

Sub Regional RTEP Committee: Western Dayton Supplemental Projects

July 22, 2022

Needs

Stakeholders must submit any comments within 10 days of this meeting in order to provide time necessary to consider these comments prior to the next phase of the M-3 process

Need Number: Dayton-2022-004

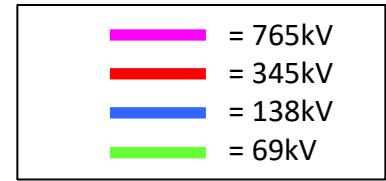
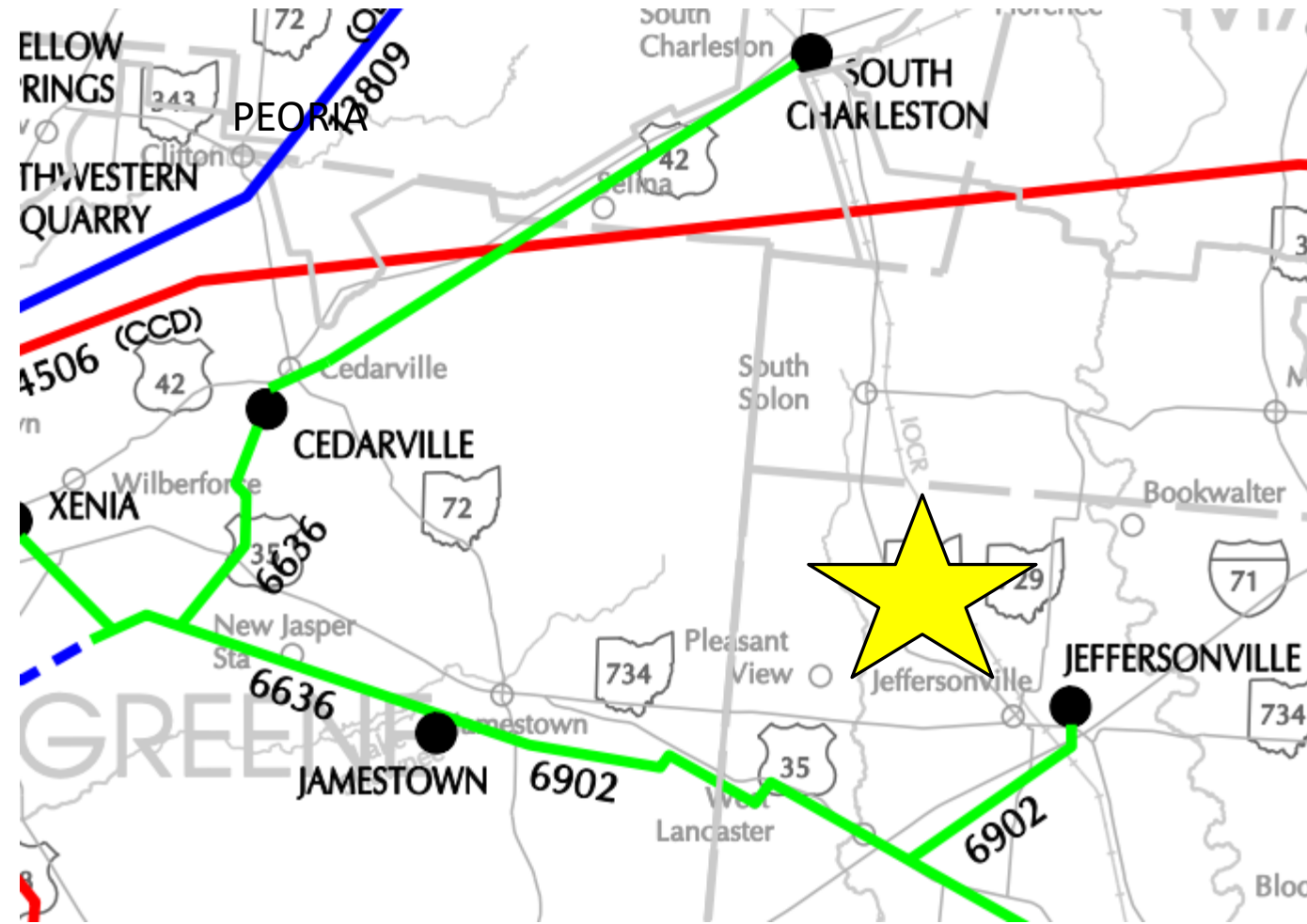
Process Stage: Need Meeting 7/22/2022

