FINAL

CTPC 2024 Collaborative Transmission Plan Update

July 2025

Following is the mid-year update to the CTPC 2024 Collaborative Transmission Plan. The status and timing of all projects presented in the Plan have been reviewed and the update reflects all changes (shown in red) that have been identified. In-service dates were adjusted to either June 1 or December 1 to reflect the peak season by which the project will be in service, and to avoid the need for minor in-service date adjustments in the future. Where applicable, the actual in-service date was used. In addition, all cost projections have been reviewed and updated to reflect current estimates.

The total cost estimate of the 2024 Plan Reliability Projects changed from $2.0763 billion to $1.9318 billion. The total cost estimate of the 2024 Plan Public Policy Projects changed from $880 million to $848.3 million. Costs above $5 million are rounded to the nearest $1 million. Costs below $5 million are rounded to the nearest $100 thousand. The key differences between the original plan and this updated plan are summarized below:

Changes in Reliability Upgrades

Project	Cost Change ($M)	ISD Change (Months)	Reason For Change
DEC			
Wateree 100 kV Line (Great Falls-Wateree), Upgrade	-1	See "Reason for change"	Actual In-Service date
Kennedy 100 kV Line, RAS (Grid Enhancing Technology) to avoid overloads on the Kennedy Lines		See "Reason for change"	Project status changed to In-Service
Wilkes 230/100 kV Tie Station, Construct	-4	See "Reason for change"	Project status changed to In-Service
Breaker Station on Motley 100 kV Line for New Customer, Construct	-1	See "Reason for change"	Project status changed to In-Service
South Point 100 kV Switching Station, Construct	+1	Advanced 6 months	Updates to projections
Cokesbury 100 kV Line (Coronaca–Hodges), Upgrade	-3	Advanced 6 months	Updates to projections
Island Creek 44 kV Line, Conversion	-1	Advanced 6 months	Updates to projections
Cherokee 100 kV Line (Peach Valley-Enola Retail), Upgrade	-1		Project status changed to Underway
Earl 100 kV Line (Customer Tap-Customer Tap), Upgrade	-1		Project status changed to Underway
Wylie 100 kV Line (Wylie-Arrowood Retail), Upgrade	+1		Update to projections
Coronaca 100 kV Line (Coronaca-Creto), Upgrade and Construct	-8	Advanced 6 months	Updates to projections
Nanny Mountain 1 44 kV Line, Upgrade and Partial Conversion to 100 kV	-2	Advanced 6 months	Updates to projections
Sevier 100 kV Line (East Greenville-Verdae Retail Tap), Upgrade	-1	Delayed 6 months	Updates to projections
Pinewood 100 kV Line (Lawsons Fork-Una Retail), Upgrade	-1	Delayed 12 months	Project status changed to Underway
Shattalon Switching Station, RAS (Grid Enhancing Technology) to Avoid Overload on Bethania and Shattalon 100 kV Lines		Advanced 6 months	Update to projections
Monroe 100 kV Line (Lancaster-Monroe), Upgrade	-2		Update to projections
Davidson River 100 kV Line (North Greenville-Marietta), Upgrade	+7	Delayed 18 months	Updates to projections
Boyd Switching Station, Construct	-20		Update to projections
Hands Mill Switching Station, Construct	-3	Advanced 6 months	Updates to projections
Lyle Creek Switching Station, Construct	-23	Advanced 12 months	Updates to projections

Project	Cost Change ($M)	ISD Change (Months)	Reason For Change
Haas Creek Switching Station, Construct	-16	Advanced 6 months	Updates to projections
Messer 230 kV Line (Dixon School Rd-Customer), Construct	-12	Delayed 6 months	Updates to projections
Shelby 230/100/44 kV Tie, Upgrade	+2		Update to projections
Harrisburg 230/100/44 kV Tie Station, Upgrade	+5		Update to projections
North Greenville 230 kV Tie Station, Upgrade	-1		Update to projections
Hodges 230/100/44 kV Tie, Upgrade	-1		Update to projections
Troutman 44 kV Line, Upgrade and Partial conversion to 100 kV	-4		Project status changed to Underway
Sycamore B/W 100 kV (Longview-Lyle Creek), Upgrade and Network	+9	See "Reason for change"	Project status changed to Conceptual
Page and Guilford 100 kV Lines (Greensboro-North Greensboro), Upgrade	-3	Advanced 6 months	Updates to projections
Lookout Tie, RAS (Grid Enhancing Technology) to Avoid Overloads on Beulah and Hickory Lines100 kV Line		Advanced 6 months	Update to projections
States CTCC Bus Line 4, Construct		Advanced 30 months	Update to projections
Morning Star 230 kV Tie Station, Upgrade	+19	Advanced 18 months	Project status changed to Underway
Sandy Ridge 230 kV Line (Newport-Morning Star), Upgrade	+13		Update to projections
Crab Orchard 100 kV Line (Harrisburg-Amity), Upgrade	-1		Update to projections
Westport 230 kV Line (McGuire-Marshall), Upgrade	-11	See "Reason for change"	Updates to projections
Panther 100 kV Lines (Parkwood Tie-E Durham Tie), Upgrade and Network to E Durham Tie	-16	See "Reason for change"	Project status changed to Planned
Dairyhill 100 kV Line (Shelby-CUSTOMER Tap), Upgrade	-1		Update to projections
Oak Hollow Switching Station, Construct	-1		Update to projections
Lakewood 100 kV Line (Lakewood-Remount Road Retail), Reconductor	+6	See "Reason for change"	Project status changed to Planned
Tiger Tie Autotransformer #5 (230/100 kV) Upgrade	+5	See "Reason for change"	Project status changed to Planned
Bethania and Shattalon 100 kV Lines (Rural Hall-Shattalon), Upgrade	-1		Update to projections

