



Pasadena Water and Power

**AUTHORIZE THE CITY MANAGER TO ENTER  
INTO A CONTRACT WITH ANIXTER FOR  
PURCHASE OF CABLES NECESSARY FOR  
REPLACEMENT OF THE POWER  
SUBTRANSMISSION LINES BETWEEN SANTA  
ANITA AND GLENARM RECEIVING STATIONS**

**July 14, 2025**

**Item 19**





# Background

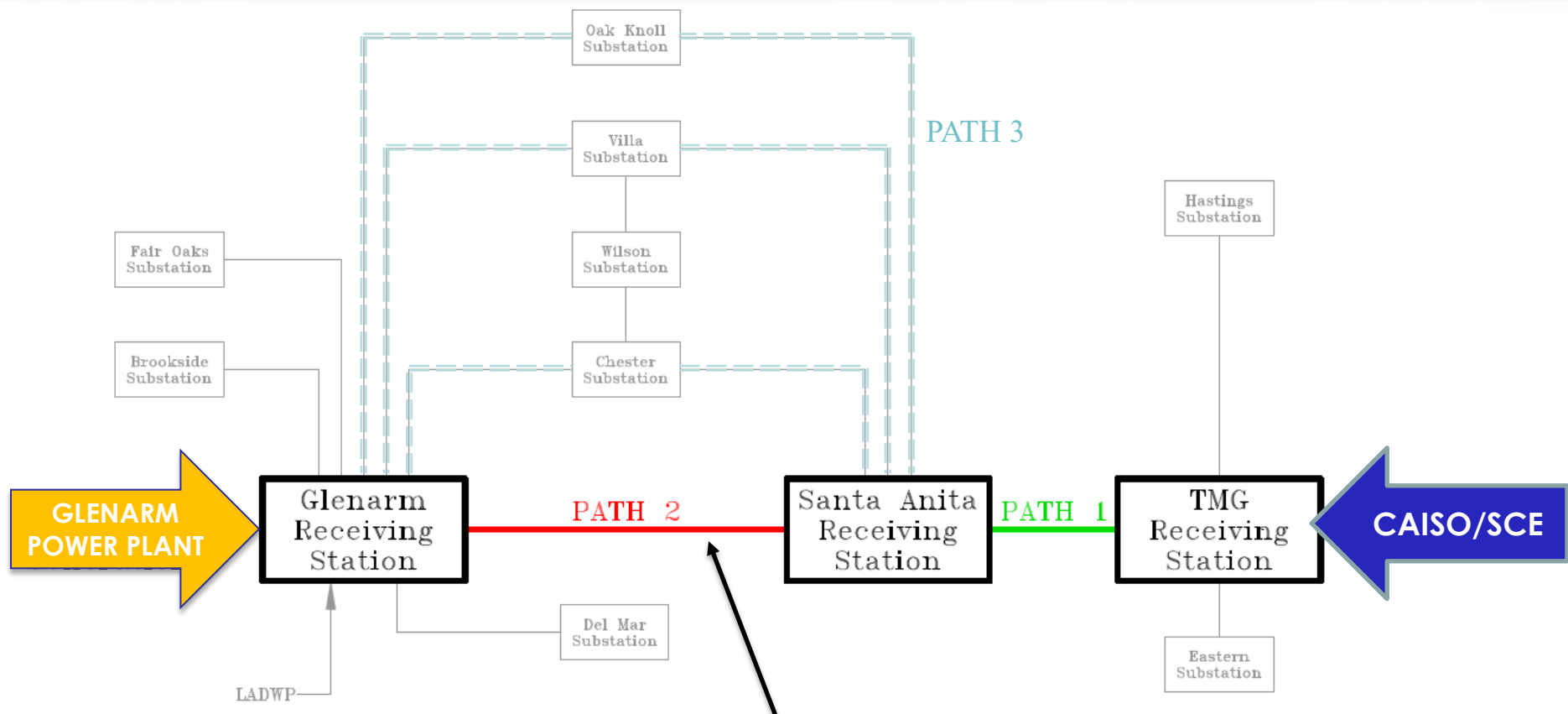
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- PWP imports most of its electricity through a 220kV transmission interconnection with California Independent System Operator, via Southern California Edison at TMG Receiving Station
- Power delivered to TMG is then transferred within the service territory utilizing a 34.5kV subtransmission system



