## Solar Leasing and Solar Trends

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**USDA** National Institute of Food and Agriculture U.S. DEPARTMENT OF AGRICULTURE







### **Program Partners**













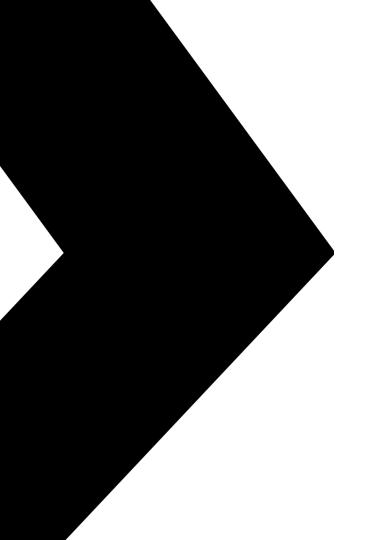
### Disclaimer

This presentation is intended to provide general information over legal issues and should not be construed as providing legal advice. It should not be cited or relied upon as legal authority. State laws vary and no attempt is made to discuss laws of states other than Maryland. For advice about how these issues might apply to your individual situation, consult an attorney.









Solar Energy Production on Agricultural Lands Project

## **Solar Energy Production Project**

Developing research on solar leasing on farmland to develop educational materials, including extension publications and legal education publications, on the economic, legal, and community issues associated with solar energy leases.







## **Solar Energy Production Project**

Project goal is to develop train-the-trainer resources for Extension and other groups to use to train landowners









## **Project Website**

As we develop resources you can find it all at:

https://www.solarleasin g.umd.edu/











## Solar Leasing

## Develop a team

- When presented with a lease, make sure landowner develops a team.
- Possible team members:
  - Attorney
  - Accountant
  - Insurance carrier
  - Family
  - Lender
  - Others?







### Types of agreements

- Letter of intent simple document that shows intent to potentially develop property
- Option to lease: Little more complex and may include lease terms, gives company time to determine if they want to lease
- Solar lease: this document may include the two listed before and the essential lease terms







### Term of lease

- Pay attention to how long the term will run.
- This could include all the stages listed in a lease
- Typically going to run for potentially 20 or longer









### Term of lease



• Included in this might be renewals.

 Pay attention to the renewal language to understand how this can be triggered.



### **Confidentiality Clause**

Many leases may contain a confidentiality clause that may limit your ability to discuss the terms with others



#### Could be narrow or broad

- Pay attention to the language in the contracts
- If you have concerns show the language to an attorney to have them explain







### Rent and Royalty Clauses

- Usually set as dollar per acre, not in royalties
  - Amount per acre may depend on stage lease is in
- Potential for royalty based on production but is less common depending on the region.







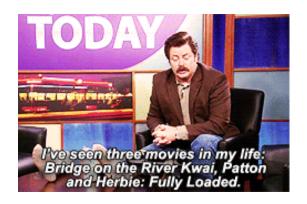


### **Remediation Period**

Once lease ends, company will need to remediate the site.

Currently MD requires as a part of the CPCN process for company to get bond to cover costs.

Still good practice for landowner to include language for how farmland will be remediated.









# Solar Developments in Maryland

Land Use & Solar Development Updates

# Updates on Large-Scale Solar Developments in Maryland

- Maryland has the most significant solar, specific carve-out of any state at 14.5% energy generation sales by 2028
- <u>Utility-scale solar</u> is a solar energy generating system that sells electricity through power purchase agreements or into the wholesale electricity market
  - Utility-scale solar facilities are usually owned by a generation company and require a Certificate of Public Convenience and Necessity (CPCN) to be developed and connected to the grid







### **CPCN Process in Maryland**

The Commission **Granting Extension** of Construction Evidentiary hearing Cross-eximnation of witnesses Public Comment Hearing Minimum of one Prehearing · Must be near location of Conference proposed project - since Covid. has been Notice of Procedural primarily online A proceeding. Schedule is issued usually conducted by a Public Utility The applicant Law Judge, to (usually the solar consider the development application company) files the application · With a filing fee of \$10.000





