

DPL 2022
Submission of Supplemental Projects for
Inclusion in the Local Plan



DPL Transmission Zone M-3 Process Chestertown Substation Expansion

Need Number: DPL-2022-001

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 10/14/2022

Previously Presented:

Need Meeting – SRRTEP – 2/17/22

Solution Meeting – SRRTEP – 3/17/22

Project Driver:

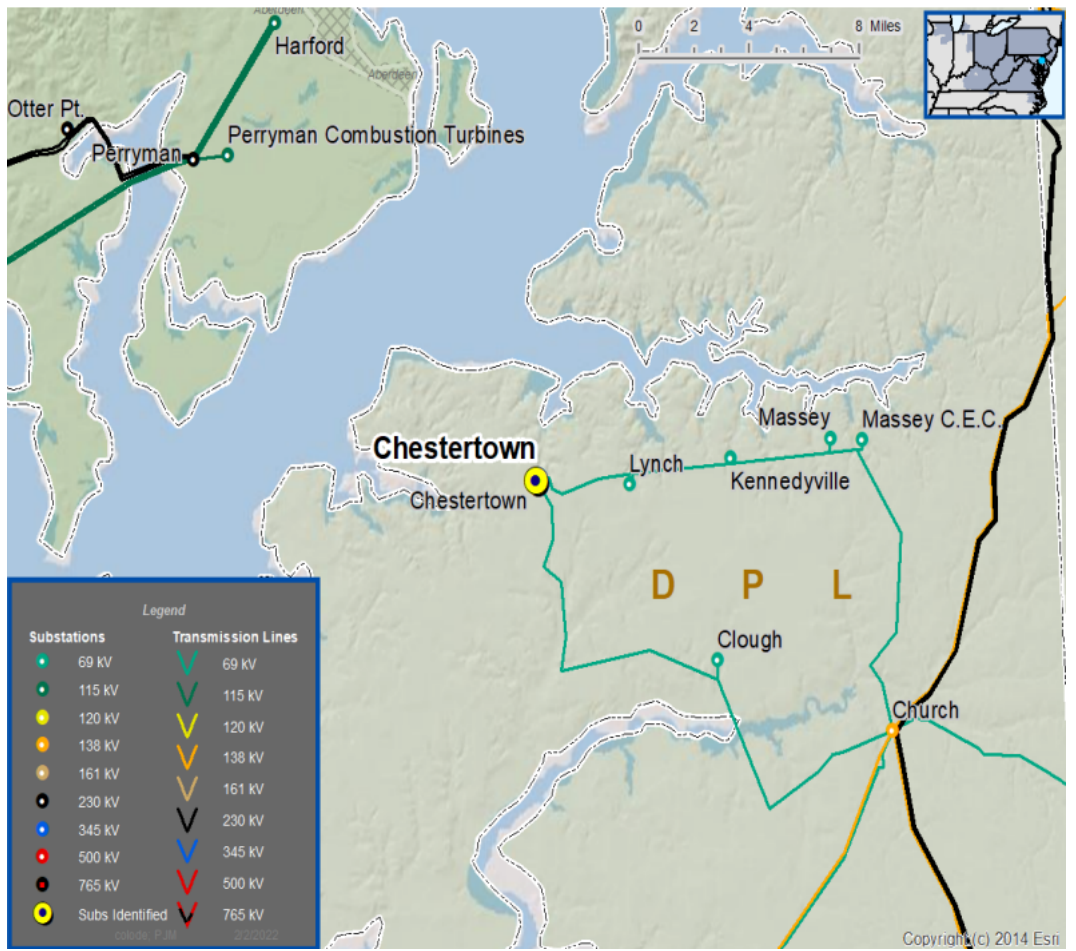
- Operational Flexibility and Efficiency
- Customer Service

Specific Assumption Reference:

- Enhancing system functionality, flexibility, visibility, or operability
- Transmission System configuration changes due to new or expansion of existing distribution substations

Problem Statement:

As currently configured, a stuck breaker contingency at the Chestertown Substation can take both the 6773 and 6762 69kV lines out of service. Additionally, another stuck breaker contingency can take both transformers and the 69kV capacitor bank out of service. Both stuck breaker contingencies would result in loss of substation load.



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Selected Solution:

- Reconfigure and expand the 69kV bus to 6 breaker ring bus to prevent a stuck breaker from causing an outage on either both transmission lines or both transformers simultaneously
- The existing 69kV cap bank will be moved to its own position on the bus
- Line 6762 will be moved to a new position no longer adjacent to Line 6773
- A new dedicated mobile position will be installed

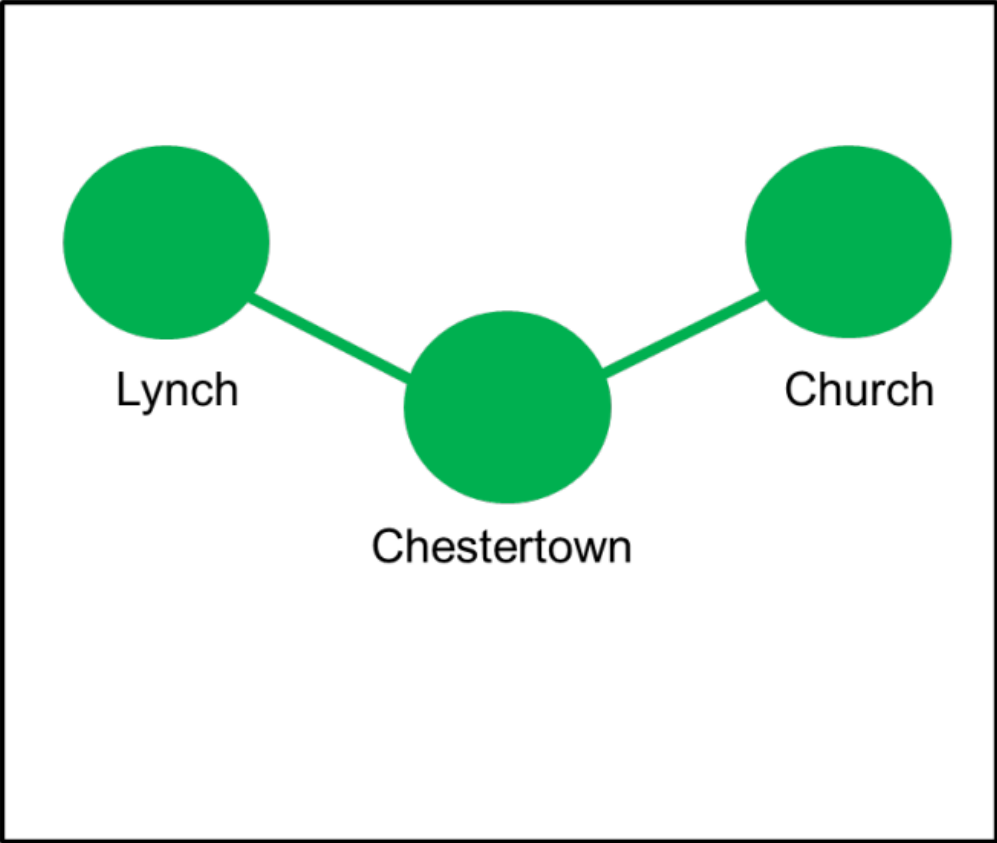
Estimated Cost: \$6.3M

Projected In-Service: 3/30/2023

Supplemental Project ID: s2721

Project Status: Construction

Model: 2026 RTEP



Revision History

10/14/2022 – V1 – Posted Local plan for s2721