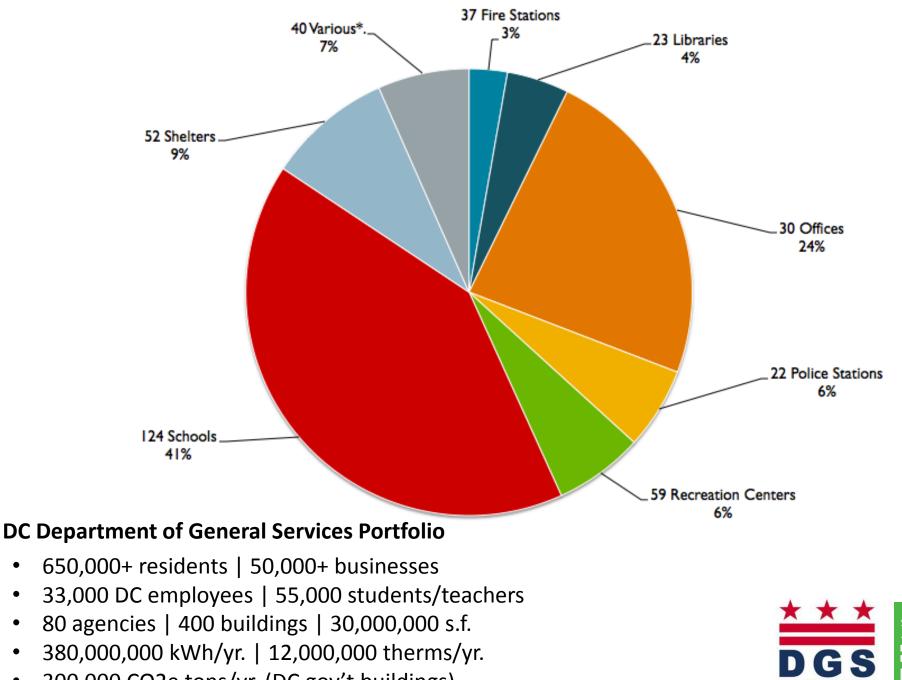
MWCOG Solar Workshop: DG in DC





Zach Dobelbower Sustainability Manager DC Department of General Services





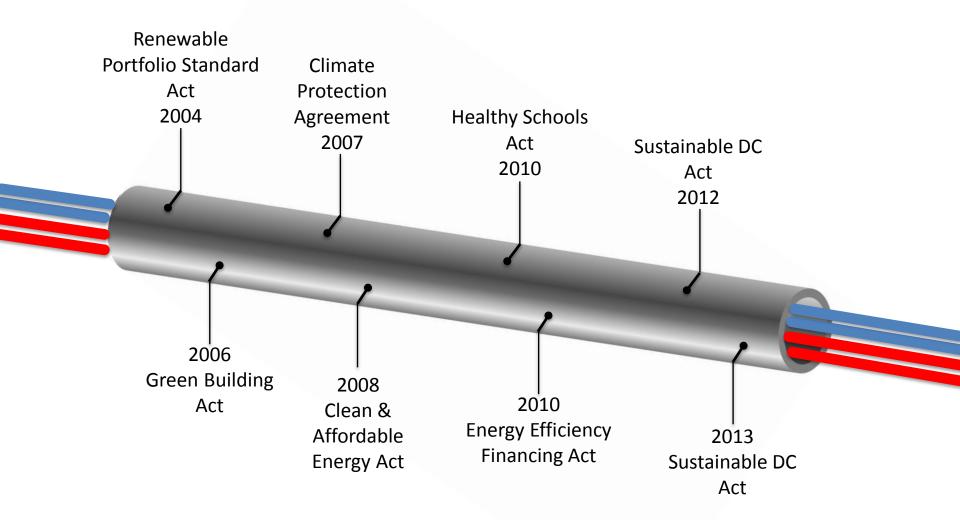
ΔΒΙΙ ΙΤΥ

GENERAL SERVICES

300,000 CO2e tons/yr. (DC gov't buildings)

