



# **Montgomery County, Maryland Solar Initiative**

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Department of General Services, Office of Energy and Sustainability

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# Montgomery County Department of General Services

- Analogous to the federal General Services Administration,
- Custodian of the County's building portfolio, fleet, and purchasing,
- 400+ buildings, owned leased, and leased out. Totaling over 9,687,923 square feet.
- Manages \$26 million of annual energy purchases
- Fleet of over 3,000 vehicles

# Office of Energy and Sustainability

Created within the Department of General Services to reduce the environmental footprint of government operations:

- Reduce resource consumption across DGS. Including energy, water, waste, transportation, biodiversity. Includes enhancing “resiliency” to a changing climate.
- Develop County Sustainable Operations Plan and Report
- Monitor and communicate headline metrics for energy and sustainability. Communicate results to County Executive, Council and external stakeholders
- Engage and empower internal staff working on green initiatives
- Manage utilities, conventional and clean energy purchasing
- Accelerate clean energy and energy efficiency projects
- Seek and secure resources to expand green efforts. Including grants, utility incentives, public private partnerships, joint projects and more.
- Innovate as DGS Green “skunkworks”



# Montgomery County Solar Barriers

- Building portfolio not optimal
- Few sites with potential over 150 kW
- Varying structural condition, typically older roofs
- Tight sites with shading (trees/buildings)
- County legal and T/C constraints



# Competing Uses



# Current Project




- Launched Spring of 2014
- Regulated by Montgomery County Electricity Purchasing Regulations
- 1<sup>st</sup> phase competitively bid, awarded to SolarCity Corporation
- Hired a capital project manager to oversee construction, build out etc.
- Contracted for 14 projects across 12 sites (several sites receive multiple systems)
- Projects range from nearly 2 MW to 30 kW.
- Includes roof mounts, parking canopy mounted solar and ground mounts

