

TRI-STATE 2010-2019 TEN-YEAR TRANSMISSION CAPITAL CONSTRUCTION PLAN

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CONTINUING PROJECTS--TRANSMISSION

AREA	PROJECT TITLE	SCH ENG	COMMENTS
CNM	Buford 115kV DP	11/4Q	4 MI 115kV Line, (2) MOLB, Metering
EC	Brush Colo Facility Improvements	10/4Q	
	Deering Lake-Wray (TS) 115kV Line Reliab Add	10/4Q	TS Share of WAPA Construction (Willoby Substation)
	East CO 115kV Reliab Add-Ph. I & II	11/2Q	2 Bkrs @ S. Fork, 2 Bkrs @ Last Chance
	Erie 230/115kV Sub	10/1Q	200 MVA XFMR, 2-230kV Brkrs, (1) 115kV Brkr
	Erie- Hoyt 230kV Line	10/1Q	32 MI 230/115kV Line; WAPA Const
	Henry Lake Substation Add & 230kV DC Line	10/2Q	2-230kV Breakers, 1/2 MI Dbl Cir 230kV Line
	Story 230kV Tie Line & 230kV Line Bay	10/1Q	230kV Tie Line To New WAPA Switchyard & 2-230kV Brkrs
FH	Ault-Cheyenne 230x115 DBL Cir Rebuild	10/2Q	08 SBA-35 MI 230x115kV, WAPA Const, 230/115kV XFMR @ Ault
	Boomerang 115kV DP Project	10/4Q	115kV Switches, Meter, Comm, WAPA Tap
	North Colo Maintenance Center	10/4Q	
	Richard Lake-Waverly 115kV Project	10/4Q	7.9 MI, 477 ACSR; PRPA design & const., TS reim, 2-115kV Line Bays, 115kV Meter; Switches & Metering
	Sipres 230kV DP	10/4Q	2-230kV MODs, 4 CB ring bus w/o CBs, 12.5kV Metering & Comm
	Slater 115kV DP Project	10/2Q	3 CB w/switches (1.5 CB Design), 12.5kV RM, Comm
	Todd Creek 230kV DP Project	11/4Q	Cherokee-(Pit Val)FT Lupton 230kV Upgrade Tap; 2-230 CB, 12.5 Meter; Includes Bldg.
	United Power Sys Improve Project-Ph II	11/4Q	4.6 MI 115kV Line; 115kV CB & MOD, Meter, UP Const
	United Power Sys Improve Project-Ph III	12/4Q	4.1 MI 115kV Line; 1-115kV Bkr @ Prairie Center
MP	Farr-Windy Gap 138x69kV DBL-CKT Loop Project	11/4Q	10 MI-Dbl Cir 138/69kV Line; New 56 MVA, 138/69 XFMR @ Farr; 1-138kV Bkr @ W. Gap
	Mettler 138kV CB & Transfer Bus	10/2Q	3rd XFMR& 1-138kV CB by MP, 138kV CB & Transfer Bus by T/S
NENM	Gladstone 2nd 230/115kV XFMR	10/2Q	120/160/200 MVA
NNM	Cruz Alta 115/24.9kV DP	10/4Q	2-115kV MODs, 24.9 Metering & Comm
	Hernandez 115/69 T1 XFMR Replace	10/4Q	SBA 2009
	Turley 115kV DP	10/1Q	Meter & Comm
SCC	SLV-Calumet-Comanche Transmission Project	13/3Q	93 mi, Dbl Ckt 230kV, 1272 ACSR, 43 mi, Dbl Ckt 345kV, 2-1272 ACSR, 6 mi, Dbl Ckt 230kV, 1272 ACSR
SEC	Big Sandy-Lincoln-Midway 230kV Line	10/4Q	Big Sandy-Midway 56 MI Uprate
	Emil Anderson: Install 115kV Breakers & Meter	11/4Q	(3) 115kV Brkrs Line Breakers, Meter
SNM	Jarilla Substation 115kV DP	10/4Q	24.9kV Metering & Comm (Formerly Oro Grande)
SWNM	Caballo-Hot Springs 115kV Line Replace	10/4Q	15.5 MI 115kV Line to replace hollow core conductor
	Caballo-Mimbres 115kV Line Replace	12/4Q	56.6 MI new 115kV Line to replace hollow core conductor
	Pietown 24.9kV DP Meter	11/4Q	34.5kV Rev Meter plus comm

