New Energy Industry Task Force Presentation
Valley Electric Association, Inc. (VEA)

Overview

- Member-owned Cooperative utility for over fifty (50) years
- Six (6) elected Board of Directors
- We’re non-profit and are owned by the consumers we serve.
- We’re guided by seven cooperative principles that reflect the best interest of our consumers
- Service territory covers southern Nevada and a portion of California across five (5) counties.
VEA serves the communities of Pahrump, Sandy Valley, Amargosa Valley, Beatty and Fish Lake Valley.
VEA’s Move into the CAISO

- Generation Interconnection Queue
  - VEA had over 2,800 MW of generation interconnection requests in its queue at one time.
  - Generators had a difficult time in getting their power to the market.
  - Solution was for VEA to establish a direct connection to the California Independent System Operator (CAISO) system.

- VEA moved into the CAISO Balancing Area on January 3, 2013.
Move into the CAISO - Continued

• CAISO Mission:
  ◆ Operate the grid reliably and efficiently
  ◆ Provide fair and open transmission access
  ◆ Promote environmental stewardship
  ◆ Facilitate effective markets and promote infrastructure development

• CAISO has jurisdictional control of the operation of VEA’s transmission facilities.

• VEA retained ownership of its transmission facilities.
Move into the CAISO - Continued

• VEA receives income for the use of its transmission system by others.

• VEA pays a transmission access charge and other applicable charges under the CAISO transmission tariff.

• VEA is required to meet and maintain operating reserve requirements and resource adequacy requirements of the CAISO.
Move into the CAISO - Continued

• VEA is under the jurisdiction of the CAISO for the transmission planning process and generator interconnection process.

• Generators interconnected to VEA facilities can sell directly into the California market as managed by the CAISO.

• VEA’s transmission maintenance program is reviewed by the CAISO.
INTEGRATED, DECENTRALIZED ELECTRIC POWER SYSTEM

- GENERATION
- TRANSMISSION
- SUBSTATION
- DISTRIBUTION
- INTEGRATED MEMBER
- DISTRIBUTED GENERATION
- VEA DISPATCH

Valley Electric Association, Inc.
A Touchstone Energy Cooperative
Other VEA Projects

• VEA is installing broadband to its members.
  ❖ WiMAX is planned to be installed this year.
  ❖ Fiber to the meter build is in progress.
  ❖ VEA is on its fourth (4th) generation of smart meters.

• Community Solar Project
  ❖ Partnership with Bombard Electric (an indirect subsidiary of MDU Resources Group Inc.)
  ❖ Located on an eighty (80) acre parcel in Nye County in northern Pahrump, NV
  ❖ Fifteen (15) MW\textsuperscript{AC} project with \( \approx 55,000 \) photovoltaic (PV) modules expected to produce \( \approx 34,000 \) MWhrs annually
  ❖ Currently in construction and expected to be operational in the third quarter of 2016
Other VEA Projects - Continued

• Ten West Link Project (f/k/a Delaney-Colorado River Project)
  ❖ This project is a 500 kV line between Arizona and California (approximately 114 miles).
  ❖ VEA has partnered with two other entities.
    ▪ They will construct the line, which is scheduled to be in service in 2020.
    ▪ VEA will operate, maintain, and manage the line.

• Electrical Vehicle Charging Station (EVCS)
  ❖ VEA has installed an EVCS in cooperation with the Governor’s Office of Energy as part of the Nevada Electric Highway.
  ❖ Located at the Eddie’s World gas station in Beatty, NV
  ❖ Tesla also has electric vehicle car charging stations at this location.
Questions?