

# **Lessons Learned From Past Solar CPCN Cases**

**Bob Sadzinski**

PPRAC – June 18, 2018



# Trivia



What is the oldest energy source used by humans?



# Oldest energy source used by humans is:



~200,000 BC – wood burning  
Records of the first controlled uses of  
fire for warmth and cooking

5000 BC - wind power (sailing)

500 BC - Solar power  
Passive solar energy used in Greek homes.

200 BC - Coal mining  
Coal mining starts in China.

644 AD - First windmill  
The first windmill, with a vertical axis, is recorded in Iran.

1100 AD- Wind power  
Windmills are introduced in Europe.  
Geothermal



# Maryland's Renewable Portfolio Standard



- Mandated 2.5% solar carve-out
- Presently - 22 Solar CPCN cases in Maryland

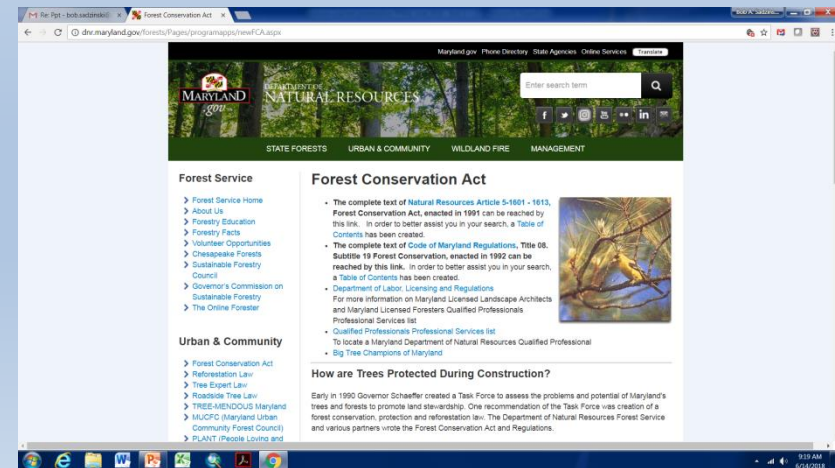


# Maryland has seen a Rapid Expansion of Utility Scale Solar



This has led to State and local concerns including:

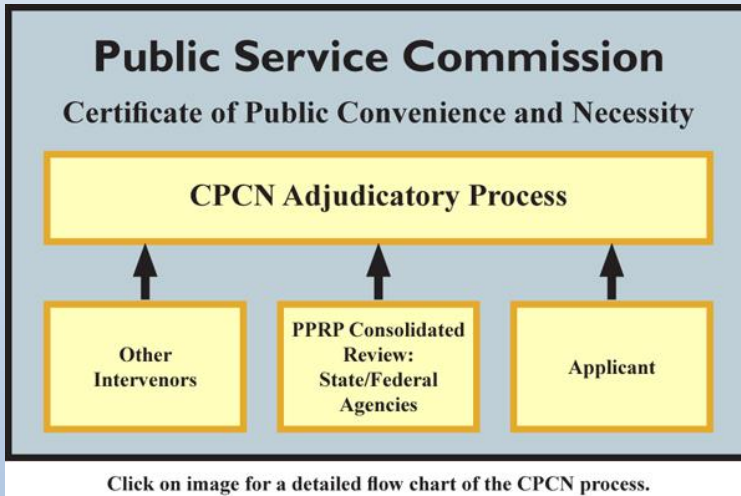
1. Using agricultural land for solar
2. Cutting trees to install solar
3. Allowing large solar projects to prevent afforestation for many years



# State and local concerns



- Lack of understanding in the CPCN process by local authorities and the Public
  - PPRP has conducted outreach to representatives from multiple Maryland counties, but more is needed
  - PPRP has stressed early and full participation of the Counties
    - This means the County becoming a legal party to every CPCN case