# Subtransmission System

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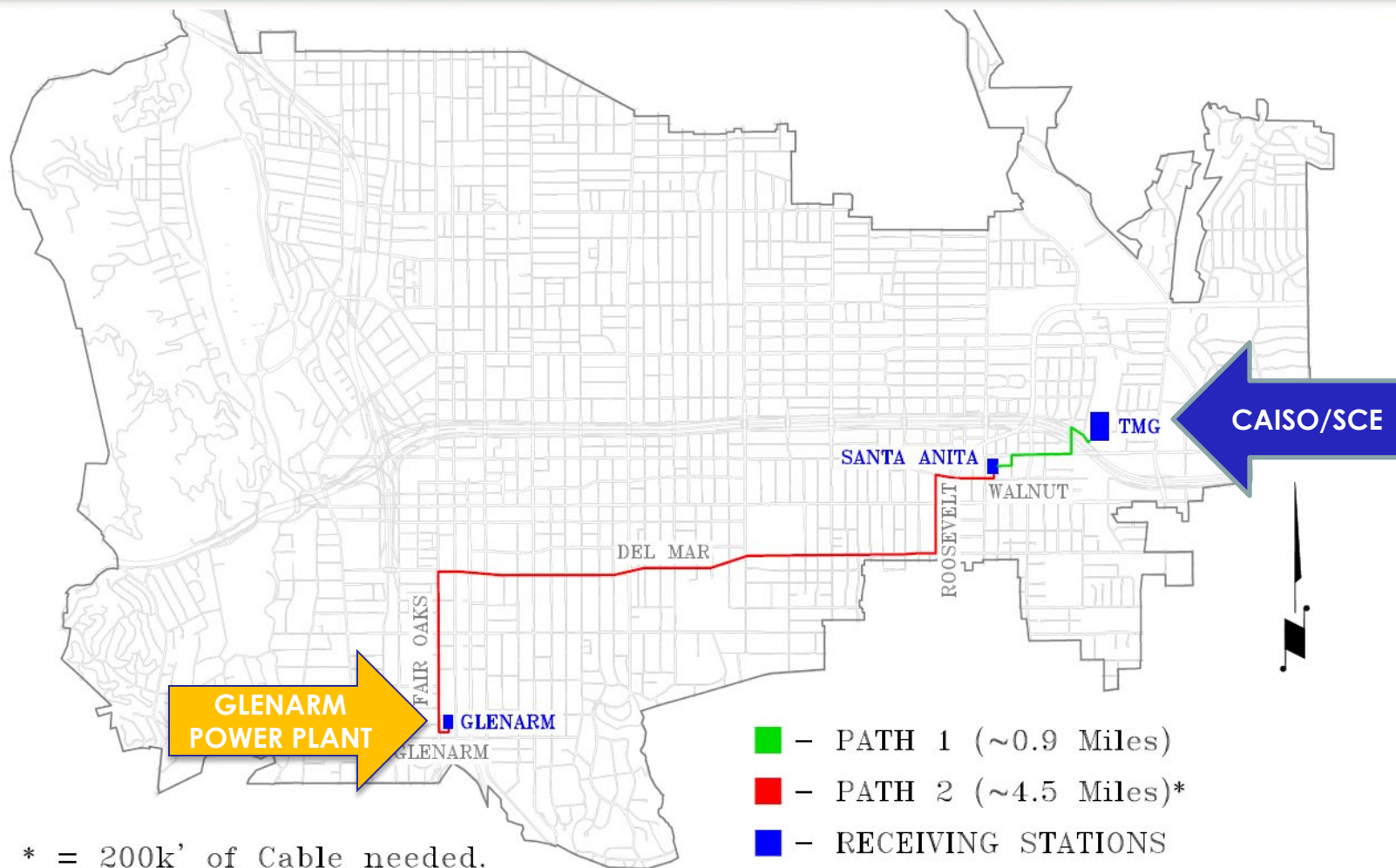
Network of cables that move power from the east side of Pasadena to the west. Approximately 54% of the total system load passes through this path

PASADENA



# Subtransmission System – Aerial View

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# Background

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- Power Delivery Master Plan has identified the need to replace and upgrade the 34.5kV subtransmission lines
  - > PDMP was approved by the City Council in June 2022
- Path 2 subtransmission lines connecting Santa Anita and Glenarm Receiving Stations are a critical component of this system and are in need of replacement
- PWP plans to start replacing Path 2 subtransmission line cables in October 2026 and complete the project before summer 2027



# Background

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- Other supporting subtransmission lines, referred to as “Path 3”, also needed to be upgraded
  - > Several Path 3 subtransmission lines were replaced over past four years
  - > Remaining replacements expected to be completed prior to starting the Path 2 replacement project
- PWP has also undertaken major repairs and reinforcements of the underground vaults that house the Path 2 cables. This work will also be completed ahead of the new cable installation



# Sample Underground Vault Condition

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# Sample of a Reinforced Underground Vault

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# Background

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- To complete the Path 2 cable replacement project, PWP must de-energize the associated subtransmission lines to safely remove and replace the aging cables
  - > Work estimated to take approximately six months
  - > Power import capacity at TMG will be reduced, requiring increased reliance on internal generation resources
- **Availability and reliability of internal generation will be vital throughout the duration of the project**



# Background

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- Recommended contract award to procure necessary replacement cables is the first step in implementing this critical infrastructure project
- Another specification is currently being prepared to support the procurement of a construction contractor for the cable replacement project



# Competitive Bidding Process

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- On March 25, 2025, a Notice Inviting Bids was published on OpenGov
- A total of 27 vendors downloaded the Specifications, one from a local firm
- Two bids were received by the bid due date, no bids received from a local firm
- Bid Results:

Bidder Name	Office Location	Bid Amount
<b>Anixter, Inc.</b>	<b>Santa Fe Springs, CA</b>	<b>\$37,228,772</b>
CME Wire and Cable, Inc.	Suwanee, GA	\$41,024,518



# Recommendation

## Pasadena Water and Power

- Award contract to lowest and best bid dated April 17, 2025, submitted by Anixter, Inc. in response to the project plans and specifications for Path Two Cable Replacement: 1250 KCMIL Compact CU, 35kV Flat Strap Triplex Cable, authorize the City Manager to enter into a contract for up to two years for a grand total amount not-to-exceed \$40,952,000, which includes:
  - > Base contract amount of \$37,229,000 for two years
  - > Contingency of \$3,723,000 to provide for any necessary change orders
    - Cost fluctuation due to market condition and federal tariffs



# Fiscal Impact

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- The total cost of this contract including contingency is \$40,952,000
- Funding for this action will be addressed by the utilization of existing and future appropriations in various CIP's including the Subtransmission Path 2 Upgrade (03282) CIP budget, and Power Operating Fund (401)
- It is anticipated that \$40,952,000 of the costs will be expended in FY 2027
- Future costs will be budgeted as part of the department's capital budgets
- There is no impact to the General Fund