



# **Wisconsin Task Force on Climate Change**

## **Agriculture and Land Conservation**

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Presenters:

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# Community Solar Partnership



**Organic Valley Business Operations Powered 100% by Solar Energy!**



# Climate Strategy

## Climate Action Plan *Scope 1, 2 and 3 Targets Defined*



### PLAN BENEFITS:

- Maintain & improve position as a leader in sustainability
- Set sustainability goals beyond 100% renewable electricity
- Maintain & improve position with key customers
- Reduce risk and increase resiliency of the co-op and member farms
- Guide investment opportunities

### PARTNERS:



# Climate Strategy

## Dairy Life Cycle Assessment (LCA)

*Carbon footprint of OV dairy farms (GHG emissions + carbon sequestration)*

### Environmental Impact of OV dairy farms

1. **Greenhouse gas emissions produced**
2. Carbon sequestered
3. Water consumed
4. Water quality impacts (N & P losses)
5. Biodiversity impacts - *Future Phase*

***Timeline: Results from Midwest & New England Spring 2020;  
Pacific Northwest and California Fall 2020***

***UW Madison Research Team: R.A. Larson, H. Aguirre-Villegas, M. Wattiaux, and E. Silva***



# A Climate-Smart Farm

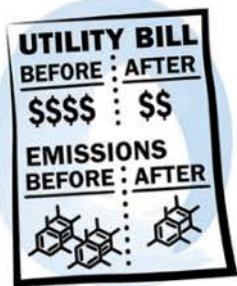


Powering *the* Good™

ORGANIC VALLEY SUSTAINABILITY

## IS ENERGY EFFICIENT

Installing equipment upgrades that save energy and reduce costs on the farm.



## USES RENEWABLE ENERGY

Replacing fossil fuel energy use with clean renewable energy produced on-farm.



## IS PERMANENTLY PROTECTED

Ag conservation easements protect farmland from development. Farmland produces less emissions than urban areas and even has the potential to be a carbon sink.



## IS A CARBON FARM

Certain conservation practices remove excess carbon dioxide from the air, where it causes harm, and sink it into plants and soil, where it is a benefit.



## PRACTICES IMPROVED MANURE MANAGEMENT

Mindful changes to the way manure is collected and stored that result in large reductions in GHG emissions.



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# California Carbon Farm Planning Pilot

*California's SB 1383 requires the dairy and livestock sectors to reduce methane emissions by up to 40% below 2013 levels by 2030.*



## PARTNERS:



Carbon Cycle Institute



CALIFORNIA ASSOCIATION OF  
**RESOURCE**  
CONSERVATION DISTRICTS

**DAIRIES:** Five pasture-based dairies in Northern California

**GOAL:** 5 comprehensive *dairy* Carbon Farm Plans, which take into account whole farm carbon flows.





Questions?

