



City of Tualatin

LED Street Light Options Ownership and Maintenance

City Council – Work Session

June 24, 2019



CITY OF

TUALATIN OREGON

Overview

Definitions: LED v. HPS

Current Status

Ownership Options

Staff Recommendation

Discussion



What is the difference between high pressure sodium vapor lights (HPS) and light emitting diode lights (LED)?

High-Pressure Sodium (HPS)

Industry standard in the 1970s

Uses more energy than newer lights

Less visibility than LED

People are used to them

Manufacturers no longer make HPS parts



HPS

LED

Light Emitting Diode (LED)

Current industry standard

PGE changed their standard to a warmer light, similar to HPS

Very energy efficient with little wasted energy

Extremely long lifespan

High light quality

Dark Sky friendly - directional



What ownership options are available from Portland General Electric (PGE)?

Ownership Options



Option A

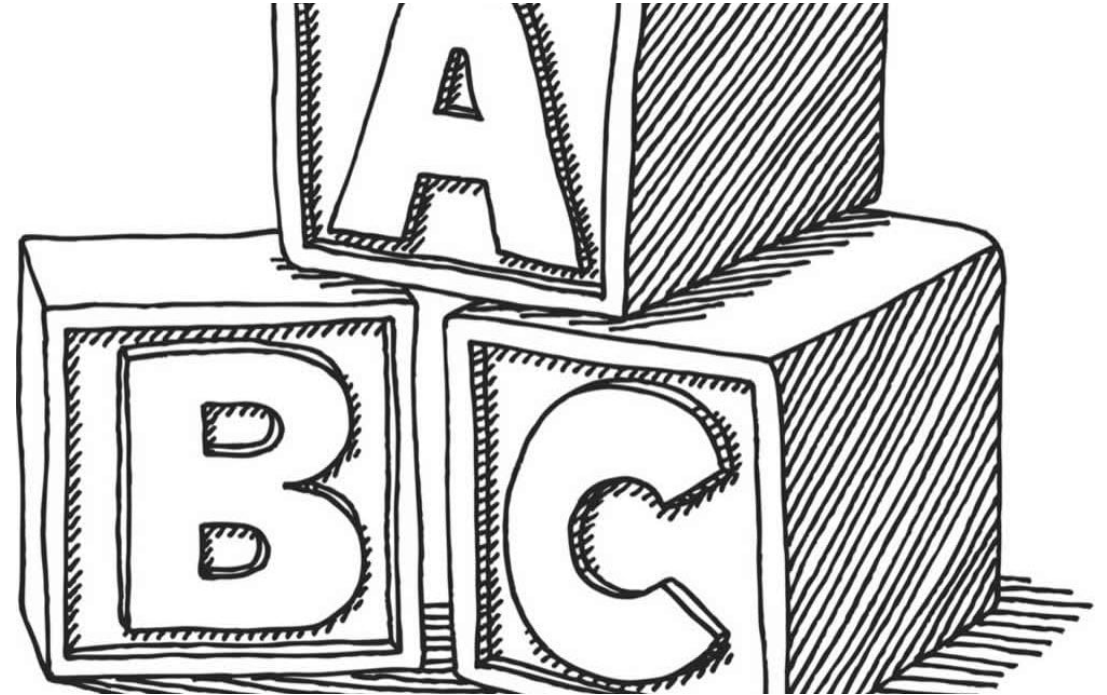
PGE owns and maintains

Option B

The **City** owns and PGE maintains

Option C

City owns and maintains



Where are we today?

