Delivering Great Service

### Office of Energy & Sustainability

### Montgomery County Solar and Advanced Energy Initaitive

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Office of Energy and Sustainability

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# About the Montgomery County Office of Energy and Sustainability

- Created in 2013
- Reducing the environmental footprint of County operations
- Build resiliency in Public facilities
- Energy purchasing and procurement





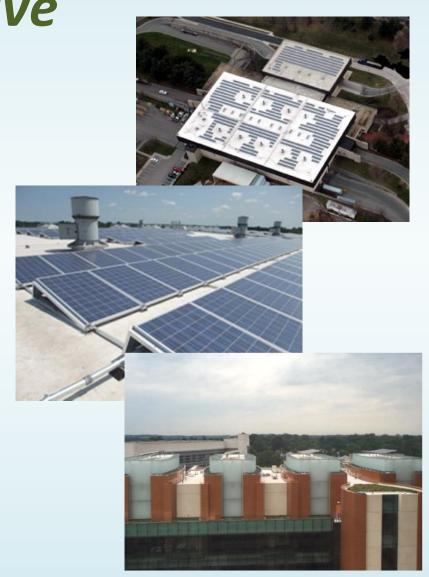
#### Solar and Advanced Energy Initaitive

- Helps fulfill County Climate Protection and Green Economy Plans
- County required to deploy solar onsite (Council Bill 9-14)
- Long term cost containment
- Grid independent building electricity use where appropriate



Solar and Advanced Energy
Initaitive

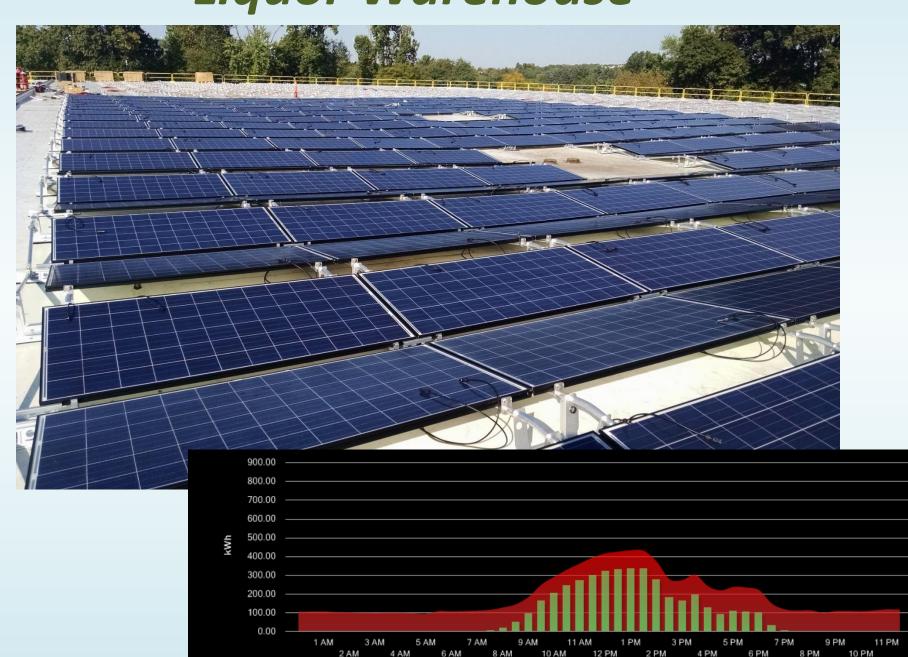
- 7 existing systems
- 8 additional sites under development
- 10+ additional projects in scoping
- Public buildings and grounds
- County purchases all energy generated



### Solar and Advanced Energy Initaitive

- Solar Power Purchase Agreement
- \$11 million savings over total project life
- No cash upfront from the County
- Third party designs, finances, builds, owns maintains and operates
- 20 year life
- Pay for what is delivered
- Performance guarantee for under production

#### Liquor Warehouse



## Silver Spring – Regional Services Center



### Jane Lawton Community Recreation Center



#### **UpCounty Regional Services Center**



#### **Gaithersburg Library**



#### **UpCounty Regional Services Center**



#### Clarksburg Correctional Institution



#### Next "Thing" Microgrid

- Microgrid at two critical facilities
- 100% electric grid independent facility
- Combined solar, combined heat and power, advanced controls
- No cash upfront
- Comparable or reduced utility costs
- Schneider Electric, Duke Solar, Montgomery County P3
- Expandable

#### Challenges and Risks

- Collapsing MD SREC market
- Sun Edison "possible" bankruptcy
- Risk averse vendors/partners
- Permitting and soft costs
- Limited appropriate sites/facilities
- Outside the box projects difficult

#### Contact Us:

Department of General Services – Office of Energy and Sustainability <a href="http://www.montgomerycountymd.gov/dgs-oes/">http://www.montgomerycountymd.gov/dgs-oes/</a>



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