DC Smart Lighting Project

Industry Forum

January 24-25, 2017
DC Smart Lighting Project

SMARTER. BRIGHTER. GREENER.

SETH MILLER GABRIEL
Director, Office of Public-Private Partnerships (OP3)
Presentation Overview

1. Purpose of Forum
2. Project Goals and Background
   - Streetlights
   - Smart City
3. P3 Model
4. Next Steps
5. Q&A
Purpose of Forum

1. Introduce Project
2. Market Feedback
3. Networking
Project Goals

1. 100% LED Conversion
2. Remote Monitoring System
3. Ongoing Operations and Maintenance
4. Smart City Technology and Ancillary Uses
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LEIF DORMSJO
Director, District Department of Transportation (DDOT)
Background: Streetlights, By the Numbers

Sum of Total Lights (Snapshot as of Summer 2016)

- **High Pressure Sodium (HPS)** - 61359 (86%)
- **Incandescent** - 5583 (8%)
- **Light-Emitting Diode (LED)** - 3639 (5%)
- **Metal Halide (MH)** - 267 (0%)
- **Mercury Vapor (MV)** - 775 (1%)

Only 5% of DC lights are modern LED technology.
Background: Types of Lights

We have over 50 different types of lights with different performance levels and maintenance requirements.
Background: Streetlights, By the Numbers

The District owns 54% of the poles to which streetlights are attached; primarily downtown and on major roads.

Pole Ownership
- District (54%)
- PEPCO (39%)
- Verizon (7%)
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ARCHANA VEMULAPALLI
Chief Technology Officer, Office of the Chief Technology Officer (OCTO)
Smarter DC

• **DC-Net**: gigabit fiber network owned by DC

• **DCWiFi**: 650 free broadband WiFi hotspots

• **DC-CAN**: subsidized network for community anchor institutions

• **PA2040**: LED Smart lighting Pilot
P3 Model

- Long-term, performance based
- DBFOM
- Project Integration and Risk Transfer
- Debt Cap
Timeline and Next Steps

- **Finalize Term Sheet**
  - **November**
- **Industry forum**
  - **Jan. 24-25**
- **Prequalified bidders**
  - **May**
- **One-on-ones**
  - **June-August**
- **Council approves RFP**
  - **November**
- **Proposal due**
  - **February**
- **Commercial close**

2016 - 2017 - 2018

- **Finalize Term Sheet**
  - **December**
- **Issue RFQ**
  - **March**
- **Issue draft RFP Submit to council**
  - **June**
- **Issue final RFP**
  - **October**
- **Select preferred bidder**
  - **January**
- **Financial close**
  - **April**
Questions?
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Opportunities for Small and Local Businesses
Disadvantaged Business Enterprise Program

Lisa Gregory, Office of Civil Rights
DDOT Disadvantaged Business Enterprise (DBE) Program

- Required by Congress for recipients of FHWA, FAA, FTA funds (49 CFR part 26)
- Increases participation of minority- and woman-owned firms
- Contract-specific DBE subcontracting goals

DBE Certification and Goal Setting

- DDOT’s OCR and WMATA administers the Metropolitan Washington Unified Certification Program for certifying DBE firms
- DDOT’s federally – assisted projects include contract requirements for Primes to utilize DBE subcontractors.
- DDOT uses details from SOWs/engineers estimates to identify potential areas for DBE subcontracting opportunities.
Businesses that benefit most from DBE certification

- Heavy Highway, Bridge & Civil Engineering
- Concrete Work
- Water, Sewer, Utility
- Electrical/Mechanical Contractors
- Demolition/Excavate Contractor
- Structural Steel Erection Contractors
- Painting Contractors
- Landscaping Services (Non-architecture)
- Professional Services (Accountants, Consultants, etc.)
- Computers, Software, Network Systems
- Engineering/Architect Services
- Truckers/Hauling
- Material Wholesale Trade (Suppliers)
- Electrical Supplies & Equipment
- Ready Mix Concrete/Asphalt Paving Mixtures
- Sign Manufacturing
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Speed Networking