# State and local concerns: Glare

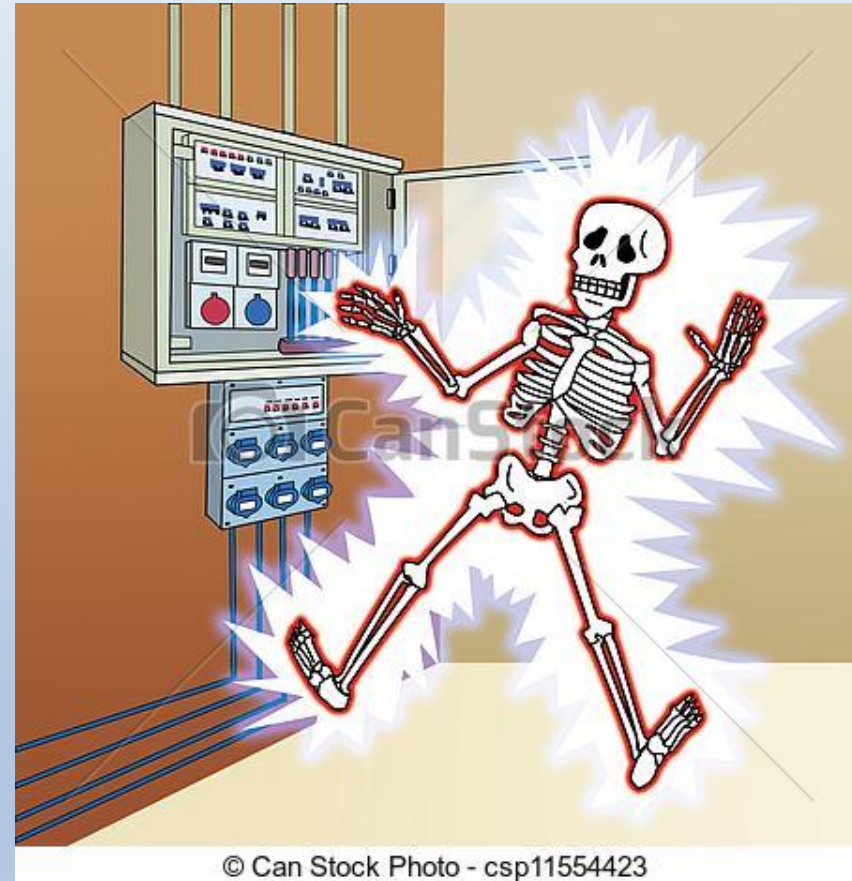


- PPRP Recommended condition includes a mechanism to document and address the glare issues in the docket.

# State and local concerns: EMF



- Potential Electromagnetic Field impacts to human health
- PPRP is drafting a comprehensive white paper on EMFs



# State and local concerns..



- Solar installation impacts on wetlands, streams and ditches
- Includes
  - Pre-construction meeting with MDE Compliance
  - Phasing construction
  - Eliminating panels over ditches



