

# Tri-State Generation and Transmission Association 2014-2023 Transmission Plan

## Lamar-Front Range Project

<b>Project Sponsor:</b>	Tri-State Generation and Transmission Association
<b>Additional Project Participants:</b>	Public Service Company of Colorado/Xcel Energy
<b>Project Description:</b>	Two high voltage transmission paths from Lamar substation to Pueblo area and a second path from Lamar to substations near Brush and/or Deer Trail.
Voltage Class:	345 kV
Facility Rating:	2000 MW
Point of Origin/Location:	Lamar, CO
Point of Termination:	TBD: Comanche, Story, Pawnee, Avondale, Lamar, Lamar Energy Center, Burlington, Big Sandy, Missile Site
Intermediate Points:	Burlington, Big Sandy, Boone
Length of Line (in Miles):	300-350
Type of Project:	Transmission Line
Development Status:	Conceptual
Routing:	Burlington, Big Sandy, Boone
Subregional Planning Group:	CCPG
<b>Purpose of Project:</b>	Tri-State reliability, system load-serving connectivity as regional power provider and future resources. Xcel Senate Bill 07-100 and reliability.
<b>Estimated Cost (in 2013 Dollars):</b>	\$900,000,000
<b>Schedule:</b>	
Construction Date:	
Planned In-Service Date:	TBD
Regulatory Info:	
Regulatory Date:	
Permitting Info:	
Permitting Date:	
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Lamar – Front Range Transmission Project

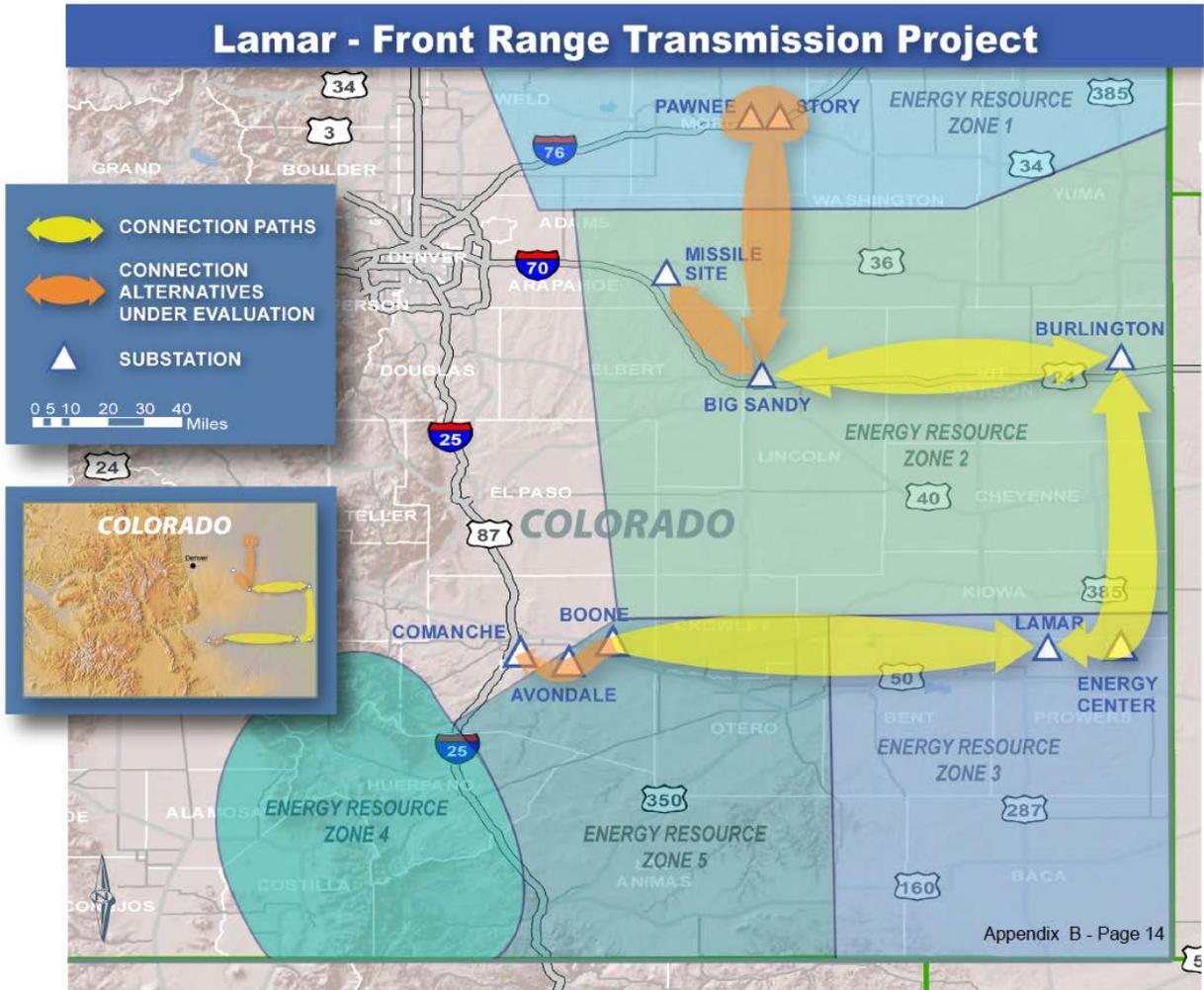


Figure 5: Lamar – Front Range Transmission Project Map

Tri-State and Public Service have jointly identified transmission constraints in eastern Colorado. In order to meet the present and future needs of both companies, major transmission infrastructure is needed in the Colorado Front Range. The Lamar-Front Range project improves Tri-State’s operational flexibility as a regional power provider serving 44 Members across four states, including the ability to “rebalance” its system that relies on power imported into the eastern Colorado region. The project improves load-serving capability and reliability by providing connectivity to the bulk transmission system of Tri-State and Public Service, and by providing strong “looped service” to areas with long radial transmission configurations. Additionally, Tri-State’s Network Customers have identified a need for over 800 MW of new generation in this area in a 10 year planning horizon, with Tri-State taking a longer term view of a transmission system capable of at least a cumulative and unspecified 1200 MW of new generation in eastern and southeastern Colorado.

This project identifies the transmission element additions that are needed to meet both companies’ needs, including delivery of future generation to loads in the Denver and Front Range areas. The present project involves double circuit 345 kV transmission lines connecting Lamar to the Pueblo area and Lamar to the Burlington and Big Sandy substations. Transmission

connections in the Pueblo area and connections from Big Sandy to Missile Site, Story, and Pawnee are currently being evaluated. This project is presently planned to be financed and constructed 60% by Tri-State and 40% by Public Service.