Project Driver: Customer Request

Specific Assumption Reference: Dayton Local Plan Assumptions (Slide 5)

Problem Statement:

- AES has received multiple large industrial customer requests for service in the Jeffersonville area.
- Total load requests have ranged from 100MW to several hundred megawatts
- Presently, Jeffersonville has certified 2,000-acres for industrial development with over 250 acres currently under option by customers.
- AES projects the site will be capable of supporting over 1,000 MWs of new manufacturing related load based upon the total number and size of customer requests.
- AES currently has a supplemental project, S0323, that proposes to build a 69kV line from South Charleston – Jeffersonville. AES believes that the magnitude of the load requests in the area exceed the capabilities of the existing project.



Solutions

Stakeholders must submit any comments within 10 days of this meeting in order to provide time necessary to consider these comments prior to the next phase of the M-3 process

Need Number: Dayton-2022-003

Previously Presented: Need Presented, 3/18/2022

Project Driver: Customer Service

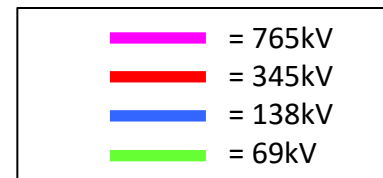
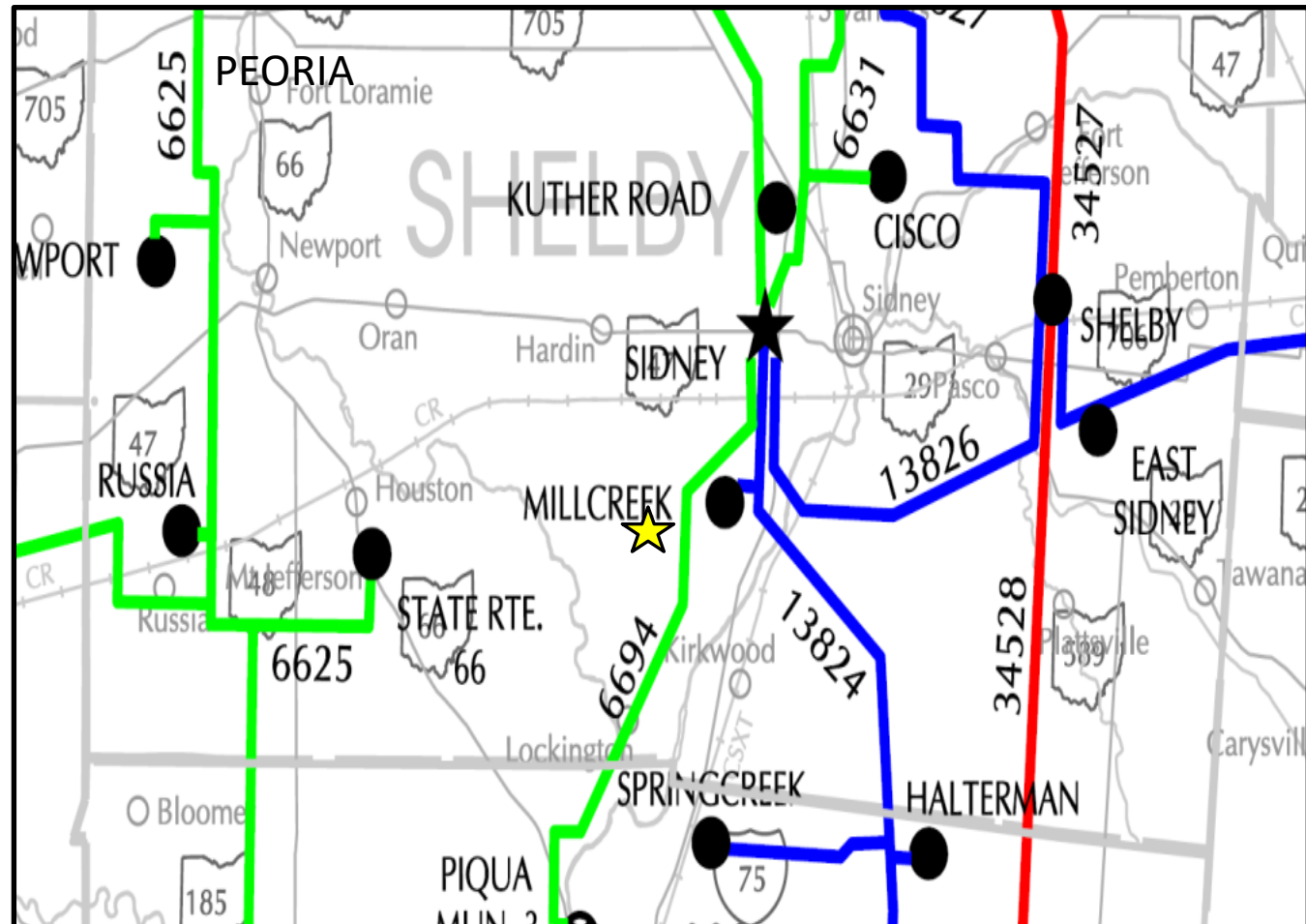
Specific Assumption Reference: Dayton Local Plan Assumptions (Slide 5)

