



# Fairfax County Streetlights

## Program Overview

Department of Public Works and Environmental Services

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March 28, 2023

# Existing DPWES Streetlight Programs

- LED Conversion Program
- Developer Streetlight Program
- Citizen Streetlight Petition Program
- FDOT Transportation Project Services

# Streetlights Process/Journey

New streetlight  
installations on new  
poles

- Developer Program
- FCDOT Transportation Projects
- Citizen Petition Program \* (w/ District Discretionary funds)
- Private Contributions

Existing streetlight  
upgrades and minor  
Improvements

- Dominion LED Conversion Program
- Citizen Petition Program
- Private Contributions

# Overview

- Fairfax County has the largest municipal streetlights inventory in VA: **60,000** streetlights
- Power Companies provide county streetlights:
  - ✓ Dominion Energy Virginia (DE): VEPGA multi-year contract
  - ✓ Northern Virginia Electrical Cooperative (NOVEC): NOVEC multi-year contract
- Power Companies own, operate, and maintain county streetlights
- County is responsible for SL operating cost



\*Exception: Lights on major interchanges on traffic signal poles are owned, operated and maintained by **VDOT**.

# DPWES LED Conversion Program

Fairfax County Streetlights inventory: 60,000 existing streetlights

Dominion Energy Service Area (96%): 57,752; NOVEC Service Area (4%): 2,248

- LED lights have the same “light level amounts” but with lower energy use (less kilowatts)

## **Dominion Energy (DE) Service Area**

- Conversion Program initiated in May of 2019, to complete FY 2024
- Funding of \$9 million over five years
- 34,000 LED conversions are currently installed on site by the Conversion Program
- Total of 43,000 LED conversions were designed & requested by the Program

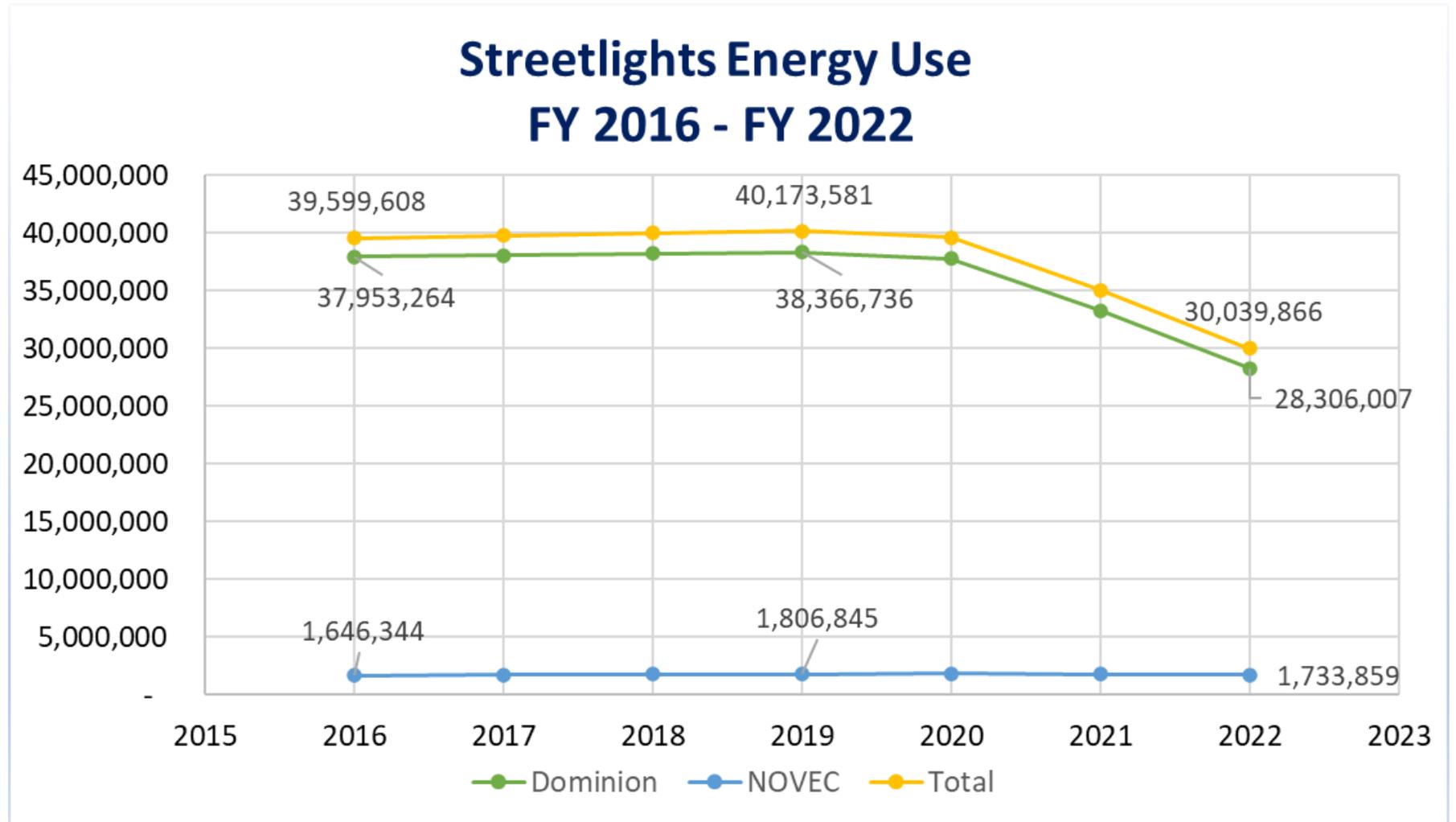
## **NOVEC Service Area**

- NOVEC is converting failing streetlights with LEDs. LED inventory is limited.
- NOVEC is currently not invested in accelerating LED conversion to their Customer Group.

