

Black Hills Colorado Electric, LLC
2026 Rule 3627 Report – Appendix D – Black Hills Project Summary

Appendix D

Black Hills Project Summary

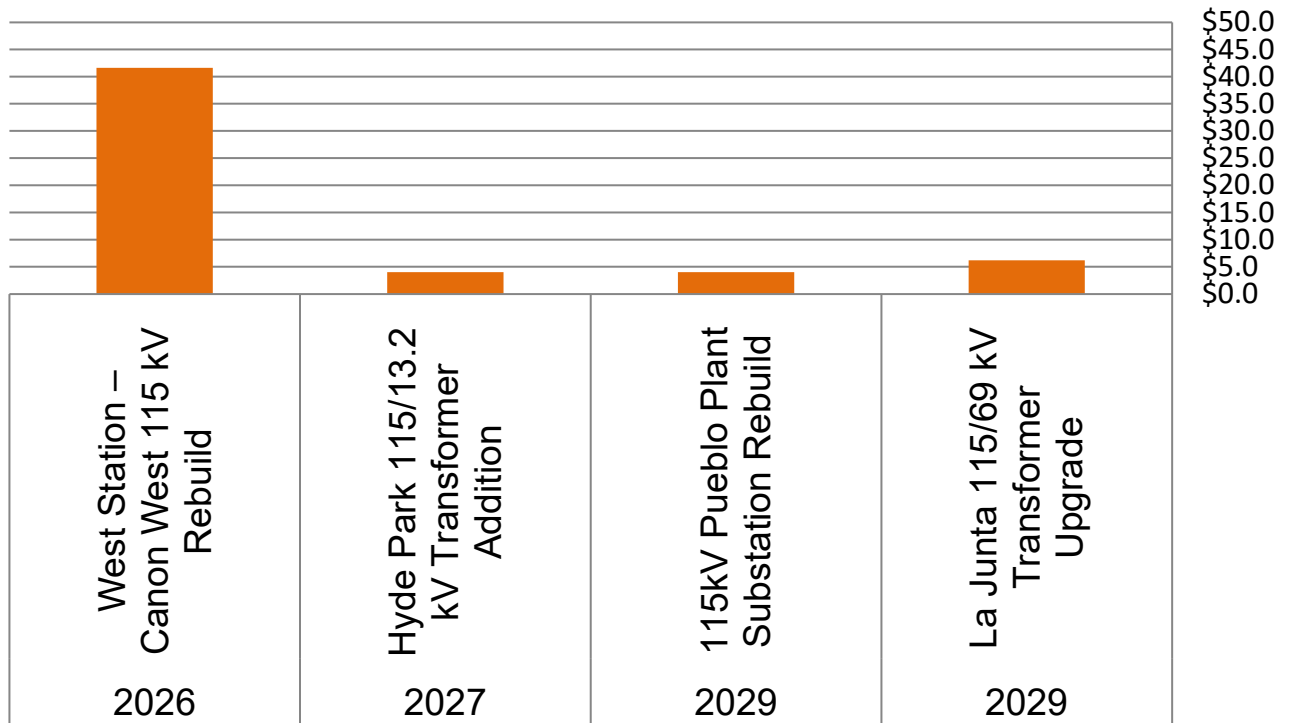
Black Hills Colorado Electric, LLC
2026 Rule 3627 Report – Appendix D – Black Hills Project Summary

Table of Contents

West Station – Canon West 115 kV Rebuild	D-4
Pueblo Plant 115 kV Substation Rebuild.....	D-7
La Junta 115/69 kV Transformer Upgrade	D-10
Hyde Park 115/13.2 kV Transformer Addition.....	D-13

Black Hills Colorado Electric, LLC
2026 Rule 3627 Report – Appendix D – Black Hills Project Summary

**Black Hills Colorado Electric - Planned Project
 Timeline
 Est. Cost, in Millions**



Black Hills Colorado Electric, LLC
2026 Rule 3627 Report – Appendix D – Black Hills Project Summary

West Station – Canon West 115 kV Rebuild

Project Sponsor:	Black Hills Colorado Electric
Additional Project Participants:	
Project Description:	Rebuild the 115 kV lines from West Station to Canon West to 221 MVA
Voltage Class:	115 kV
Facility Rating:	221MVA
Point of Origin/Location:	West Station, CO
Point of Termination:	Canon West, CO
Intermediate Points:	Portland Substation, Skala Substation, Canon Plant Substation
Length of Line (in Miles):	41
Type of Project:	Transmission & Distribution
Development Status:	Planned
Routing:	
Subregional Planning Group:	CCPG
Purpose of Project:	Load service & Reliability
Estimated Cost:	\$41.6 Million
Schedule:	
Construction Date:	2023
Planned Completion/In-Service Date:	2026
Regulatory Info:	
Regulatory Date:	
Permitting Info:	
Permitting Date:	
Contact Information:	Trevor Rombough, Transmission Planning
Email	Trevor.J.Rombough@blackhillscorp.com

