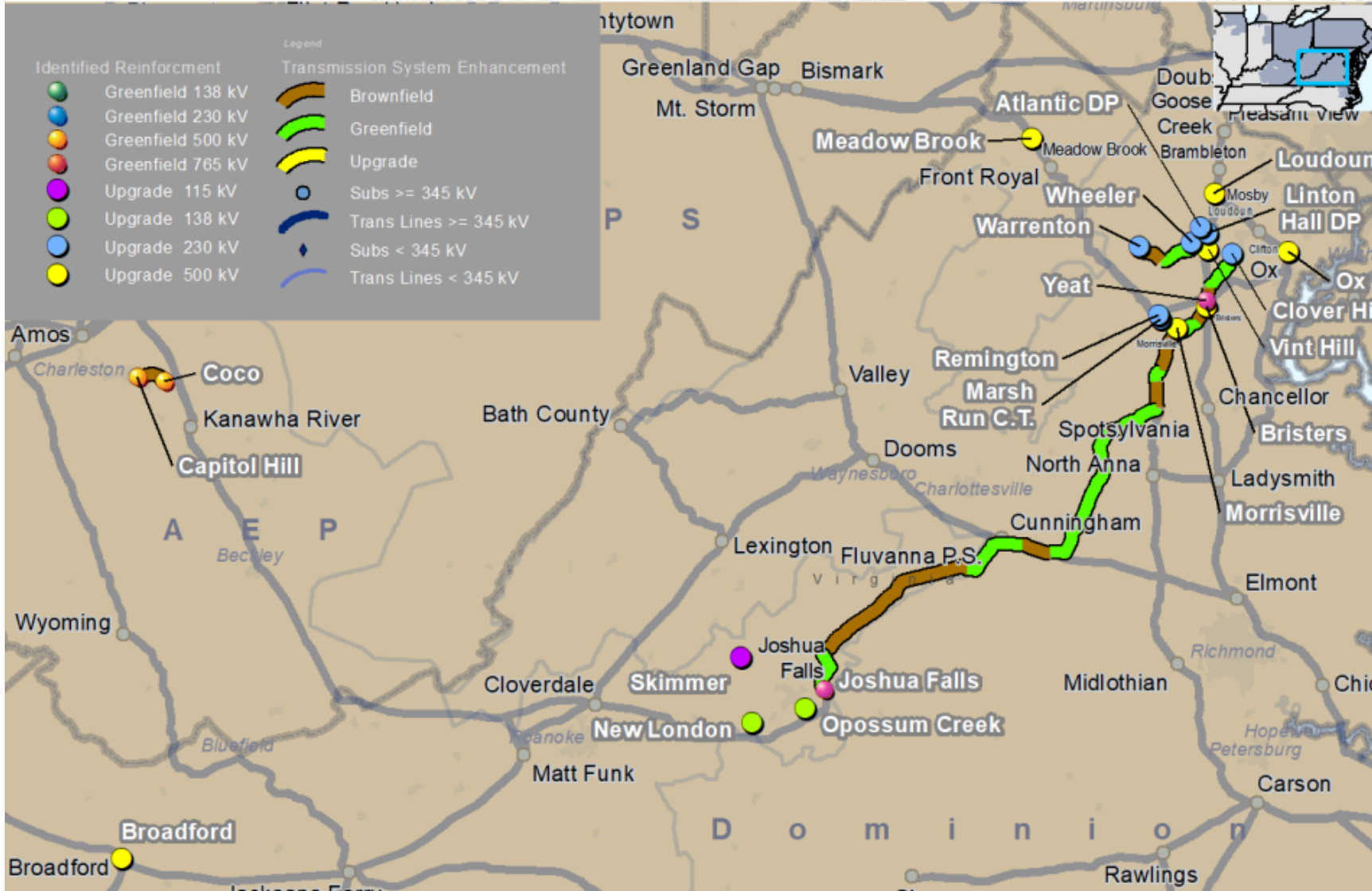


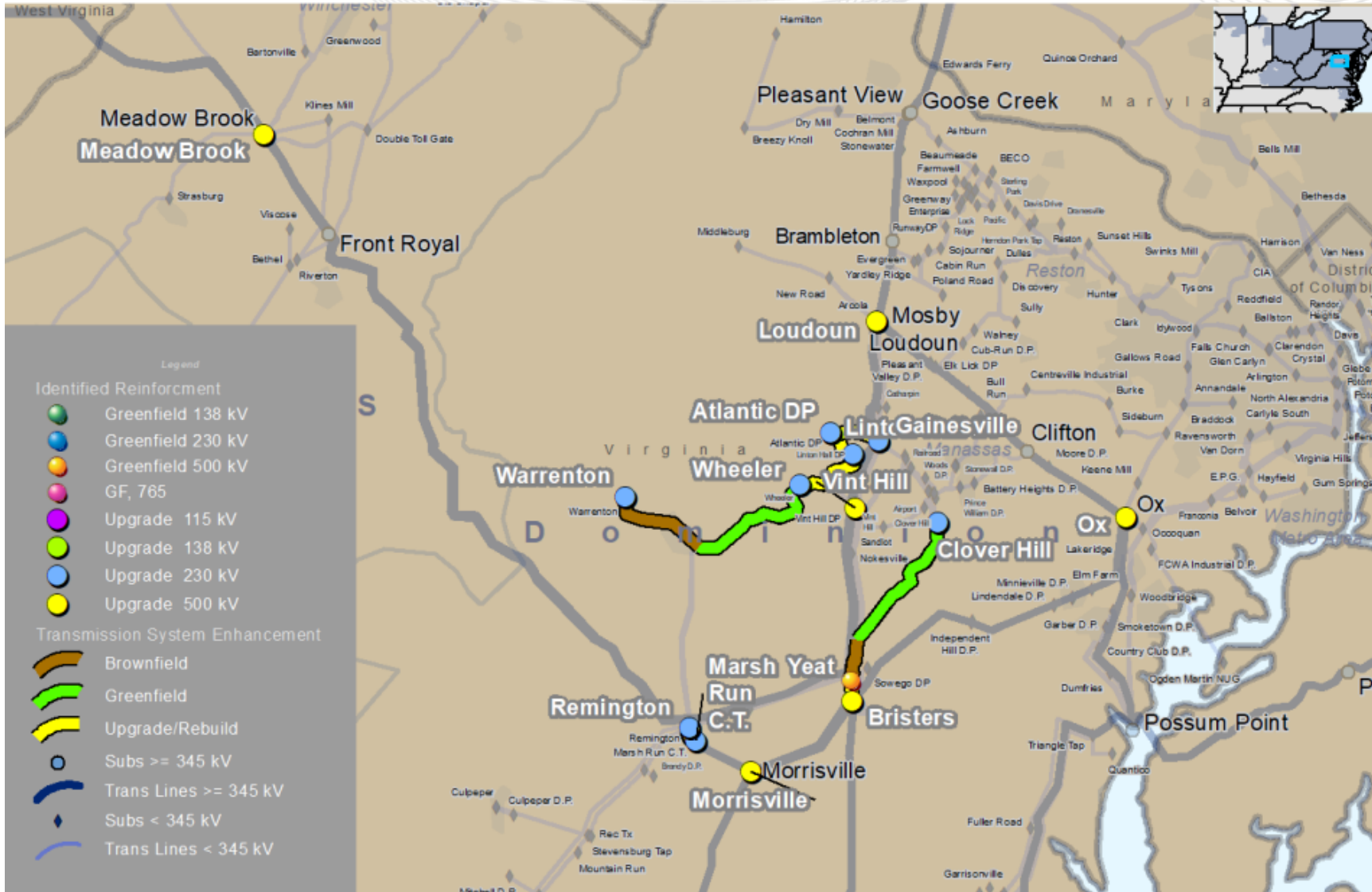












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Reliability Analysis Update



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Version No.	Date	Description
1	August 31 st 2023	<ul style="list-style-type: none"> • Original slides posted
2	September 5 th , 2023	<ul style="list-style-type: none"> • Dates fixed for next TEAC • Update to amount of Greenfield/Upgrade Projects for W3
3	September 6 th , 2023	<ul style="list-style-type: none"> • FE Map updates

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