



## **CITY OF GLENDALE, CALIFORNIA REPORT TO THE CITY COUNCIL**

### **AGENDA ITEM**

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Report: Adopt the Specification for Feeder Reconstruction for 12kV Operation Time and Equipment for Glendale Water and Power

1. Resolution adopting Specification No. 3875 for feeder reconstruction for 12kV operation time and equipment for Glendale Water and Power, and directing the City Clerk to advertise for bids.

### **COUNCIL ACTION**

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**Item Type:** Consent Calendar

**Approved for** July 20, 2021 **calendar**

### **ADMINISTRATIVE ACTION**

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**Submitted by:**

Mark Young, General Manager - Glendale Water and Power

**Prepared by:**

Daniel Scorza, P. E., Chief Assistant General Manager - Electric

**Reviewed by:**

Michele Flynn, Director of Finance

Michael J. Garcia, City Attorney

**Approved by:**

Roubik R. Golanian, P.E., City Manager

## **RECOMMENDATION**

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Glendale Water and Power (GWP) staff respectfully recommends that the City Council adopt the Specifications for Feeder Reconstruction for 12kV Operation Time and Equipment for GWP, and direct the City Clerk to advertise for bids.

## **BACKGROUND/ANALYSIS**

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The City of Glendale prides itself on the quality of services it provides to the community. GWP serves over 88,000 electrical customers within the Glendale city limits. Its annual retail electrical load obligation is approximately 1.45 million MWh and its peak load of 346 MW occurred on September 1, 2017.

GWP's transmission system is comprised of 56 miles of 34.5 kV and 69 kV lines, and its distribution system includes 503 miles of 4 kV and 12 kV lines supported by 14 substations. GWP is a radial feed from the LADWP BA with an intertie at the Air Way Receiving Station, a 230/69 kV substation operated jointly by GWP and LADWP. GWP also maintains a connection with Burbank Water and Power to receive energy from the Magnolia Power Plant.

GWP has recognized and embraced the modern electric utility industry's shift towards smart grid enabled technology and distribution system automation. In addition, GWP is increasingly implementing the use of renewable and carbon-free energy production strategies to meet its 100% clean energy goal by 2045, while continuing to prioritize safety, reliability, and the impact these efforts have on customer pricing.

In an effort to maintain its infrastructure and continue providing safe and reliable service to its customers, GWP's master plan includes the conversion of its 4kV distribution feeders to 12kV. Replacement of aging and inadequate infrastructure is a critical step in improving the reliability of the City's electrical system. Transmitting power at the higher 12kV voltage increases efficiency, minimizes power losses, and reduces the likelihood of outages caused by instant contact of the vegetation. In addition, as more renewable sources of localized electrical generation come online, the demand for high voltage transmission will continue to grow. The goal of the 12kV Feeder Reconstruction Project is to upgrade up to four feeders per year and is a part of GWP's ten-year Capital Improvement Program plan.

## **FISCAL IMPACT**

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Funding for FY 2021-22 is available in the Electric Depreciation Fund, GWP, 4kV to 12kV Feeder Upgrade Project, OTHER-F3600-5830. Future funding will be requested through each year's annual budget process.

<b>Account Description</b>	<b>Account No.</b>	<b>Approved Funding</b>
Electric Depreciation Fund, GWP, 4kV to 12kV Feeder Upgrade Program (OTHER- F3600-5830)	53300-5830-GWP-0020- P0000-T0000-F3600	FY21-22: \$3,000,000
<b>Account Description</b>	<b>Account No.</b>	<b>Estimated Funding</b>
Electric Depreciation Fund, GWP, 4kV to 12kV Feeder Upgrade Program (OTHER- F3600-5830)	53300-5830-GWP-0020- P0000-T0000-F3600	FY22-23: \$4,000,000 FY23-24: \$5,000,000
Total Funding		\$12,000,000

### **ALTERNATIVES**

Alternative 1: The City Council may elect to adopt Specification No. 3875 and direct the City Clerk to advertise for bids.

Alternative 2: The City Council may elect not to adopt Specification No. 3875.

Alternative 3: The City Council may consider any other alternative not proposed by staff.

### **CAMPAIGN DISCLOSURE**

None applicable.

### **EXHIBIT(S)**

None applicable.