APPENDIX E

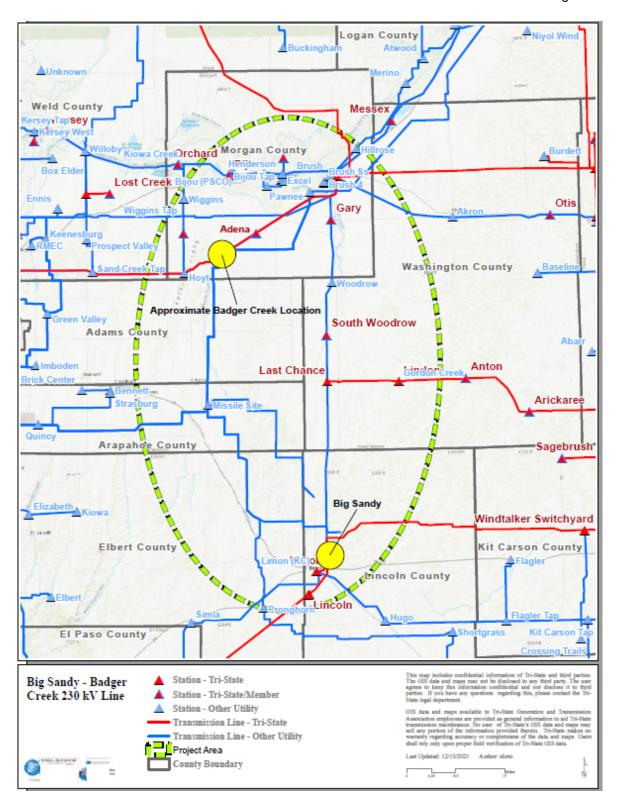
TRI-STATE GENERATION AND TRANSMISSION ASSOCIATION, INC. 10-YEAR TRANSMISSION PROJECTS

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Big Sandy-Badger Ck 230 kV Line

Project Sponsor: Additional Project Participants:	Tri-State Generation and Transmission Association
Project Description:	Construct a 230 kV transmission line from Big Sandy Substation to a new Badger Ck Substation
Voltage Class: Facility Rating: Point of Origin/Location: Point of Termination: Intermediate Points: Length of Line (in Miles): Type of Project: Development Status: Subregional Planning Group:	230 kV 642 MVA Big Sandy Badger Creek 80.0 Transmission Line Planned Routing: CCPG
Purpose of Project:	Improve load-serving capability, reduce generation curtailments, and support renewable resource development in eastern Colorado
Project Driver (Primary): Project Driver (Secondary):	Generation Reliability
Estimated Cost (in 2021 Dollars):	\$86,400,000
Schedule: Construction Date: Planned In-Service Date: Info: Regulatory Date: Permitting Info: Permitting Date:	2028 Regulatory CPCN Granted
Contact Information: Email Phone	Jonathan Fidrych Jonathan.Fidrych@tristategt.org 303-254-3658

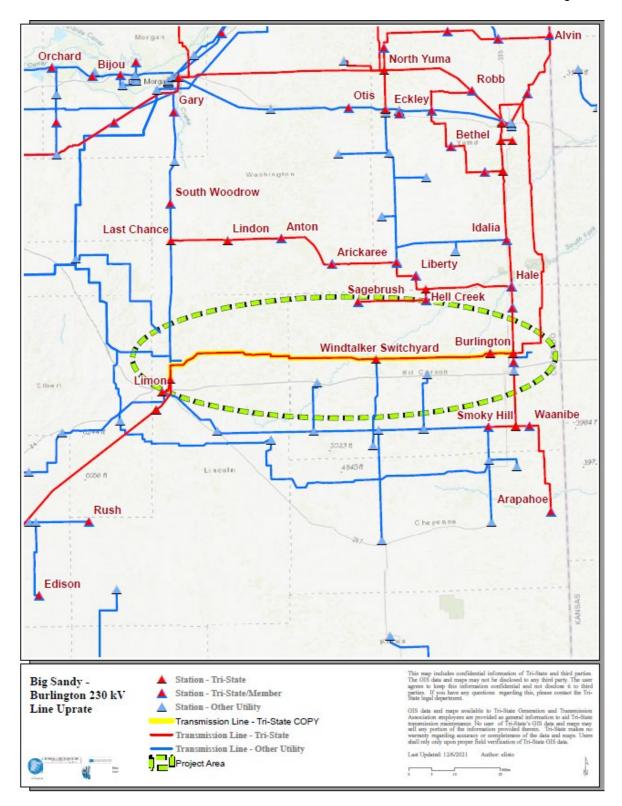


Big Sandy-Badger Ck 230 kV Line

The proposed Big Sandy-Badger Ck 230 kV line is intended to increase reliability in the project area, improve load-serving capability, reduce curtailment of eastern Colorado network resources under prior outage conditions, and allow the potential development of new renewable generation resources in the area. This will be accomplished by adding a new 230 kV line from the existing Big Sandy substation to a new Badger Ck switching station in eastern Colorado. Badger Ck switching station will sectionalize the existing Henry Lake-Story 230 kV line near Hoyt, CO.

