

# CLEAN ENERGY WORKGROUP

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WEDNESDAY, JULY 24, 2019, 4-6 PM

JOIN THE CONVERSATION! [#MCCLIMATEACTION](https://twitter.com/MCCLIMATEACTION)



# Agenda

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1. Introductions
2. Context and Role
3. Task and Timeline
4. Baseline Clean Energy Data
5. Discussion
6. Establish Subcommittees
7. Public Comment

# Context and Role

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- *County Executive and Council are very supportive*
- *Public is very supportive*
- *Baseline of progressive State and local laws*
- *Deep and broad expertise in this group*

# Context and Role

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**We have a unique opportunity to show the country the path for 100% clean energy use**

# Our Tasks

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1. Review past County climate reports and global best practices
2. Recommend actions and strategies being mindful of equity
3. Identify implementation steps for actions
4. Identify metrics and knowledge gaps

# Our Timeline

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**(We have less than 6 Months)**

July 24: Convene Workgroup, Establish Subcommittees

October 23: Complete First Draft of Recommendations

December 11: Submit Final Recommendations

# Baseline Data

## Countywide Electricity Use & Solar Capacity

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### 2015 Electricity Consumption:

• Residential:	4,097,000 MWh
• Non-Residential:	5,803,000 MWh
• Total:	9,900,000 MWh

### Solar Area needed:

◦ Fixed array (assumes 828 MWh/acre):	11,957 acres
◦ 1-Axis (assumes 915 MWh/acre):	10,820 acres
◦ 2-Axis (assumes 1,333 MWh/acre):	8,738 acres

*Source and Notes: PV Watts using sample systems and GIS property layers; area calculations are based only on total panel dimensions and do not include areas for buffers, ancillary equipment, etc.*

# Baseline Data

## Countywide Electricity Use & Solar Capacity

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General Land Use	Acres	% of County
Urban	158,610	48.9%
Agricultural	68,494	21.1%
Forests	85,998	26.5%
Water and Wetlands	8,820	2.7%
Other	2,236	0.7%
<b>Total</b>	<b>324,158</b>	



# Baseline Data

## Countywide Electricity Use & Solar Capacity

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Impervious Feature	Acres
Road	16,714
Buildings	16,226
Parking Lot and Garage	8,964
Driveway	5,164
Sidewalk	4,155
Other	140
<b>Total</b>	<b>51,363</b>

# Current Policies, Programs, and Financing

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- Federal Solar Investment Tax Credit
- State Net Metering Law
- State Renewable Portfolio Standard (50% by 2030)
- Community Solar
- County Commercial PACE
- County Green Bank
- Power Purchase Agreements, leases, etc.

# Discussion

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- “Safe space”

*Don't worry about what your boss may think*

- This is a young and wide open industry

*Game changers welcome*

# Discussion #1

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**How do we get to net zero by 2030?**

# Discussion #2

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**What subcommittees do we need?**

# Discussion #3

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## **Our work:**

1. Where (Rockville or Silver Spring?)
2. When?
3. How?

# Wrap Up

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**Other Business  
& Public Comment**