



City of Arts & Innovation

City Council Memorandum

TO: HONORABLE MAYOR AND CITY COUNCIL **DATE: FEBRUARY 5, 2019**
FROM: PUBLIC UTILITIES DEPARTMENT **WARDS: ALL**
SUBJECT: STREET LIGHT PROGRAM AND POLICIES UPDATE AND DESIGN GUIDE

ISSUE:

Adopt the updated Street Light Program and Policies Update and Design Guide.

RECOMMENDATIONS:

That the City Council:

1. Adopt the Street Light Program and Policies Update; and
2. Adopt the updated Street Light Design Guide.

BOARD RECOMMENDATION:

On December 10, 2018, the Board of Public Utilities unanimously approved, with 8 members present, and recommended that the City Council adopt the Street Light Program and Policies Update and Design Guide.

LEGISLATIVE HISTORY:

On November 13, 2018, the City Council adopted Ordinance O-7447 replacing Title 19 Chapter 19.556, Lighting, in its entirety to re-organize, clarify, and update existing regulations to comply with State laws, technological advancements, and reduce night-sky light pollution to comply with 2008 Settlement Agreement with Friends of Riverside's Hills.

BACKGROUND:

The City Council adopted Illuminating Engineering Society (IES) as the design guide for street lighting systems at their meeting held on January 26, 1982. The City Council also adopted Resolution No. 17953 that reaffirmed this determination and adopted the Street Lighting Functions Report and Policy Recommendations in Board Policy No. 92-1 on March 17, 1992.

On September 6, 2016, the City Council approved the Citywide Street Light LED (Light Emitting Diode) Conversion Program, which will convert all public street lights from high-pressure sodium

(HPS) street lights to the more efficient LED street lights. LED streetlights provide better light quality and safety, energy efficiency and cost savings, and reduce greenhouse gas emissions.

DISCUSSION:

Although street lighting systems are exempt from the Zoning Code, updates to the Zoning Code (Chapter 19.556 – Lighting) is an item identified in the Scope of Work for the Citywide Street Light LED Conversion project. This is in part because LED lighting and mitigating over-bright development reduces energy consumption and thereby reduces the amount of energy RPU needs to produce or purchase. Another item in the Scope of Work included reviewing and updating the existing Street Light Program and Policies Update and Design Guide and related standards to improve energy efficiency and to reduce light trespass, sky glow and light pollution, while achieving safe lighting levels on roadways and intersections.

The updated Street Light Design Guide has been expanded from a single reference to IES standards in R-17953 to refer to specific IES Recommended Practices (such as RP-8 Roadway Lighting) and Design Guides (such as DG-21 Residential Street Lighting). Specific design criteria to be applied have been identified for each type of roadway identified in the 2025 General Plan Circulation and Community Mobility Element. Typical designs for each type of roadway and intersection are also included. Each design element incorporates the recommendations of the 2016 Report of the Council on Science and Public Health. The proposed Street Light Design Guide has been drafted and reviewed with the assistance of James Benya, PE of Benya Burnett Consultancy as part of a Professional Services Agreement with the Public Utilities Department (RPU).

In addition to the Design Guide, is an update to the existing Street Lighting Functions Report and Policy Recommendations approved by City Council on March 17, 1992. The Street Lighting Program and Policy Update is an overall presentation of roadway lighting principles and practices for the City. The purpose of this report is to provide updated information on the status of the City's street light system, policies, and procedures. These updates were prepared by RPU and reviewed by the Public Works, Parks, Recreation & Community Services, and Police Departments, as well as, the City Attorney's and City Manager's Offices.

FISCAL IMPACT:

There is no fiscal impact associated with this report.

Prepared by: Todd Corbin, Utilities General Manager
Certified as to
availability of funds: Edward Enriquez, Chief Financial Officer/City Treasurer
Approved by: Al Zelinka, FAICP, City Manager
Approved as to form: Gary G. Geuss, City Attorney

Attachments:

1. Street Light Program and Policy Update
2. Street Light Design Guide
3. Board of Public Utilities Minutes for December 10, 2018

4. O-7447 an Ordinance of the City of Riverside, California, Replacing Title 19 Chapter 19.556, Lighting, In Its Entirety
5. R-17953
6. Presentation