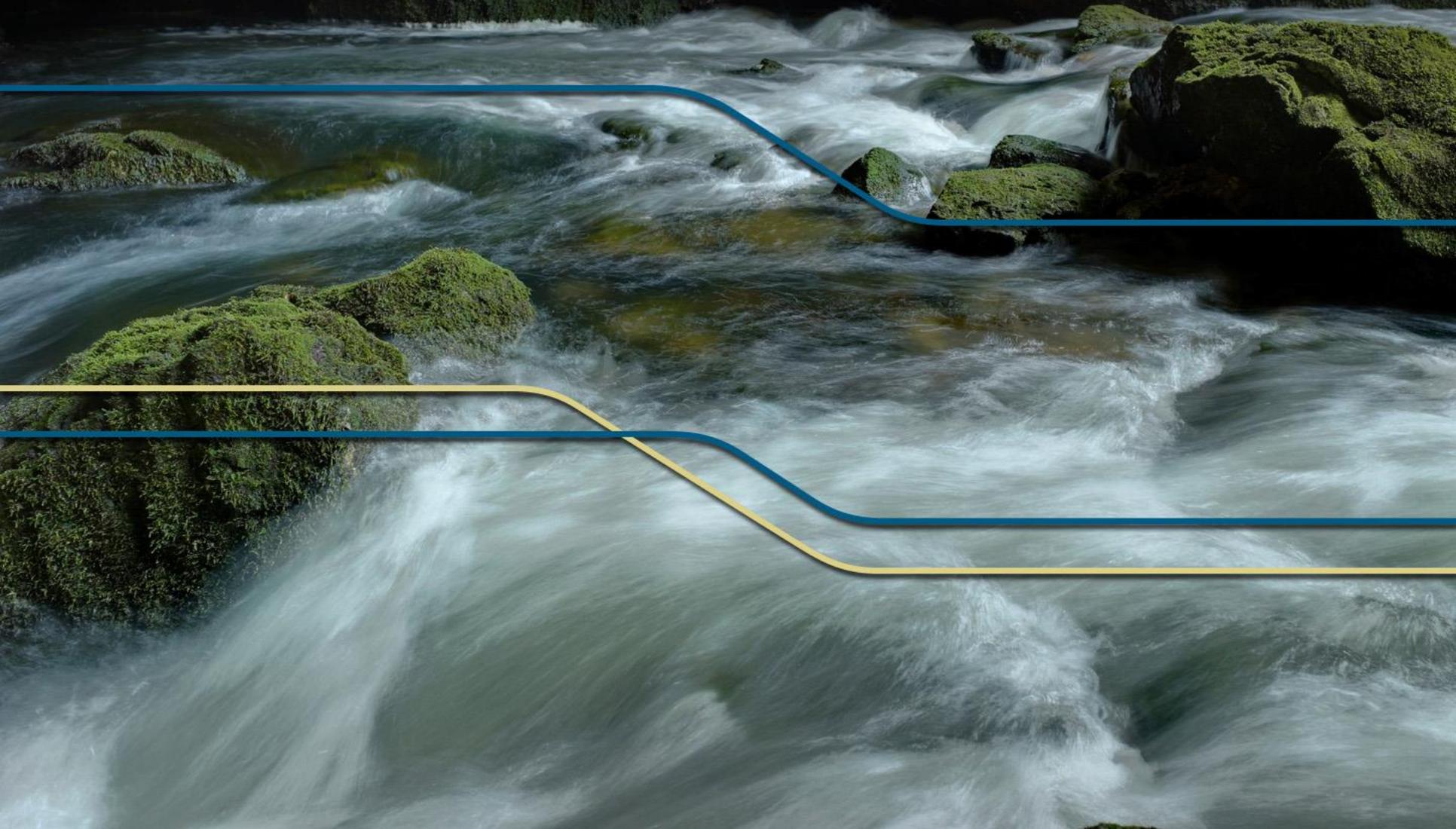