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CONTINUING PROJECTS--TRANSMISSION**

AREA	PROJECT TITLE	SCH ENG	COMMENTS
WC	Alkali-Crested Butte Structure 168 Replacement	10/4Q	
	Bayfield 115/69kV XFMR Replace	11/2Q	Replace 12 MVA 115-69kV Auto XFMR
	Bayfield 115-12.5kV DP	11/2Q	12.5kV Metering & 115/46kV XFMR relocate
	Bayfield-Durango 115kV Line Rebuild	10/2Q	15.6 MI, 795 ACSR, 100 DEG C; Replace 1-115kV CB @ Durango; 2 Switches. Bus. & CTs @ Bavfield
	Bullock #2 115-12kV XFMR Replace	10/4Q	Replace #2 115-12kV 22.4 MVA XFMR with 37.3 MVA
	Delta Cnty 115kV Trans Line Improve Project	10/4Q	16.4 MI 477 ACSR Line; 33 MVA 115/46kV Sub (D-Spoon); Uprate GV 115/12kV: 3-115 kV Bkrs-Star Nelson
	East Montrose 115kV DP	11/4Q	10 MI 477 ACSR Line, 3-115kV CBs @ Peach Valley, Mtr & Switches by TS, 115 CBs by DMEA
	G. Mesa- G. Mesa TP 115kV Line Acquisition	10/4Q	Line Acquisition per Agreement
	Happy Canyon 115kV Line Section	11/4Q	DMEA Participation
	Hotchkiss 2-7.5 MVAR, 115 Cap Add	10/2Q	Includes new control building
	Juanita T1 XFMR Replacement	10/4Q	115/46kV, 33.3 MVA w/ LTC
	LPEA-San Juan Project	12/3Q	Total of the San-Juan Projects
	Mobile #5 Replacement	10/4Q	Replace failed mobileXFMR
	Nucla-Telluride 115kV Project	12/4Q	38 MI 477 ACSR OH, 10 MI UG, 1 CB Nucla, 2 CBs Sunshine, 2 CBs Norwood
	WC Backup Generators	11/4Q	Cascade and Burro Bridge
Willow Crk 12.5kV Cable Replace & Switch	10/4Q		
WN	Alliance Caps Control Building	11/1Q	
WNM	Rio Rancho Facility Improvements	10/4Q	
NETSER	Long Term Resource Develop Project (Trans)	10/4Q	6600 represents a range of CP'S #'S for EPTP development

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REPLACEMENTS & EFFICIENCY --TRANSMISSION

AREA	PROJECT TITLE	SCH ENG	COMMENTS
OTHER	Alternate Station Service Installation	12/4Q	4 YR Capital project
	Battery Bank Replacements	12/4Q	4 YR Capital project
	Breaker Replacements	12/4Q	4 YR Capital project
	Capacitor Component Replacements	12/4Q	4 YR Capital project
	Circuit Switcher & Disconnect Replacement	12/4Q	4 YR Capital project
	Control Building Upgrades	12/4Q	4 YR Capital project
	Deadend Structure Additions	12/4Q	4 YR Capital project
	Field Facilities Building Improvements	12/4Q	4 YR Capital project
	Instrument Transformer Replacements	12/4Q	4 YR Capital project
	Relay Replacements	12/4Q	4 YR Capital project
	Secondary Oil Containment	12/4Q	4 YR Capital project
	Structure Replacements	12/4Q	4 YR Capital project
	Substation Land Acquisition	12/4Q	4 YR Capital project
	Substation Yard Improvements	12/4Q	4 YR Capital project
	Transformer Replacements (<138 kV)	12/4Q	4 YR Capital project
	Transmission Line Route Improvement	12/4Q	4 YR Capital project
	Underfrequency Load Shedding	12/4Q	4 YR Capital project
	Unplanned New DP Metering	12/4Q	4 YR Capital project
	Unplanned Transmission Capital Work	12/4Q	4 YR Capital project