# Updates on Large-Scale Solar Developments in Maryland (cont.)

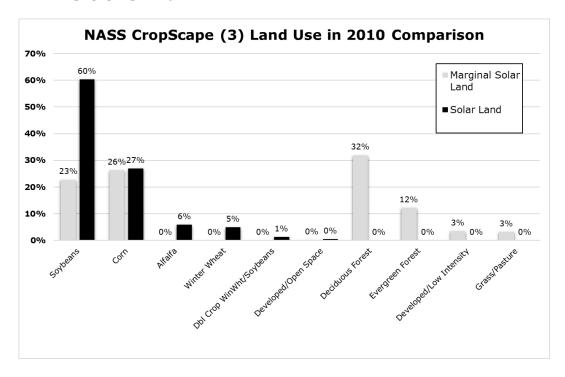
- In Maryland, <u>one</u> of the currently\* built utility-scale solar projects is **not** on "Prime Farmland" or "Farmland of Statewide Importance," as defined by the Natural Resources Conservation Service (NRCS).
  - 44% of utility-scale acres are on "Prime farmland."
  - 48% on "Farmland of statewide importance."
  - o 8% on "Not prime farmland."







## What type of land is being converted to solar "fields"?

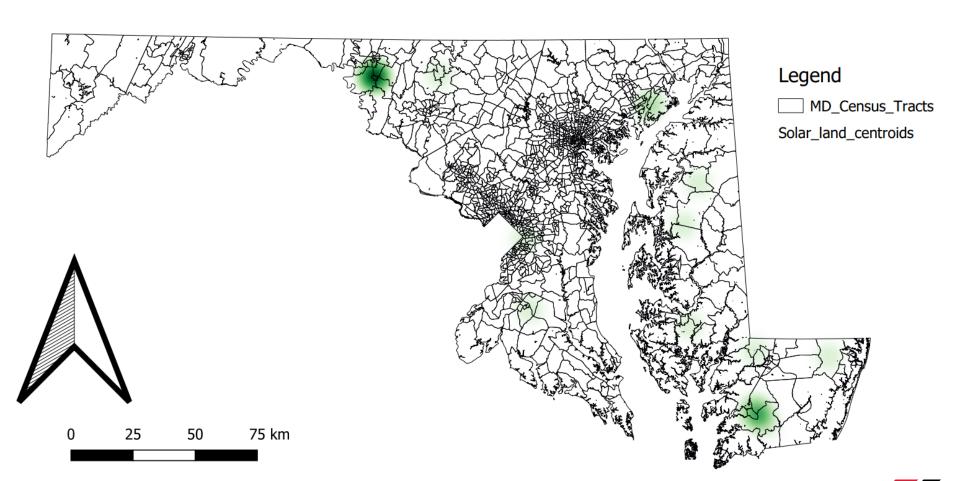








### Centroid, Heat Map of Utility-Scale Solar Projects in Maryland



# The Potential Motives of Landowners in Maryland – Sensitivity Analysis Results

- A sensitivity analysis is conducted to understand the economic impact on MD's agricultural industry rather than the energy production from utility-scale solar fields on MD's agricultural lands.
  - O A case study farm that resulted in the development of farmland into solar
- The crop rotation is identified using the United States Department of Agriculture (USDA)'s National Agricultural Statistics Service (NASS) data
- Rent values for solar are estimated from the uncovered contracts focus group discussions, throughout Maryland and New York.

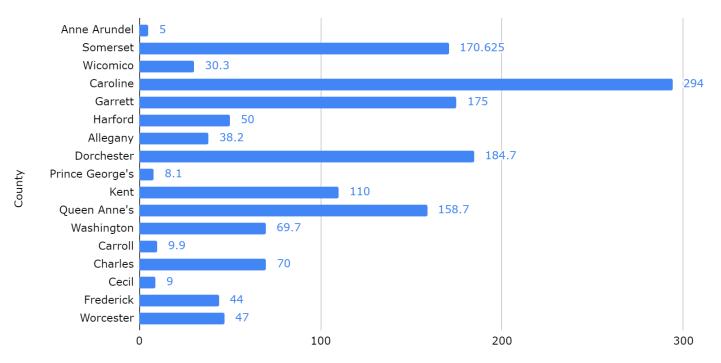
		Annual Rent per Acre for Utility-Scale Solar			
		\$500	\$800	\$1,250	\$1,925
Annual farm profit estimates per acre	<b>\$151</b>	231%	429%	727%	1174%
	\$274	82%	192%	356%	602%
	\$443	13%	81%	182%	334%
	\$629	-21%	27%	99%	206%