Big Sandy-Burlington 230 kV Line Uprate

Project Sponsor: Additional Project Participants:	Tri-State Generation and Transmission Association
Project Description:	Structure replacements along the existing Big Sandy- Windtalker-Landsman Ck-Burlington 230 kV line
Voltage Class: Facility Rating: Point of Origin/Location: Point of Termination: Intermediate Points: Length of Line (in Miles): Type of Project: Development Status: Subregional Planning Group	230 kV 445 MVA Big Sandy Burlington Windtalker, Landsman Ck 81.0 Transmission Line Planned Routing: : CCPG
Purpose of Project:	Reduce generation curtailments and support renewable resource development in eastern Colorado
Project Driver (Primary): Project Driver (Secondary):	Generation Reliability
Estimated Cost (in 2021 Dollars):	\$7,650,000
Schedule: Construction Date: Planned In-Service Date: Regulatory Info: Regulatory Date: Permitting Info: Permitting Date: Contact Information:	2028 Jonathan Fidrych
Email	Jonathan.Fidrych@tristategt.org
Phone	303-254-3658
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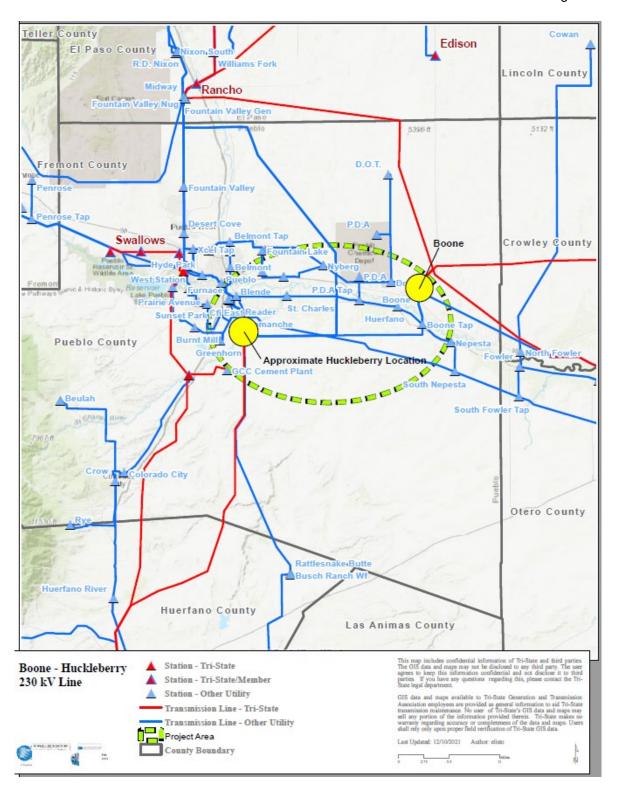


Big Sandy-Burlington 230 kV Line Uprate

The 81-mile long Burlington-Windtalker-Landsman Ck-Burlington 230 kV line is old and undersized based on modern design standards. To ensure continued reliability of the eastern Colorado transmission system, Tri-State is uprating the existing Burlington-Burlington 230 kV line through structure modifications/replacements to allow at least 75 deg operation. This project will improve reliability of the eastern Colorado transmission system and allow the potential development of new renewable generation resources in the area.

Boone-Huckleberry 230 kV Line

Project Sponsor: Additional Project Participants:	Tri-State Generation and Transmission Association Construct a 230 kV transmission line from Boone Substation to
Project Description:	a new Huckleberry Substation
Voltage Class: Facility Rating: Point of Origin/Location: Point of Termination: Intermediate Points: Length of Line (in Miles): Type of Project: Development Status: Routing: Subregional Planning Group	230 kV 642 MVA Boone Huckleberry 30.0 Transmission Line Planned
Purpose of Project:	Provide ability to move geographically diversion resources across Tri-State four-state service area
Project Driver (Primary): Project Driver (Secondary):	Generation
Estimated Cost (in 2021 Dollars):	\$40,300,000
Schedule: Construction Date: Planned In-Service Date: Info: Regulatory Date: Permitting Info: Permitting Date:	2026 Regulatory CPCN Granted
Contact Information: Email Phone	Jonathan Fidrych Jonathan.Fidrych@tristategt.org 303-254-3658

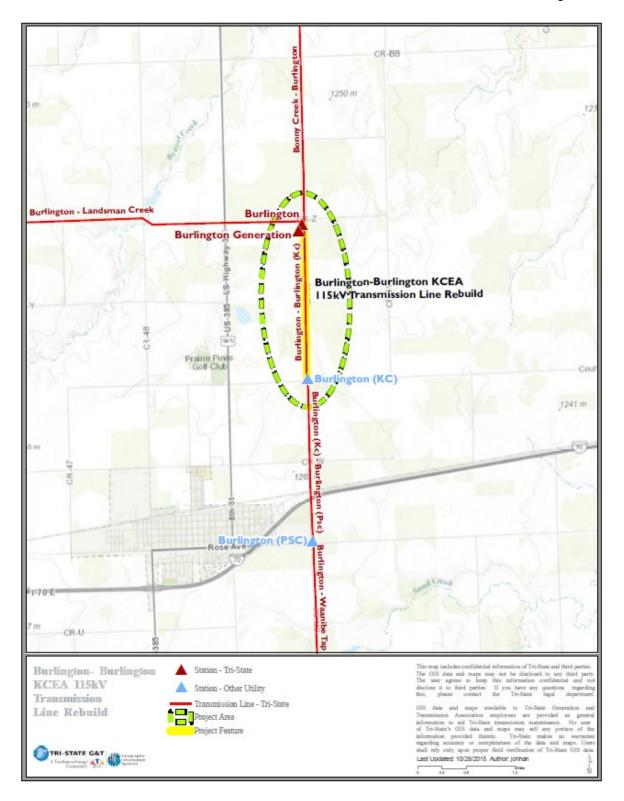


Boone-Huckleberry 230 kV Line

The proposed Boone-Huckleberry 230 kV line is intended to provide connectivity across Tri-State's fourstate transmission system, which currently is not connected in southeast Colorado. The connection will allow geographically diverse generation resources to be moved across Tri-State's four-state service area. This will be accomplished by adding a new 230 kV line from the existing Boone substation to a new Huckleberry substation in southeast Colorado. Huckleberry substation will sectionalize the existing Comanche-Walsenburg 230 kV line south of Pueblo, Colo.