**TRI-STATE 2010-2019 TEN-YEAR TRANSMISSION CAPITAL
CONSTRUCTION PLAN
NEW PROJECTS--TRANSMISSION**

AREA	PROJECT TITLE	SCH ENG	COMMENTS
EC	Burlington-Wray 230kV Line	12/4Q	56 MI 230kV
	Kit Carson Wind Interconnect	10/4Q	
FH	Carey 230kV DP	11/2Q	
	Lake Canal 230kV Station	11/2Q	3-230kV Breaker Ring Bus
	Lake Canal-Carey 230kV Line	12/2Q	2.5 miles, 230kV Double Circuit
	Promontory Park Substation	12/4Q	7-230kV Breakers; 2-230/115kV, 250 MVA XFMRs; 11-115kV
	Promontory Park-Weld 230kV Line	12/4Q	
MP	North Park - T2 Addition	10/4Q	TS (1) 230kV CB, 2 DS, Meter, SCADA
NNM	Cimarron 1 Solar Farm	10/2Q	SBA - January
	Cimarron Facility Improvements	10/4Q	
SCC	Plaza-Waverly 115kV Loop Project	13/4Q	32.5 MI, Ring Bus @ Plaza & Waverly, Xfmr Relocate
SEW	Arrow-Archer-Cheyenne Trans Project	13/4Q	10 MI, 9 Breakers, & 1-345/230kV 500 MVA XFMR
SNM	Dona Ana Switchyard Rebuild	11/2Q	Rebuild as 3-Breaker 115kV Ring Bus & new Control Building
WC	Craig 230kV PCB 482 Replace	10/4Q	CO. 56 - 100% Xcel - Area B @ Craig
	Craig 230kV PCB 886 Replace	10/4Q	CO 56
	Craig Relay Replace Ault 345kV	10/4Q	CO 56
	Craig Relay Replace Rifle 230kV	10/4Q	CO 56
	Crested Butte: 1-7.5 MVAR, 115 Cap Add	10/4Q	Planning Studies show the need for Cap. Bank installation during N-1 Outages.
	Empire CO2 115kV Loop Acquisition	10/4Q	
WNM	Mendoza Interconnection	10/4Q	Network Service to PNM (Formerly Red Rock)

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PLANNED PROJECTS--TRANSMISSION

AREA	PROJECT TITLE	SCH ENG	COMMENTS
EC	Oneok 115kV DP Project-HEA	12/2Q	Oneok-Red Willow: 20mi 477 radical; 1CB@RW, SCADA, comm: Sfmr CS@RW>HEA's cost; 5MW NG compressor, 20-50 MW wind (100% Reim)
EC	Burlington 230/115kV, 167 MVA Xfmr UP	16/4Q	Replace exist 100 MVA Xfmr
EN	Blackwood Crk-Enders 115kV Loop Project	16/2Q	Ring Bus @ Blackwood Crk, Line Bay at Enders, 23 MI of line
	Elsie Tap 7.5 MVAR 115kV Cap Bank Add	12/2Q	
	Lake McConaughy 115kV DP	17/4Q	Line Tap with 115kV Breaker, No XMLss
	Lamar 7.5 MVAR 115kV Cap	11/2Q	Assume New Bank, May be able to Upgrade Existing Bank
	Ogallala-Roscoe 115kV Line Rebuild	12/2Q	12.3 miles of 795 ACSR Rebuild
	Wildhorse: 115kV, 2- 7.5 MVAR Cap Add	16/2Q	
FH	Gunbarrel 230kV DP	11/2Q	TS cost from Xcel=\$334 k; Mtr; Comm; SCADA
	Kersey (Ireland) 230kV DP (Formerly Calpine)	12/2Q	230 Tp of FtLptn-Pawn or GrmVly-StVrn;3 CB,12.5 RM, comm, PSCo may be reimb
	Longs Peak 230kV DP	14/2Q	230 CB, 12.5 RM, comm; PRPA const
	Panama 230kV DP	12/2Q	230 Tp of Isbel-StVrn or Spndl-Vlmt;3 CB,12.5 RM, comm, PSCo may reimb
	Platteville 230kV DP	13/4Q	230 Tp of Isbel-StVrn or Spndl-StVrn;230 Dbl Ckt-0.5MI_613MVA, 3 CB,12.5 RM, comm, PSCo may reimb
	Reunion 230kV DP MOD-T2	12/2Q	Switch, 12.5 RM
MP	Mill 14.4kV DP MTR	13/3Q	25kV, 1Ø DP-MPEI at Xcel sub; TS Mtr
	Val Moritz 138kV DP Project	14/4Q	(2)138kV MOLBS, Cnl bldg; 25kV Mtr; Comm, SCADA
NENM	Clapham 20 MVAR Cap Bank	11/1Q	115kV Bay & Bkr, 2-10 MVAR Shunt Banks, SCADA, comm
	Rosebud 20 MVAR Cap Bank	11/1Q	115kV Bay & Bkr, 2-10 MVAR Shunt Banks, SCADA, comm 100% REIM
NNM	Chama-Dulce 69x115kV Line Project	11/4Q	25 mi 69kV, 69kV Brkrs@ Dulce; 50% JT PJT w/NORA
	Dulce Project- Exist Sys Improve	12/4Q	Install new 115/69kV Xfmrs, 115kV bkrs, comm, SCADA, & RT-Interchange metering, cap banks.
	Dulce-Navajo Dam 115kV Trans Project	12/4Q	38 mi of 115kV Line, 115kV Brkrs @ Dulce & Navajo Dam
SEC	Calhan 115kV Sub Addition	13/4Q	TS-(2)115kV CB's
	Calhan-Paddock 115kV Line	13/4Q	3 mi-dbl ckt twrs, 115&69kV ckts, 15 mi-sngl ckt twrs, (1)115kV ckt, 795, 100° C
	Calhan-Road 125 115kV Line	16/4Q	26 mi-Wd H Frame; 795; 100°C; 232 MVA; 9 mi New ROW; 17 mi Ex ROW;
	Elbert-Road 125 115kV Line	16/4Q	28mi-Wd H Frame; 795; 100°C; 232 MVA; New ROW;
	Emil Anderson Cap Bank Addition	13/3Q	TS-(2)115kV CB's; (2)7.5MVAR caps
	Falcon 69>115kV Sub Upgrade	13/4Q	TS-(4)115kV CB's
	Falcon-Mldway 115kV Line Uprate	16/2Q	~26.7 mi-477 ACSR 50° to 75°C (146 MVA)
	Falcon-Paddock 69>115kV Line Rebuild	13/4Q	7 mi-(1)115kV sngl wd poles, 795, 100°C; Ex ROW

