

# SRRTEP Committee: Western DLC Supplemental Projects

March 18, 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:** DLC-2022-001

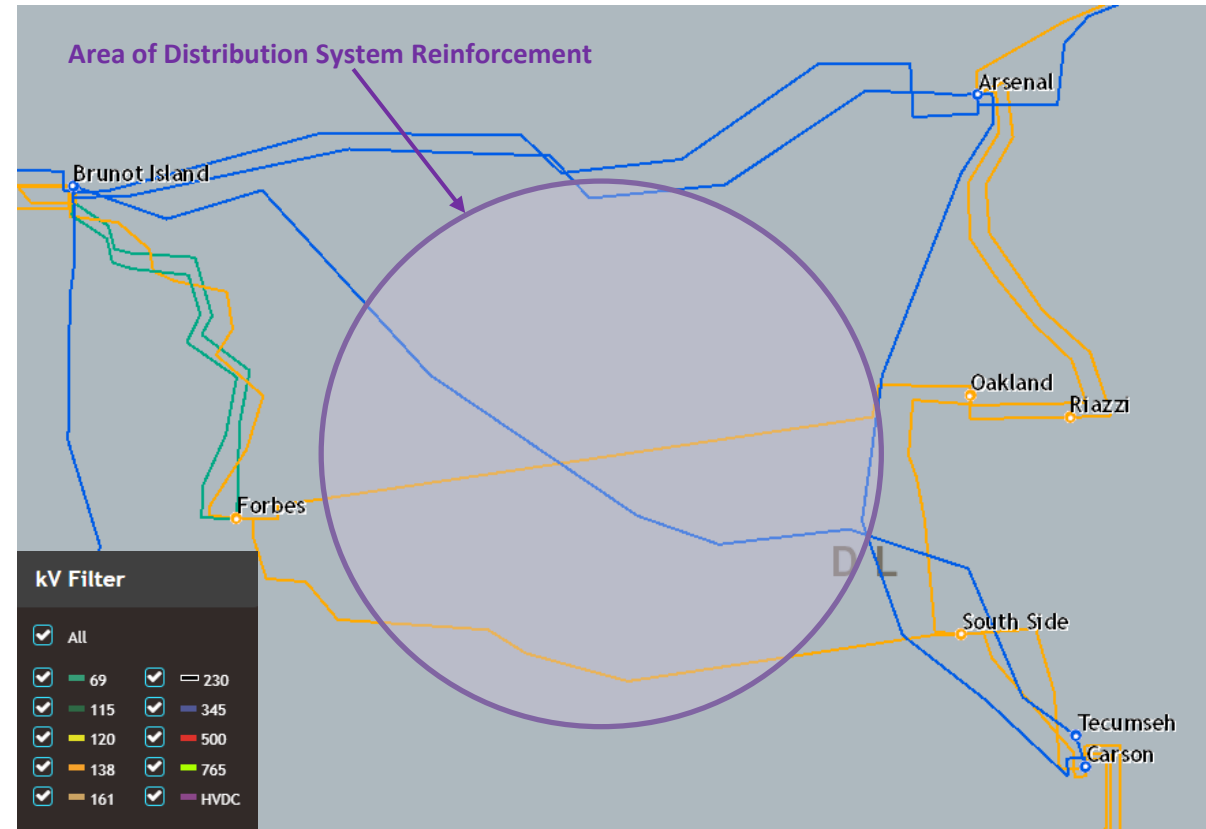
**Process Stage:** Needs Meeting

**Project Driver:** Infrastructure Resilience and Customer Service

**Specific Assumptions Reference:** Slide 9 and 10 of the DLC 2022 Local Planning Assumptions.

**Problem Statement:**

Load growth in Pittsburgh’s downtown area, and in its adjacent communities, has presented concerns regarding DLC’s existing distribution lines and its ability to serve its customers. As such, additional capacity and resiliency is needed to provide adequate distribution service to these areas.