Black Hills Colorado Electric, LLC
2026 Rule 3627 Report – Appendix D – Black Hills Project Summary

West Station – Canon West 115 kV Rebuild

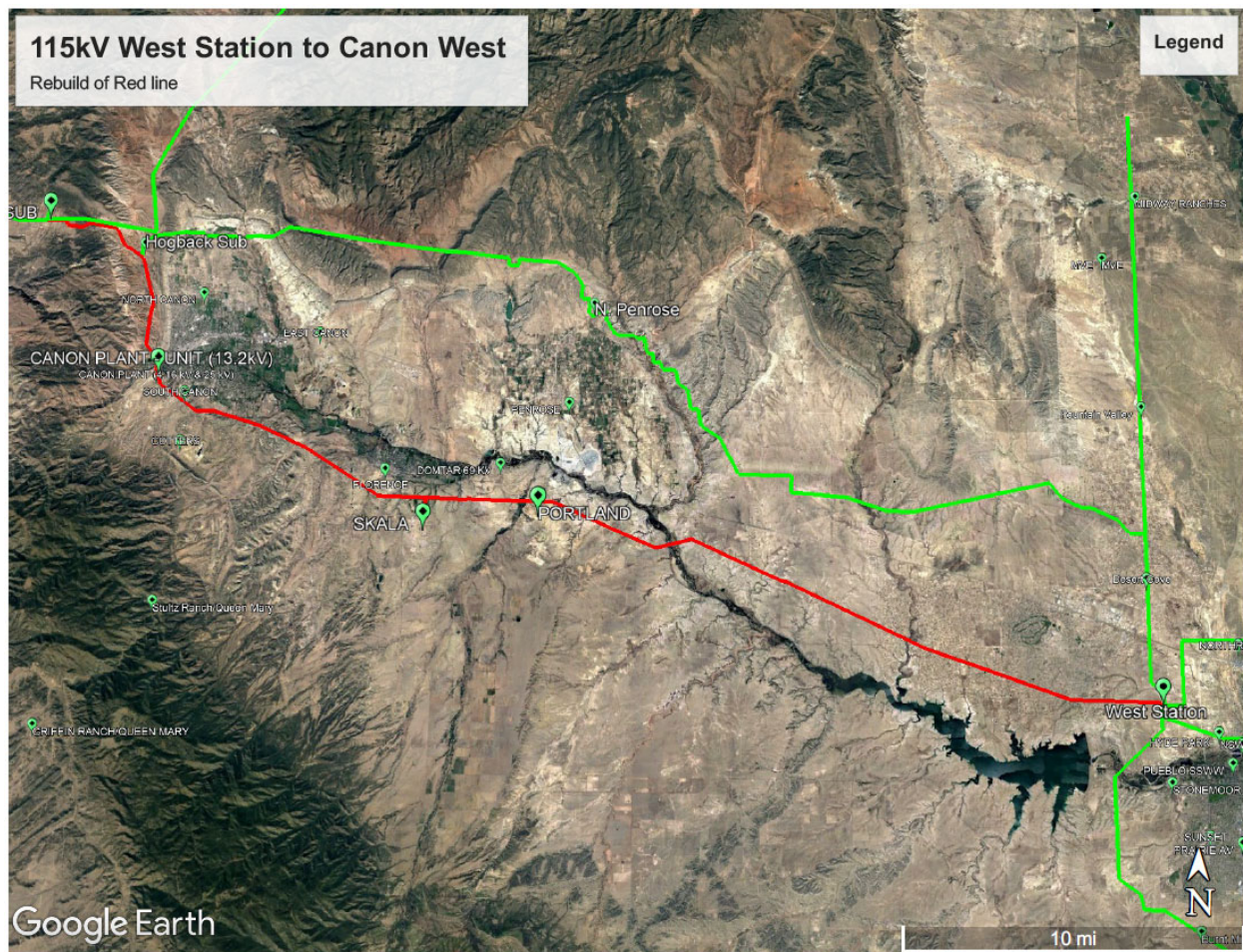
Description. Past TPL-001-4 reliability¹ and interconnection studies and summer peak operational studies have shown overloads on the Portland-Skala, Skala-Cañon City, and Portland-West Station #1 and #2 115 kV lines. Also, the West Cañon 230/69 kV transformer, which supports the Cañon City network from the west end, is a long lead time piece of equipment that adds additional overload scenarios to the above mentioned 115 kV lines if the transformer were to fail. This project is a rebuild of 41 miles of the existing transmission line from West Station to Canon West and replaces aging infrastructure, which resulted in overloads and N-1 contingencies. The need for this project was delayed with the completion of the West Station – Hogback project, however, the project timeline was moved up when this line was identified as a network upgrade to accommodate the Large Generation Interconnection Agreement (“LGIA”). At the time of the 2022 Rule 3206 filing, this LGIA was not intending to move forward. LGIA discussions were revived in late 2022 resulting in a signed LGIA in October 2022. The LGIA has since suspended but the projects are still needed for reliability and asset renewal. Construction started in April 2023 and is expected to continue through March 2026. Some portions of the line rebuild have been completed along with the West Cañon 230/69 kV transformer replacement.