Burlington-Burlington (KCEA) Rebuild

Project Sponsor: Additional Project Participants: Project Description:	Tri-State Generation and Transmission Association Rebuild the existing Burlington - Burlington (KCEA) 115 kV line
Voltage Class: Facility Rating: Point of Origin/Location: Point of Termination: Intermediate Points: Length of Line (in Miles): Type of Project: Development Status: Routing: Subregional Planning Group:	115 kV 242 MVA Burlington Burlington (KCEA) 2.0 Transmission Line Conceptual CCPG
Purpose of Project:	Increase conductor thermal rating.
Project Driver (Primary): Project Driver (Secondary):	Reliability
Estimated Cost (in 2021 Dollars):	\$718,000
Schedule: Construction Date: Planned In-Service Date: Regulatory Info: Regulatory Date: Permitting Info: Permitting Date:	N/A
Contact Information: Email Phone	Jonathan Fidrych Jonathan.Fidrych@tristategt.org 303-254-3658

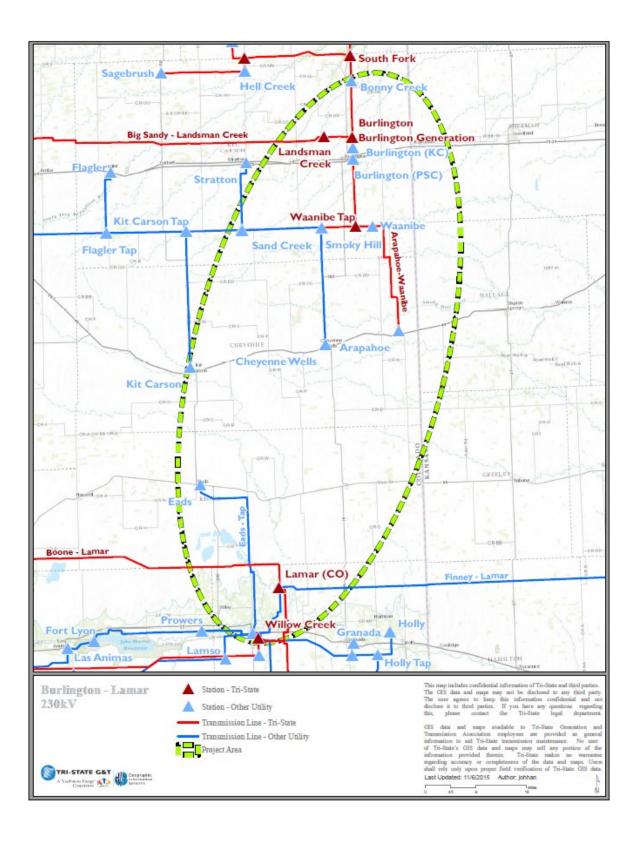


Burlington-Burlington (KCEA) Rebuild

Under peak loading conditions, the K.C. Electric Association (KCEA) 69 kV system fed from Smoky Hill substation cannot be switched to the west to pick up additional load for the loss of the Limon source after the Smoky Hill transformer is replaced with a larger unit. To mitigate this limitation, Tri-State will rebuild the existing Burlington-Burlington (KCEA) line to increase the thermal rating of the line. The increased capacity will additionally help K.C. Electric Association serve new load in the area.

Burlington-Lamar 230 kV Line

Project Sponsor: Additional Project Participants:	Tri-State Generation and Transmission Association
Project Description:	Construct a 230 kV transmission line from Burlington Substation to Lamar Substation
Voltage Class: Facility Rating: Point of Origin/Location: Point of Termination: Intermediate Points: Length of Line (in Miles): Type of Project: Development Status: Routing: Subregional Planning Group:	230 kV 642 MVA Burlington Lamar 107 Transmission Line Under Construction
Purpose of Project:	Improve load-serving capability, remove generation operating restrictions & support renewable resource development in eastern Colorado.
Project Driver (Primary): Driver (Secondary):	Reliability Project Load Serving
Estimated Cost (in 2021 Dollars):	\$106,500,000
Schedule: Construction Date: Planned In-Service Date: Regulatory Info: Regulatory Date: Permitting Info: Permitting Date:	2025 CPCN Granted
Contact Information: Email Phone	Jonathan Fidrych Jonathan.Fidrych@tristategt.org 303-254-3658

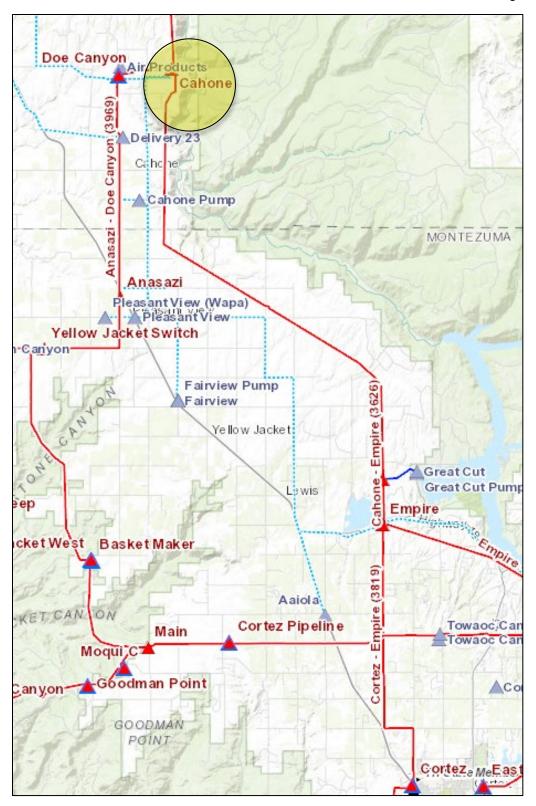


Burlington-Lamar 230 kV Line

Past studies in the Boone-Lamar area of Colorado have shown voltage collapse for the Boone-Lamar 230 kV line outage with cross-trips of all generation injected at Lamar 230 kV. In order to mitigate these violations and provide for future growth and potential new generation, Tri-State determined the best solution was to construct a new transmission line from the existing Burlington substation to the existing Lamar substation. This line was re-evaluated in CCPG's Responsible Energy Plan Task Force.