Project	Cost Change ($M)	ISD Change (Months)	Reason For Change
Batte 100 kV Line (Concord-Winecoff), Reconductor	+4	See "Reason for change"	Project status changed to Planned
Delta 100 kV Line (Research Triangle Retail-Ellis Rd Retail), Reconductor		See "Reason for change"	Project status changed to Planned
E Durham 230/100 kV Tie, Construct Panther Line Terminals		See "Reason for change"	Project status changed to Planned
Ashe St 100 kV Line (Durham-Ashe St), Upgrade	-1	See "Reason for change"	Project status changed to Planned
Pinewood 100 kV Line, RAS (Grid Enhancing Technology) to Avoid Overload s on Pinewood Lines		See "Reason for change"	Project status changed to Planned
Beulah 100 kV Line (Lookout-EnergyUnited Del 18), Upgrade	-1		Update to projections
Reidsville and Wolf Creek 100 kV Lines (Dan River-Sadler), Upgrade	-1		Update to projections
Dan River 100 kV Line (Dan River-North Greensboro), Upgrade	-1	See "Reason for change"	Project status changed to Planned
Terrell 44 kV Line, Conversion	-1		Update to projections
Cabarrus 100 kV Line (Wildcat-Westfork), Upgrade	+10	See "Reason for change"	Project status changed to Planned
Concord 100 kV Line (Concord-Concord City Del 3), Upgrade	+10	See "Reason for change"	Project status changed to Underway
Oliver 230 kV Line (Marshall-Boyd), Upgrade	-1		Update to projections
DEP			
Havelock 230/115 kV Banks 1 & 2, Replace		See "Reason for change"	Actual In-Service date
Fayetteville 230/115 kV Bank #1, Upgrade 115 kV Disconnect Switches, Wave Traps, and CT Ratios	+8	Delayed 18 months	Update to projections
Sutton – Castle Hayne 230 kV line (Sutton - Wilmington Ninth & Orange), Upgrade Line Switch		See "Reason for change"	Project status changed to In-Service
Craggy–Enka 230 kV Line, Construct	-1	See "Reason for change"	Project status changed to In-Service
Jacksonville 230 kV, Upgrade CT Ratio for Jacksonville City 115 kV East Line and Add Second 115 kV Bus Tie Breaker	+1	Delayed 6 months	Update to projections
Richmond 500 kV Substation, Upgrade 230 kV Wave Trap, Disconnect Switches, and CT Ratio for the Laurinburg-Richmond 230 kV Line		See "Reason for change"	Project status changed to In-Service

