

34 kV Alternative Plan

Year	Growth	Proposed Work	Average Feeder Loading Before Work (MVA)	Average Feeder Loading After Work (MVA)	Average 34 kV Line Loading After Work (MVA)	New TSS Loading (MVA)	New TSS Rating (MVA)
2014	4.8	Install 138-34 kV New TSS along L1808/L1811 ROW near Farrell with one 40 MVA transformer; one 34 kV line going south to proposed Veterans site; at Veterans site install three 34-12.5 kV DC transformers; 12 kV fdr work		7.0	21.0	21.0	30
2015	3.3	Install 34 kV from New TSS to Veterans site and new 34-12.5 kV transformer at Veterans with new 12.5 kV feeder going south	8.1	6.1	12.2	24.3	30
2016	3.4	Extend existing feeders to load center	6.9	6.9	13.9	27.7	30
2017	3.4	Install second 40 MVA 138/34 kV transformer & 2 138 kV circuit breakers at New TSS; new 34-12.5 kV transformer at Veterans; install new feeder in new duct from Veterans	7.8	6.2	15.6	31.1	67
2018	3.8	Install new feeder; 34-12.5 kV transformer at Veterans site	7.0	5.8	15.5	34.9	67
2019	3.9	Extend existing feeders to load center	6.5	6.5	19.4	38.8	67
2020	3.8	New 34 kV line from New TSS going south down Smith/Farrell in duct to just north of 159th; new 34-12.5 kV DC with land; fdr work	7.1	6.1	14.2	42.6	67
2021	3.5	Extend existing feeders to load center	6.6	6.6	15.4	46.1	67
2022	3.2	Extend 34 kV line east on 159th to Cedar then south to Bruce; new 34-12.5 kV DC with land; fdr work	7.0	6.2	16.4	49.3	67
2023	2.8	Extend existing feeders to load center	6.5	6.5	17.4	52.1	67
2024	2.5	Extend existing feeders to load center	6.8	6.8	18.2	54.6	67
2025	2.3	Extend 34 kV line to Rt. 6 & Cedar and create tie at Gougar with new duct under I-355; new 34-12.5 kV DC with land; fdr work	7.1	6.3	19.0	56.9	67
2026	2.0	Extend existing feeders to load center	6.5	6.5	19.6	58.9	67
2027	1.7	Extend existing feeders to load center	6.7	6.7	20.2	60.6	67
2028	1.4	Extend existing feeders to load center	6.9	6.9	20.6	62.0	67
2029	1.0	Install new 34 kV line from New TSS to new 34-12.5 kV DC with land; feeder work	7.0	6.3	15.8	63.0	67
2030	0.8	Extend existing feeders to load center	6.4	6.4	16.0	63.8	67