

## **Annual Progress Report for Planning Coordination**

### **NV Energy 2025 Annual Progress Report**

*February 03, 2025*

*To: The WECC Studies Subcommittee*

In accordance with WECC Progress Report Policies and Procedures, NV Energy is submitting 2025 Annual Progress Report, as presented below.

#### *NV Energy North*

##### **Sierra Solar, Lantern 345 kV Substation and Lantern – Comstock Meadows 345 kV line**

The new Lantern 345 kV substation will be a new generation collector substation and will interconnect NV Energy's Sierra Solar phase 1 and phase 2, which are 400 MW and 600 MW of solar and battery generation. The Lantern substation will be connected to the existing transmission system by folding the Valmy – East Tracy 345 kV line #3422. Later, for phase 2, a new Lantern to Comstock Meadows 345 kV line will be constructed, in service date (ISD) 2028. Lantern substation estimated in service date (ISD) is 10/2025.

NV Energy was granted waiver of “significant impact” status for this project per 2025\_Annual\_Progress\_Report\_letter from WECC.

##### **Hilltop Phase Shifter Move**

A new phase shifter will be installed at the Hilltop 345 kV substation to replace the phase shifter at the Bordertown 345 kV substation. The 300 MVA phase shifter at the Hilltop substation will mitigate the restricted import capacity at Hilltop substation when the Fish Spring Solar facility generation is at the maximum output of 100 MW. The projected ISD is 11/2026.

NV Energy was granted waiver of “significant impact” status for this project per 2025\_Annual\_Progress\_Report\_letter from WECC.

### **Lazy 5 120kV Substation**

This new 120 kV substation includes the installation of two 120/24 kV 60 MVA transformers, five 1,200 A feeder breakers and getaways, and associated equipment. This is to improve reliable capacity and provide additional distribution service to expanding commercial and residential loads in the Spanish Springs area. A line fold of the existing North Redrock – Sugarloaf 120kV line is required. The projected ISD is 04/2028.

NV Energy was granted waiver of “significant impact” status for this project per 2025\_Annual\_Progress\_Report\_letter from WECC.

### **Gerlach 15 MW, Ormat North Valley 2 15 MW, San Emedio 45 MW at Eagle 120 kV**

This project is comprised of the interconnection of Co. KJ, Ormat – Gerlach Geo, 38.5 MW geothermal generation. It has proposed to interconnect a 15 MW geothermal generator to the Eagle 120 kV substation using a shared lead line with Co. KI, North Valley Geo-2 38.5 MW geothermal generations, and Co. HN, North valley (aka San Emidio) 45 MW geothermal generation. The projected ISD is on Co. KJ 01/2028 and the ISD of Co. KI is 01/2026. The completion of KI is reliant on the completion of Co. HN (Phase -1 was energized in 2023).

The associated network upgrades to facilitate Co. HN have an ISD of 01/2026.

NV Energy was granted waiver of “significant impact” status for this project per 2025\_Annual\_Progress\_Report\_letter from WECC.

### **TRIC – Newton 120 kV Switchyard and Associated Upgrades**

This project is comprised of the Newton 120 kV switching station and upgrades at the existing Pah Rah and West Tracy substations. This project requires the rebuilding of portions of the existing Tracy to Patrick 120 kV line, Tracy to Newton 120 kV line, Tracy to Pah Rah 120 kV line, and Pah Rah to Newton 120 kV line. The ISD for these upgrades are pushed out to 12/2025.

NV Energy was granted waiver of “significant impact” status for this project per 2025\_Annual\_Progress\_Report\_letter from WECC.

### **Redwood Expansion (Project Sutro)**

This project is comprised of a new 120 kV line out of Comstock Meadows Substation to serve Redwood Materials in the Tahoe Reno Industrial Complex. This includes new Redwood 120 kV substation, initial load addition of 82 MW and ultimate addition of 140 MW in 2027. Phase-1 of this project was energized in 11/2024 with an initial load of about 3MW.

NV Energy requests waiver of “significant impact” status for this project.

