

Greater Portland Study Area – Solution Summary



Phase 1:

Address Reliability Concerns - Northern Area

- Expansion of Raven Farm Substation in Cumberland, removal of Elm St. Substation
 - Reroute existing transmission and distribution lines to Raven Farm
- Raven Farm Substation to East Deering Substation: New 115 kV Line (10.5 miles)
 - No ROW expansion required from Raven Farm Substation to Section 180A Tap
 - Rebuild the existing 34.5 kV line that serves East Deering
 - Rebuild 34.5kV transmission line Section 180
- Expansion of East Deering Substation in Portland (Presumpscot Street)
- New Bayside Substation next to PWD Wastewater Plant on the East End in Portland
 - East Deering Substation to Bayside Substation: New 115 kV Line (1.5 miles)
 - Bridge crossing in conduit/duct bank beneath Tukey's Bridge on I-295
- Rebuild 34.5 kV transmission line Section 188
- Phase 1 projects submitted to MPUC September 2025

Phase 2:

Address Reliability Concerns - Southern Area

- Bayside Substation to South Portland: New 115 kV Line (3.1 miles)
- Pleasant Hill Substation to Vallee Lane Substation: New 115 kV Line (12.7 miles)
 - New overhead transmission line from Old Orchard Beach to Scarborough
- Rebuild 115 kV transmission line Section 234
- Anticipated MPUC submittal Q4 2026