Consideration of project alternatives including energy storage systems (Rule 3206(d)(1)(D)). This line rebuild is caused by a Large Generator Interconnection. Non-wires alternatives such as large scale battery storage are not an option for this project

Decision. The Commission determined that CPCN is not necessary in Decision No. C23-0810.

¹ Including both BHCT TCPC & CCPG studies

Black Hills Colorado Electric, LLC
2026 Rule 3627 Report – Appendix D – Black Hills Project Summary



Black Hills Colorado Electric, LLC
2026 Rule 3627 Report – Appendix D – Black Hills Project Summary

Pueblo Plant 115 kV Substation Rebuild

Project Sponsor:	Black Hills Colorado Electric
Additional Project Participants:	
Project Description:	Rebuild the Pueblo Plant 115/13.8 kV Substation
Voltage Class:	115 kV
Facility Rating:	221MVA
Point of Origin/Location:	Pueblo, CO
Point of Termination:	
Intermediate Points:	
Length of Line (in Miles):	
Type of Project:	Transmission & Distribution
Development Status:	Planned
Routing:	
Subregional Planning Group:	CCPG
Purpose of Project:	Load service & Reliability
Estimated Cost :	\$2.2 Million Transmission with a project total cost of \$6.5 million
Schedule:	
Construction Date:	2028
Planned Completion/In-Service Date:	2029
Regulatory Info:	
Regulatory Date:	
Permitting Info:	
Permitting Date:	
Contact Information:	Trevor Rombough, Transmission Planning
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Black Hills Colorado Electric, LLC
2026 Rule 3627 Report – Appendix D – Black Hills Project Summary

Pueblo Plant 115 kV Substation Rebuild

Description. Past TPL-001-4 reliability² and interconnection studies along with current summer peak operational studies have shown overloads on the Pueblo Plant – Reader and Pueblo Plant – Hyde Park 115 kV lines. These 115 kV lines are limited by terminal equipment at the Pueblo Plant substation. Additionally, the 2023 Distribution System Plan (DSP) Report identified N-1 risks and numerous equipment overloads inside the Pueblo Plant 13.8 kV distribution substation. Replacing the limiting substation equipment is a challenge due to the small geographic size and substation layout. To address the limiting 115 kV equipment, the entire 115 kV substation must be de-energized for safe working clearances.

This project will rebuild the existing Pueblo Plant 115/13.8 kV substation to address the limiting substation equipment and improve the load serving redundancy. Additionally, this site will go from two 115/13.2 kV transformers to a single 115/13.2 kV transformer. In order to accomplish this adjustment, a second 115/13.2 kV transformer must be added at the Hyde Park Substation, described below.

The engineering and design work associated with the substation portion of the project will be performed to ensure that the completed project will meet the established noise and magnetic field requirements as stated in Rule 3206 (f) and Rule 3206 (e), respectively. Namely, the noise level of the substation will not exceed 50 db(A) at a distance of 25 feet beyond the property line, and the magnetic field level at the property line, one meter above the ground, will not exceed 150 MilliGauss.

Consideration of project alternatives including energy storage systems (Rule 3206(d)(1)(D)). Providing back-up energy to radial loads under contingency conditions is a benefit provided by energy storage technology and may address some of the needs associated with this project. However, energy storage cannot address the outage and clearance safety concerns related to the age and layout of the existing substation. A substation rebuild is the most effective solution to address all the project needs.