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PLANNED PROJECTS--TRANSMISSION

AREA	PROJECT TITLE	SCH ENG	COMMENTS
	La Junta (TS) 2nd 115/69kV, 42 MVA Xfmr	12/4Q	2nd Parallel 42 MVA Xfmr
	La Junta 69kV Tie Line Add	12/4Q	1.0 MI;83.2 MVA;
	La Junta 69kV Cap Bank	12/4Q	1-5.4 MVAR Cap Bank
	Paddock 69>115kV Sub Upgrade	13/4Q	TS-(4)115kV CB's; Mtr; Comm
	Rolling Hills 115kV DP	13/4Q	TS-(2)115kV MOLB's; Mtr; Comm
	Santa Fe Springs 115kV DP	13/4Q	TS-(2)115kV MOLB's; Mtr; Comm
	Shaw Ranch 115kV DP	14/4Q	TS-(2)115kV MOLB's; Mtr; Comm
	Sterling Ranch 115kV DP	13/4Q	TS-(1)115kV MOLB; Mtr; Comm
	Sterling Ranch Tap 115kV Line	13/4Q	~3 mi-(1)115kV ckt; 230kV dbl ckt twrs; 795; 100°C; New ROW
	Willow Creek 69kV Transfer Bus Add	11/4Q	TransMlssion Eng. Project
SEW	Platte Valley 34.5kV/69kV Conversion Prjt	15/2Q	Rebuild Wyrulec Torrington, RPPD Henry, Sievers Subs for 69kV
SNM	Alamogordo 3rd 115kV Source	11/1Q	TS share of total PNM Project
	Elephant Butte-Dona Ana 115kV Line Replace	16/4Q	63.1 MI; 477 ACSR; 100° C, Replace core conductor & poles
WC	Archuleta Cnty Sys Improve Project	16/4Q	37.4 MI(477 ACSR); 2-115kV bays; L.Plata Reim (Policy 110 per Agreement)
	Cedaredge 115kV DP	15/4Q	115kV Bkr (D Spoon); Bus, Bkr, & Meter (Cedaredge)
	Dry Creek 115kV DP	15/3Q	LPEA-SJ Project: 12kV Metering Comm / 2-Line SW
	Durango-Hesperus Rebuild	19/4Q	11.6mi: Maint Rebuild with 477 ACSR 100° c. (Cancelled CP 8445)
	East Montrose-So Canal 115kV Line & Brkr	16/4Q	8 MI (477 ACSR) 2-115kV bays, 50% Member Joint Project
	Empire 115-24.9kV DP	13/4Q	12kV Meter & Remove 115-44 kV Xfmr
	Lost Canyon 115-24.9kV DP	15/4Q	12kV Meter & 115 kV Sec. Breaker: Yard Work EEA cost
	Martins Corner -Ignacio 115kV Line	11/4Q	Member Const- TS acquire 3.5 MI of 115kV Line
	Pagosa 2nd 7.5 MVAR Capacitor Bank	11/3Q	LPEA-SJ Project: 1-115kV PCB; 1-7.5 MVAR Cap
	Parlin 230/115kV Intercon	12/3Q	1-230/115kV Sub, 4 mi 115kV Line, 2-115kV Brkr
	Pinto 138kV DP	15/4Q	138kV Metering/Communications only
	Pleasant View 115kV DP	11/4Q	EEA Loop Proj Dependent:12kV Meter&Comm/2-Line SW
WNM	Belen Tap- Socorro 115kV Line Replace	14/4Q	Line Age = 60+ yrs, 40.7 MI, 477 ACSR
	Gulf 115kV Reactivation of DP	11/1Q	Move 115kV Xfmr, Install 115kV Breaker, Comm, SCADA, 115 Switches