Project	Cost Change ($M)	ISD Change (Months)	Reason For Change
Sutton-Wallace 230 kV Line, (Crooked Run Solar-Wallace) Raise Section and Increase CT Ratios and Relay Settings at Wallace 230 kV Substation		See "Reason for change"	Project status changed to In-Service
Richmond 500/230 kV Banks #1 & #2, Upgrade CT Ratios	-2	Delayed 6 months	Update to projections
Rocky Mount – Battleboro 115 kV Line, Reconductor		See "Reason for change"	Project status changed to In-Service
Havelock 230 kV Substation, Upgrade	+3	Delayed 6 months	Update to projections
Vanderbilt - West Asheville 115 kV Line, Upgrade 115 kV CB and Switches		Delayed 6 months	Update to projections
Carthage (Hill Crest) 230/115 kV Substation, Construct	+1		Update to projections
Asheville Plant – Oteen 115 kV West Line (Arden), Construct	+3		Update to projections
Castle Hayne–Folkstone115 kV Line, Rebuild	-11	Advanced 6 months	Update to projections
Weatherspoon – LOF 115 kV Line (Maxton-Pembroke), Reconductor	+5	Delayed 6 months	Update to projections
Goldsboro 115 kV Switching Station, Upgrade CT Ratio and Relay Settings on the Goldsboro-Wommack 115 kV Line		See "Reason for change"	Reduced Load forecast in the area
Asheboro – Siler City 115 kV Line, Reconductor		See "Reason for change"	No longer needed due to recent reduction to economic development loads
Brunswick 1 - Delco 230 kV East Line (Brunswick 1 - Southport Tap), Upgrade Switch ; Reconductor Brunswick 1-Southport Tap Section		Delayed 24 months	Update to projections
Brunswick 2 - Delco 230 kV West Line (Brunswick 2 – BEMC Southport), Raise Section		Advanced 24 months	Update to projections

Changes in Public Policy Upgrades

Project	Cost Change ($M)	ISD Change (Months)	Reason For Change
DEC			
Clinton 100 kV Line (Bush River-Laurens), Upgrade	-4	Advanced 6 months	Updates to projections
Newberry 115 kV Line (Bush River-DESC), Upgrade	-1	Advanced 6 months	Updates to projections
Lee 100 kV Line (Lee-Shady Grove), Upgrade	-7	See "Reason for change"	Project status changed to In-Service
Bush River Tie 115/100 kV, Upgrade		Advanced 6 months	Updates to projections
Champion B/W 100 kV (Bush River-Newberry PV), Upgrade	-6		Update to projections
Lilesville – Oakboro 230 kV Black & White Lines, Rebuild		Advanced 24 months	Updates to projections
Broadway B/W 100 kV Line (Belton-Lee), Upgrade	-24	Advanced 24 months	No longer proposing 230 kV specs.
DEP			
Erwin – Fayetteville 115 kV Line, Rebuild	-3	See "Reason for change"	Actual In-Service date
Camden - Camden Dupont 115 kV Line, Rebuild	-3	See "Reason for change"	Actual In-Service date
Fayetteville-Fayetteville Dupont 115 kV Line, Rebuild 3.2-mile section		See "Reason for change"	Project status changed to In-Service
Weatherspoon-Marion 115 kV Line, Rebuild	-1	See "Reason for change"	Project status changed to In-Service
Cape Fear – West End 230 kV Line, Rebuild	-1		Updates to projections
Erwin – Fayetteville East 230 kV Line, Rebuild	-5		Updates to projections
Fayetteville-Fayetteville Dupont 115 kV Line, Rebuild 4.9-mile section	-4		Updates to projections
Robinson Plant-Rockingham 230 kV Line, Rebuild	-9		Updates to projections
Camden Junction-Wateree 115 kV Line, Rebuild	+1		Updates to projections
Clayton Industrial - Selma 115 kV Line, Rebuild	+4		Updates to projections
Lilesville - Oakboro 230 kV Black & White lines, Rebuild	+2		Updates to projections
Lee - Milburnie 230 kV Line; Rebuild	+30		Updates to projections

Cost Change Summary

Type of Upgrade	Cost Change ($M)	Change Summary
Base Reliability	- 144.5	Decreased from $2.0763 B to $1.9318 B
Public Policy	-31.7	Decrease from $880 M to $848.3 M
Total	**-176.2 M**	Decreased from $2.9563 B to $2.7801 B