Problem Statement:

- AES has received multiple customer requests for new interconnections in the vicinity of its Millcreek Substation
- Total MW load requests, associated timelines, & load totals

Request	In-Service Date	Total New Connected Load
+5.0 MWs	10/1/2023	5 MWs
+14.4 MWs	4/1/2024	19.4 MWs
+14.0 MWs	10/1/2024	33.4 MWs
+14.4 MWs	4/1/2025	47.4 MWs
+19.0 MWs	10/1/2025	66.4 MWs

Model: 2021 RTEP Series, 2026 Summer Case



Need Number: Dayton-2022-003

Previously Presented: Need Presented, 3/18/2022

Process Stage: Solution Presentation, 07/22/2022

Project Driver: Customer Service

Specific Assumption Reference: Dayton Local Plan Assumptions (Slide 5)

Proposed solution:

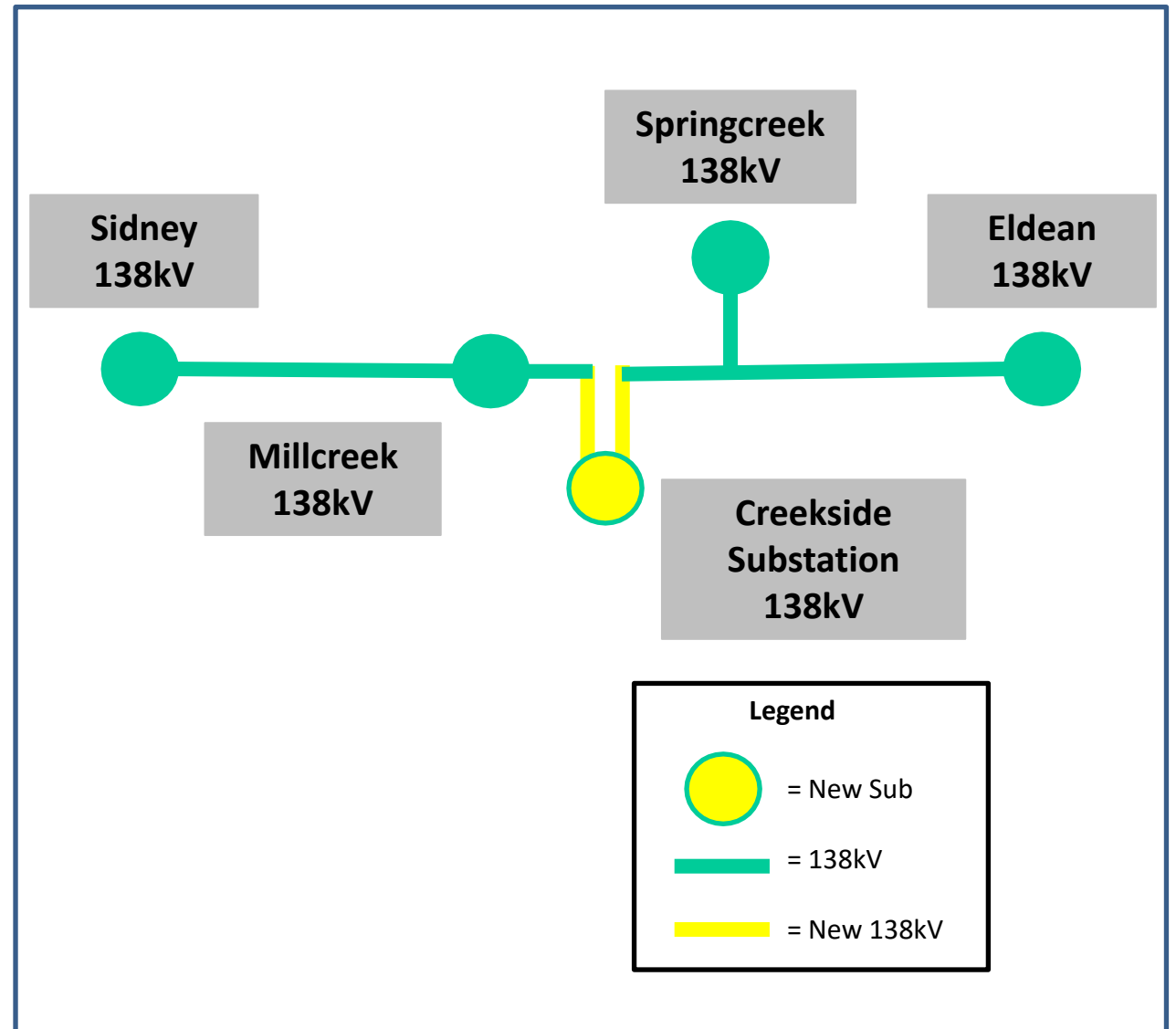
Dayton has developed a comprehensive distribution and transmission solution to meet the needs identified in the problem statement. The proposed customer load center is less than a mile from the existing 138kV substation at Millcreek. With this solution, a double circuit 138kV line will tap the Millcreek to Eldean line and loop in and out to the new Creekside sub. Three 138/12kV transformers will be installed in the additional breaker positions to provide express service to the customer.

- **Estimated Cost: \$13.5M**

Projected In-Service: 06/1/2024

Project Status: Conceptual

Model: 2021 RTEP Series, 2026 Summer Case



Appendix

High Level M-3 Meeting Schedule

Assumptions	Activity	Timing
	Posting of TO Assumptions Meeting information	20 days before Assumptions Meeting
	Stakeholder comments	10 days after Assumptions Meeting
Needs	Activity	Timing
	TOs and Stakeholders Post Needs Meeting slides	10 days before Needs Meeting
	Stakeholder comments	10 days after Needs Meeting
Solutions	Activity	Timing
	TOs and Stakeholders Post Solutions Meeting slides	10 days before Solutions Meeting
	Stakeholder comments	10 days after Solutions Meeting
Submission of Supplemental Projects & Local Plan	Activity	Timing
	Do No Harm (DNH) analysis for selected solution	Prior to posting selected solution
	Post selected solution(s)	Following completion of DNH analysis
	Stakeholder comments	10 days prior to Local Plan Submission for integration into RTEP
	Local Plan submitted to PJM for integration into RTEP	Following review and consideration of comments received after posting of selected solutions

Revision History

7/11/2022 – V1 – Original version posted to pjm.com

7/18/2022 – V1 – Slide #2, Corrected the solution scope and the bubble diagram