### Proposed MW Solar Generation vs. County

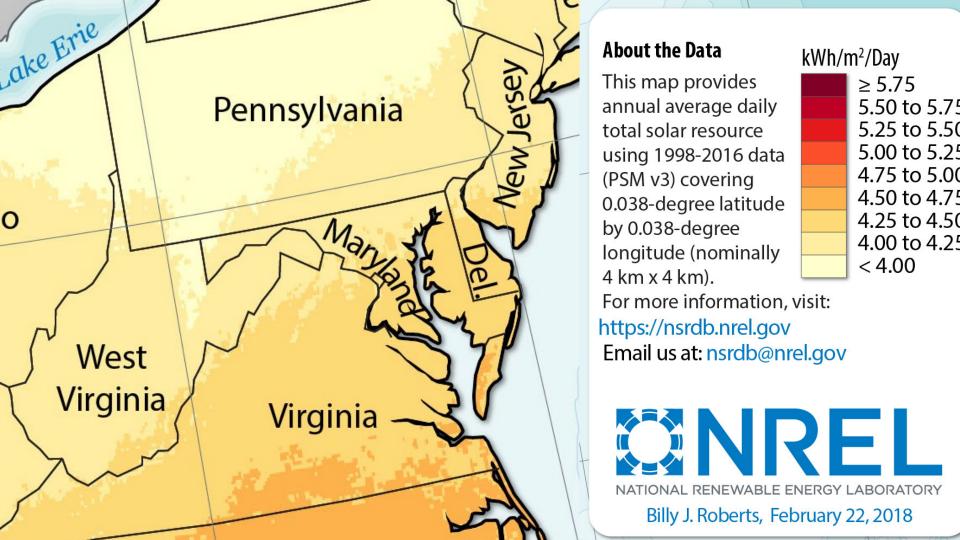


Proposed MW Solar Generation





What's happening with solar development in Garrett County?



# One utility-scale solar project in process in the County - CPV Backbone Solar

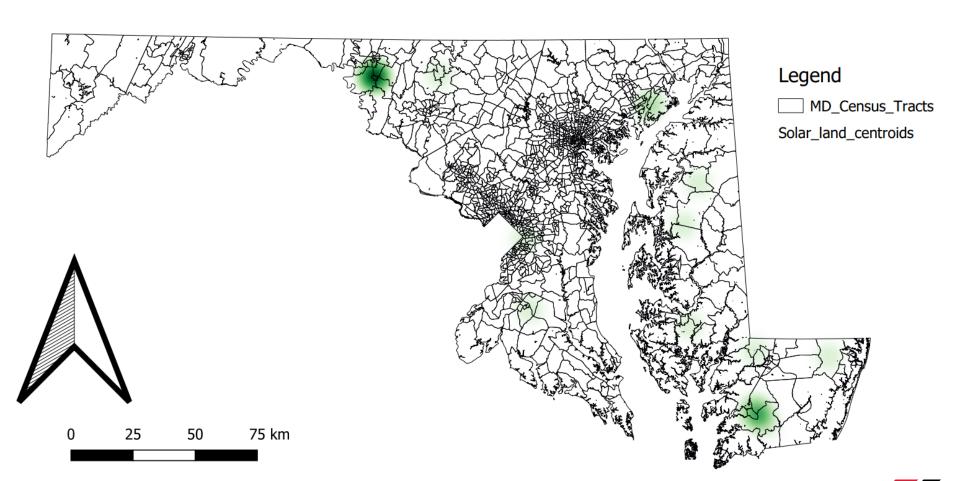
- Application filed on 4/27/2021
  - "The site was deep mined for coal from the 1940's and 1950's...the
    Site has been significantly disturbed and altered such that very
    little remains in its natural condition."
- Last update on the project was the approval of the decommissioning plan on 8/25/2022
  - In original filing construction was estimated to occur from May
    2022 to August 2023







### Centroid, Heat Map of Utility-Scale Solar Projects in Maryland



## Md. Risk Management Blog



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## Southern Ag Today Blog









## Any questions?







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