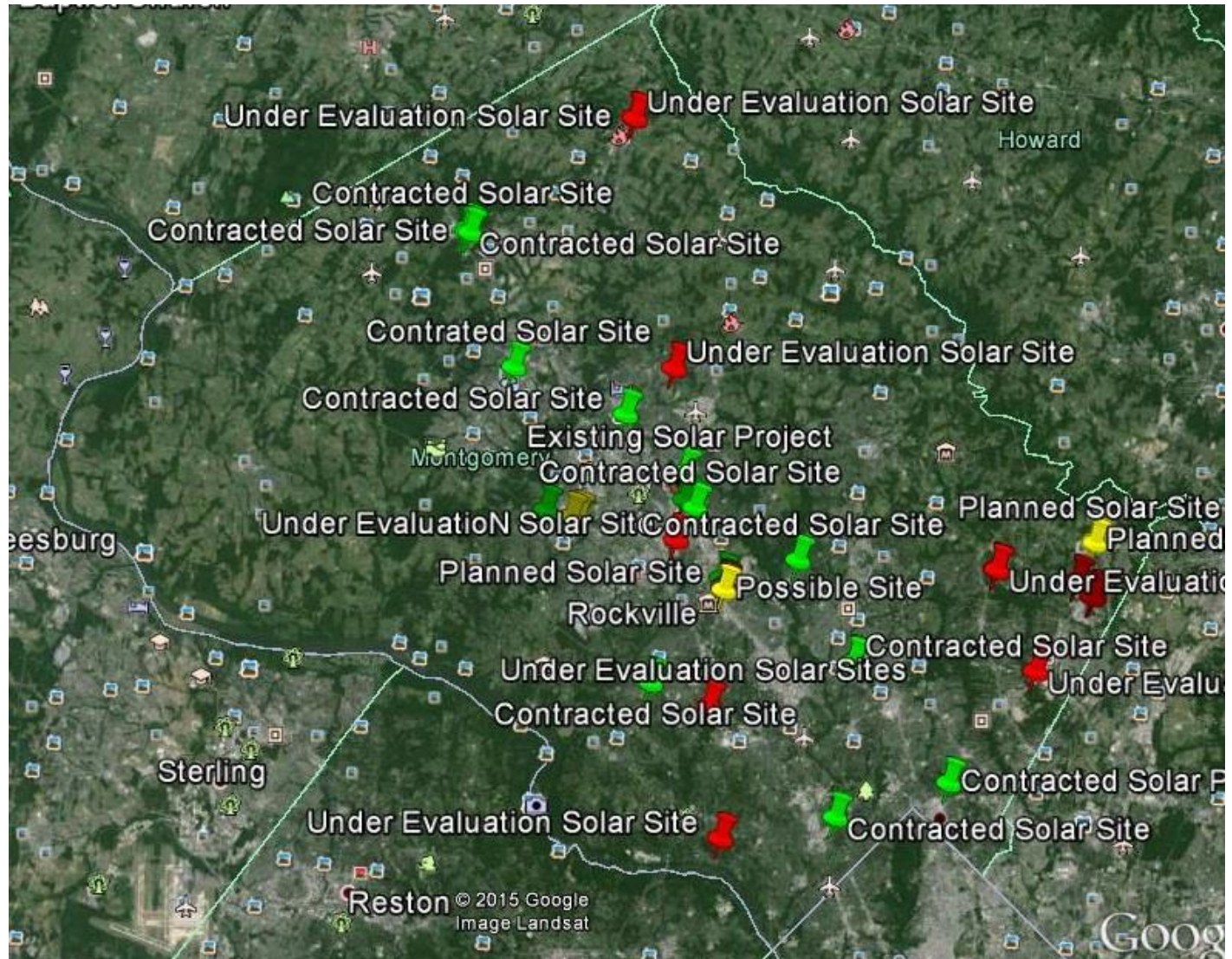
# Phase II Project

- Request for Energy Proposals posted. Due 4/28/2015
- 11 sites available for development
- Standard power purchase agreement structure
- Expect construction from July 15 through December 16
- Phase III under development, expect to seek offsite projects



# Solar Photovoltaic Systems

-  Under Contract or Existing Sites
-  Planned Sites
-  Out for Bid/Evaluation Sites



# Bridging and Cooperative Bidding

- PPA's are difficult to bridge
- Every site is different – pricing varies by building
- Government contractual requirements and bridging options vary
- Investor interest and requirements - moving target
- Solar renewable energy credit pricing variable
- Little vendor interest in individual small projects
- Over 6 jurisdictions have shown interest in bridging the Montgomery County PPA

# Contract Structure

- Designed to be bridgeable by local governments, universities, non-profits etc.
- Options for adjusting price relative to site conditions, SREC prices, options etc.

## FRAMEWORK:

- Business relationship
- Additional benefits (locations, workforce)
- Auxiliary contract documents



PPA Site 1

PPA Site 2

PPA Site 3

Individual PPA for each site.



# Contract Options:

- Electric vehicle chargers and infrastructure
- Energy storage frequency regulation
- Pollinator friendly ground cover
- SREC purchase options
- Alternative REC purchase options
- Optional addendum for premium items integral to the system

# Bid Documents:


Montgomery County, Maryland  
Office of Energy and Sustainability  
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Residents Businesses Government Departments Online Services MC311

DGS Home  
Director's Office  
Division of Building Design & Construction  
Division of Central Services  
Division of Facilities Management  
Division of Fleet Management  
Office of Business Relations & Compliance  
Office of Energy & Sustainability  
Office of Planning & Development  
Office of Procurement  
Office of Real Estate  
Office of Special Projects  
The Americans with Disabilities Act (ADA) Compliance Program

Department Of General Services  
Delivering Great Service  
**Office of Energy & Sustainability**  
OES Home | About Us | Team | **Business Opportunities** | Internships/Employment

**Meet the Green Team**



Team will develop a comprehensive green operation plan, focusing on green actions related to energy, air, water, fleet, environmentally preferable products, innovation and more across County operations. Team members will also serve as ambassadors to Green day-to-day work activities amongst their peers.

[Find out more...](#)

Latest News

- County Clean Energy Buyers Group Increases Volume - Gains Rank Among National Clean Energy Purchasers
- County Hosts Alternative Fuel Vehicle Roadshow
- Aggressive Commitment to Solar Energy Systems on Public Facilities Recognized by The White House

MORE...

Community Resources

- Take Action at Home
- Certify Your Business

Energy purchasing and other opportunities are posted on the business opps page at the OES website.

# Contact Us:

Department of General Services – Office of Energy and Sustainability

<http://www.montgomerycountymd.gov/dgs-oes/>



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