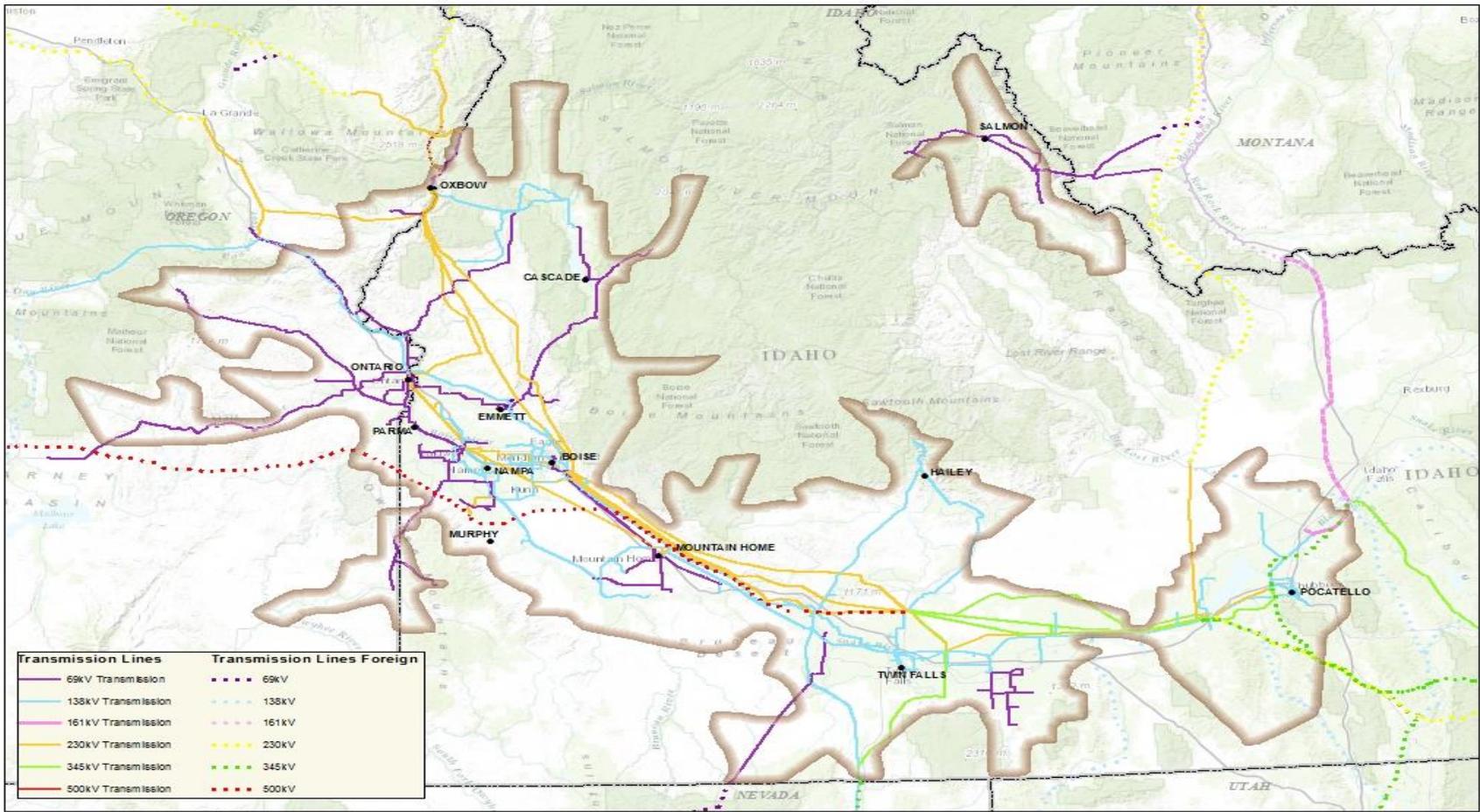


