Annual Progress Report for Planning Coordination
NV Energy 2012 Annual Progress Report

In accordance with WECC Progress Report Policies and Procedures, the following is NV Energy’s 2012 Annual Progress Report.

NV Energy North

Ely Energy Center (EEC)
Install two new generation facilities with-in service dates of June 2015 for EEC Unit #1 and June 2016 for EEC Unit #2: Postponed indefinitely

“One Nevada” Transmission Line Project (ON Line).
Constructing 500-kV 236 mile long line from the proposed Robinson Summit Substation located 20 miles west of Ely, Nevada to the existing Harry Allen Substation located northeast of Las Vegas, Nevada. Fold existing Falcon – Gonder 345 kV line into Robinson Summit Substation and connect 345 kV and 500 kV buses through 2×525 MVA 345/500 kV autotransformers. Install 70% series compensation equipment on Falcon – Robinson 345 kV line, 35 % at each end. NV Energy has completed Sub-Synchronous Resonance (SSR) studies identifying adverse effects and developed mitigations for NV Energy’s assets. As designated in the Transmission Use and Capacity Exchange Agreement (TUA) signed on 8/20/2010 between NV Energy and Great Basin Transmission, LLC (GBT), the ON Line is a jointly owned project by NV Energy and GBT. At this time, the latest updated in-service date is Q1, 2013.

“Southwest Intertie South” Project (SWIP).
This project is considered as Phase II to ON Line Project. Construct 500-kV 275 mile long Line from Idaho Power’s Midpoint to the proposed Robinson Summit Substation located 20 miles west of Ely, Nevada. Install 70% series compensation (for 245 mile line impedance) equipment on this line, 35 % at each end. Install 2×600 MVA 345/345 kV Phase Shifting Transformers (PST) at Robinson Summit: one on Falcon and another – on Gonder 345 kV line terminals respectively. Install 70% series compensation on Robinson – Harry Allen 500 kV line, 35 % at each end. NVE and LS Power are in a process of coordinating SSR studies to identify possible adverse effects on the near-by generators. As designated in the Transmission Use and Capacity Exchange Agreement (TUA) signed on 8/20/2010 between NVE and Great Basin Transmission, LLC (GBT), SWIP will be a jointly owned project by the parties. The proposed in-service date is 2014.

“Southern Nevada Intertie” Project (SNIP).
This project is considered as a part of SWIP-South Project. Construct 500-kV 60 mile long line from NVE’s Harry Allen Substation to Southern California Edison’s Eldorado Substation. Install 70% series compensation at Harry Allen. NVE and GBT are in a process of performing SSR studies to identify possible adverse effects on the near-by generators. As designated in the Transmission Use and Capacity Exchange Agreement (TUA) signed on 8/20/2010 between NVE and Great Basin Transmission, LLC (GBT), SWIP will be a jointly owned project by the parties. The proposed in-service date is 2014.

1 Also attached to this progress reports is Great Basin Trans - SWIP WECC 2011 Annual Supplemental Progress Report.pdf this supplemental report provides details of the progress made during 2010 on the SWIP path rating studies made by Great Basin Transmission LLC.
Exchange Agreement (TUA) signed on 8/20/2010 between NVE and Great Basin Transmission, LLC (GBT), the SNIP will be a jointly owned project by the parties. The proposed in-service date is, 2014.

Blackhawk 345/120 kV substation (was Emma):
This a new substation with a projected in service date of June, 2018. This project is postponed indefinitely.

Fallon 230 kV Source
Install a new 230 kV line From Pony Express Switching Station (Enel) to a new 230/60 kV substation (approximately 1/2 mile South of Fallon) and build a series of substations and switching stations (Pony Express, Bunejug, and Macari) to provide new source, via a 25 mile 230 kV line, to the City of Fallon. The projected in service date for this project is June 2014. The scope of this project has been changed due to a reduction in load growth in Fallon area, the termination of one LGIA and the reduction in a second LGIA have also contributed to the reduction in scope of this project. The project will now likely to be a 10 mile 230 kV generator lead line heading southward from the generator interconnect, company BO, with a reduced LGIA to the Pony Express Switching Station. The Pony Express switching station will be constructed at an existing generator interconnection site (Enel) and then connects to NV Energy’s Northern 230 kV system about five miles further south. No connection will be made from into Fallon from interconnection BO switching station.