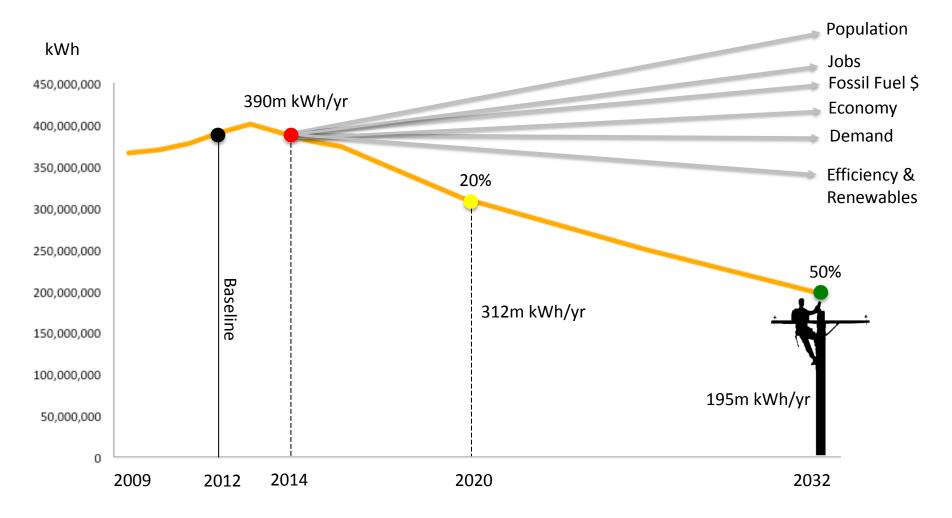
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Sustainable DC: 50% Energy Reduction | 50% GHG Reduction





Target Electricity Consumption in DC's Public Buildings





Fifty by Thirty-Two





Data Analytics

- AMI (smart meters and sub-metering)
- Accessible interval data (Green Button Connect)
- MMVV + reporting (BuildSmartDC.com)

Better Buildings

- Green Codes | LEED | ENERGYSTAR
- Assessments & Auditing (AHSRAE + virtual)
- Energy Retrofits + modernizations

Optimized Operations

- Building automation, controls, sensors
- Retro-commissioning
- Operator training & occupant engagement (energy kiosk)

Smart Supply

- Renewable and distributed generation
- District energy and microgrids
- Competitive Energy Purchasing

Good Government

- Planning and budgeting
- Interagency engagement
- Public private partnerships





Basics

- 1,940 solar photovoltaic panels
- 543,287 kWh per year (~20% demand)
- ~\$0.085 kWh w/1.5% escalation for 20 years
- Green-e RECs provided for 10 years

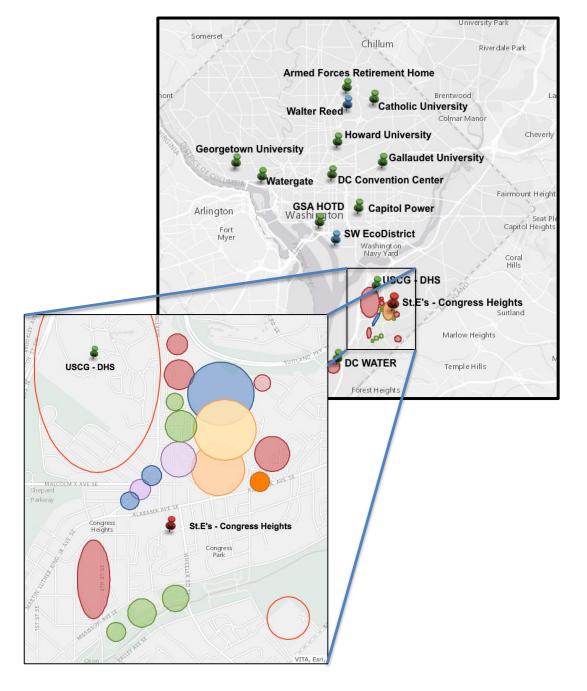
10 MW Solar PPA

50 Sites; 3 Bundles

- Large
- Small-Medium
- Innovation

Benefits

- Reduced GHG
- Lower, less volatile costs
- Peak demand shaving
- Resiliency
- Risk management
- Job creation
- Market transformation
- Integration w/other efforts





@benchmarkdc

Thank you,

Zach Dobelbower Sustainability Manager DC Department of General Services