# North Valley Reliability: Second Transmission Line



# Idaho Power Service Area

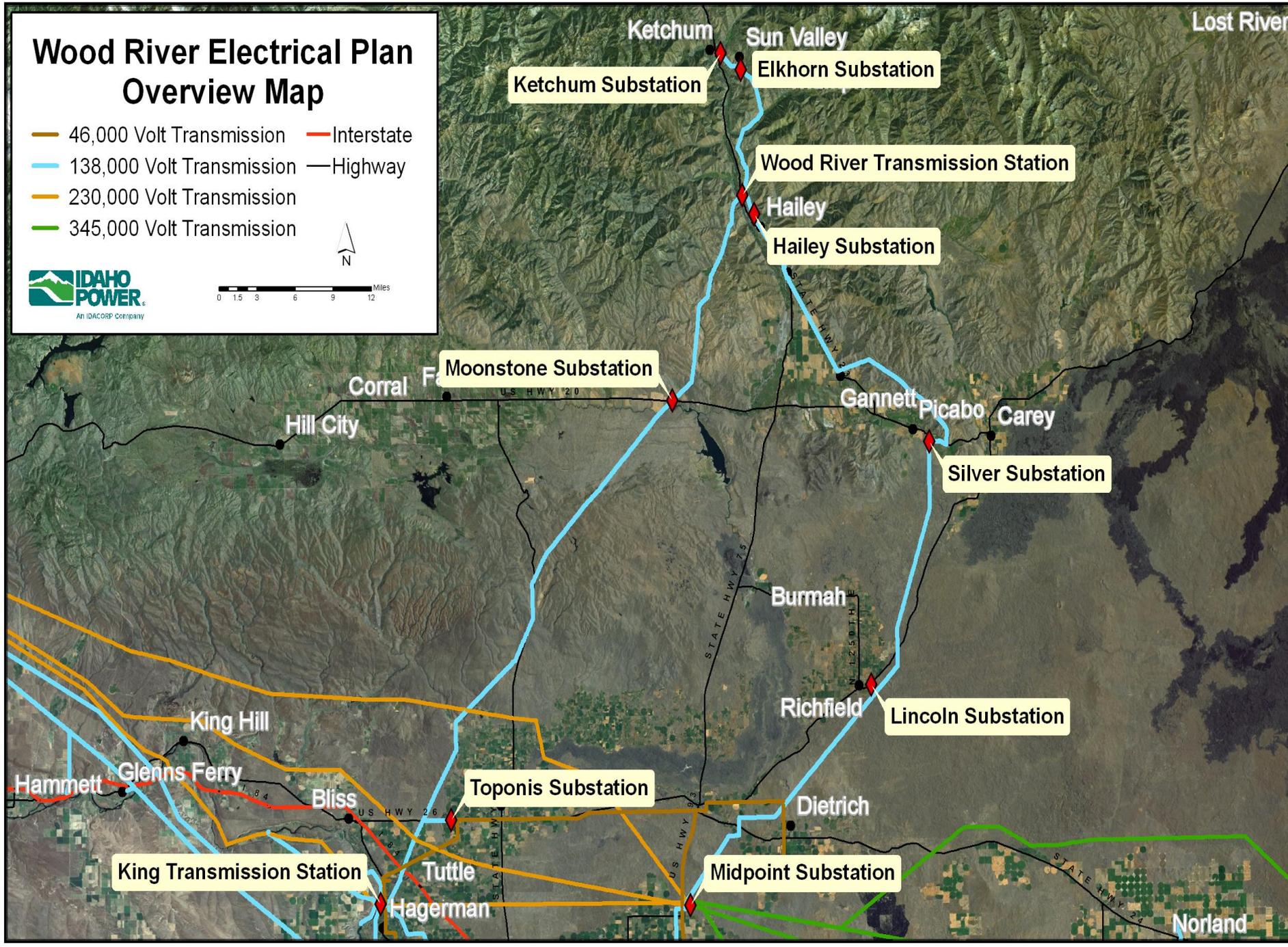
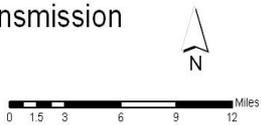


Idaho Power Service Area



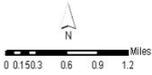
# Wood River Electrical Plan Overview Map

- 46,000 Volt Transmission
- 138,000 Volt Transmission
- 230,000 Volt Transmission
- 345,000 Volt Transmission
- Interstate
- Highway