Current Status

We have a few LED lights sprinkled around town – most are HPS

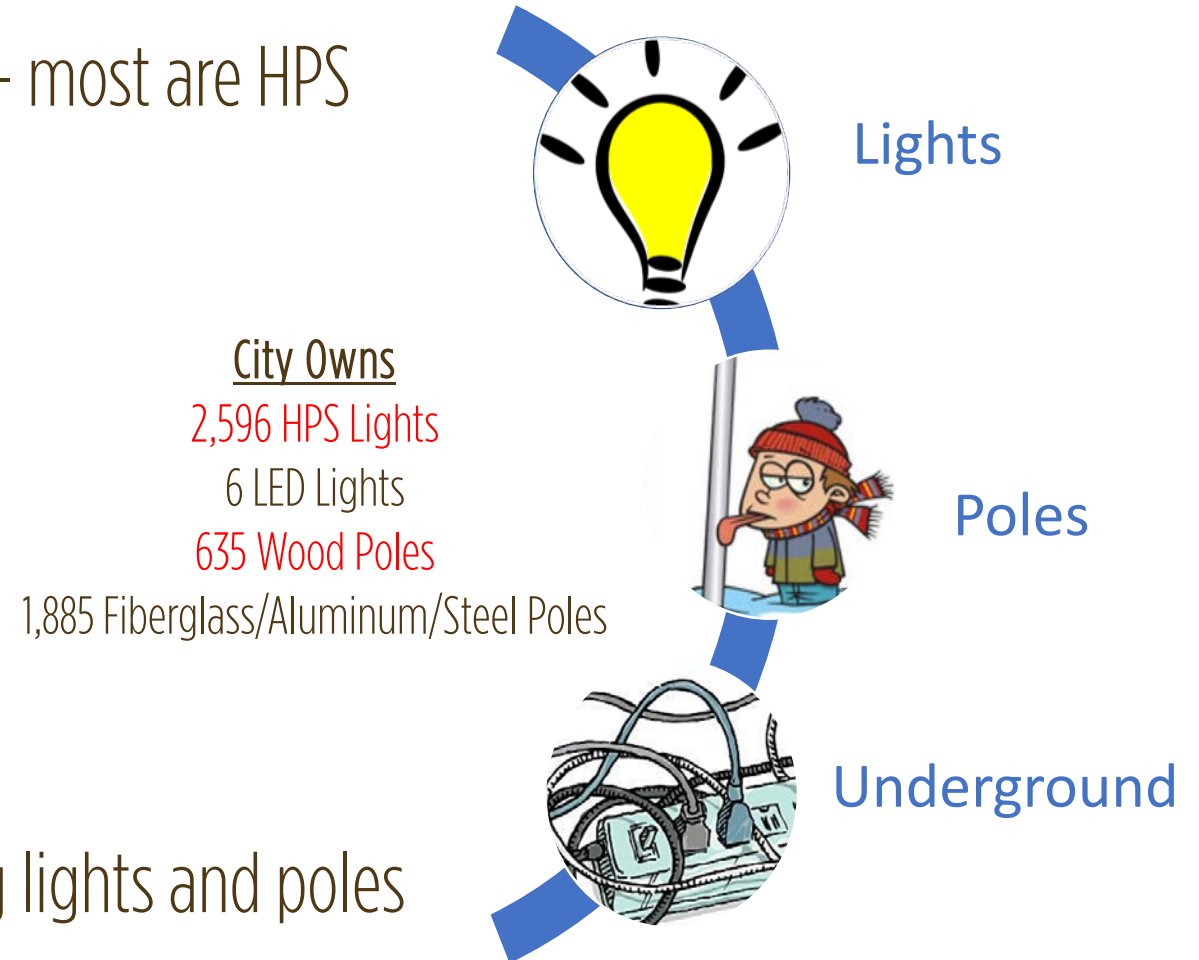
Most of our street lights and poles are **Option B**

So,

We own the lights/poles

PGE maintains them

We are responsible (\$\$\$) for replacing lights and poles



Why change and why NOW?

Why change?

HPS is going away

The City has a large number of poles and lights that are failing at the same time

635 wood poles installed 40 years ago

Cost to upgrade wood poles - \$1.27 million

2,596 HPS lights, which we can no longer get parts for

Cost to upgrade HPS lights to LED - \$1.45 million



Why NOW?

Our poles and lights are starting to fail more frequently

PGE worked with cities to provide better options

LED lights are now available in Town and Country and other decorative styles

PGE now has a warmer light (3000 kelvin) available similar to incandescent



What does staff recommend?

Staff Recommendation

Change all lights and poles to Option A

PGE will purchase all poles and lights from the City – \$1.6 million

PGE will pay to upgrade deficient poles and lights - \$2.72 million

PGE will own and maintain all lights, poles, and underground equipment



Outcome of Recommendation

PGE buys and becomes responsible for all poles and lights in City rights of way

We don't have to find upfront capital to replace poles and lights

City uses proceeds from selling lights and poles to PGE to offset increased cost for about 21 years*

Street light budget 14% increases (\$65,712) per year to pay for replacing, maintaining, and operating lights and poles

More environmental friendly lighting

OUTCOME



* Assuming a 3% increase in rates and no percentage growth on the \$1.6M.

Effect on Small Cell

Everything stays the same except PGE can charge wireless carriers an additional lease fee for using their poles

City still collects annual attachment fee for allowing each small cell attachment in the right of way (it doesn't matter who owns the pole)

City still controls minimum standards and aesthetics

City still manages permit process



What do you think?

Discussion

Staff recommendation:

Change to **Option A** (PGE owns and maintains)

We will continue to pay monthly charge to PGE for O&M with slight increase to cover replacing older lights and poles

We will not have to find upfront capital for new poles (\$1.27 million) or for new lights (\$1.45 million)

Questions, comments, concerns?