### **Bordertown to California Sub 120 kV Project**

This project is comprised of a new 345/120 kV 280 MVA transformer at NV Energy's Bordertown Substation and a 120 kV, 12-mile line from Bordertown to California substation. This project is expected to be in service by end of 06/2027.

Multiple studies on the project have been performed by NV Energy indicating that no significant regional impact from these internal transmission facilities can be expected.

NV Energy was granted waiver of "significant impact" status for this project per 2025\_Annual\_Progress\_Report\_letter from WECC.

### **West Tracy – Comstock Meadows 345kV line**

This project comprises of 345kV addition at Comstock Meadow substation with addition of two (2) 345/120kV transformers to accommodate rapid load growth in the Reno TRIC area. An additional 345kV line from East Tracy or Veterans is also proposed based on load growth requirements. Planned ISD for this project is 12/2025.

NV Energy requests waiver of "significant impact" status for this project.

### **Shaffer Substation – LMUD Interconnection**

Lassen Municipal Utilities District (LMUD) executed a Transmission Service Agreement and Network Integration Transmission Service Agreement to interconnect a 30MW of load at new NV Energy Point of Interconnection at 345kV 'Shaffer' substation. Shaffer substation will be connected to the existing transmission system by way of a fold of Hilltop – Ft Sage 345 kV line adjacent to LMUD's Skedaddle 60kV switching station, with a new 345/60kV transformer at Shaffer and 60 kV phase shifter at Skedaddle. The expected ISD is 12/2025.

NV Energy requests waiver of "Significant Impact" status for this project.

### **Greenlink Nevada North (GLN)**

Greenlink North is a proposed 525kV series compensated line that would run east-to-west along a 235-mile path between Robinson Summit substation in Northeast Nevada and the Walker River (f.k.a., Fort Churchill) substation in western Nevada. The project also includes a expansion of the existing Robinson Summit 525/230 kV substation and construction of the new Lander 525/230 kV collector substations along the line for the interconnection of renewable resources.

Public Utility Commission of Nevada approved the Integrated Resource Plan in January 2022 with the proposed in-service date of 12/2028. NVE is currently actively working on permitting,

land acquisition for the project as well as on the design and specifications of all the equipment. The Bureau of Land Management issued a draft Environmental Impact Statement.

NVE has completed several transmission planning studies indicating that GLN would strengthen the connection between the North & South, improve reliability and increase the import transmission capacity of the integrated system. No regional effects or affected systems have been identified that are associated with this project.

NV Energy requests a waiver of “significant Impact” status for this project.

### **Stockyard 120kV Substation**

This project is a rebuild of existing and aging 120kV Buckeye substation with a planned ISD of May 2026. The Stockyard substation would improve reliability and will prevent NERC TPL standard violations.

NV Energy was granted waiver of “significant impact” status for this project per 2025\_Annual\_Progress\_Report\_letter from WECC.

### **Peavine 120kV Substation**

The new Peavine 120 kV substation project relieves load on the existing Silver Lake and Valley Road Substations. Peavine will increase capacity to serve expanding commercial and residential loads in the North Valleys area. The planned ISD is 05/2025.

NV Energy requests waiver of “significant impact” status for this project.

### **Libra Solar 700 MW Interconnection**

Company LU, Libra Solar proposes to interconnect 700 MW PV/ BESS at Fort Churchill 345kV substation to serve NV Energy’s native load. The proposed ISD for this project is 12/2027. System Impact Study was conducted, and no significant impacts were noted. NV Energy received PUCN approval for this project in December 2024.

NV Energy requests waiver of “significant impact” status for this project.

### **Valmy Simple Cycle Peaker Plants 436.6 MW**

The two Simple Cycle Peaker Plants at NV Energy’s North Valmy 345kV Substation would allow dispatch of Natural gas generation for a total of up to 436.6 MW to serve NV Energy’s native load during peak demand periods. The expected ISD of this project is 12/2027. NV Energy received PUCN approval for this project in December 2024.

NV Energy requests waiver of “significant impact” status for this project from WECC.

### **Corsac Geothermal Project 115 MW**

Company LB, Fervo Energy seeks a 115 MW Geothermal project interconnection at NV Energy’s proposed Lantern 345kV substation that was proposed for Sierra Solar interconnection.