Reliability Upgrades

2024 Collaborative Transmission Plan – Reliability Projects Items identified in red are changes from the previous report.						
Project ID	**Reliability Project**	**Issue Resolved**	**Status[1]**	**Transmission Owner**	**Projected In-Service Date**	**Estimated Cost ($M)[2]**
DEC						
W190286	Wateree 100 kV Line (Great Falls-Wateree), Upgrade	Mitigate contingency loading	In-Service	DEC	11/7/2024	11
W210382	Kennedy 100 kV Line, RAS (Grid Enhancing Technology) to avoid overloads on the Kennedy Lines	Mitigate contingency loading	In-Service	DEC	4/10/2025	0.3
W220516	Davidson River 100 kV Lines, RAS (Grid Enhancing Technology) to avoid overload on the Davidsons River Lines	Mitigate contingency loading	In-Service	DEC	6/4/2025	0.6
NP09175	Wilkes 230/100 kV Tie Station, Construct	Mitigate contingency loading and voltage issues	In-Service	DEC	2/28/2025	59
W220125	Breaker Station on Motley 100 kV Line for New Customer, Construct	Required to serve new Customer	In-Service	DEC	4/22/2025	15
W200126	South Point 100 kV Switching Station, Construct	Mitigate contingency loading	Underway	DEC	6/1/2025	104
W220537	Ashe St Switching Station, RAS (Grid Enhancing Technology) to Avoid Overloads on Delta 100 kV Line	Mitigate contingency loading	Underway	DEC	12/1/2025	0.2
W220539	Batte 100 kV Line, RAS (Grid Enhancing Technology) to Avoid Overload s on Batte Lines	Mitigate contingency loading	Underway	DEC	12/1/2025	1.7
W230368	Mooresville Tie, RAS (Grid Enhancing Technology) to Avoid Overloads on Timber and Sherrill 100 kV Lines	Mitigate contingency loading	Underway	DEC	12/1/2025	0.5
W190242	Cokesbury 100 kV Line (Coronaca–Hodges), Upgrade	Mitigate contingency loading	Underway	DEC	6/1/2025	26
W200379	Island Creek 44 kV Line, Conversion	Required to serve new Customer	Underway	DEC	6/1/2025	13
W200010	Cherokee 100 kV Line (Peach Valley-Enola Retail), Upgrade	Mitigate contingency loading	Underway	DEC	6/1/2026	7
W210192	Earl 100 kV Line (Customer Tap-Customer Tap), Upgrade	Mitigate contingency loading	Underway	DEC	6/1/2026	11
W200030	Wylie 100 kV Line (Wylie-Arrowood Retail), Upgrade	Mitigate contingency loading	Underway	DEC	6/1/2026	15
W200039	Coronaca 100 kV Line (Coronaca-Creto), Upgrade and Construct	Mitigate contingency loading	Underway	DEC	6/1/2026	33
W230158	Nanny Mountain 1 44 kV Line, Upgrade and Partial Conversion to 100 kV	Mitigate contingency loading and voltage issues	Planned	DEC	6/1/2026	4.7
W200042	Sevier 100 kV Line (East Greenville-Verdae Retail Tap), Upgrade	Mitigate contingency loading	Underway	DEC	6/1/2027	19

2024 Collaborative Transmission Plan – Reliability Projects Items identified in red are changes from the previous report.						
Project ID	**Reliability Project**	**Issue Resolved**	**Status[1]**	**Transmission Owner**	**Projected In-Service Date**	**Estimated Cost ($M)[2]**
W200148	Pinewood 100 kV Line (Lawsons Fork-Una Retail), Upgrade	Mitigate contingency loading	Underway	DEC	6/1/2028	9
W220053	Shattalon Switching Station, RAS (Grid Enhancing Technology) to Avoid Overload on Bethania and Shattalon 100 kV Lines	Mitigate contingency loading	Underway	DEC	12/1/2026	0.7
W200031	Monroe 100 kV Line (Lancaster-Monroe), Upgrade	Mitigate contingency loading	Underway	DEC	6/1/2027	67
W200599	Davidson River 100 kV Line (North Greenville-Marietta), Upgrade	Mitigate contingency loading	Planned	DEC	12/1/2028	26
W220367	Boyd Switching Station, Construct	Required to serve new Customer	Underway	DEC	6/1/2027	74
W230145	Hands Mill Switching Station, Construct	Required to serve new Customer	Underway	DEC	12/1/2026	64
W220209	Lyle Creek Switching Station, Construct	Required to serve new Customer	Underway	DEC	12/1/2026	89
W220368	Haas Creek Switching Station, Construct	Required to serve new Customer	Underway	DEC	6/1/2027	75
W230245	Messer 230 kV Line (Dixon School Rd-Customer), Construct	Required to serve new Customer	Underway	DEC	6/1/2028	29
W230276	Shelby 230/100/44 kV Tie, Upgrade	Mitigate contingency loading	Underway	DEC	6/1/2028	16
W200187	Harrisburg 230/100/44 kV Tie Station, Upgrade	Mitigate contingency loading	Planned	DEC	12/1/2028	18
W170306	North Greenville 230 kV Tie Station, Upgrade	Mitigate contingency loading	Underway	DEC	12/1/2028	33
W200116	Hodges 230/100/44 kV Tie, Upgrade	Mitigate contingency loading	Planned	DEC	6/1/2029	40
W200150	Troutman 44 kV Line, Upgrade and Partial conversion to 100 kV [Modification to 0110 in 2023 Plan - Additional Scope]	Mitigate non-contingency loading	Underway	DEC	6/1/2029	41
W230389	Sycamore B/W 100 kV (Longview-Lyle Creek), Upgrade and Network	Mitigate contingency loading	Conceptual	DEC	TBD	17
W200061	Page and Guilford 100 kV Lines (Greensboro-North Greensboro), Upgrade	Mitigate contingency loading	Underway	DEC	12/1/2028	27
W240295	Lookout Tie, RAS (Grid Enhancing Technology) to Avoid Overloads on Beulah and Hickory Lines100 kV Line	Mitigate contingency loading	Planned	DEC	6/1/2030	0.1
W180359	States CTCC Bus Line 4, Construct	Mitigate contingency loading	Planned	DEC	12/1/2028	3.7
W240278	Central 230/100/44 kV Tie, Upgrade, Add Redundant Relaying	Mitigate contingency	Planned	DEC	6/1/2031	0.9
W200172	Morning Star 230 kV Tie Station, Upgrade	Mitigate contingency loading	Underway	DEC	12/1/2029	58

