BUTTER SOLAR PORTFOLIO
Solar in St. Charles and the model that made it possible

Monday, October 7, 2019
St. Charles, MN | 2:00-4:30pm
Welcome to St. Charles
Proud to Serve!

- Services provided to the community
- Utility investments
Partnering Together

• UMMEG (Upper Midwest Municipal Energy Group).
  • 16 Municipals in Wisconsin, Iowa, and Minnesota

• Organic Valley, OneEnergy Renewables, BluEarth Renewables

• Landowners and Neighbors
The Role of UMMEG

- Project Size—22.6 MW
- 13 partnering UMMEG members translated into 10 projects
- St. Charles role and responsibility
  - 2MW (AC) expected to produce 3,552,000 kWh
Benefits of Solar
to UMMEG/St. Charles

- Minimal investment
- Fixed cost of a 25 year PPA
- Capacity Value
- Behind the meter avoided costs
About One Energy Renewables

- OneEnergy Renewables is an independent developer of utility and community-scale energy projects across North America
  - 120+ MW (26 projects) in service with another 10MW under construction
    - 13 projects operating or under construction in the upper Midwest

- Certified B Corp, meeting rigorous standards of social and environmental performance, accountability and transparency

- Active throughout the country with offices in Madison, Seattle, Portland, and Maryland
Revenue Structure

Long-term Renewable Energy Credit contract with Organic Valley

Long-term Power Purchase Agreement with local utilities for Energy & Capacity

In theory, this model is replicable anywhere, but most powerful in regulated markets without strong state incentives or specific programs promoting community solar.
Organic Valley Helps Bring Solar Energy To Southwestern Wisconsin

50 Acres Of Solar Projects Planned Through Partnership With Municipal Utilities, Solar Company

By Hope Kiwan

Published: Monday, November 6, 2017, 100pm
Other Ways to Maintain Economics

Build 10 projects as part of single construction mobilization

- Procure all materials together for 32+ MW portfolio
- Single financing counterparty
- USDA Loan
Portfolio By the Numbers

10 projects
32.25 MWdc
~85,000 panels
~45 Million Kilowatt Hours / year
~140 acres will be pasture or pollinator habitat

3 of 10 projects on land owned by municipality, pay rent in exchange for long-term use of the property
5 of 10 projects lease the land from private landowners
Lessons learned

Winter construction is very challenging and adds significant cost and other challenges

Strong relationships are key to ensuring smooth handoff to construction

Optimal portfolio size for financing and procurement in this case may not have matched up exactly with optimal size on construction side

USDA financing more challenging and time-consuming than originally envisioned
Eric Udelhofen
Director of Development, Midwest
Eric@OneEnergyRenewables.com
608.571.0970

Stanley Minnick
Energy Services & Technology Manager
Stanley.Minnick@OrganicValley.coop
608-625-3637