# 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:** DLC-2020-001

**Process Stage:** Solutions Meeting (3/8/2022)

**Previously Presented:** Needs Meeting (6/19/2020)

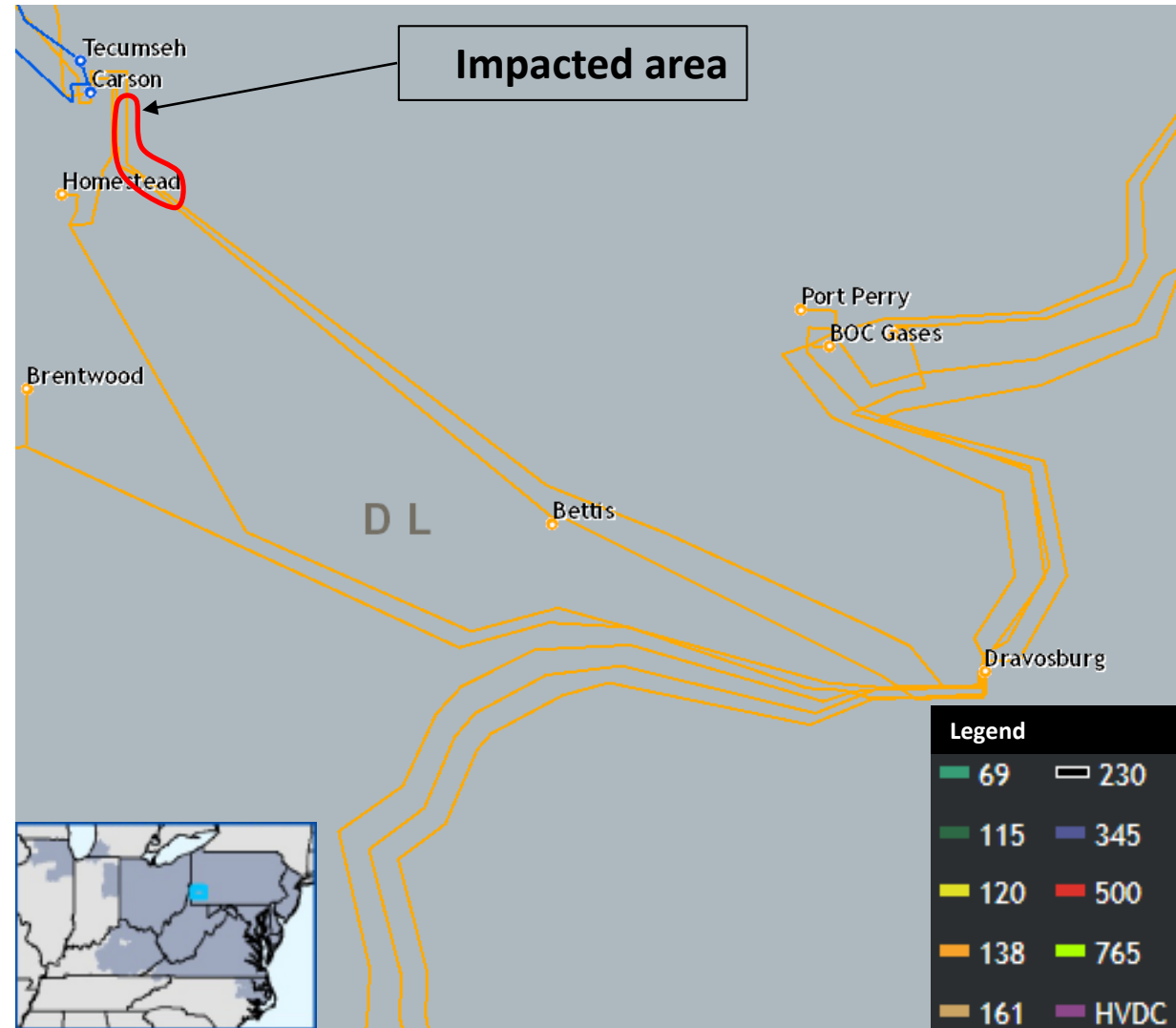
**Project Driver:** Infrastructure Resilience.

**Specific Assumptions Reference:** Slide 9 of the DLC 2022 Local Planning Assumptions.

**Problem Statement:**

Various landslides were found along the 138 kV transmission circuits Dravosburg – Carson (Z-71) and Carson – Bettis (Z-88), affecting multiple towers.

Due to the landslide close proximity to the towers, transverse cracking, and the geological weak soil layers, the existing towers are expected to be vulnerable to movement which can compromise their structural integrity.



**Need Number:** DLC-2020-001

**Process Stage:** Solutions Meeting (3/8/2022)

**Potential Solution:**

DLCO proposes replacing the affected towers with five new structures composed of deep caisson foundations. The foundations would be designed to resist lateral loads from possible future slope movement. Access road and storm water improvements will also be designed to help withstand potential future landslides and site access.

**Estimated Cost:** \$12M

**Alternatives Considered:**

1. DLCO investigated replacing tower 3640 in its existing location. However, an engineering review determined the existing location is still at risk of landslides. These factors present ongoing safety and reliability risks.