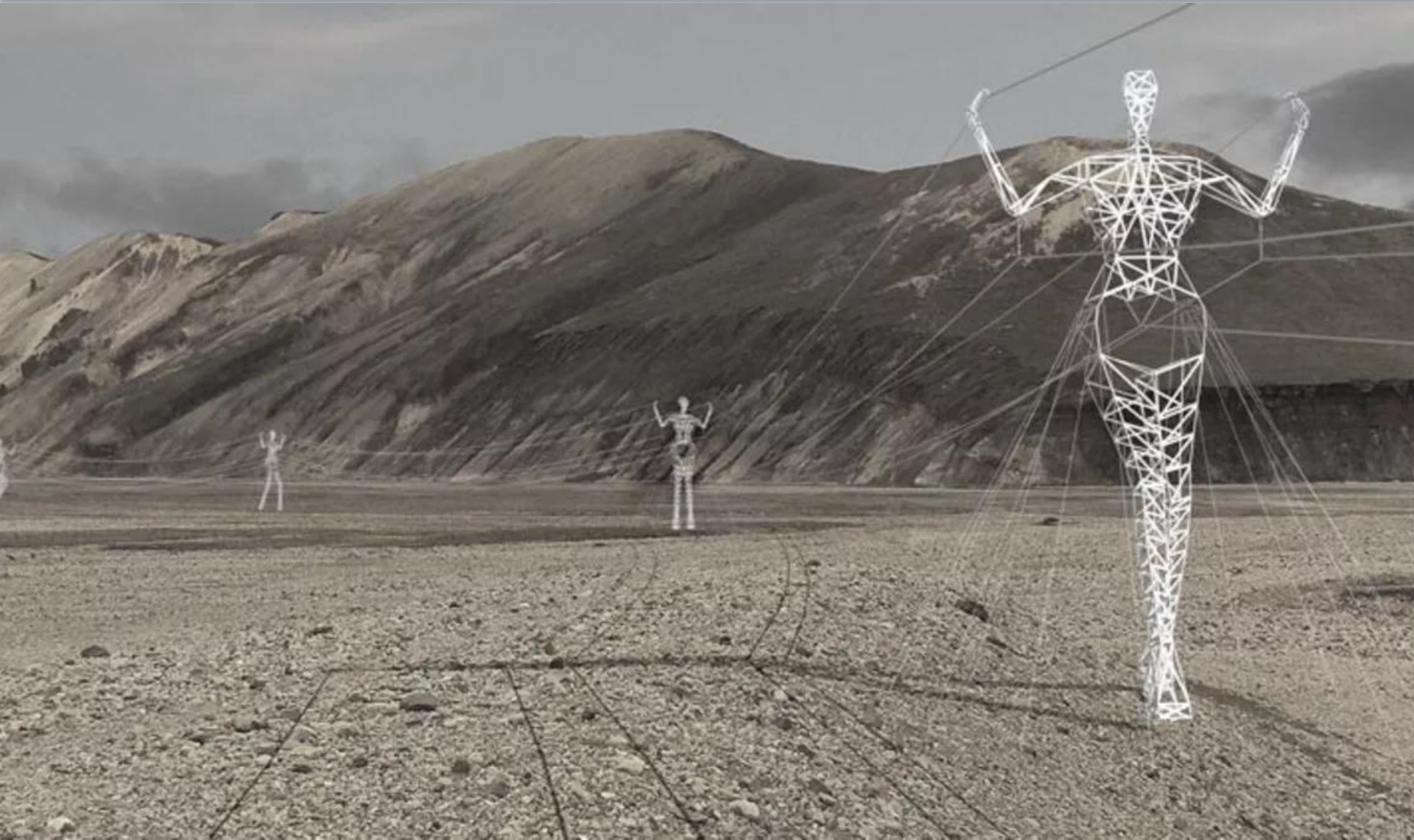
# State and local concerns: Transmission Lines