Cahone Line Bay Addition

Project Sponsor: Additional Project Participants: Project Description:	Tri-State Generation and Transmission Association Construct a 115 kV line bay at the existing Cahone Substation to accommodate solar interconnection
Voltage Class: Facility Rating: Point of Origin/Location: Point of Termination: Intermediate Points: Length of Line (in Miles):	115 kV Cahone, CO
Type of Project: Development Status: Routing: Subregional Planning Group	Substation Upgrade Under Construction
Purpose of Project:	Allow interconnection of Dolores Canyon Solar
Project Driver (Primary): Project Driver (Secondary):	Generation
Estimated Cost (in 2021 Dollars):	\$720,000
Schedule: Construction Date: Planned In-Service Date: Regulatory Info: Regulatory Date: Permitting Info:	2024
Permitting Date:	
Contact Information: Email Phone	Jonathan Fidrych Jonathan.Fidrych@tristategt.org 303-254-3658

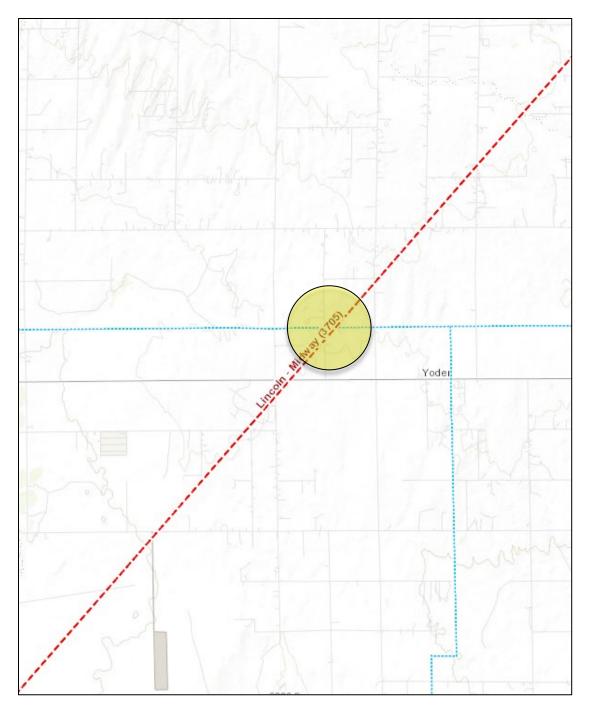


Cahone Line Bay Addition

This under construction project is adding a 115 kV line bay at the existing Cahone Substation to accommodate a solar interconnection (Dolores Canyon Solar).

Cross Point 230/69kV Delivery Point

Project Sponsor: Additional Project Participants: Project Description:	Tri-State Generation and Transmission Association Construct a new 230/69 kV Cross Point substation
Voltage Class: Facility Rating:	230/69 kV
Point of Origin/Location: Point of Termination: Intermediate Points:	Yoder, CO
Length of Line (in Miles): Type of Project: Development Status:	Substation Under Construction
Routing: Subregional Planning Group:	
Purpose of Project:	Improve load-serving capability
Project Driver (Primary): Project Driver (Secondary):	Load Serving Reliability
Estimated Cost (in 2021 Dollars):	\$12,000,000
Schedule: Construction Date: Planned In-Service Date: Regulatory Info: Regulatory Date: Permitting Info: Permitting Date:	2025
Contact Information: Email Phone	Jonathan Fidrych Jonathan.Fidrych@tristategt.org 303-254-3658

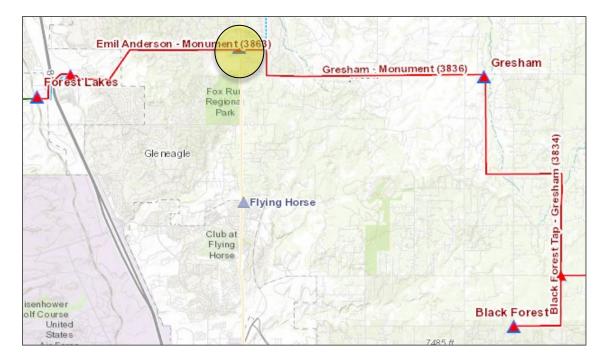


Cross Point 230/69 kV Delivery Point

This project will build a new 230/69kV substation that will interconnect to and sectionalize Tri-State's existing Lincoln-Midway 230kV line near Yoder, CO. This substation will tie into existing Tri-State Member owned 69kV sub-transmission that serves high growth communities to the east of Colorado Springs, CO. The existing Delivery Points that serve this 69kV system are reaching their capacities under contingency and would need significant upgrades to increase load serving. Additionally, it was becoming difficult to maintain adequate voltages at the ends of the 69kV system. Crosspoint will provide an additional Delivery Point to the area, which will substantially increase load serving and reliability. Note that this project has replaced Tri-State's previously planned Falcon-Paddock-Calhan 115kV project as it provides better performance at a reduced cost and without the need to construct additional transmission lines.