**Estimated Alternative Solution #1 Cost:** \$6.2 M

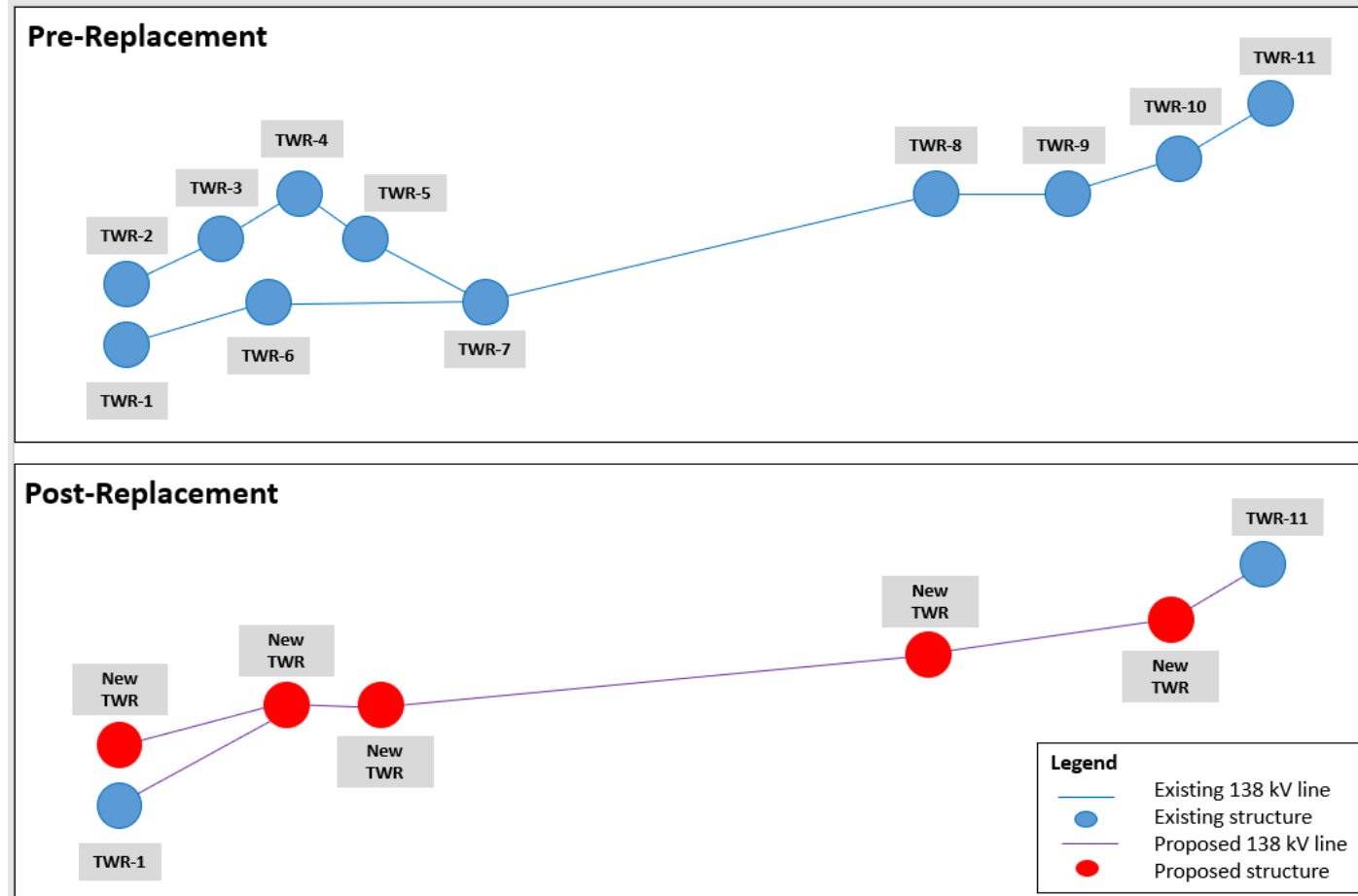
2. Rather than replacing the existing structures, DLCO investigated relocating tower 3640 and removing structure 3657-3. However, tower 3656 was observed to have landslide tension cracks and it was deemed not suitable to support the increased span length. As such, the risk of future structural distress due to weathering and loading conditions, this alternative is not being pursued.

**Estimated Alternative Solution #2 Cost:** \$7.5 M

**Projected In-Service:** 9/2023

**Project Status:** In Progress

**Model:** 2022 Series RTEP



# 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

02/\*\*/2022 – V1 – Original version posted to pjm.com