Transportation Department

Streetlight Repair Update

Active Transportation & Infrastructure Committee

June 21, 2023
Streetlight Update

• Background
• Personnel
• Budget
• Current Caseload
• Progress
• Goals & Next Steps
Background

- **60,000+** streetlights and other lights (parks, fields, parking lots, etc.) maintained by Street Division
- **50+** outdated Series Circuits impacting close to **2,000 streetlights**
- **Dozens** of different lighting standards and styles from MADs, BIDs, and Special Lighting districts
- Increasing inventory of new streetlights and changing technologies
- Other work causing damage to infrastructure resulting in outages
Personnel

18.00 Electricians  8.00 Utility Workers  1.00 Equipment Operator

Maintaining 60,000+ Streetlights Citywide
WHAT'S WRONG WITH THE STREETLIGHT?

1. OVERHEAD UTILITY
   Has the power source changed from overhead to underground?

2. COMPONENT
   Does it need a new light fixture?

3. WIRING
   Does the wiring in the pole need to be repaired or replaced?

4. POWER SUPPLY
   Where is the power source and does SDGE need to make repairs?

5. LIGHT POLE
   Is there damage to the pole?

6. UNDERGROUND CONDUIT
   Is there an issue in the conduit that connects the light to other lights or to the power source?

HOW YOU CAN HELP

1. Report streetlight outage locations using the City of San Diego’s Get it Done app (sandiego.gov/get-it-done).
2. Be specific! Provide the light's exact location and the issue, if visible (i.e., light bulb out, pole knocked down, damage to the pole).
3. Don’t plant vegetation or cover up streetlight infrastructure in your yard, so that City crews can find and fix the problem quickly.
4. Always call Underground Service Alert at 811 before you dig (call811.com).
Budget

Repair & Maintenance

• **Senior Electrical Engineer** added in FY2024

• **$2.6M** streetlight installation funding in FY2023

• **$2.3M** in maintenance and repair funding for contractual services in FY2024

Series Circuit Upgrades

• **$1M** funded in FY2023

• **$3.5M** in Federal Earmarks awarded in beach areas and Logan Heights
### Current Caseload

- **Current streetlight repair backlog:** 6,000+ cases
- **7,000+ cases** expected by the end of FY2023
- **5,000 cases** to be closed in FY2023 with current resources

<table>
<thead>
<tr>
<th>Year</th>
<th>New</th>
<th>Closed</th>
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<tbody>
<tr>
<td>FY2021</td>
<td>2,882</td>
<td>2,736</td>
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<tr>
<td>FY2022</td>
<td>5,294</td>
<td>5,278</td>
</tr>
<tr>
<td>FY2023</td>
<td>4,940</td>
<td>3,635</td>
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**Note:** The chart above shows the new and closed cases for the years FY2021, FY2022, and FY2023.
Progress

• **16 of 18** Electrician positions filled
• **2 teams** using new prioritization and planning strategy
• Deploying **50** solar lights in areas with complex or delayed repairs (e.g. City Heights, Midway, Logan Heights)
• Installed over **50** tamper proof handhole covers and will double this over next 2 months with contractual work in downtown area
• Awarded contract to repair **600** streetlights in downtown, to be completed in July 2023
Progress – Downtown Streetlight Repairs

AREA 2, ~SN’s 125
Schedule: 6/27 – 7/17

AREA 3, ~SN’s 125
Schedule: 7/18 – 7/28

AREA 1, ~SN’s 150
Schedule: 5/31 – 6/26

AREA 4, ~SN’s 200
Schedule: 7/31 – 8/18
Progress – Downtown Streetlight Repairs

Downtown Streetlight Repairs

• Streetlights restored **306**

• Areas In Progress:
  • Area 1: 90% Completed
  • Area 2: 25% Completed

• Repairs made:
  • Fuses
  • Fuse Holders
  • Photocells
  • Damaged Wiring
  • Missing Base Covers

• Avg. cost of repairs: **$715** per streetlight
Citywide Streetlight Repair Prioritization Process

- Current Backlog: **6,100+ Streetlight Repairs**
- Goal: Reduce backlog as much as possible with additional funding. Every district will be able to benefit from contractual services for streetlight maintenance and repair.
- Next Steps: Streetlight Selection Process based on:
  - Lessons from Downtown Streetlight Maintenance Project
  - Historical Cost to Repair
  - Priority
  - Safety Areas of Concern

Streetlights – Additional FY24 Funding: $2.3M
Streetlights – Repair Selection Process

Citywide Streetlight Repair Backlog by Priority

Streetlight Safety Priority Score Criteria:
- Crime rate
- Road usage
- Block outage
- Proximity to school or park
- Collisions
- Age of notification
- Liability claims
- Historic service levels
- Communities of Concern
Streetlights – Repair Selection Process

Citywide Streetlight Repair Backlog

- High Priority
- Medium Priority
- Low Priority

DENSITY OF OUTAGES

Citywide Safety Areas of Concern

- High Safety Concern
- Medium Safety Concern
- Low Safety Concern
Goals & Next Steps

• Procure additional **50 solar lights** in FY2024 for temporary usage

• Continue installing **tamper proof covers** on as-needed basis

• Contract out another $2.3M for an estimated **2,100 streetlight repairs** in FY2024

• Continue to fund **2 Series Circuit Replacement** CIP projects annually
Questions?