The proposed ISD for this geothermal project is 10/2025. NV Energy received PUCN approval for this project in December 2024.

NV Energy requests waiver of “significant impact” status for this project from WECC.

### ***NV Energy South***

#### **Reid Gardner – Harry Allen Line #3**

This project is a new 22-mile Harry Allen to Reid Gardner #3 230 kV transmission line. The new #3 line will double the transmission capacity between Reid Gardner to Harry Allen, so that new large generator interconnections at Reid Gardner Substation do not overload the Harry Allen - Reid Gardner #1 or #2 230 kV lines.

NV Energy was granted waiver of “significant impact” status for this project per 2025\_Annual\_Progress\_Report\_letter from WECC.

#### **HG III 230/12kV Substation (aka Apex Central/ Goforth)**

HG III is a new 230/12kV substation, energized by the Prospector 230 kV line, and is proposed with initial two 35 MVA transformers to accommodate for increased load growth in the central Apex area. HG III has facility to accommodate six 35 MVA 230/12 kV transformers. The target ISD is 12/2025.

NV Energy was granted waiver of “significant impact” status for this project per 2025\_Annual\_Progress\_Report\_letter from WECC.

#### **El Capitan to Northwest 138 kV Reconductor**

This project is comprised of the reconductor of the existing El Capitan to Northwest 138 kV line originally in pursuant to a Power Purchase Agreement for a generator interconnection. This is also required for the designated network resource Amargosa 1,800 MW solar and battery project and the 1,000 MW White Pine pumped hydro that are both pursued by NV Energy. The expected ISD is 11/2026. This project is now being pursued by the Company.

NV Energy was granted waiver of “significant impact” status for this project per 2025\_Annual\_Progress\_Report\_letter from WECC.

### **LV Cogen to Highland 138kV Fold into Miller**

This project is comprised of folding the LV Cogen to Highland 138 kV line into Miller 138 kV substation originally in pursuant to a Power Purchase Agreement for a generator interconnection. This requires the expansion of the existing Miller substation with the addition of a new 138 kV ring bus. The expected ISD is now 03/2025.

NV Energy was granted waiver of “significant impact” status for this project per 2025\_Annual\_Progress\_Report\_letter from WECC.

### **Winston 138kV Switchyard**

The construction of a new Winston substation will contain new 138 kV power circuit breakers in a ring bus formation, a new transmission line, and associated facilities. This improves reliability of the Northwest to Mercury 138 kV line from Indian Springs to Creech Air Force Base, preventing outages and deficiencies. The expected ISD is now 06/2027.

NV Energy was granted waiver of “significant impact” status for this project per 2025\_Annual\_Progress\_Report\_letter from WECC.

### **Project Quasar – 138kV Switching Station**

A customer entered into a High Voltage Distribution Agreement for 75 MW. The customer will be served from Pecos substation by building the Pecos to Quasar 138 kV line. The expected ISD is 02/2026.

NV Energy was granted waiver of “significant impact” status for this project per 2025\_Annual\_Progress\_Report\_letter from WECC.

### **Audette 230kV Switchyard (Switch Phase 1&2)**

Audette consists of the construction of a 230kV switchyard, 230kV double circuit line fold, and 230kV single circuit high voltage distribution feeder. The expected ISD is 05/2025.

NV Energy requests waiver of “significant impact” status for this project.

### **Reid Gardner – Tortoise 230kV line #2**

To increase reliability for Lincoln County Power District No. 1 and Overton Power District No. 5, a second 230 kV line is required from Reid Gardner to Tortoise. This project will construct the second 230kV line from Reid Gardner to Tortoise. The planned ISD is 05/2024.

This line was energized from NVE side during 11/2024.

NV Energy requests waiver of “significant impact” status for this project.

### **Boulder Solar III**

This planned 128 MW Solar project which also includes a 58MW BESS will be in Clark County, NV in the Eldorado valley south of Boulder city and will be interconnected at 230kV Nevada Solar One. It is being developed by 174 Power Global and KOMIPO America Inc. This is one of the approved projects by PUCN in November 2020. Planned ISD is 05/2025.

