



INFRASTRUCTURE INVESTMENT AND JOBS ACT PROGRAMS

BROADBAND INFRASTRUCTURE - TALKING POINTS – 10/14/2022

The Opportunity

With the recent passage of the Federal Infrastructure Investment and Jobs Act, the energy sector has the opportunity to invest in middle mile broadband solution opportunities leveraging the electric company infrastructure to reduce the cost of bringing broadband access to unserved or underserved communities.

The Office of Science, Innovation and Technology has recently issued Request for Proposals (RFPs) for Phase I of the High-Speed Nevada Initiative. In Phase I, broadband service providers will have the opportunity to bid to bring fiber based broadband transport services to over 1,000 State and Local Government Facilities, Schools, and Libraries.

NV Energy (NVE) and OSIT have been working closely to determine how NV Energy can support the goals of the High-Speed Nevada Initiative. NV Energy would welcome the opportunity to engage with broadband State of Nevada RFP service providers who would look to utilize NV Energy assets as part of their proposed solutions to these RFPs. Broadband Service Providers should be aware that resolution of easement issues will likely be part of the terms of use of NV Energy assets.

NVE Needs

NVE is making investments in their own private wired and wireless broadband communications infrastructure to enhance reliability, security, and modernization of the grid.

In constructing private broadband networks for grid modernization, NVE will deploy certain infrastructure that provides “middle mile” connectivity, such as fiber optic cable, radio towers, power connections, etc.

To the extent feasible, and if determined to be in the best interest of NVE customers, NVE should consider ways to minimize or reduce equipment costs for other entities, such as commercial broadband service providers, who have overlapping broadband service requirements.

NVE Infrastructure

NV Energy has assets including dark fiber, transmission towers and other vertical assets along some routes that are adjacent to or near facilities that are included in this RFP. In addition, NV Energy has underground conduits and substations that may also have potential use. NV Energy has both existing facilities and assets as well as planned new assets that are being deployed.

Ways to Partner with NV Energy using existing assets

For existing assets, NV Energy has a Joint Use department that works with commercial broadband service providers that desire to attach wireline facilities to NV Energy's vertical assets in the Communication Space of these structures. The same group works with providers that want to utilize existing underground conduit and duct-banks. Our telecommunications department also has existing dark fiber that may potentially be utilized.

Ways to Partner with NV Energy using new or planned assets

NV Energy is always developing new transmission and distribution line routes to service our customers. With new construction there may be opportunities to share the cost of trenching, conduit, and vault deployments. NV Energy is expanding its internal fiber footprint and there may be opportunities to share site specific route buildouts with providers for new fiber deployment utilizing Indefeasible Rights of Use (IRUs) for dark fiber arrangements.

Mapping Demo

NV Energy mapping demo of transmission, distribution, and substation facilities along with our districts and OSIT's RFP anchor tenants.

NVE Recommendations

- Establish Non-Disclosure Agreements to start discussions
- Have site specific routes or areas of interest for fiber deployments
- Map site specific routes or areas of interest and overlay with potential NV Energy assets
- Determine next steps based on needs and assets

Appendix – Potential NV Energy Line routes of interest

Internal NV Energy Route Number	Origin	Termination	Route Path	Key Service Points
3428	Robinson Summit	Battle Mountain	Robinson Summit to Eureka to Beowawe to Falcon to Battle Mountain	Pathway to Crescent Valley; Diversity for US 50; Serve Eureka
137	Elko	Big Springs Mine	Elko, Humboldt, Tuscarora, Big Springs Mine, north on Distribution to Wild Horse Reservoir	North on distribution around Wild Horse Reservoir
506 (Tonopah to Millers) 135 (Millers to Anaconda Substation) 138 (Millers to Tiads Substation) 2307 (Anaconda/Moly Substation to Frontier Substation to Austin)	Tonopah	Austin	Tonopah-Millers-Moly/Anaconda Substation-Frontier Substation-Austin (traverses Round Mountain)	Transmission route is on the eastern side of NV-376 which is the same side of the highway as Manhattan’s population center but the opposite side of the highway from Round Mountain. Could build a lateral across to Round Mountain and then serve the single ranch or remote homes with fixed wireless.
601 (Silver Springs - Mason Valley) 657 (Mason Valley-Smith Valley) Distribution to Topaz Lake	Smith Valley	Topaz Lake	Silver Springs-Mason Valley-Yerington-Smith Valley-then on distribution to Topaz Lake	Traverses a lot of Lyon County by Yerington. Connects to US395 (Praxis Fiber) for a ring effect from US50 to US395. Covers an great amount of agriculture land.
Tahoe-Reno Industrial complex	Wadsworth	Tahoe-Reno Industrial complex	Wadsworth-Fernley-Lahontan-Silver Springs-Tahoe Reno Industrial Complex	This provides a ringed design to serve the Tahoe Reno Industrial complex
506 (Tonopah to Millers) 504 (Lower Smoky Valley to Gabbs)	Tonopah	Gabbs	Tonopah-Millers-Lower Smoky Valley-Gabbs	Picks up remote locations in Gabbs including a school and a library
138 kV Mercury Substation to Northwest Substation	Indian Springs	Las Vegas	Indian Springs – Las Vegas	Picks up Indian Springs Government Facilities, School, Library and Correctional Center in Cold Creek

Las Vegas to Angels Peak on Distribution	Las Vegas	Angels Peak	Canyon Substation- Angels Peak-Kyle Canyon	Gets to Mount Charleston and picks up Spring Mountain CCSD school; Correctional Camp as Desert View; other Federal agencies; Clark County Administrative Building Can do part of this route on distribution poles and part underground.
3430 (Robinson Summit – Falcon Gondor Substation- Ely State Prison)	Robinson Summit	Ely State Prison	Robinson Summit to Ely State Prison	Serve the Prison
653 (Winnemucca to Dutch Flat then on distribution to Paradise Valley)	Winnemucca	Paradise Valley	Winnemucca-Dutch Flat Substation on distribution to Paradise Valley	Pick up State Facilities, Libraries along the path
Laughlin – Boulder City- Indirect Southern Route that cuts across partially NV163 to interconnect US93(AZ) to US 95 (Mainly on distribution)	Boulder City	Laughlin	Boulder-City to Laughlin	Interconnects US 93 and US 95