2024 Collaborative Transmission Plan – Reliability Projects Items identified in red are changes from the previous report.						
Project ID	**Reliability Project**	**Issue Resolved**	**Status[1]**	**Transmission Owner**	**Projected In-Service Date**	**Estimated Cost ($M)[2]**
W200592	Crest St 100 kV Lines, Raise individual towers	Mitigate contingency loading	Planned	DEC	12/1/2031	1.9
W190390	Gastonia # 2 44 kV Line, Rebuild Clover 44kV line to double circuit and add a new tap off the Gastonia #2 Line	Mitigate contingency loading	Planned	DEC	6/1/2032	2.3
W200262	Sandy Ridge 230 kV Line (Newport-Morning Star), Upgrade	Mitigate contingency loading	Planned	DEC	6/1/2033	50
W200590	Crab Orchard 100 kV Line (Harrisburg-Amity), Upgrade	Mitigate contingency loading	Planned	DEC	6/1/2033	14
W200595	Westport 230 kV Line (McGuire-Marshall), Upgrade	Mitigate contingency loading	Conceptual	DEC	TBD	42
W200034	Panther 100 kV Lines (Parkwood Tie-E Durham Tie), Upgrade and Network to E Durham Tie	Mitigate contingency loading	Planned	DEC	12/1/2030	40
W200120	Dairyhill 100 kV Line (Shelby-CUSTOMER Tap), Upgrade	Mitigate contingency loading	Conceptual	DEC	TBD	10
W200144	Oak Hollow Switching Station, Construct	Mitigate contingency loading	Conceptual	DEC	TBD	6
W200146	Swepsonville 100 kV Line (Mebane-Trollingwood Retail), Rebuild	Mitigate contingency loading	Conceptual	DEC	TBD	3.3
W200168	Steam 100 kV Line (Dan River CC-Dan River Steam), Rebuild	Mitigate contingency loading	Conceptual	DEC	TBD	1
W200170	Lakewood 100 kV Line (Lakewood-Remount Road Retail), Reconductor	Mitigate contingency loading	Planned	DEC	12/1/2028	8
W200413	Tiger Tie Autotransformer #5 (230/100 kV) Upgrade	Mitigate contingency loading	Planned	DEC	12/1/2028	12
W200425	Marshall 230 kV Line (Marshall-Beckerdite), Raise individual towers	Mitigate contingency loading	Conceptual	DEC	TBD	0.2
W200582	Bethania and Shattalon 100 kV Lines (Rural Hall-Shattalon), Upgrade	Mitigate contingency loading	Conceptual	DEC	TBD	14
W200588	Ferrell White 100 kV Line, Construct	Mitigate contigency loading	Conceptual	DEC	TBD	0.6
W210482	Madison Tie, Upgrade, add 100/44 kV Transformer	Mitigate contigency loading	Conceptual	DEC	TBD	2.4
W220474	Batte 100 kV Line (Concord-Winecoff), Reconductor	Mitigate contingency loading	Planned	DEC	12/1/2028	6
W220543	Delta 100 kV Line (Research Triangle Retail-Ellis Rd Retail), Reconductor	Mitigate contingency loading	Planned	DEC	12/1/2028	2.9
W230093	Woodlawn 230/100/44 kV Tie Station, Upgrade Add 44 kV Breaker	Mitigate contigency loading	Conceptual	DEC	TBD	1.7
W230387	E Durham 230/100 kV Tie, Construct Panther Line Terminals	Mitigate contigency loading	Planned	DEC	12/1/2030	0.8
W230402	Ashe St 100 kV Line (Durham-Ashe St), Upgrade	Mitigate contingency loading	Planned	DEC	12/1/2027	11
W240008	Pinewood 100 kV Line, RAS (Grid Enhancing Technology) to Avoid Overloads on Pinewood Lines	Mitigate contingency loading	Planned	DEC	6/1/2028	0.1
CTPCDEC01	Beulah 100 kV Line (Lookout-EnergyUnited Del 18), Upgrade	Mitigate contingency loading	Conceptual	DEC	TBD	20
CTPCDEC02	Harley 100 kV Line (Tiger-Campobello), Upgrade	Mitigate contingency loading	Conceptual	DEC	TBD	45