NV Energy requests a waiver of “significant Impact” status for this project.

### **Sapphire 230/12kV Substation**

This project is being proposed to support the fast load growth in the Apex area of North Las Vegas. The addition of this substation will be needed for future commercial and industrial customers in the Apex area. The substation build out consists of initial two 230/12 kV 37.3 MVA transformers and is facilitated to accommodate additional two similar transformers based on load growth. The proposed ISD is 05/2026.

NV Energy requests a waiver of “significant Impact” status for this project.

### **Dry Lake East II Interconnection 200 MW PV/ BESS**

Company 166, NextEra Energy Resources desires to interconnect 200 MW PV Solar at NV Energy’s Harry Allen Substation. A System Impact Study was conducted and required contingent facilities were identified prior to the generator interconnection. The projected ISD is 03/2026.

PUCN approval has been granted for this project in December 2024.

NV Energy requests a waiver of “significant Impact” status for this project.

### **Dry Lake East I Interconnection 150 MW BESS**

Company 168, NextEra Energy Resources desires to interconnect 150 MW BESS at NV Energy’s Harry Allen Substation through Dry Lake East II generator lead line sharing. A System

Impact Study was conducted and required contingent facilities were identified prior to the generator interconnection. The projected ISD is 03/2026.

PUCN approval has been granted for this project in December 2024.

NV Energy requests a waiver of “significant Impact” status for this project.

### **Greenlink Nevada West (GLW)**

Greenlink West is a proposed 320-mile long 525kV series compensated line from Northwest Substation in northwest Las Vegas to Walker River (f.k.a., Ft. Churchill) Substation in Yerington Nevada, approximately in parallel to the western border of Nevada. The line will also include two 525/230 kV collector substations along the line for the interconnection of renewable resources. This project will provide a second interconnection between NV Energy’s northern and southern systems. The project also includes a 45-mile 345 kV line from Ft. Churchill Substation to Mira Loma Substation and two 40-mile 345 kV lines from Walker River Substation to Comstock Meadows Substation. The project also includes expansion of the existing Northwest 525 kV substation, construction of the new Sagebrush (f.k.a., Amargosa) 525 kV collector station, Esmeralda 525 kV collector station, and Walker River (f.k.a, Fort Churchill) 525/345/230/120 kV substation with new transformers.

**Fort Churchill substation upgrades:** New 500 kV, 345 kV and 230 kV switchyards will be built, including new transformers: 2x500/345kV (600MVA), 2x345/230kV (300MVA), and 2x345/120kV (280MVA).

The project has been approved by the PUCN in 2021. The Bureau of Land Management issued a Right-of-Way Grant and Notice-to-Proceed for Segment 1. The Public Utilities Commission of Nevada issued a Permit to Construct Segment 1. NV Energy is receiving material and initiated construction of Segment 1. On January 22, 2025, the United States Secretary of Interior issued a Temporary Suspension of Delegated Authority (Suspension) removing delegation of authority to the Bureau of Land Management to take actions to issue rights of way or notices to proceed. The Suspension will remain in effect for 60 days. The Suspension will delay the Bureau of Indian Affairs Right of Way Grant for the portion of the Segment 1 through the Snow Mountain Reservation and may delay the Bureau of Land Management notice to proceed for Segment 2 of GLW. NV Energy is considering methods to mitigate the impact of the Suspension and maintain the proposed in-service date of 05/2027.

As necessary part of GLW but approved by the PUCN as part of GLN is a 30-mile line in Southern Nevada from Harry Allen substation in North Las Vegas to Northwest Substation in northwest Las Vegas strengthening the system to accommodate flows on both - GLW and GLN projects. Public Utility Commission of Nevada approved the Integrated Resource Plan in January 2022. The proposed in-service date for the Harry Allen to Northwest 525 kV transmission line is December 2028.



NVE has completed transmission planning studies indicating that GLW would strengthen the connection between the North & South, improve reliability and increase the import transmission capacity of the integrated system. No regional effects or affected systems have been identified that are associated with this project.

NV Energy requests a waiver of “significant Impact” status for this project.