

TEAC Committee ComEd Supplemental Projects

August 4, 2026

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

ComEd Transmission Zone M-3 Process Blue Island Hardening

Need Number: ComEd-2026-011

Process Stage: Solution Meeting 8/4/2026

Previously Presented: Need Meeting 7/7/2026

Project Driver:

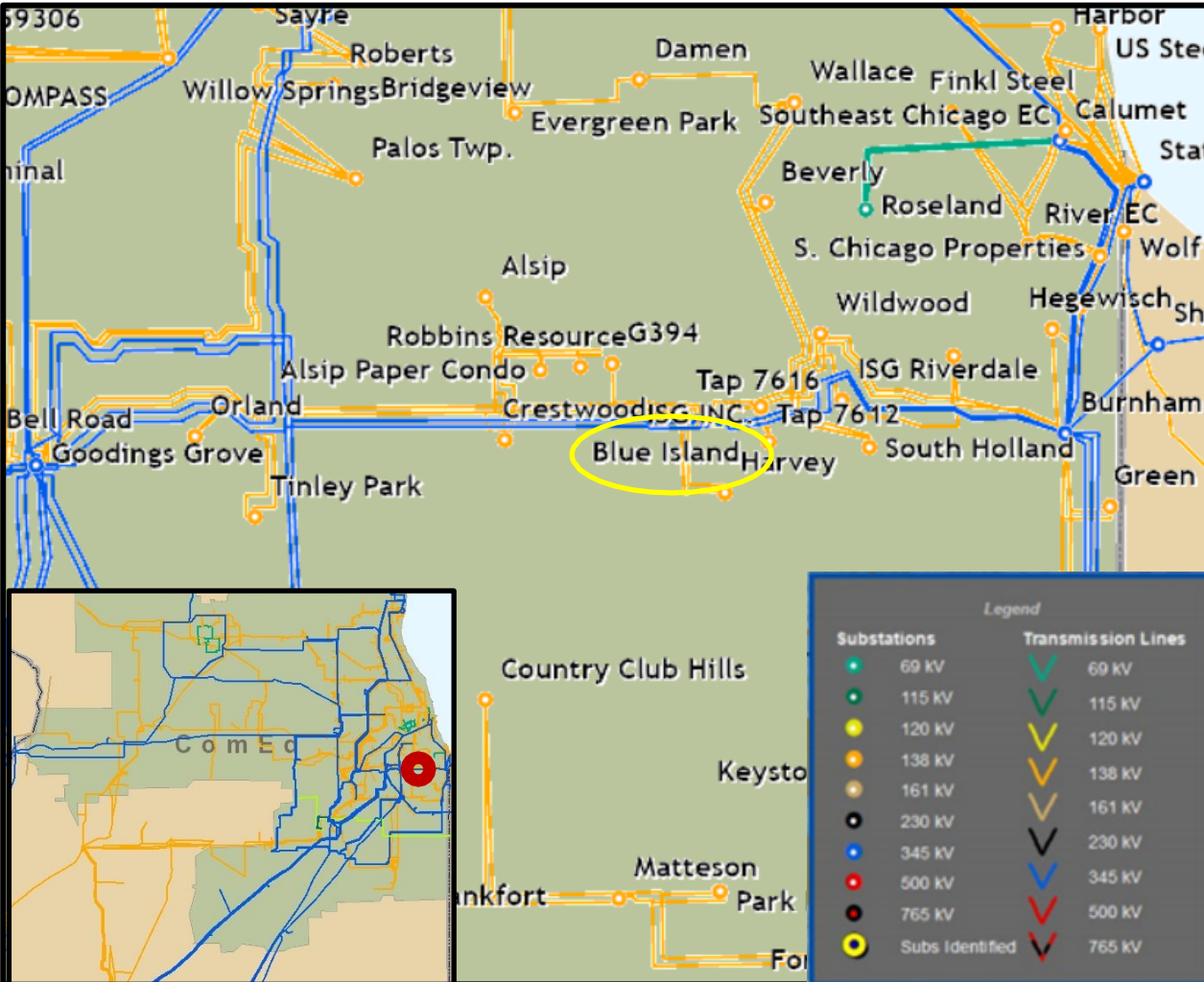
- Operational Flexibility and Efficiency
- Equipment Material Condition, Performance and Risk

Specific Assumption Reference:

- Enhancing system functionality, flexibility, visibility, or operability
- Transmission infrastructure replacements (EOL/condition/obsolescence) that are consistent with efficient asset management decisions

Problem Statement:

- Blue Island 345kV is currently two individual straight buses with two oil circuit breakers and two gas circuit breakers connecting four lines and four 345/138kV transformers.
- Multiple transmission facilities are disconnected for various single, breaker, bus, or tower contingencies.
- The two 345kV oil circuit breakers were installed in 1971. they are in deteriorating condition, have a lack of replacement parts, and have elevated maintenance costs.
- Two of the four transformers do not have high side circuit breakers



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Proposed Solution:

- Replace existing 345kV straight buses with two 4-breaker ring buses with a normally open bus tie.
 - Existing Rating 2000A, 63kA
 - New Rating 4000A, 63kA
- Install high side circuit breakers on 345/138kV transformer TR81 and 345/138kV transformer TR84
 - New Rating 4000A, 63kA