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Project ID	**Reliability Project**	**Issue Resolved**	**Status[1]**	**Transmission Owner**	**Projected In-Service Date**	**Estimated Cost ($M)[2]**
W200149	Reidsville and Wolf Creek 100 kV Lines (Dan River-Sadler), Upgrade	Mitigate contingency loading	Conceptual	DEC	TBD	36
W200162	Dan River 100 kV Line (Dan River-North Greensboro), Upgrade	Mitigate contingency loading	Planned	DEC	6/1/2030	88
W200173	Terrell 44 kV Line, Conversion	Mitigate contingency loading and voltage issues	Conceptual	DEC	TBD	25
W200412	Skybrook 100 kV Line (Winecoff-Eastfield Retail), Upgrade	Mitigate contingency loading	Conceptual	DEC	TBD	15
W220507	Cabarrus 100 kV Line (Wildcat-Westfork), Upgrade	Mitigate contingency loading	Planned	DEC	12/1/2027	14
W220559	Concord 100 kV Line (Concord-Concord City Del 3), Upgrade	Mitigate contingency loading	Underway	DEC	12/1/2029	13
W230087	Kennedy 100 kV Line (Orchard-Newton Tap), Upgrade	Mitigate contingency loading	Conceptual	DEC	TBD	6
W230358	Hinkle 100 kV Line (Stamey-Statesville), Upgrade	Mitigate contingency loading	Conceptual	DEC	TBD	7
W230384	Oliver 230 kV Line (Marshall-Boyd), Upgrade	Mitigate contingency loading	Conceptual	DEC	TBD	16
DEP						
E190037	Havelock 230/115 kV Banks 1 & 2, Replace	Mitigate contingency loading	In-Service	DEP	6/19/2024	8
DFYF00152	Castle Hayne-Folkstone 230 kV Line – Porters Neck 230 kV Tap Line, Construct	Required to serve the new Porters Neck 230 kV T-D Substation	In-Service	DEP	8/19/2024	38
E210078	Fayetteville 230/115 kV Bank #1, Upgrade 115 kV Disconnect Switches, Wave Traps, and CT Ratios	Mitigate contingency loading	Underway	DEP	6/1/2026	11
E210227	Sutton – Castle Hayne 230 kV line (Sutton - Wilmington Ninth & Orange), Upgrade Line Switch	Mitigate contingency loading	In-Service	DEP	4/25/2025	0.5
E190030	Craggy–Enka 230 kV Line, Construct	Mitigate contingency loading	In-Service	DEP	6/5/2025	92
E190052	Jacksonville - Jacksonville City 115 kV East Line, Upgrade CT Ratio at Jacksonville	Mitigate contingency loading	Underway	DEP	12/1/2025	1.6
E210081	Richmond 500 kV Substation, Upgrade 230 kV Wave Trap, Disconnect Switches, and CT Ratio for the Laurinburg-Richmond 230 kV Line	Mitigate contingency loading	In-Service	DEP	10/1/2024	0.8
E220096	Sutton-Wallace 230 kV Line, (Crooked Run Solar-Wallace) Raise Section and Increase CT Ratios and Relay Settings at Wallace 230 kV Substation	Mitigate contingency loading	In-Service	DEP	4/15/2025	0.9
E230041	Richmond 500/230 kV Banks #1 & #2, Upgrade CT Ratios	Mitigate contingency loading	Underway	DEP	12/1/2025	2
F170628C	Rocky Mount – Battleboro 115 kV Line, Reconductor	Mitigate contingency loading	In-Service	DEP	2/28/2025	13

