MIDTOWN SUBSTATION UPDATE

PRESENTED BY:

LeeRoy Perez
Director, Substation & Transmission Engineering

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Informational Update
OBJECTIVES & TAKEAWAYS

• PRESENT REVISED LAYOUT BASED ON COMMUNITY FEEDBACK
• PROVIDE PROJECT RECOMMENDATION
AGENDA

• STRATEGIC SITE LOCATION
• OPTIMIZED SUBSTATION LAYOUT
• NEXT STEPS
MIDTOWN SUBSTATION
STRATEGIC SITE

- Address: 2215 Belknap Place
- Property Size: ~ 2.1 acres
- A strategic purchase option exists on this property

No displacement of residents or businesses
COMMUNITY FEEDBACK

OPTIMIZED LAYOUT

In collaboration with the community, Councilman Treviño, and HEB

- HEB parking lot serves as buffer along Belknap Place
- Move substation equipment further from residents – spatial buffer
- Additional community outreach efforts continue

Legend:
- Strategic property boundary
- Proposed substation area
- Proposed HEB parking lot area
RECOMMENDATION

- March 2020 Board approval of project & property purchase
  - Project requires the purchasing of the strategic site
  - Continue working with HEB to implement the optimized layout (requires property swap)
  - Optimized layout addresses customer feedback
  - Continue working with & updating the community

Project team is proceeding with the Board approval process
NEXT STEPS
APPROVAL PROCESS

• Board Public Input Session  
  February 4, 2020
• Board consideration of project approval & property purchase  
  March 30, 2020

An update to the CAC will be provided on January 15, 2020
Thank You
## GLOSSARY / DEFINITIONS

<table>
<thead>
<tr>
<th>Acronym or Word</th>
<th>Definition</th>
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<tbody>
<tr>
<td>Citizens Advisory Committee (CAC)</td>
<td>The 15-member Citizens Advisory Committee provides a channel for two-way communication between the community and the utility. City of San Antonio council members nominate 10 of the 15 members, one representing each district. The other five members are at-large candidates interviewed and nominated by the CAC from those submitting applications and resumes. The CPS Energy Board of Trustees appoints all members to the committee. Members can serve up to three two-year terms. The CAC meets monthly with the primary goal of providing judicious advice from a customer perspective on utility-related projects and programs.</td>
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<tr>
<td>Distribution Line</td>
<td>A distribution line carries electricity from the transmission system to the end users (customers)</td>
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<td>Substation</td>
<td>Steps-down the 138,000 transmission voltage (138 kV) to 34,500 (34.5 kV) &amp; 13,800 (13.8 kV) distribution voltages to distribute to customers.</td>
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<tr>
<td>Transmission Line</td>
<td>A three phase system of conductors that conduct electric power between power plants, switchyards, and substations. Transmission voltages are higher to reduce line losses when transmitting power over long distances.</td>
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MIDTOWN SUBSTATION

PROJECT NEED

- Serve Midtown & North Central regional areas - identified in COSA’s SA Tomorrow plan
- Increase capacity in the northern downtown area to support residential and commercial growth
- Strengthen reliability
- Target date: Jan 2023
Study Area

- Boundary (~ 1.6 square miles)
- 6 potential substation sites

Major Land Constraints

- Habitable structures
  - Displacing of residents & businesses
GOVERNANCE STRUCTURE

CPS Energy Board of Trustees

Board Operations Oversight Committee

President & CEO and Executive Committee

Working Committee

CAC

Project Team

Board

- Provides input & approves project

CEO & Chiefs level provides oversight

VPs & Sr. Executives level - provides ongoing review of R&S process

Leads R&S process

CPS Energy

Project Team will meet with Committees at different stages of the project for oversight & guidance

Provides input to team & support of project to Board
PUBLIC INVOLVEMENT

FEEDBACK

• Input received:
  o Electric & Magnetic Fields (EMF)  o Radio interference
  o Property values & aesthetics  o Spatial buffer
  o Flooding  o Vegetative wall
  o Traffic  o Alternative sites
  o Noise  o Shifting site onto neighboring property
  o Lighting

Additional outreach efforts – Monte Vista Terrace neighborhood association & District 1 Councilman Roberto Treviño
Board Input Session scheduled for February 4, 2020
SUBSTATION DESIGN
STANDARD VS COMPACT (GIS)

Standard Air-Insulated Substation (AIS)

Anticipated compact Gas-Insulated Substation (GIS) design for Midtown