



**Bear Valley**  
Electric Service, Inc.  
A Subsidiary of American States Water Company

# **2022 Wildfire Mitigation Plan**

## **Grid Design & System Hardening**

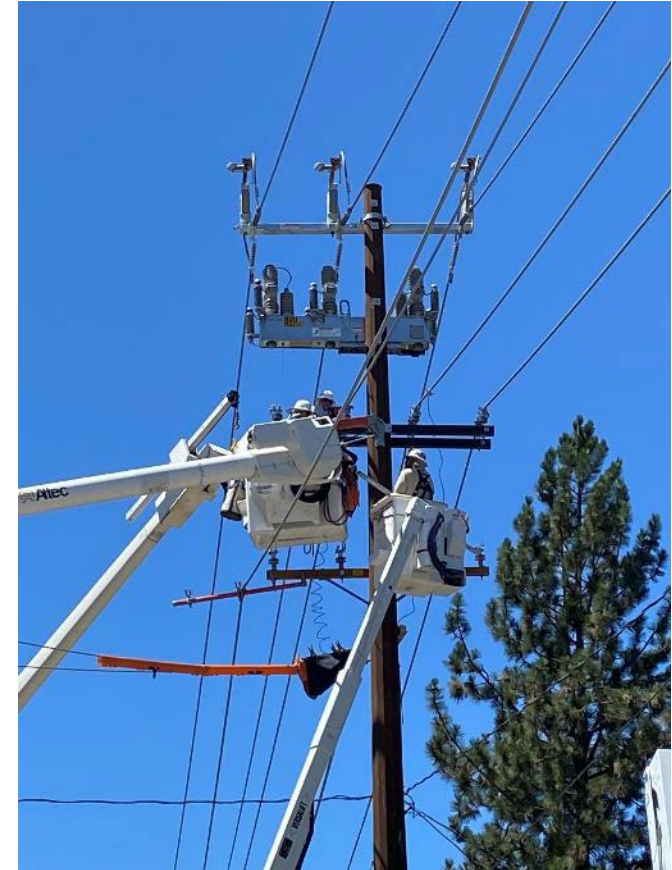
**May 18, 2022**

*Paul Marconi, President & Safety Committee Chairman, BVES, Inc.*

# What have we accomplished?

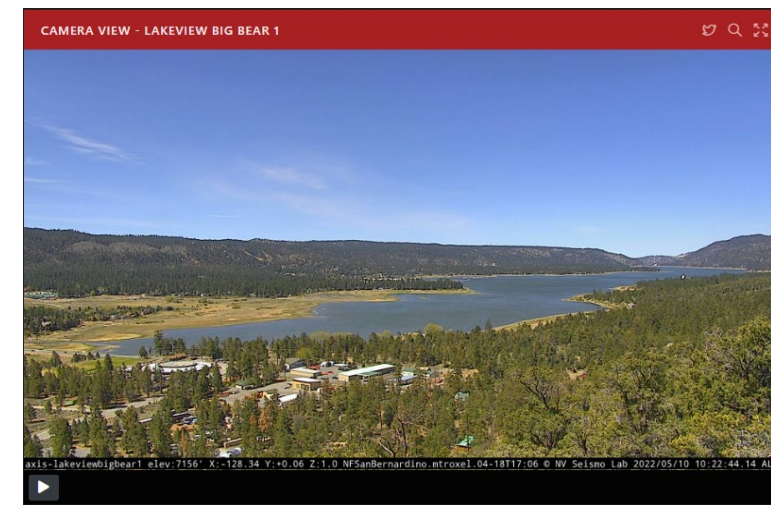
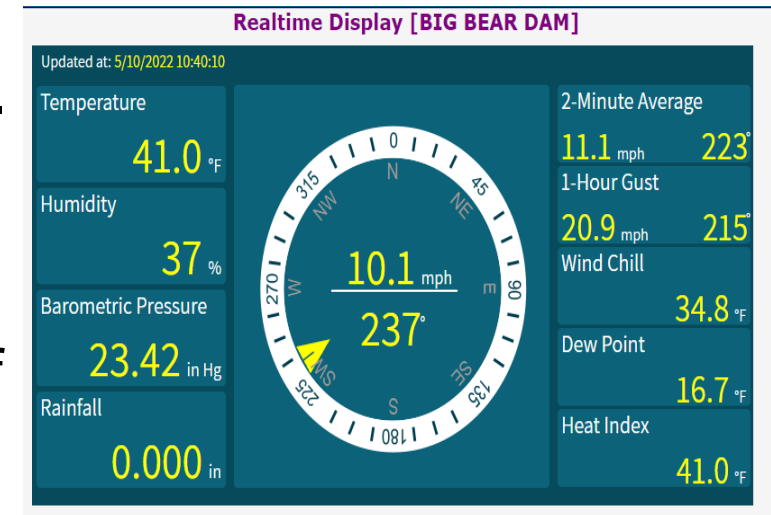
Major Projects Completed & Programs Implemented:

- Technical & Safety Upgrades to Palomino Substation.
- Covered wire pilot program. 394.5 AAAC & 336.4 ACSR cover conductor.
- Implemented Covered wire program: replaced 20 circuit miles as of end of 2021.
- Evacuation Route Pilot Program.
  - Validated wire mesh wrap, fire resistant composite poles, & lightweight steel poles.
- Implemented Route Hardening Program: main evacuation routes to Big Bear Lake will be hardened before 2022 fire season.



# What have we accomplished cont.?

- Remote Monitoring: Weather Stations & Cameras.
  - 20 Weather stations installed,
  - 15 cameras installed at 7 locations in the HD ALERTWildfire Network providing complete coverage of Big Bear Valley.
- Fuse Replacement Project.
  - Eliminated all expulsion (conventional) fuses from the system. 3,114 expulsion fuses were replaced by 2,578 current limiting fuses and 536 electronic fuses.



# 2022 WMP Initiatives & Targets (CAPEX Projects)

Initiative	Target Units	Target
Install Fault Indicators (FIs) Project	# of FIs	50
Covered Conductor Project	Circuit Miles	12.9
Radford Line Replacement Project	Circuit Miles	2.7
	# of Fire Resistant Poles Installed	70
Pole Loading Project	# of Poles Replaced	165
	# of Poles Assessed	225
Tree Attachment Removal Program	# of Tree Attachments Removed	80
Evacuation Route Hardening Project	# of Poles Hardened with Wire Mesh Wrap	412
Grid Automation Project	# of Substations Connected to SCADA Network	3



# Questions?

## Our Values

In pursuing our mission, the board of directors, management and the company's employees are guided by the shared Values presented below:

- Integrity** - Building trust through honest communications and doing what is right
- Teamwork** - Maximizing efficiency through collaboration and individual strengths
- Respect** - Valuing diversity and treating all stakeholders with fairness
- Excellence in Service** - Striving for excellence and quality in everything we do
- Accountability** - Taking ownership of one's actions