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Project ID	**Reliability Project**	**Issue Resolved**	**Status[1]**	**Transmission Owner**	**Projected In-Service Date**	**Estimated Cost ($M)[2]**
E210150	Havelock 230 kV Substation, Upgrade	Mitigate contingency loading	Underway	DEP	6/1/2026	10
E220408	Vanderbilt - West Asheville 115 kV Line, Upgrade 115 kV CB and Switches	Mitigate contingency loading	Underway	DEP	6/1/2026	2
E230061	Henderson 230/115 kV Banks #1 & #2, Upgrade CT Ratios and Relay Settings	Mitigate contingency loading	Underway	DEP	12/1/2025	2.9
E210073	Carthage (Hill Crest) 230/115 kV Substation, Construct	Mitigate contingency loading and voltage issues	Underway	DEP	6/1/2026	34
E220112	Asheville Plant – Oteen 115 kV West Line (Arden), Construct	Mitigate low voltage issues	Underway	DEP	6/1/2026	15
E190092	Greenville - VEPCO Everetts 230 kV Line, Reconductor	Mitigate contingency loading	Underway	DEP	12/1/2026	30
E200161	Castle Hayne–Folkstone115 kV Line, Rebuild	Mitigate contingency loading	Underway	DEP	6/1/2026	78
E230059	Sumter – SCEG Eastover 115 kV Line (Kings Hwy – Shaw Field – Eastover), Reconductor	Mitigate contingency loading	Underway	DEP	12/1/2026	27
F170824H	Weatherspoon – LOF 115 kV Line (Maxton-Pembroke), Reconductor	Mitigate contingency loading	Underway	DEP	6/1/2027	24
E240135	Sumter - SCEG Eastover 115 kV Line (Gold Kist Tap-Kings Hwy Section), Reconductor	Mitigate contingency loading	Underway	DEP	12/1/2027	10
E220343	Goldsboro 115 kV Switching Station, Upgrade CT Ratio and Relay Settings on the Goldsboro-Wommack 115 kV Line	Mitigate contingency loading	Removed	DEP		
E220378	Asheboro – Siler City 115 kV Line, Reconductor	Mitigate contingency loading	Removed	DEP		
E240198	Brunswick 1 - Delco 230 kV East Line (Brunswick 1 - Southport Tap), Upgrade Switch ; Reconductor Brunswick 1-Southport Tap Section	Mitigate contingency loading	Planned	DEP	6/1/2030	4.5
E240188	Brunswick 2 - Delco 230 kV West Line (Brunswick 2 – BEMC Southport), Raise Section	Mitigate contingency loading	Planned	DEP	6/1/2027	2
CTPCDEP01	Durham – RTP 230 kV Line, Reconductor	Mitigate contingency loading	Conceptual	DEP	TBD	TBD
CTPCDEP02	Weatherspoon – LOF 115 kV Line (Weatherspoon- LREMC West Lumberton), Reconductor	Mitigate contingency loading	Deferred	DEP	TBD	TBD

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Project ID	**Reliability Project**	**Issue Resolved**	**Status[1]**	**Transmission Owner**	**Projected In-Service Date**	**Estimated Cost ($M)[2]**
CTPCDEP03	Falls – Franklinton (Franklinton – Franklinton Novo 115 kV Feeder), Construct	Mitigate low voltage issues	Conceptual	DEP	TBD	TBD
CTPCDEP04	Rocky Mount - Wilson 115 kV Line, Upgrade	Mitigate contingency loading	Conceptual	DEP	TBD	TBD
E210145	Holly Ridge North 115 kV Switching Station, Construct	Mitigate low voltage issues	Conceptual	DEP	TBD	TBD
					Total	**1931.8**

[1] Status: *Underway:* Projects with this status range from the Transmission Owner having some money in its current year budget for the project to the Transmission Owner having completed some construction activities for the project.
Planned: Projects with this status do not have money in the Transmission Owner's current year budget, and the project is subject to change.
Conceptual: Projects with this status are not *Planned* at this time but will continue to be evaluated as a potential project in the future.
Deferred: Projects with this status were identified in the 2024 Plan and have been deferred beyond the end of the planning horizon based on analysis performed to develop the Mid-Year Update to the 2024 Plan.
Removed: Projects with this status have been cancelled and are no longer in the Plan.

[2] The estimated cost is in nominal dollars which reflects the sum of the estimated annual cash flows over the expected development period for the specific project (typically 2 – 5 years), including direct costs, loadings and overheads; but not including AFUDC. Each year's cash flow is escalated to the year of the expenditures. The sum of the expected cash flows is the estimated cost.