# Wood River Electrical Plan Hailey North

— 138,000 Volt Transmission — Highway



Ketchum

Sun Valley

Ketchum Substation

Elkhorn Substation

Triumph

Wood River Transmission Station

Hailey Substation

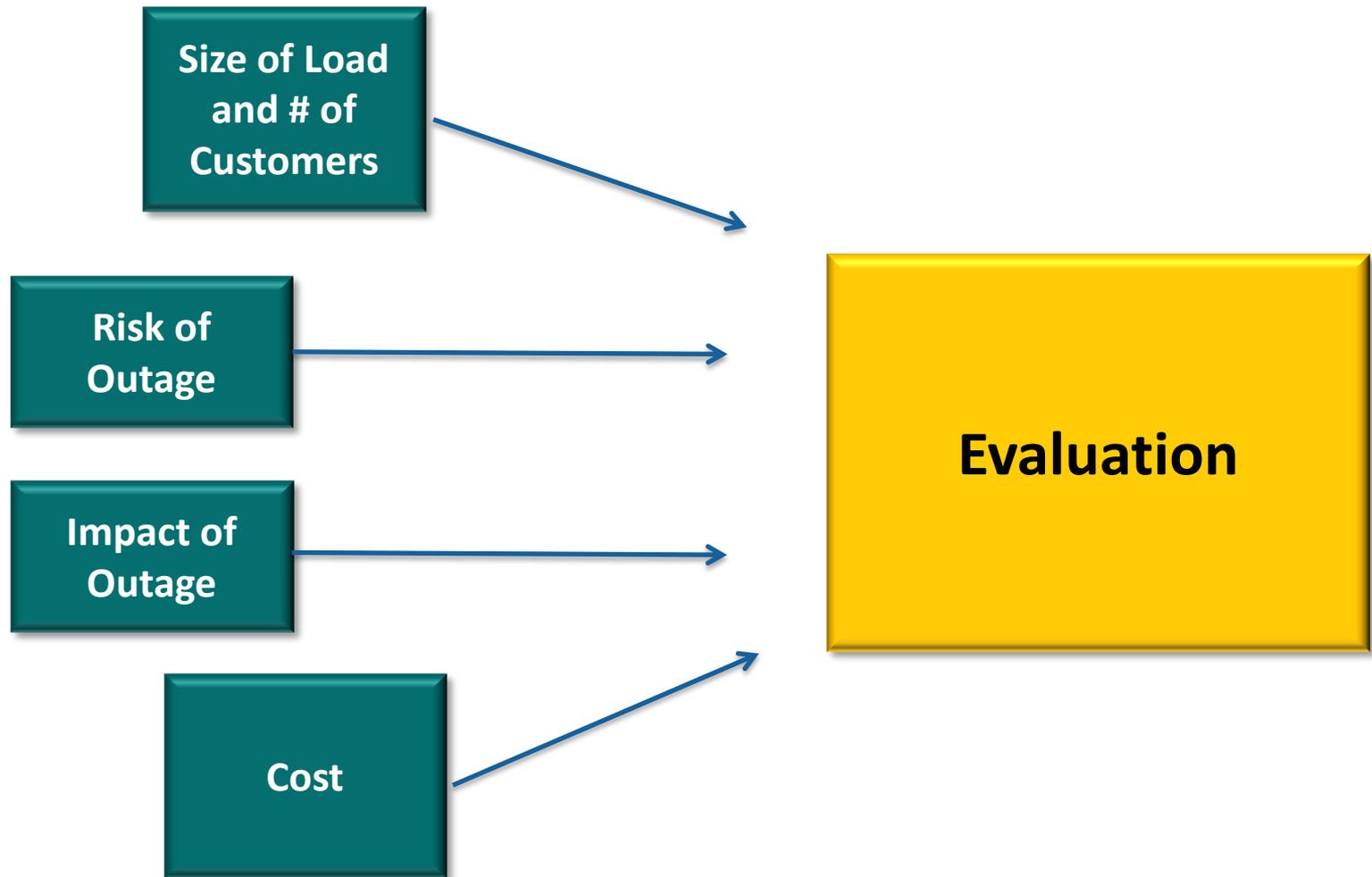




# Why are we here?

- 2007: 19-member Community Advisory Committee (CAC) and Idaho Power recommend moving forward with second line for reliability
- 2009: Christmas Eve power outage (11 hrs 40 min)
- 2014: Idaho Power files for a conditional use permit with appropriate jurisdictions

# Radial Lines



# Step 1: Size of Load and Number of Customers

Substations	Peak Load (MW)	# Customers (Spring 2014)
STAR-EAGLE	65	12,193
Ketchum-Elkhorn	64	9,188
Kuna	23	4,917
Horseshoe Bend	12	4,300



## Step 2: Risk of Outage

### The Balancing Act



# External Causes

- Fire
- Vandalism
- Weather
- Trees
- Animals
- Vehicles



# Age of Line and Past Performance



## Step 3: Impact of Outage

- Difficult terrain (extended outages)
- Safety and Security (cold temperatures, frozen pipes, inability to pump water and gasoline, etc.)
- Economic impact (businesses, tourism, conventions, reputation, etc.)



## Step 4: Cost

### Cost:

- Overhead Project Only (~\$12MM-\$15MM)
- LID Undergrounding (~\$14MM)

Community Benefit: Reliable power at peak energy use



# Additional Considerations

What are other similarly-situated towns doing?

- Vail
- Aspen





# Anticipated Project Timeline

- Receive CUP and LID = 6 Months
- Design and Permitting Work = 18 Months
- Line and Substation Construction = 18 Months

# Next Steps