Bannock Substation and Jersey Valley Geothermal
In 2010 NV Energy completed construction of the new 120 kV Bannock Substation. This substation connects to the existing #152 120kV line and the Phoenix Mill 120kV line. A new radial line, the Jersey 120kV line, interconnects with the Jersey Valley generating plant. Ormat LLC constructed a 3-397.5ACSR 120kV pole line, transformed from 120 to 13.8-kV to the geothermal generating plant consisting of two 22.5 MVA generating units in Jersey Valley approximately 28 Miles southwest of the Bannock Substation.

NV Energy South

McDonald 230/138 kV Additions
NV Energy plans to add a new 336MVA 230/138kV transformer is being installed at the existing McDonald substation. The existing Arden-Decatur 230kV line will be folded into the new McDonald substation. In service date of June 1, 2016 is projected for this project.

Harry Allen Combined Cycle and 500 kV Generator Lead Line
The project is to interconnect a new 500 MW Combine-Cycle generator to Harry Allen 500 kV switchyard and construct a triple bundled 1590-ACSR circuit on single circuit structures from Harry Allen 500-kV switch yard to the new Harry Allen Combined Cycle Generating Plant. NVE is performed Sub-Synchronous Resonance (SSR) assessments to identify possible adverse effects and required mitigations for this generating facility. No adverse effects were identified. This generating facility went into service in May of 2011.

Northwest 500/230 #2 Transformer Addition
Install three, 500/230 kV, single phase autotransformers with a rating of 300/400/500 MVA at the existing Northwest substation. In service date of June 1, 2018 is projected for this project.
**Harry Allen 345/230 #2 Transformer Addition**
Install a three-phase 345/230 kV autotransformer with normal/emergency rating of 357/416 MVA at the existing Harry Allen substation. This transformer was placed into service in June of 2011. This project was paid for by PacifiCorp and the capacity in the new transformer is owned by PacifiCorp.

**Equestrian 500/230 kV Substation**
The Equestrian project is needed to deliver bulk power to Las Vegas off the Harry Allen to Mead 500 kV line and consists of the following: Equestrian North 500/230 kV substation and Equestrian – Faulkner 230 kV line #2. The necessity of this project has been supplanted by better alternatives and this project has been cancelled.

**Brooks 230/138/12 kV Substation and Pecos-Brook 230 kV Line**
The addition of a new 230 kV transmission line between Pecos and the future Brooks substation site along with folding in the 138 kV sub-transmission between Leavitt and Gilmore substations into the Brooks substation will eliminate N-1 low voltage issues. In service 2017

**Sunrise 500/230 Substation**
To increase import capability into the NEVP system, the Sunrise Project will include a new 500/230 kV Sunrise substation connected through an 8-mile fold to the Harry Allen-Mead 500 kV transmission line, with one 1500 MVA 500/230 kV transformer. The Sunrise 230 kV facilities will be integrated with existing 230 kV Nevada Power Company facilities through four new 230 kV lines. In service in 2018. The 500 kV portion of the project has been canceled and replaced with the Harry Allen 500/230 kV transformer addition. The 230 kV additions are delayed to 2018 or beyond based on current load forecasts.

**Robinson – Harry Allen Transmission Line # 2 Project.**
Construct a 500-kV, 235 mile line # 2 from the Robinson Summit Substation in the Northern Nevada to the existing Harry Allen Substation in Las Vegas area. This line will parallel the “SWIP South” line route, on a separate ROW, with approximately 1000 ft separation between the two lines. The line will be 70% series compensated, 35 % at each end. The line will serve as a conduit for new renewable generating resources between Northern and Southern Nevada, including those currently being developed along and in the proximity to the SWIP corridor. NVE has obtained from the BLM a permit for this line. Similarly to “SWIP” Project, the SSR studies to identify possible adverse effects on the near-by generators will be performed. NV Energy is the proponent and the prospective owner of this project. The proposed in-service date is 2018.

**Harry Allen 500/230 transformer Addition**
Install a new 1500MVA 500/230 kV transformer at Harry Allen Substation. The existing 230 kV and 500 kV switchyards will be upgraded as needed, including construction of a 500 kV line between the switchyards. In service date of 2015 is projected for this project.