Decision. Black Hills Colorado Electric requests that the Commission determine that the project is in the ordinary course of business and that a CPCN is not necessary.

² Including both BHCT TCPC & CCPG studies

Black Hills Colorado Electric, LLC
2026 Rule 3627 Report – Appendix D – Black Hills Project Summary



Black Hills Colorado Electric, LLC
2026 Rule 3627 Report – Appendix D – Black Hills Project Summary

La Junta 115/69 kV Transformer Upgrade

Project Sponsor:	Black Hills Colorado Electric
Additional Project Participants:	
Project Description:	Upgrade the La Junta 115/69 kV transformer to 50 MVA and upgrade limiting terminal equipment
Voltage Class:	115 kV
Facility Rating:	50 MVA
Point of Origin/Location:	La Junta, CO
Point of Termination:	
Intermediate Points:	
Length of Line (in Miles):	
Type of Project:	Transmission & Distribution
Development Status:	Planned
Routing:	
Subregional Planning Group:	CCPG
Purpose of Project:	Load service & Reliability
Estimated Cost:	\$3.9 Million
Schedule:	
Construction Date:	2029
Planned Completion/In-Service Date:	2029
Regulatory Info:	
Regulatory Date:	
Permitting Info:	
Permitting Date:	
Contact Information:	Trevor Rombough, Transmission Planning
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Black Hills Colorado Electric, LLC
2026 Rule 3627 Report – Appendix D – Black Hills Project Summary

La Junta 115/69 kV Transformer Upgrade

Description. Past TPL-001-4 reliability³ and interconnection studies along with current summer peak operational studies have shown overloads on the La Junta 115/69 kV transformer. These overloads are currently mitigated operationally with diesel generation and sectionalizing the 69 kV system. The Rocky Ford diesel generation is planned to be retired in 2029 and will no longer be available to alleviate this overload.

This project will replace the existing La Junta 115/69 kV transform to increase the rating from 25 MVA to 50 MVA.

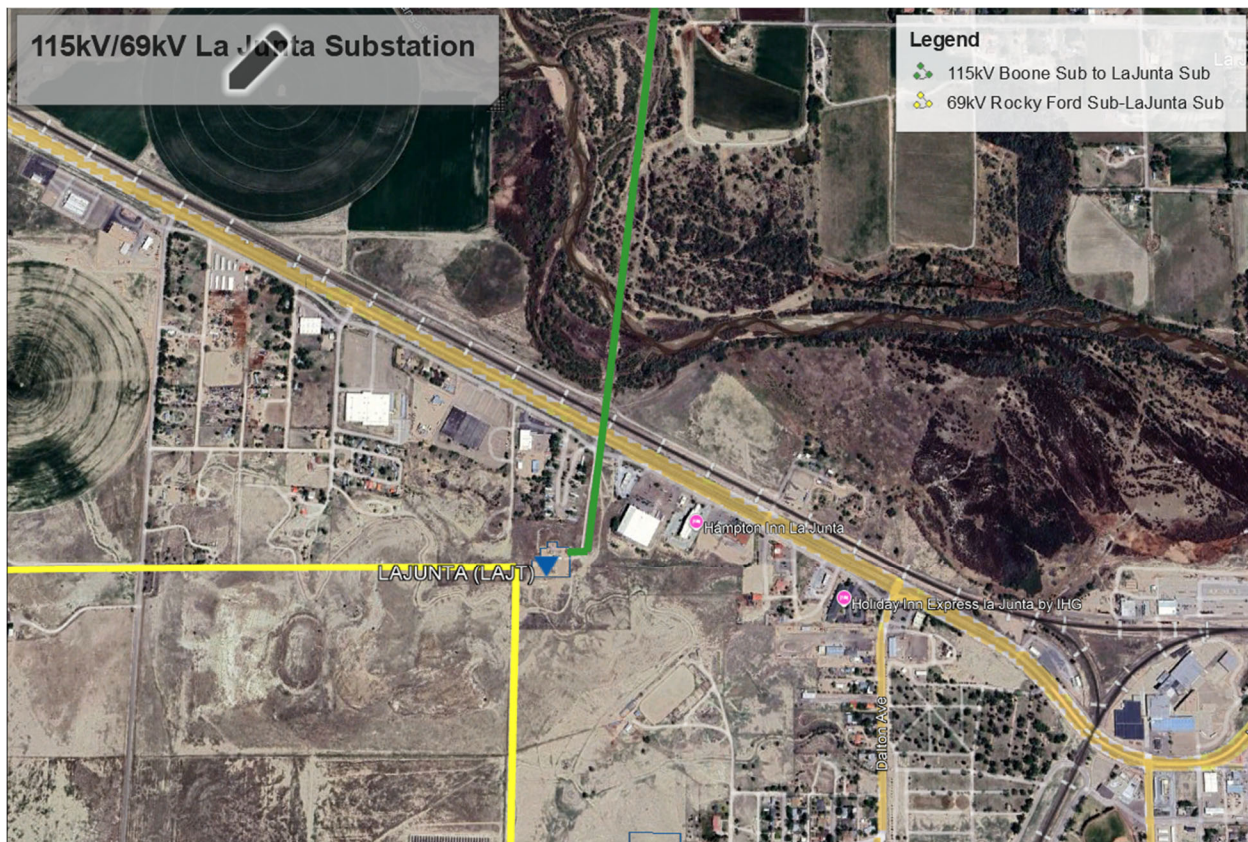
The engineering and design work associated with the substation portion of the project will be performed to ensure that the completed project will meet the established noise and magnetic field requirements as stated in Rule 3206 (f) and Rule 3206 (e), respectively. Namely, the noise level of the substation will not exceed 50 db(A) at a distance of 25 feet beyond the property line, and the magnetic field level at the property line, one meter above the ground, will not exceed 150 MilliGauss.

