



# Western Treasure Valley Electrical Plan

Update 2022



## ***Preferred Options***

The Committee chose preferred locations for four new source substations and the connecting transmission line routes in the Western Treasure Valley.

## ***Preferred Source Substation Locations***

### ***Cairo Source***

The Committee opted to co-locate the Cairo source substation with the existing Cairo distribution substation, South of the city of Ontario, Oregon.

### ***Shell Rock Source***

The Committee opted to locate the Shell Rock source substation east of the city of Emmett, Idaho, south of Black Canyon Reservoir and North of Shellrock road on a parcel owned by Idaho Power.

### ***Garnet Source***

The Committee opted to locate the Garnet source substation south of the city of Middleton, Idaho and east of Middleton Road, on a parcel owned by Idaho Power.

### ***Gem Source***

The Committee opted to co-locate the Gem Source substation with the existing Gem distribution substation, North and East of the city of Marsing, Idaho.

## ***Preferred High-Voltage Transmission Line Routes***

### ***Bowmont Source to Gem Source 230-kV transmission line***

Build a 230-kV transmission line West from the existing Bowmont substation following the existing 69-kV transmission line to Gem substation.

### ***Gem Source to Caldwell Source 230-kV transmission line***

Build a 230-kV transmission line running north along the existing 69-kV transmission line from Gem substation to Huston distribution substation. At Huston substation, follow the existing 69-kV transmission line from Huston to Caldwell until intersection with the existing 138-kV transmission line from Caldwell substation to Vallivue substation. From the intersection, the



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230-kV transmission line will head north and follow the existing 138-kV transmission line to Caldwell source substation.

## **Alternative Source Substation locations**

### *Homedale Source*

The committee identified co-locating a source substation at the existing Homedale distribution substation as an alternative to locating a source substation at the existing Gem substation.

## **Alternative High-Voltage Transmission Line Routes**

The Committee's alternative location is along the existing 138-kV transmission line from Bowmont source substation to Gem source substation. The 230-kV transmission line would head north out of Bowmont substation following the existing 138-kV transmission line to Vallivue substation. At the intersection between the existing 69-kV transmission line from Bowmont substation to Gem substation, the 230-kV transmission line would head east and follow the committee's preferred route to Gem substation.



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## ***Preferred and Alternative Substation Options***

### ***Distribution Substation 1 (Sub 1):***

***Preferred:*** To be located southeast at the intersection of Cemetery Road and Mann Creek Road

***Alternative:*** To be located between Highway 95 and the dirt road directly south of mile marker 92.

### ***Distribution Substation 2 (Sub 2):***

***Preferred:*** To be located southwest at the intersection of Morgan Ave and Clark Blvd.

***Alternative:*** None selected.

### ***Distribution Substation 3 (Sub 3):***

***Preferred:*** To be located northeast at the intersection of Highway 95 and Echo Ave.

***Alternative:*** To be located on the northwest intersection of Highway 95 and Highway 20/26.

### ***Distribution Substation 4 (Sub 4):***

***Preferred:*** To be located southeast at the intersection of Highway 52 and Star Lane

***Alternative:*** To be located in a gravel pit along Highway 52, across the street from the Do It Best hardware store.

### ***Distribution Substation 5 (Sub 5):***

***Preferred:*** To be located southeast at the intersection of Old Highway 30 and Oasis Road.

***Alternative:*** None selected.

### ***Distribution substation 6 (Sub 6):***

***Preferred:*** To be located on the southwest at the intersection of Wagner Road and Galloway Road on a parcel owned by Idaho Power.

***Alternative:*** To be located at other areas of the same intersection chosen as the preferred location, for example, northeast intersection or northwest.



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## ***Distribution Substation 7 (Sub 7)***

***Preferred:*** To be located on the southeast corner of Cemetery Rd and Galloway Road.

***Alternative:*** To be located at other corresponding areas of this intersection, for example, the northeast corner.

## ***Distribution Substation 8 (Sub 8)***

***Preferred:*** To be located northeast at the intersection of Northview Road and Lansing Road.

***Alternative:*** To be located southeast at the intersection of Mack Attack Road and Lansing Road.

## ***Distribution Substation 9 (Sub 9)***

***Preferred:*** To be located southeast at the intersection of Kingsbury Rd and Purple Sage Road.

***Alternative:*** To be located northeast at the intersection of Lanktree Ln and Kingsbury Road.

## ***Distribution Substation 10 (Sub 10)***

***Preferred:*** To be located southwest at the intersection of Penny Lane and Batt Corner Road.

***Alternative:*** To be located northwest of the intersection of Fern Ln and Highway 95.

## ***Distribution Substation 11 (Sub 11)***

***Preferred:*** To be located southeast at the intersection of Friends Road and Lower Pleasant Ridge Road.

***Alternative:*** None selected.

## ***Distribution Substation 13 (Sub 13)***

***Preferred:*** To be located east of Middleton Road and north of Lincoln Road in a parcel of land owned by Idaho Power. To be co-located with the Garnet source substation.

***Alternative:*** None selected.

## ***Distribution Substation 14 (Sub 14)***

***Preferred:*** To be located north of Highway 20/26, and northeast at the intersection of 11<sup>th</sup> Ave extension North and an irrigation canal on a parcel owned by Idaho Power.

***Alternative:*** None selected.





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## ***Distribution Substation 15 (Sub 15)***

***Preferred:*** To be located northwest at the intersection of Dobbin Lane of Highway 95.

***Alternative:*** None selected.

## ***Distribution Substation 16 (Sub 16)***

***Preferred:*** To be located southeast at the intersection of Midway Road and Flamingo Ave.

***Alternative:*** To be located along Midway Road north of Orchard Road and south of the Wilson Drain.

## ***Distribution Substation 17 (Sub 17)***

***Preferred:*** To be located along Robinson Road south of the Schott lateral.

***Alternative:*** To be located northeast at the intersection of Joe Lane and Robinson Blvd.

## ***Distribution Substation 18 (Sub 18)***

***Preferred:*** To be located north of Lake Shore drive, and West of 12<sup>th</sup> Ave. at a parcel of land owned by Idaho Power.

***Alternative:*** To be located northeast at the intersection of 12<sup>th</sup> Ave. and Ruth Lane

## ***Distribution Substation 19 (Sub 19)***

***Preferred:*** To be located southeast at the intersection of McDermott Road and Hubbard Road.

***Alternative:*** To be located northeast at the intersection of Robinson Road and Deer Flat Road.