Public Policy Upgrades

2024 Collaborative Transmission Plan – Public Policy Projects Items identified in red are changes from the previous report.						
Project ID	**Public Policy Project**	**Issue Resolved**	**Status[1]**	**Transmission Owner**	**Projected In-Service Date**	**Estimated Cost ($M)[2]**
	DEC					
W200169	Piedmont 100 kV Line (Lee-Shady Grove), Upgrade	This upgrade is needed to implement resource plans and to reliably serve customer load.	Underway	DEC	12/1/2026	46
W220122	Clinton 100 kV Line (Bush River-Laurens), Upgrade	This upgrade is needed to implement resource plans and to reliably serve customer load.	Underway	DEC	6/1/2026	87
W220124	Newberry 115 kV Line (Bush River-DESC), Upgrade	This upgrade is needed to implement resource plans and to reliably serve customer load.	Underway	DEC	6/1/2026	39
W230192	Lee 100 kV Line (Lee-Shady Grove), Upgrade	This upgrade is needed to implement resource plans and to reliably serve customer load.	In-Service	DEC	6/4/2025	37
W230066	Bush River Tie 115/100 kV, Upgrade	This upgrade is needed to implement resource plans and to reliably serve customer load.	Planned	DEC	12/1/2027	12
W240161	Champion B/W 100 kV Line (Bush River-Newberry PV), Upgrade	This upgrade is needed to implement resource plans and to reliably serve customer load.	Planned	DEC	6/1/2028	27
W230323	Lilesville – Oakboro 230 kV Black & White Lines, Rebuild	This upgrade is needed to implement resource plans and to reliably serve customer load.	Planned	DEC	12/1/2027	31
W230029	Broadway B/W 100 kV Line (Belton-Lee), Upgrade	This upgrade is needed to implement resource plans and to reliably serve customer load.	Planned	DEC	12/1/2028	26

2024 Collaborative Transmission Plan – Public Policy Projects Items identified in red are changes from the previous report.						
Project ID	**Public Policy Project**	**Issue Resolved**	**Status[1]**	**Transmission Owner**	**Projected In-Service Date**	**Estimated Cost ($M)[2]**
	DEP					
E220084	Erwin – Fayetteville 115 kV Line, Rebuild	This upgrade is needed to implement resource plans and to reliably serve customer load.	In-Service	DEP	12/5/2024	16
E220090	Camden - Camden Dupont 115 kV Line, Rebuild	This upgrade is needed to implement resource plans and to reliably serve customer load. This upgrade must be completed prior to starting the outage for the Camden Junction – Wateree 115 upgrade.	In-Service	DEP	12/5/2024	7
E220071	Fayetteville-Fayetteville Dupont 115 kV Line, Rebuild 3.2-mile section	This upgrade is needed to implement resource plans and to reliably serve customer load.	In-Service	DEP	2/7/2025	4.4
E220091	Weatherspoon-Marion 115 kV Line, Rebuild	This upgrade is needed to implement resource plans and to reliably serve customer load.	In-Service	DEP	6/23/2025	12
E220082	Cape Fear – West End 230 kV Line, Rebuild	This upgrade is needed to implement resource plans and to reliably serve customer load.	Underway	DEP	6/1/2026	51
E220083	Erwin – Fayetteville East 230 kV Line, Rebuild	This upgrade is needed to implement resource plans and to reliably serve customer load.	Underway	DEP	6/1/2026	49
E220086	Milburnie 230 kV Substation, Upgrade	This upgrade is needed to implement resource plans and to reliably serve customer load.	Underway	DEP	6/1/2026	4.9
E220087	Fayetteville-Fayetteville Dupont 115 kV Line, Rebuild 4.9-mile section	This upgrade is needed to implement resource plans and to reliably serve customer load.	Underway	DEP	6/1/2026	12

2024 Collaborative Transmission Plan – Public Policy Projects Items identified in red are changes from the previous report.						
Project ID	**Public Policy Project**	**Issue Resolved**	**Status[1]**	**Transmission Owner**	**Projected In-Service Date**	**Estimated Cost ($M)[2]**
E220088	Robinson Plant-Rockingham 230 kV Line, Rebuild	This upgrade is needed to implement resource plans and to reliably serve customer load.	Underway	DEP	6/1/2026	36
E220093	Camden Junction-Wateree 115 kV Line, Rebuild	This upgrade is needed to implement resource plans and to reliably serve customer load.	Underway	DEP	12/1/2026	17
E220219	Robinson Plant-Rockingham 115 kV Line, Rebuild	This upgrade is needed to implement resource plans and to reliably serve customer load.	Planned	DEP	6/1/2027	42
E230122	Clayton Industrial - Selma 115 kV Line, Rebuild	This upgrade is needed to implement resource plans and to reliably serve customer load.	Planned	DEP	12/1/2027	29
E230124	Lilesville - Oakboro 230 kV Black & White lines, Rebuild	This upgrade is needed to implement resource plans and to reliably serve customer load.	Planned	DEP	6/1/2028	107
E240038	Lee - Milburnie 230 kV Line; Rebuild	This upgrade is needed to implement resource plans and to reliably serve customer load.	Planned	DEP	12/1/2031	156
TOTAL						**848.3**

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