



Street Lighting Review

November 23, 2021

TEUC Meeting

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BED Street Lighting Policy

- BED is tasked by the Burlington City Council with the responsibility of lighting the streets and sidewalks of accepted city streets of Burlington.
- The BED Street Lighting Policy was originally issued in 2014, and revisions were made in 2017 and 2020.
- As part of its Street Lighting Policy, BED has adopted the Illuminating Engineering Society (IES) recommendations for lighting levels defined in the Roadway Lighting Design Handbook, RP-08.



Street Lighting Fixture Information

- BED's standards for street lighting fixtures include:
 - LED (more energy efficient vs. older high pressure sodium, high intensity discharge, mercury vapor, etc.)
 - Color temperature of 3000K or less
 - Follow the IES Backlight, Uplight, and Glare (BUG) system to minimize stray lighting
- As of October, the city is at 64% LED fixtures (2,311 out of 3,605).



Street Lighting Upgrade Process

- BED maintains a capital street lighting list with projects specified by BED, driven by City/State projects, and customer requests.
- If a non-LED fixture fails, it is replaced with an LED fixture.
- If BED is designing a distribution system rebuild or upgrade project, light levels are also evaluated and brought to IES recommendations if it doesn't meet them. This can include replacing fixtures on existing poles or adding new poles and fixtures.
- When customers request BED to check the lighting levels on a street, a lighting study is performed. If changes are required to meet IES recommendations, a project is added to our capital plan and implemented as budget allows.