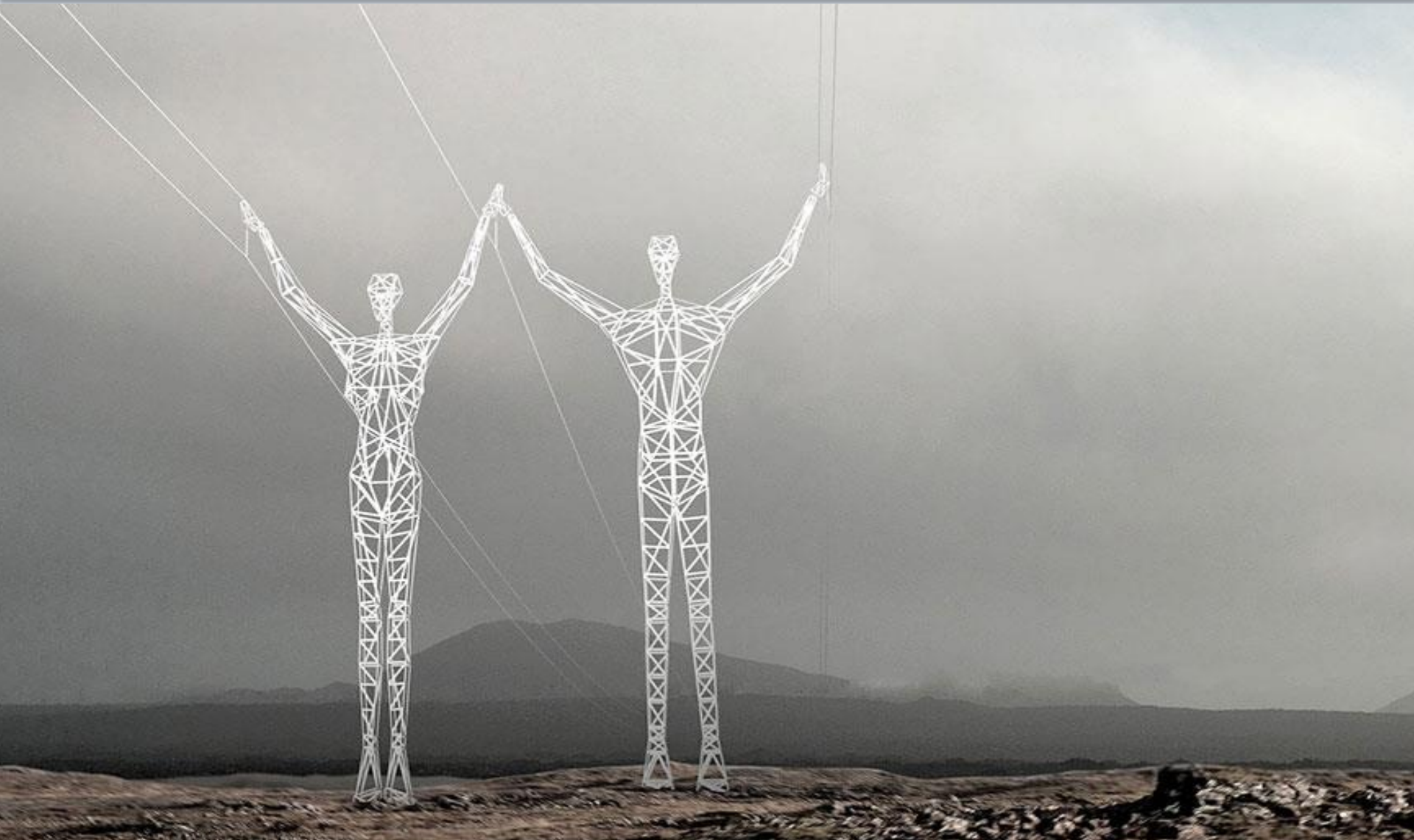
## Capacity:

Both Transmission and Distribution lines are reaching capacity in some locations. PPRP is working with our Consultants and PJM.

# Aesthetics for Transmission Lines



# Solution for Transmission Lines?



# Screening of Solar Sites

- Sufficient Vegetative buffers include:
  - Year-round, opaque screening
  - Consistency with the County recommendations
- The neighbors will call the County and us!



# Non-Compliance with CPCN Requirements



For Example, new recommended condition:

Compliance - Issues of non-compliance with CPCN conditions raised by \_\_\_ County, PPRP, or any other party to the case shall be addressed by the Project's Representative. Within 45 days of receiving notice, a summary of the non-compliance issue and a statement of how the Project has addressed or is addressing the matter shall be filed in the PSC for Case No. #####.



# Tracking the Change of Ownership of Solar facilities:



Current Point of Contact - The Applicant or its legal successor shall specify a representative for Project matters, including compliance with the CPCN conditions (“Representative”). The Applicant or its legal successor shall file in the PSC docket for Case No. ##### the representative’s contact information, including the representative’s name, title, email address and physical address. Any change in the representative or to the representative’s contact information shall be filed in the PSC docket within 30 days.

# Other Issues:



- Decommissioning of the site
  - Bond – who will hold the Bond – State or County
  - Consistency with County Requirements

# Offshore Wind



- Two projects:
  - US Wind – 248 MW in MD
  - Skipjack – 120 MW in DE

Undetermined interconnection Point

## Lessons Learned:

- Early Coordination with State Agencies



# Maryland's Onshore wind



Significant local opposition



The San Geronio Pass wind farm near Banning, Calif.

# Are there Other Possible Issues

Does PPRAC foresee any issues for the next year for CPCN Licensing?

For example: CPCN Application “Completeness”

- Insufficient County Coordination, Applicant seeking public comments