**Since 2019, all new streetlights must be LED (3000K)**

# LED Conversion Program

- CECAP energy reduction goals
- 32.4 million pounds of CO2 removed annually
- Projected to have Approx. \$1.4 million yearly savings, when completed



# Private LED Lighting in FFX County

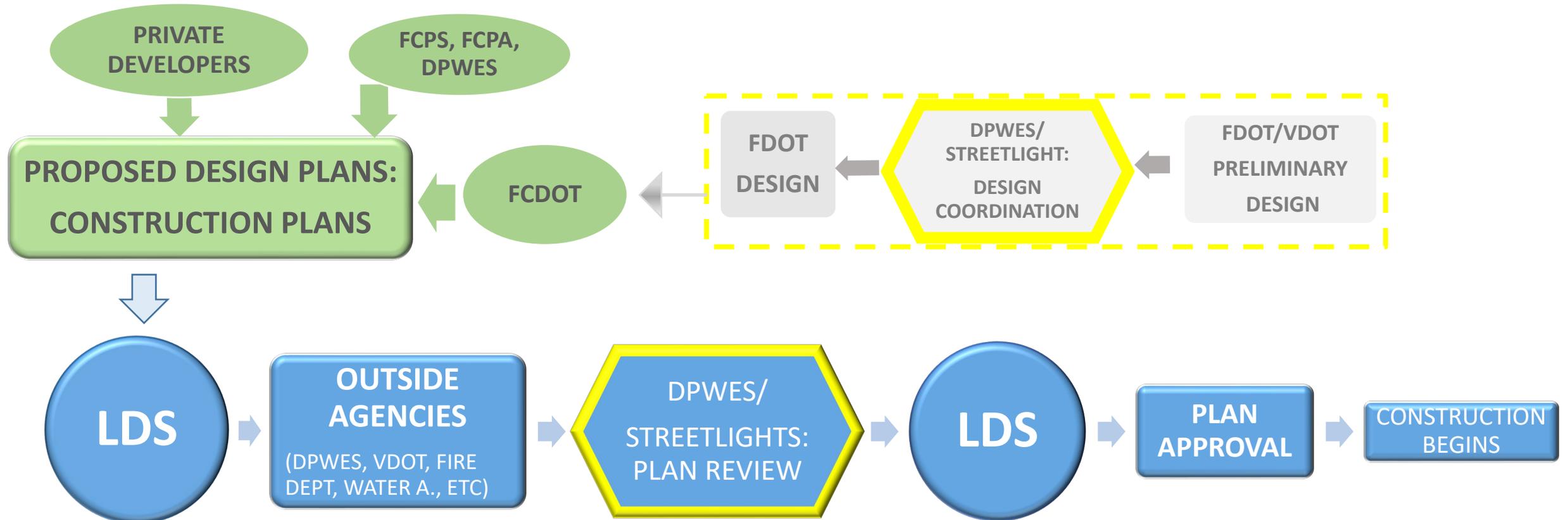
- Outreach by Dominion Energy: LED offerings for private outdoor lighting.
- Compliance with County Code and with International Dark-Sky Association recommendations.

LED Streetlights	vs	Existing
		
<ul style="list-style-type: none"><li>• Energy-efficient and less costs</li><li>• Better visibility for pedestrians</li><li>• Longer lifespan and less maintenance</li><li>• Dark Sky Compliant</li><li>• Zoning Ordinance Compliant</li></ul>		<ul style="list-style-type: none"><li>• Energy intensive and costs more</li><li>• Poor color rendering to identify pedestrians and objects</li><li>• Frequent maintenance required</li><li>• Obsolete technology and not Dark Sky Compliant</li></ul>



# Developer Streetlight Program - Overview

- Supports Land Development Services (LDS)
- Supports FCDOT Transportation Projects, if needed
- Provides for the installation of new streetlights & upgrades
- Oversees installation process with Electric Utility Company and Developer



# DPWES Citizen Streetlights Petition Program

- Manages streetlight petition requests
- Evaluates eligibility requirements:
  - ✓ Petition Process-Simple Majority (51%)
  - ✓ Eligible roadway
- Funding Source:
  1. Minor Streetlight Upgrades (MSLU)
    - ✓ Limited to a total cost of \$2,000 per year, within a defined subdivision
    - ✓ Funds come from SL reimbursements from Towns
  2. District Discretionary Funds
  3. Private Contributions by Communities

# Questions and Recommendations to Consider

- Encourage BOS to partner with elected officials from other NOVEC service areas (Manassas Park, Prince William County, etc.) and communicate the region's environmental goals to NOVEC as it relates to LEDs.
- Expand portfolio of lighting types offered by Dominion Energy (DE) through VEPGA
- Expand resources to the existing Minor Streetlight Upgrades (MSLU) funds and consideration to increase the \$2000 limitation per year
- Allocate additional District Discretionary funds to each District for Streetlight requests
- Partner with VDOT to revise secondary road streetlighting criteria. Relocate rather than remove existing streetlights.
- Resources for nonstandard lights:
  - ✓ Off-site trail lighting. Nearly 200 New County-owned trail lights currently installed.
  - ✓ Added funding that could support maintenance, operation and procurement needs
  - ✓ Additional DE's Nonstandard - Streetlights-Route 7, Metro corridor lights in Tysons. Obligations per VEPGA contract.