SMALL SOLAR FARMS - WHY MORE ARE NEEDED

- Michael Vickerman
- Policy Director
- RENEW Wisconsin
- November 15, 2022





On the border between City of Madison and Town of Cottage Grove





WHAT FLAVORS OF SOLAR ARE NEEDED FOR THE FUTURE?

All are needed!



Chris Clark, ceo, Xcel

Utility-scale - transmission/bulk

Utility-scale – distributed applications

Rooftop - commercial & industrial

Rooftop - residential

Solar-powered transportation

DEFINITION - SMALL SOLAR FARM

- Front-of-meter installation
- Generation remains within utility distribution system – does not enter transmission system
- ♦ < 0.5 MW < 20 MW
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3

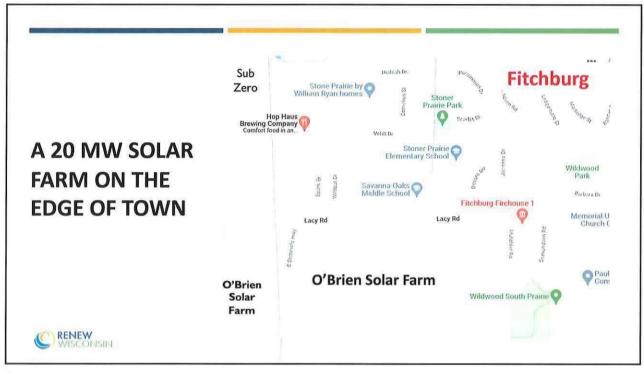
ATTRIBUTES - SMALL SOLAR FARM

- Very few landowners involved
- Relatively fast turnaround for permitting + construction
- Flexible siting urban or rural settings
- Flexible uses can serve:
 - Rate base
 - Individual customers (onsite and offsite)
 - REC (renewable energy credit) markets









7

THE POLICY CASE FOR SMALL SOLAR FARMS

- Many developable sites in Wisconsin
- Generation is community-scale (local)
- Finite supply of sites accommodating large-scale solar
- Easier to integrate traditional agriculture onsite
- Economics between small and large solar farms can be similar
- Large solar farms alone can't take utilities all the way to zero carbon



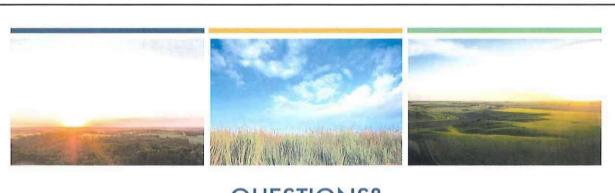
SMALL SOLAR FARMS IN DANE COUNTY

Project	Capacity (in MWAC)	Status	
Morey Field (Middleton) Dane County Airport (Madison) O'Brien Solar Fields (Fitchburg) Hermsdorf Farm (Madison) Yahara Solar (T. of Cottqge Grove)	5 9 20 8 17	Operational - 2020 Operational - 2021 Operational - 2021 Operational - 2022 Under construction (in service 2/2023) Approved (in service 11/2023)	
			6



65 MW of solar generation by 12/31/2023

9



QUESTIONS?

MICHAEL VICKERMAN, RENEW WISCONSIN

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