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PLANNED PROJECTS--TRANSMISSION

AREA	PROJECT TITLE	SCH ENG	COMMENTS
NET Lines	Big Sandy-RD 125 Corner PT	16/4Q	52 MI, 2 Cond Bundle, 1272 ACSR OPGW
	Big Sandy-Burlington 500kV LINE	16/4Q	168 MI; 3 Cond Bundle of TWD 1272 ACSR; includes fiber in OPGW
	Big-Sandy-Burlington 230kV Line Uprate	16/2Q	Replace CT @ Big Sandy; Uprate Conductor to 100' C
	Burlington-Lamar 500kV Line	16/2Q	86 MI; 3 Cond bundle of TWD 1272 ACSR; including fiber in OPGW
	Comanche-Lamar 500kV Line	16/4Q	115 MI; 3 Cond Bundle of TWD 1272 ACSR; including fiber in OPGW
NET SER	Big Sandy Sub: (2) 500/345kV, 900 MVA Xfmr	16/4Q	10/01/07 Substation Cost Estimate
SUBS	Burlington Sub: (1) 500/230kV, 900 MVA Xfmr	16/4Q	10/01/07 Substation Cost Estimate
	Comanche Sub: (2) 500/345kV, 700 MVA Xfmr	16/4Q	10/01/07 Substation Cost Estimate
	CPP Unit#1 LEC Switchstation Add	16/4Q	2-500kV Bkr;
	Lamar (TS) Sub 230kV Bkr Add	16/4Q	10/01/07 Substation Cost Estimate
	Lamar 230/115kV, 167 MVA Xfmr Repl	16/4Q	
	Lamar 2nd 230/115kV, 167 MVA Xfmr Add	16/4Q	Est Incl (1) 230kV Bkr & (1) 115kV Bkr
	LEC Sub; (1) 500/230kV, 600 MVA Xfmr	16/4Q	10/01/07 Substation Cost Estimate
	Road 125 Sub: 115kV, 300 MVA Xfmr	16/4Q	Substation Cost Estimate

TRI-STATE 2010-2019 TEN-YEAR TRANSMISSION CAPITAL CONSTRUCTION PLAN

100% REIMBURSED PROJECTS--TRANSMISSION

AREA	PROJECT TITLE	SCH ENG	COMMENTS
BH	Moneta 115kV DP Project	11/4Q	10mi, 477 radial from Badwater, 150 MVA T4, 1-230CB, 1-115CB @ Badwater, T1, T2, 2CS Moneta>HP's cost
NENM	Owaissa Wind Farm Substation Alt#1	10/4Q	Unplanned in 2009
SEW	Arlington 230kV DP Project	10/2Q	4 MI, 464 MVA, 795 Hframe, 2 CB @ FC, 1 @ Arlington, 15.4 NW gas
	Badwater 230-69kV Xfmr	10/4Q	1-230 CB, 69 metering, comm; HPP/Cust T3: 50 MVA, 1-69 CB
SNM	Frontier Space Port 115kV DP	10/4Q	115kV Ring Bus, Telecom, Meter, Switches, 115-24.9kV xfmr & provisions for future cap bank.
SWNM	Lightning Dock/Raser Generation Prjt	10/1Q	Telecom system, Telecom tower, Metering
WC	Relay Replace Hesperus 115kV Florida River Line	10/4Q	Unplanned in 2009