



Infrastructure RSF

POTENTIAL PROJECTS

Greenville/Indian Valley — Utility Infrastructure Master Plan [Broadband Improvements, Microgrids/ Electrical, Electric Vehicle (EV) Charging Stations, Greenville Cemetery District Irrigation System & Secondary Fire Flow Protection for Greenville]

Project Goal

To create a holistic and visionary master plan for the infrastructure systems in Greenville and Indian Valley. The infrastructure master plan will look to create resilience to future natural disasters in all public utility systems.

Project Need

Master planning for utility needs within Plumas County has not been done in the past due to the multitude of companies and agencies that operate various utility systems in the County. Within the long-term recovery plan process framework there is an opportunity to take a step forward and develop a small area master plan for opportunities for innovation and resiliency for public utility systems in Greenville and Indian Valley.

Project Description

To have a well functioning and resilient system the needs are to evaluate current systems, identify where and what technology can best fit future needs, and align all utility systems towards a clear and concise goal. The Indian Valley Community Services District will create a master plan for public utility infrastructure. The plan will include determining the remaining capacity within existing public right-of-ways that will allow for future construction of underground utility conduits. The master plan will incorporate the following components:

- Water and Sewer
- Electrical including Microgrid installations

- Broadband Improvements
- Irrigation Systems & Secondary Fire Flow Systems
- Geothermal
- Biomass

The master plan will result in the ambitious goal of becoming “the most resilient rural community in the State.” The master planning process will determine where specific projects can be designated and how the system as a whole will function together.

Project Champion

Indian Valley Community Services District

Partners

- PG&E
- Frontier Communications
- Plumas Sierra Rural Electric Cooperative
- Plumas County
- FEMA, Cal OES

Community Capacity

Start-up funding would be requested from the County's PG&E settlement funds and other grants.

Sustainability & Resiliency

A Utility Infrastructure Master Plan sets provides a clear and focused future based on thoughtfully planned systems — the “conduit to a strong future.”

Challenges

The primary challenge is finding and funding the consultant team.

Cost Estimate

\$500,000

Timeline

1 to 2 years

Action Items

- Secure capital for Master Plan
- Advertise and select Consultant Team
- Develop the Master Plan for Greenville and Indian Valley.
- Develop policies and procedures for the Master Plan to be reviewed and updated on a regular long-term schedule

Potential Resources

- PG&E's Resilience Hubs Grant Program
- California Strategic Growth Council (SGC) - Transformative
- Climate Communities (TCC) Program

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POTENTIAL PROJECTS

Dixie Fire Footprint Roadway Repairs and Needs

Project Goal

To preserve and restore the County's existing investment and restore pavements to pre-fire conditions.

Project Need

A large proportion of the pavements within the incorporated community of Greenville was or will be damaged and/or dug up by debris cleanup, lead-contaminated soils cleanup, PG&E electrical undergrounding, Frontier communications undergrounding and pole line replacement, and repairs and upgrades to Indian Valley Community Services District's water and sewer systems. Similar conditions exist to a lesser extent in smaller communities throughout the Dixie Fire Footprint.

Project Description

Mill and fill fire-damaged pavements in Greenville, Indian Valley, Indian Falls, and Warner Valley. ADA regulations will require about 6-12 new curb ramps in Greenville. Project does not include upgrades to existing curb, gutter or sidewalk. Temporary construction easements and permanent easements needed.

The project will re-establish the existing pavement's condition and increase its remaining useful life to allow for two-way traffic, on-street parking, drainage and snow removal (all necessary for the rebuilding of the residential and commercial uses needed in the community). The project will also assess the current evacuation routes and dead-end roads within the affected communities.

Project Champion

Plumas County Department of Public Works

Partners

- California Governor's Office of Emergency Services (Cal OES)
- California Department of Transportation (Caltrans)

Challenges

FEMA refuses to address heat damage to the overall pavement area, as FEMA will only consider spot locations where cars burned/trees burned/buildings collapsed onto the streets. STIP funding not available until FY2027/2028 at the earliest. The project may postpone other pavement maintenance needs in the County if the STIP is used.

Community Capacity

The State's lot clean up activities and the utility work (non-county) all need to be completed first. Funding needs and availability will be dependent on the pavement conditions after the utility work is completed.

Sustainability & Resiliency

A sustainable community needs a well-functioning road system for all aspects of land use including residential, commercial, and industrial. Evacuation routes and areas within flood zones should be assessed for damage and prioritized to minimize any potential contamination or further degradation into the waterways and reinforce future emergency response.

Action Items

- All Cal OES and DTSC lot cleanup work must be completed first.
- Complete all utility needs in County Roads for the foreseeable future (5 years).
- Update project scope and cost based on pavement conditions.
- Complete CEQA and NEPA as appropriate.

Cost Estimate

\$5 million

Timeline

Over 5 years

Potential Resources

- State Transportation Improvement Program (STIP)
- County Road Funds
- PG&E Settlement

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POTENTIAL PROJECTS

Countywide Broadband and Electrical Power Capacity and Resiliency [Broadband Improvements, Microgrids/Electrical, Electric Vehicle (EV) Charging Stations]

Project Goal

To plan for utility capacity and extending connections in Plumas County.

Project Need

Today's homes and businesses require fast and dependable broadband services and resilient electrical systems to meet residents' current and future needs.

Project Description

Residents desire utility improvements that include faster and more reliable broadband services and sustainable electrical systems in Plumas County. Proposed efforts to improve broadband include:

- Strategic Planning Project (Butte, Glenn, Lassen, Modoc, Plumas, Shasta, Sierra, Siskiyou, Tehama)
- Open Access Public Infrastructure Feasibility Study (identify service gaps, create network designs)

Proposed efforts to improve resilient electrical transmission and power systems include:

- Microgrids, including installations at County-owned facilities
- Electric Vehicle (EV) Charging Stations, including County Board-approved County Ordinance Updates/Checklist per State Law

Project Champion

Plumas County CAO's Office

Partners

- PG&E
- PSREC
- Lassen County
- Frontier Communications
- California Department of Transportation (Caltrans)

Challenges

Some areas are only serviced by a single broadband provider. Public-Private partnerships or code incentives may be necessary to encourage private industry to add EV infrastructure at private businesses.

Community Capacity

Currently improvements for broadband are being implemented throughout the fire footprint to improve service to the underserved community. In addition, providing development incentives for the installation of EV charging stations would ease the burden on local agencies trying to meet state mandates.

Sustainability & Resiliency

Improved broadband services improve communication systems and emergency notification capabilities. Improving resilient power systems enable continued operations during power grid failures.

Cost Estimate

More than \$5 million

Timeline

3 to 5 years

Action Items

- Complete the Strategic Planning Project
- Complete the Open Access Public Infrastructure Feasibility Study
- Coordinate with the Lassen/Plumas Counties Zero Emission Vehicles Feasibility Study (completion in Spring 2024)

Potential Resources

- Middle Mile Broadband Infrastructure Program
- Rural Health Care Program — Healthcare Connect Fund
- Electric Program Investment Charge (EPIC)
- California Electric Vehicle Infrastructure Project (CALEVIP)
- Federal NEVI Program

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