Estimated Cost: \$64.3M

Blue Island Tap to Blue Island Blue 345kV			
MVA Ratings	SN/SLTE/SSTE/SLD	LN/LLTE/LSTE/LLD	WN/WLTE/WSTE/WLD
Existing	1202/1479/1568/1768	1438/1662/1768/1912	1498/1711/1821/1912
New	1202/1479/1568/1768	1438/1662/1768/1990	1498/1711/1821/2052
Blue Island Tap to Blue Island Red 345kV			
New	1202/1479/1568/1768	1438/1662/1768/1912	1498/1711/1821/1912
Existing	1202/1479/1568/1768	1438/1662/1768/1990	1498/1711/1821/2052

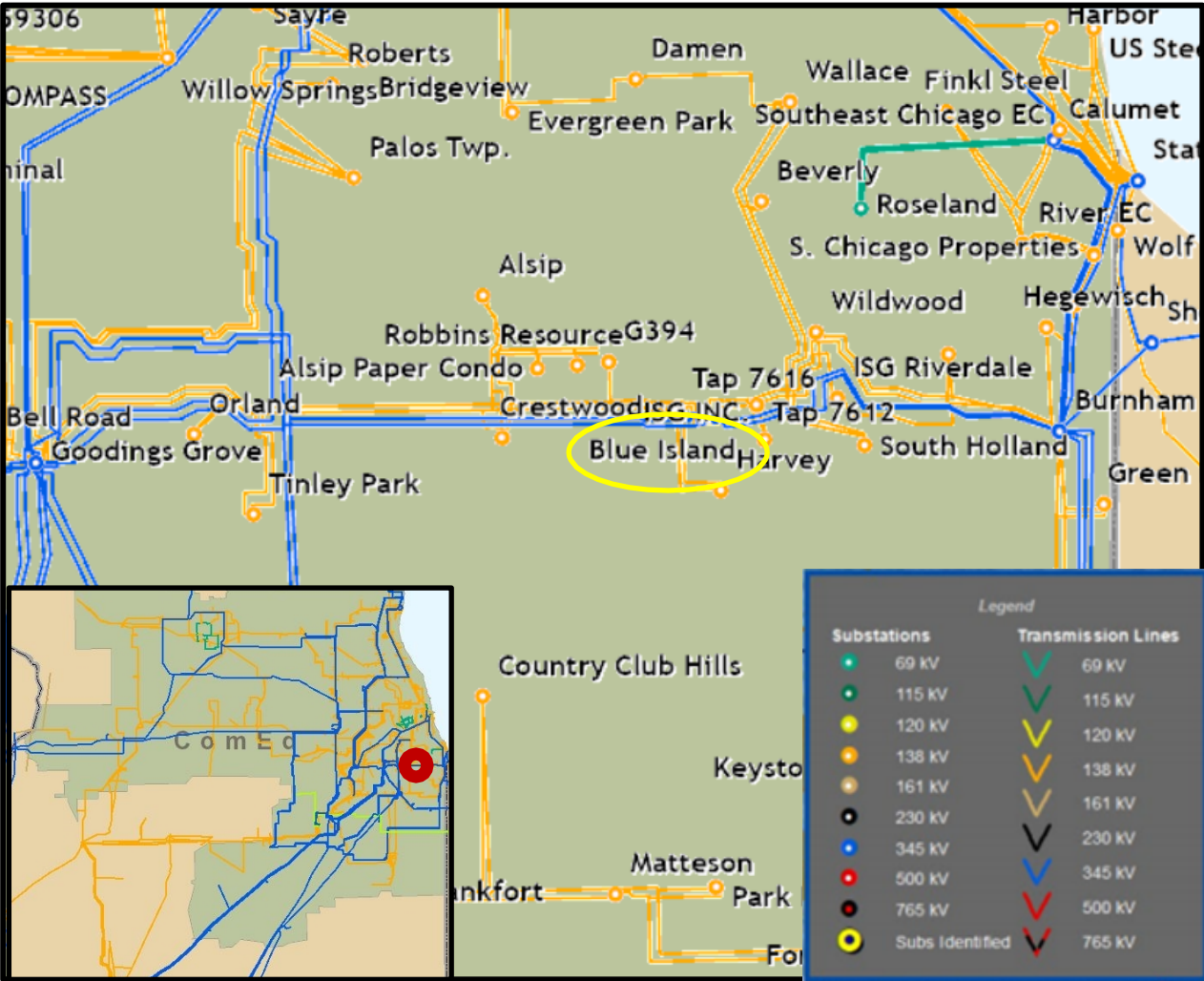
Alternatives Considered:

- Expand existing 345kV straight buses by adding breakers to create two 4-breaker ring buses with a normally open bus tie. Alternative not selected due to limited expandable area in the substation (\$72M)
- Replace existing 345kV straight bus with indoor GIS BAAH. Alternative not selected due to higher cost (\$100M)

Projected In-Service: 5/30/2029

Project Status: Engineering

Model: 2030 RTEP



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

7/24/2026 – V1 – Original version posted to pjm.com