Fox Run Substation Expansion

Project Sponsor: Additional Project Participants: Project Description:	Tri-State Generation and Transmission Association Rebuilt existing 115 kV Monument substation and rename it Fox Run
Voltage Class: Facility Rating: Point of Origin/Location: Point of Termination: Intermediate Points: Length of Line (in Miles):	115 kV Monument, CO
Type of Project: Development Status: Routing: Subregional Planning Group	Substation Upgrade Under Construction :
Purpose of Project:	Convert existing star bus into a ring bus in order to improve load serving and reliability
Project Driver (Primary): Project Driver (Secondary):	Load Serving Reliability
Estimated Cost (in 2021 Dollars):	\$15,100,000
Schedule: Construction Date: Planned In-Service Date: Regulatory Info: Regulatory Date: Permitting Info: Permitting Date:	2024
Contact Information: Email Phone	Jonathan Fidrych Jonathan.Fidrych@tristategt.org 303-254-3658
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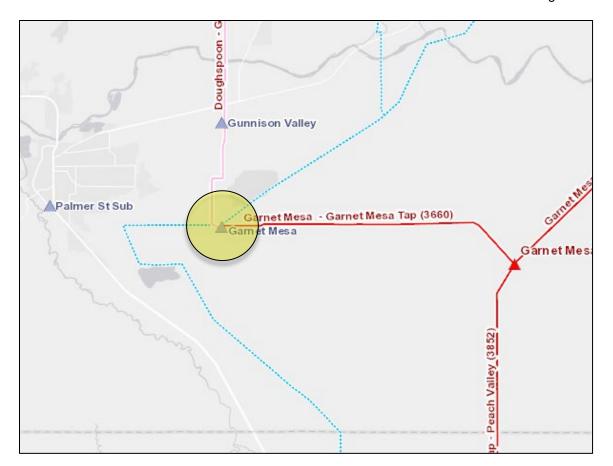


Fox Run Substation Expansion

This project will re-build the existing Monument 115/12.47kV substation as a breaker-and-a half 115kV bus configuration in a new adjacent yard known as "Fox Run". Today Monument's 115kV bus is in a "star" configuration, and as such breaker failures or bus faults can clear the entire bus, resulting in substantial loss of load in the area. The new breaker configuration will eliminate this allowing for minimal facilities to be tripped during such fault conditions. Additionally this project will add two new 115/12.47kV transformers that will improve load serving and reliability for the loads served directly out of Monument substation

Garnet Mesa Solar Interconnect

Project Sponsor: Additional Project Participants: Project Description:	Tri-State Generation and Transmission Association Add a 115 kV line bay at the existing Garnet Mesa Substation
Voltage Class: Facility Rating: Point of Origin/Location: Point of Termination: Intermediate Points: Length of Line (in Miles):	115 kV Delta, CO
Type of Project: Development Status: Subregional Planning Group	Substation Upgrade Planned Routing: :
Purpose of Project:	Allow solar generation interconnection
Project Driver (Primary): Project Driver (Secondary):	Generation
Estimated Cost (in 2021 Dollars):	\$2,400,000
Schedule: Construction Date: Planned In-Service Date: Regulatory Info: Regulatory Date: Permitting Info: Permitting Date:	2024
Contact Information: Email Phone	Jonathan Fidrych Jonathan.Fidrych@tristategt.org 303-254-3658

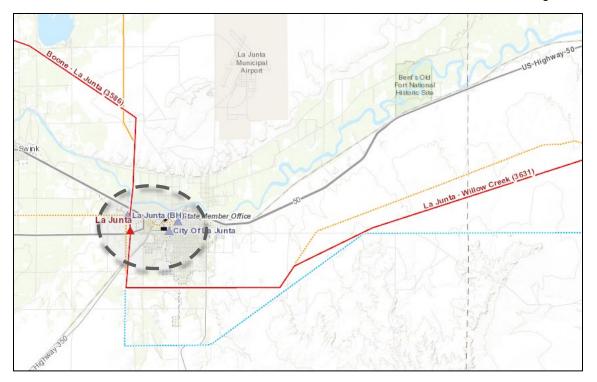


Garnet Mesa Solar Interconnect

This project is adding a 115 kV line bay at the existing Garnet Mesa Substation to accommodate a solar interconnection. This project is located in Delta, CO.

La Junta 115 kV Tie

Project Sponsor: Additional Project Participants:	Tri-State Generation and Transmission Association
Project Description:	New 115 kV transmission line between Tri-State's La Junta substation and Black Hills' La Junta substation
Voltage Class: Facility Rating: Point of Origin/Location: Point of Termination: Points:	115 kV 238 MVA La Junta, CO Intermediate
Length of Line (in Miles): Type of Project: Development Status: Routing: Subregional Planning Group	0.5 Transmission Line Conceptual
Purpose of Project:	Increase reliability in La Junta area
Project Driver (Primary): Project Driver (Secondary):	Load Serving Reliability
Estimated Cost (in 2021 Dollars):	TBD
Schedule: Construction Date: Planned In-Service Date: Regulatory Info: Regulatory Date: Permitting Info: Permitting Date:	TBD
Contact Information: Email Phone	Jonathan Fidrych Jonathan.Fidrych@tristategt.org 303-254-3025

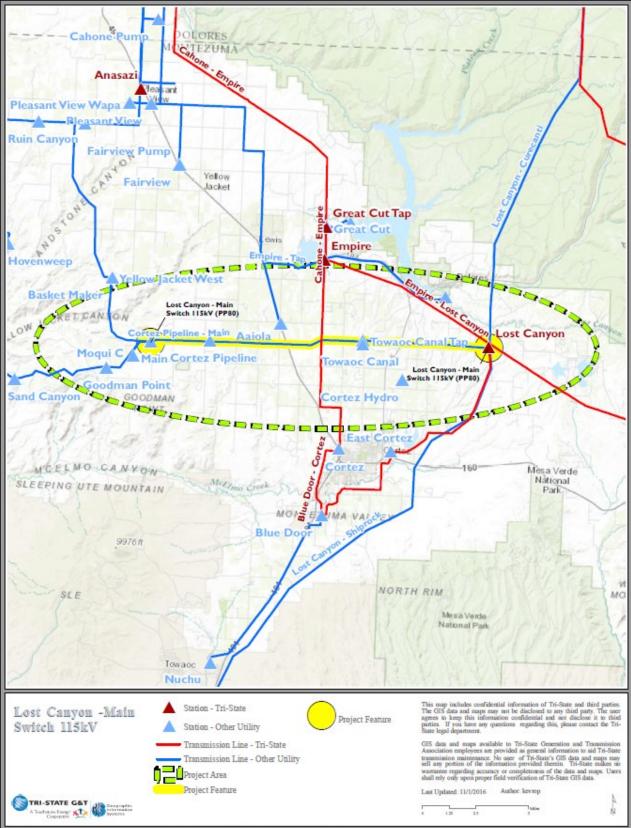


La Junta 115 kV Tie

This project constructs a new transmission line between Tri-State's La Junta substation and Black Hills' La Junta substation. Without a tie connecting these two substations, certain contingencies and outages in the area produce line overloads resulting in dropped load.

