

# Sub Regional RTEP Committee: Western Dayton Supplemental Projects

October 15, 2021

# 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-2021-009
- **Process Stage:** Solution Meeting 10/15/2021
- **Previously Presented:** Need Meeting 8/16/2021
- **Project Driver:** Source for underlying distribution
- **Specific Assumption Reference:** Dayton Local Plan Assumptions (Slide 5)

• **Problem Statement:**

- A major customer served from Xenia substation is planning to add approximately 4MW of load by 2023. This potential growth paired with the development of two nearby industrial parks will trigger the need for potential system reinforcements east of Xenia.
- AES Ohio is planning to build a new 69kV ring bus substation called Jasper in 2023 (s2255.1) to eliminate a three terminal line and to improve reliability on the 6636 Jamestown-Cedarville-Xenia-Glady Run circuit. The 6636 transmission line is a 31-mile circuit constructed primarily with wood poles. The yellow star shown on the map is an approximate location of Jasper Substation and is centrally located to serve future load growth.
  - There have been a total of 17 outages on this circuit for a total of 1245 minutes over the last 5 years.
  - The performance of this line will improve with the addition of Jasper Substation but Xenia Substation will still have exposure to transmission outages with the distribution transformers tapped from a line position between Xenia and Jasper.

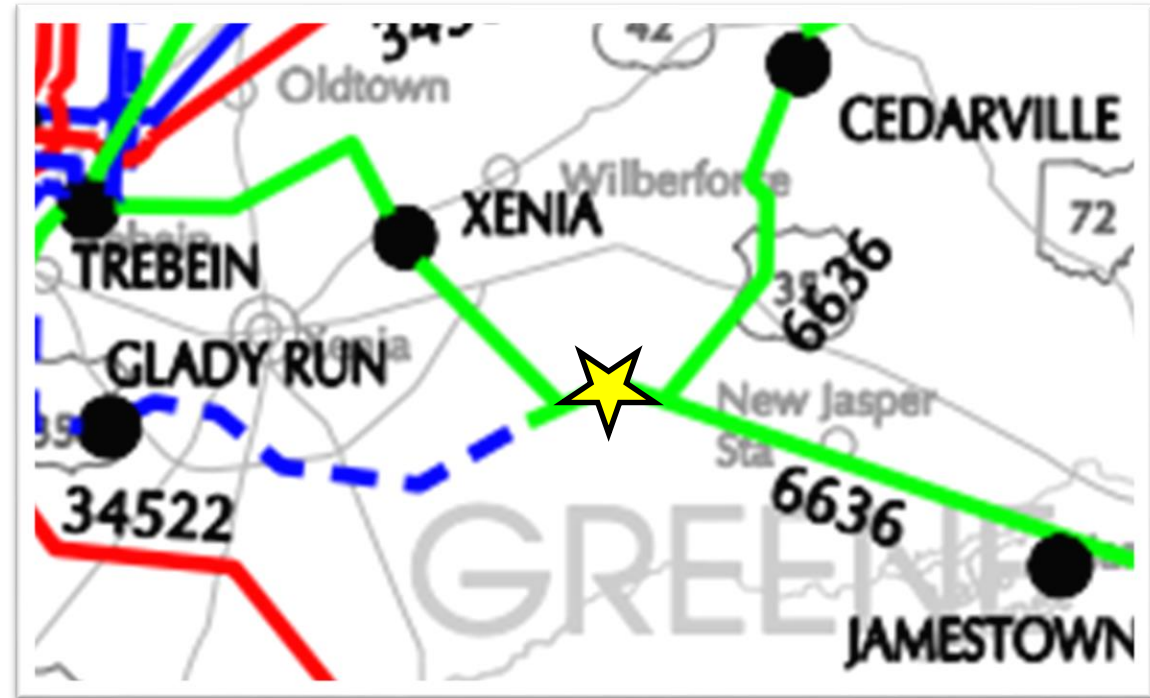
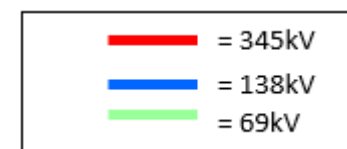
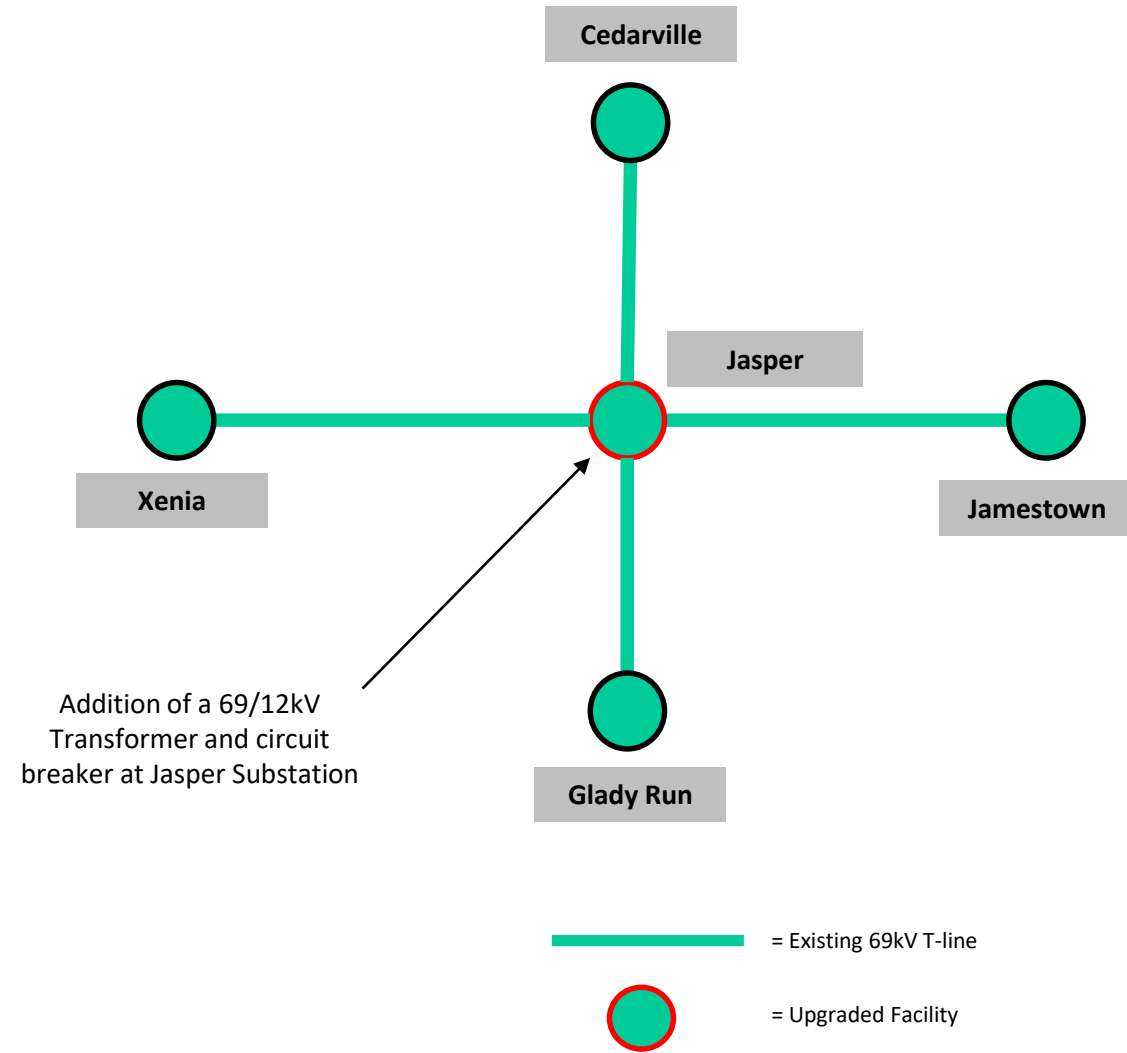


Figure 1 : Area Map



- **Need Number:** Dayton-2021-009
- **Process Stage:** Solutions Meeting 10/15/2021
- **Selected Solution:**
  - Jasper Substation : A new 69/12kV transformer will be installed at Jasper Substation and terminated into a new 69kV breaker position. This will expand Jasper Substation from a four breaker 69kV ring bus to a five breaker 69kV ring bus. This transformer will increase capacity to serve the new customer load addition coming online and will also support growth in the nearby industrial parks. Further, this will enhance operational flexibility via adding new switching capability between Jasper and Xenia Substations to perform maintenance and help reduce extended outage times due to enhanced switching between the substations.
  - **Estimated cost :** \$310K
  - **Projected In-Service:** 12/31/2023
  - **Project Status:** Conceptual
  - **Model:** 2021 RTEP – 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

10/5/2021 – V1 – Original version posted to pjm.com