

# Community Power Accelerator Prize

<b>Team Name:</b>	<b>Okovate Sustainable Energy</b>
City and State:	Oxon Hill, MD
Submission Title:	Community Solar Development for Optimization of Crop Production through Agrivoltaics



## Organization Overview

- Okovate is a 100% Black-owned and -operated firm making solar deployment more sustainable through agrivoltaics and dual-use habitat development using community solar models.
- Our team partners with farmers to develop and deploy community solar atop active farmland.
- Guiding Principles: Sustainable Development, Equity, and Impact

## Project Overview

- *Nickell Family Farm*
  - 2,450 kW-DC
  - Bondville, IL
- *Nadolski Dairy Farm*
  - 2,750 kW-DC
  - Ashley, IL
- *Daniken Tree and Pumpkin Farm*
  - 2,750 kW-DC
  - Pocahontas, IL
- *Bippert Farms*
  - 2,200 kW-DC
  - Elma, NY
- *Draudt's Farm Market*
  - 2,750 kW-DC
  - Hamburg, NY

## Meaningful Benefits

- *Nickell Family Farm*
  - Est. Avoided Carbon: 5,796 lbs/CO<sub>2</sub>/yr
  - Est. Water Saved: 550 Gallons/yr
  - Est. Crop Yield: ~80,000 lb/yr of pumpkins & legumes
- *Nadolski Dairy Farm*
  - Est. Avoided Carbon: 6,499 lbs/CO<sub>2</sub>/yr
  - Est. Water Saved: 465 Gallons/yr
  - Est. Crop Yield: ~86,000 lb/yr of pumpkins & legumes
- *Daniken Tree and Pumpkin Farm*
  - Est. Avoided Carbon: 6,484 lbs/CO<sub>2</sub>/yr
  - Est. Water Saved: 535 Gallons/yr
  - Est. Crop Yield: ~90,000 lb/yr of pumpkins
- *Bippert Farms*
  - Est. Avoided Carbon: 4,765 lbs/CO<sub>2</sub>/yr
  - Est. Water Saved: 400 Gallons/yr
  - Est. Crop Yield: ~35,000 lb/yr of brassicales & broccoli
- *Draudt's Farm Market*
  - Est. Avoided Carbon: 5,718lbs/CO<sub>2</sub>/yr
  - Est. Water Saved: 425 Gallons/yr
  - Est. Crop Yield: ~42,000 lb/yr of brassicales & broccoli