Lost Canyon-Main Switch 115 kV Line

Project Sponsor: Additional Project Participants: Project Description:	Tri-State Generation and Transmission Association New 115 kV transmission line between Lost Canyon and Main Switch Substations.
Voltage Class: Facility Rating: Point of Origin/Location: Canyon Point of Termination: Switch Intermediate Points: Length of Line (in Miles): Type of Project: Development Status: Routing: Subregional Planning Group: Purpose of Project: Project Driver (Primary): Project Driver (Secondary):	 115 kV 238 MVA Lost Main 16.0 Transmission Line Conceptual CCPG Increase load-serving capability of the CO2 Loop. Load Serving Reliability
Estimated Cost (in 2021 Dollars):	TBD
Schedule: Construction Date: Planned In-Service Date: Regulatory Info: Regulatory Date: Permitting Info: Permitting Date:	TBD
Contact Information: Email Phone	Jonathan Fidrych Jonathan.Fidrych@tristategt.org 303-254-3025



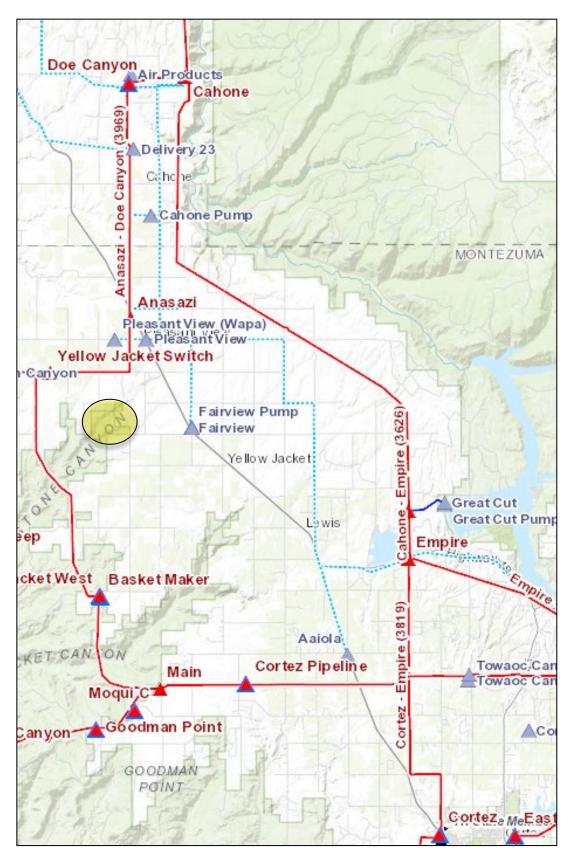
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Lost Canyon – Main Switch 115 kV Line

There is heavy load growth and resource development in the CO2 Loop consisting of the Yellow Jacket Switch-Main Switch-Sand Canyon-Hovenweep-Yellow Jacket 115 kV system. Constructing the new Lost Canyon-Main Switch 115 kV line will provide support to reliably meet future load growth and resource development for the CO2 Loop in southwestern Colorado.

Main Switch Bay Addition

Project Sponsor: Additional Project Participants: Project Description:	Tri-State Generation and Transmission Association Adding a 115 kV line bay at the existing Main Switch Substation
Voltage Class: Facility Rating: Point of Origin/Location: Point of Termination: Intermediate Points: Length of Line (in Miles):	115 kV Cortez, CO
Type of Project: Development Status: Subregional Planning Group	Substation Upgrade Planned Routing: :
Purpose of Project:	Accommodate a solar generation interconnection
Project Driver (Primary): Project Driver (Secondary):	Generation
Estimated Cost (in 2021 Dollars):	\$2,800,000
Schedule: Construction Date: Planned In-Service Date: Regulatory Info: Regulatory Date: Permitting Info: Permitting Date:	2025
Contact Information: Email Phone	Jonathan Fidrych Jonathan.Fidrych@tristategt.org 303-254-3658



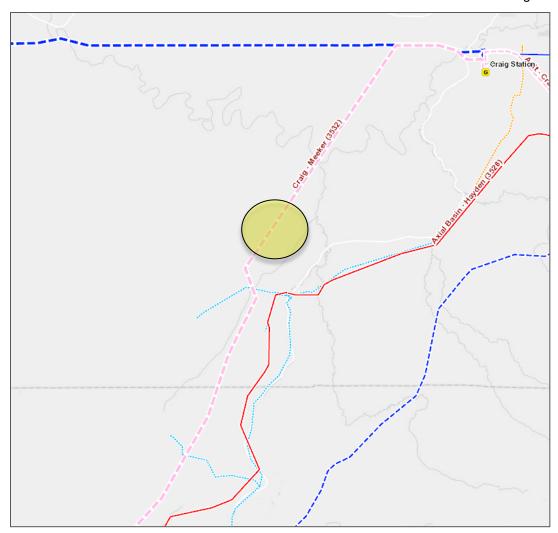
Main Switch Bay Addition

This project is adding a 115 kV line bay at the existing Main Switch Substation to accommodate a solar interconnection.