Consideration of project alternatives including energy storage systems (Rule 3206(d)(1)(D)). Providing back-up energy to radial loads under contingency conditions is a benefit provided by energy storage technology and may address some of the needs associated with this project. However, the La Junta transformer is 57 years old and will need to be replaced for asset renewal in the near future. A transformer replacement is the most effective solution to address all the project needs.

Decision. Black Hills Colorado Electric requests that the Commission determine that the project is in the ordinary course of business and that a CPCN is not necessary.

³ Including both BHCT TCPC & CCPG studies

Black Hills Colorado Electric, LLC
2026 Rule 3627 Report – Appendix D – Black Hills Project Summary



Black Hills Colorado Electric, LLC
2026 Rule 3627 Report – Appendix D – Black Hills Project Summary

Hyde Park 115/13.2 kV Transformer Addition

Project Sponsor:	Black Hills Colorado Electric
Additional Project Participants:	
Project Description:	Add second 115/13.2 kV transformer at Hyde park
Voltage Class:	115 kV
Facility Rating:	30 MVA
Point of Origin/Location:	Pueblo, CO
Point of Termination:	
Intermediate Points:	
Length of Line (in Miles):	
Type of Project:	Transmission & Distribution
Development Status:	Planned
Routing:	
Subregional Planning Group:	CCPG
Purpose of Project:	Load service & Reliability
Estimated Cost:	\$4.0 Million
Schedule:	
Construction Date:	2026
Planned Completion/In-Service Date:	2027
Regulatory Info:	
Regulatory Date:	
Permitting Info:	
Permitting Date:	
Contact Information:	Trevor Rombough, Transmission Planning
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Black Hills Colorado Electric, LLC
2026 Rule 3627 Report – Appendix D – Black Hills Project Summary

Hyde Park 115/13.2 kV Transformer Addition

Description. The area served by the Hyde Park T1 transformer is projected to have high growth due to residential and commercial developments. The T1 transformer has existing N-1 risks, and these risks are expected to increase with the projected growth. To meet future capacity needs and address the N-1 risks, a second transformer and corresponding feeders will be needed at the current Hyde Park substation.

This project will add a second 30 MVA 115/13.2 kV transformer and associated switchgear to allow for system contingencies and address load growth in the area. This project will also offload Pueblo Plant to support the Pueblo Plant project described above.

The engineering and design work associated with the substation portion of the project will be performed to ensure that the completed project will meet the established noise and magnetic field requirements as stated in Rule 3206 (f) and Rule 3206 (e), respectively. Namely, the noise level of the substation will not exceed 50 db(A) at a distance of 25 feet beyond the property line, and the magnetic field level at the property line, one meter above the ground, will not exceed 150 MilliGauss.

Consideration of project alternatives including energy storage systems (Rule 3206(d)(1)(D)). Providing back-up energy to radial loads under contingency conditions is a benefit provided by energy storage technology. In the Company's DSP, this was considered and was deemed as not a viable option.

Decision. Black Hills Colorado Electric requests that the Commission determine that the project is in the ordinary course of business and that a CPCN is not necessary.

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2026 Rule 3627 Report – Appendix D – Black Hills Project Summary