Milk Creek Switching Station

Project Sponsor: Additional Project Participants: Project Description:	Tri-State Generation and Transmission Association Construct a 345 kV transmission substation along Craig-Meeker 345 kV
Voltage Class: Facility Rating: Point of Origin/Location: Point of Termination: Intermediate Points: Length of Line (in Miles): Type of Project:	345 kV Substation
Development Status: Subregional Planning Group	Planned Routing: :
Purpose of Project:	Allow interconnection of Axial Basin Solar
Project Driver (Primary): Project Driver (Secondary):	Generation
Estimated Cost (in 2021 Dollars):	\$86,400,000
Schedule: Construction Date: Planned In-Service Date: Regulatory Info: Regulatory Date: Permitting Info: Permitting Date:	2024
Contact Information: Email Phone	Jonathan Fidrych Jonathan.Fidrych@tristategt.org 303-254-3658

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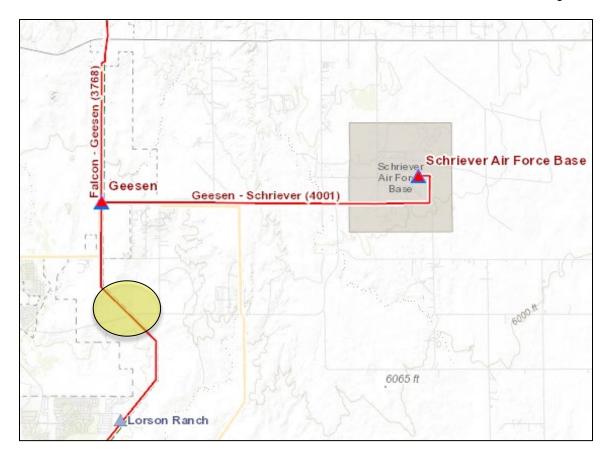
Milk Creek Switching Station

This project is constructing a 345 kV Switching Station along Craig-Meeker 345 kV. This will accommodate a solar interconnection (Axial Basin).

Rolling Meadows 115 kV Delivery Point

Project Sponsor: Additional Project Participants:	Tri-State Generation and Transmission Association
Project Description:	Construct a 115 kV Delivery Point for MVEA
Voltage Class: Facility Rating: Point of Origin/Location: Point of Termination: Intermediate Points: Length of Line (in Miles): Type of Project: Development Status:	115 kV Under Construction
Routing: Subregional Planning Group	
Purpose of Project:	Improve load-serving capability
Project Driver (Primary): Project Driver (Secondary):	Load Serving
Estimated Cost (in 2021 Dollars):	\$7,900,000
Schedule: Construction Date: Planned In-Service Date: Regulatory Info: Regulatory Date: Permitting Info: Permitting Date:	2026
Contact Information: Email Phone	Jonathan Fidrych Jonathan.Fidrych@tristategt.org 303-254-3658

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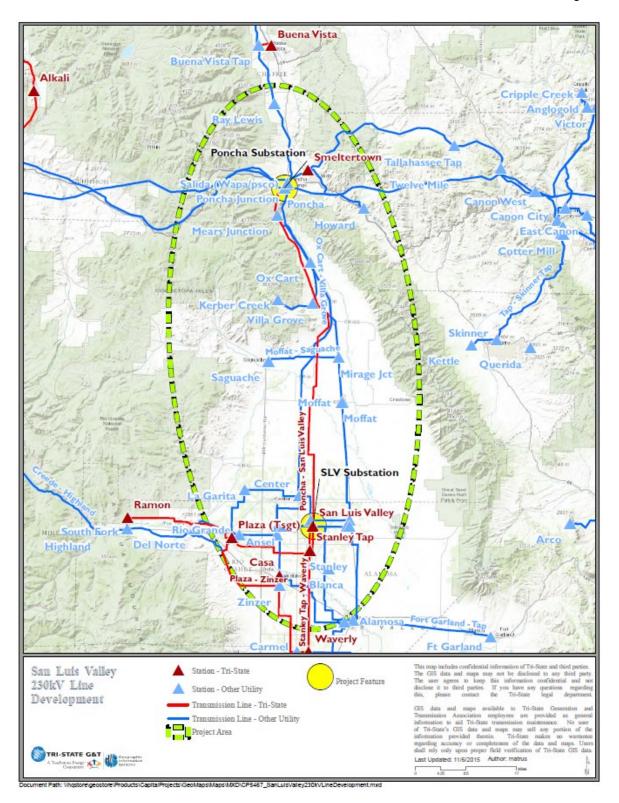


Rolling Meadows 115 kV Delivery Point

This project consists of a newly constructed 115/12.47kV substation interconnecting to Tri-State's existing Geesen-Lorson Ranch 115kV line near Colorado Springs, CO. This substation is needed to serve a new housing development and associated infrastructure.

San Luis Valley-Poncha 230 kV Line #2

Project Sponsor: Additional Project Participants: Project Description:	Tri-State Generation and Transmission Association Xcel Energy Construct a second 230 kV transmission line from San Luis Valley to Poncha.
Voltage Class: Facility Rating: of Origin/Location: Point of Termination: Intermediate Points:	230 kV 631 MVA Point San Luis Valley Poncha
Length of Line (in Miles): Type of Project: Development Status: Routing: Subregional Planning Group	62 Transmission Line Re-development : CCPG
Purpose of Project:	Provide reliable and adequate load support to San Luis Valley
Project Driver (Primary): Project Driver (Secondary):	Reliability
Estimated Cost (in 2021 Dollars):	TBD
Schedule: Construction Date: Planned In-Service Date: Regulatory Info: Regulatory Date: Permitting Info: Permitting Date:	TBD
Contact Information: Email Phone	Jonathan Fidrych Jonathan.Fidrych@tristategt.org 303-254-3025



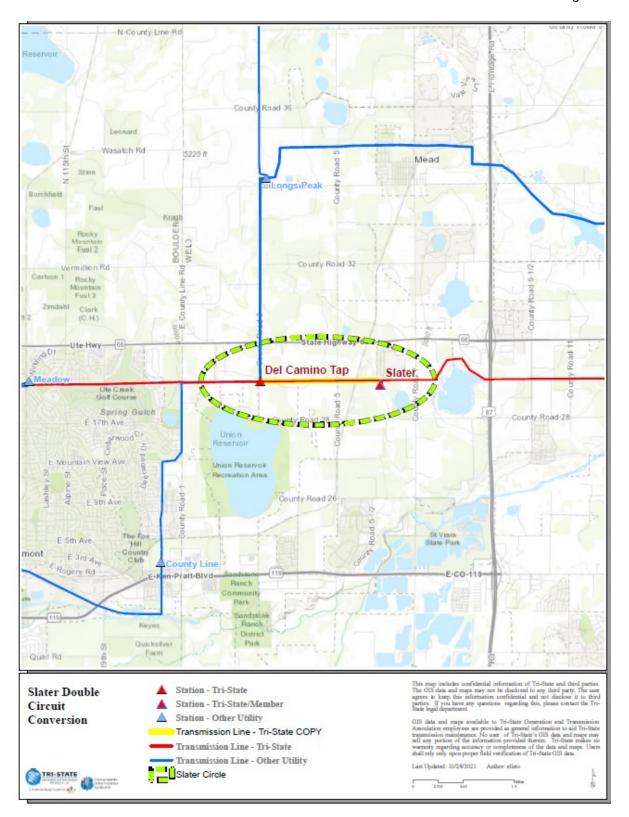
San Luis Valley-Poncha 230 kV #2

New high-voltage transmission must be built in the San Luis Valley (SLV) region of south-central Colorado to restore electric system reliability and customer load-serving capability, and to accommodate development of potential generation resources. Tri-State Generation and Transmission (Tri-State) and Public Service Company of Colorado (Public Service) facilitated a study effort through the Colorado Coordinated Planning Group (CCPG) to perform an evaluation of the transmission system immediately in and around the SLV and develop system alternatives that would improve the transmission system between the SLV and Poncha Springs (Poncha), Colo. Both Tri-State and Public Service have electric customer loads in the SLV region that are served radially from transmission that originates at or near Poncha. The study concluded that, at a minimum, an additional 230 kV line is needed to increase system reliability. Studies show that this could be accomplished by either adding a new 230 kV line or rebuilding an existing lower voltage line to and operating it at 230 kV. This conceptual project is being reevaluated in the CCPG San Luis Valley Subcommittee to explore alternatives to 230 kV transmission development.

Slater Double Circuit Conversion

Project Sponsor: Additional Project Participants: Project Description:	Tri-State Generation and Transmission Association Rebuild the Del Camino Tap – Slater 115 kV line as a double circuit line, creating separate Slater-Meadow and Slater-Longs Peak 115 kV lines.
Voltage Class: Facility Rating: Point of Origin/Location: Point of Termination: Points:	115 kV 244 MVA Del Camino Tap Slater Intermediate
Length of Line (in Miles): Type of Project: Development Status: Routing: Subregional Planning Group	1.6 Transmission Line Under Construction : CCPG
Purpose of Project:	Remove three-terminal line between Slater, Longs Peak, and Meadow.
Project Driver (Primary): Project Driver (Secondary):	Reliability Load Serving
Estimated Cost (in 2021 Dollars):	\$4,100,000
Schedule: Construction Date: Planned In-Service Date: Regulatory Info: Regulatory Date: Permitting Info: Permitting Date:	2025
Contact Information: Email Phone	Jonathan Fidrych Jonathan.Fidrych@tristategt.org 303-254-3658

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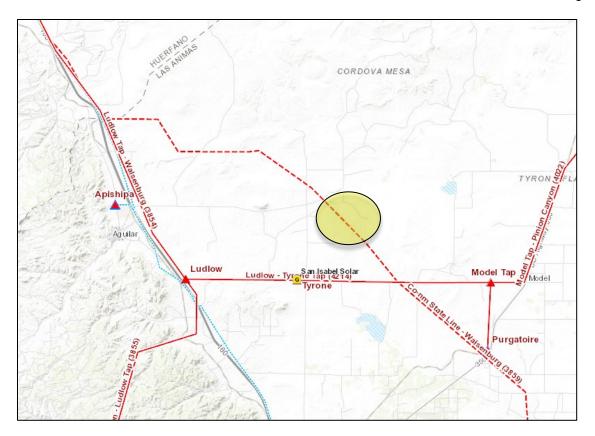


Slater Double Circuit Conversion

This project will rebuild the Del Camino Tap – Slater 115 kV line as a double circuit line. This will result in the removal of the three-terminal line between Longs Peak, Meadow, and Slater substations, and the creation of separate Longs Peak – Slater and Meadow – Slater 115 kV lines. The project will increase reliability on the area transmission system and improve operational and maintenance challenges.

Valent 230 kV Switching Station

Project Sponsor: Additional Project Participants: Project Description:	Tri-State Generation and Transmission Association Construct a 230 kV switching station to tap existing Walsenburg- Gladstone 230 kV line
Voltage Class: Facility Rating: Point of Origin/Location: Point of Termination: Intermediate Points:	230 kV
Length of Line (in Miles): Type of Project: Development Status: Routing:	Switching Station Under Construction
Subregional Planning Group	
Purpose of Project:	This project will allow the interconnection of Spanish Peaks Solar
Project Driver (Primary): Project Driver (Secondary):	Generation Addition
Estimated Cost (in 2021 Dollars):	\$6,300,000
Schedule: Construction Date: Planned In-Service Date: Regulatory Info: Regulatory Date: Permitting Info: Permitting Date:	2024
Contact Information: Email Phone	Jonathan Fidrych Jonathan.Fidrych@tristategt.org 303-254-3658



Valent Project

This project will tap the existing Walsenburg-Gladstone 230 kV line to serve Spanish Peaks Solar.