Business Item SW-2015-54 Approval of Agreements to Expand Solar at Blue Lake to Include Community Solar Gardens

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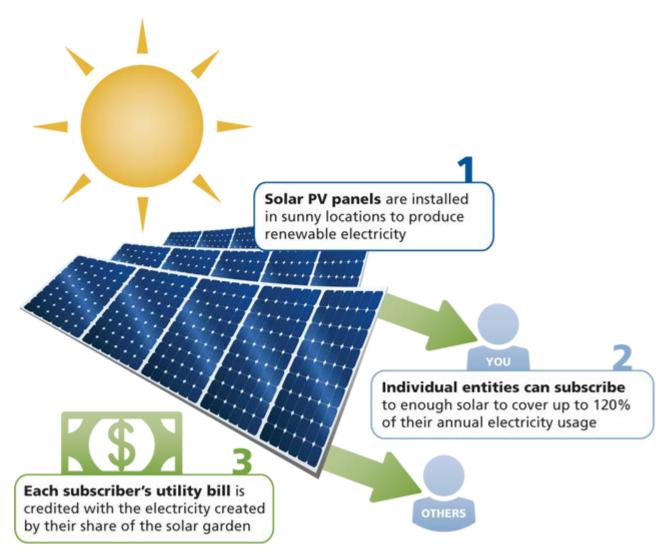
Proposed Action

Authorization to sign land lease and community solar agreement with Oak Leaf Energy Partners.





Community Solar Garden Program





Council Opportunity

- As a leader in Renewable Energy, solar energy
 - Has lesser climate, air, water impacts than grid power
 - Conserves fossil fuels
 - Improves energy independence & security
 - Supports state goals and jobs
 - Supports local communities



Project Background

- Oak Leaf
 - One of nation's largest solar developers
 - Works with municipalities with special focus on water and wastewater facilities
 - Proposes to build 4 solar gardens at Blue Lake
 Wastewater Treatment Plant

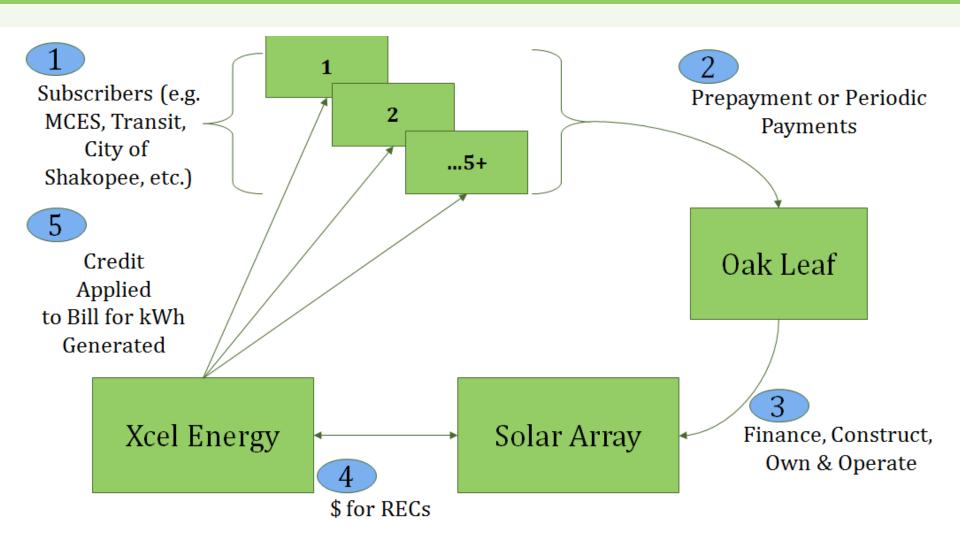


Project Details

- Four solar gardens totaling 4MW AC
 - 15,152 solar panels; ~20 acres
- Generates ~6.5MM kWh annually
 - Met Council will receive 80% or 5.2MM kWh
 - Remaining 20% goes to cities and counties
- Resides on Met Council land
- System's useful life up to 40 years
- Low profile system; No noise; No water use
- Uses native grasses
- Goal is to start construction Q4 2015

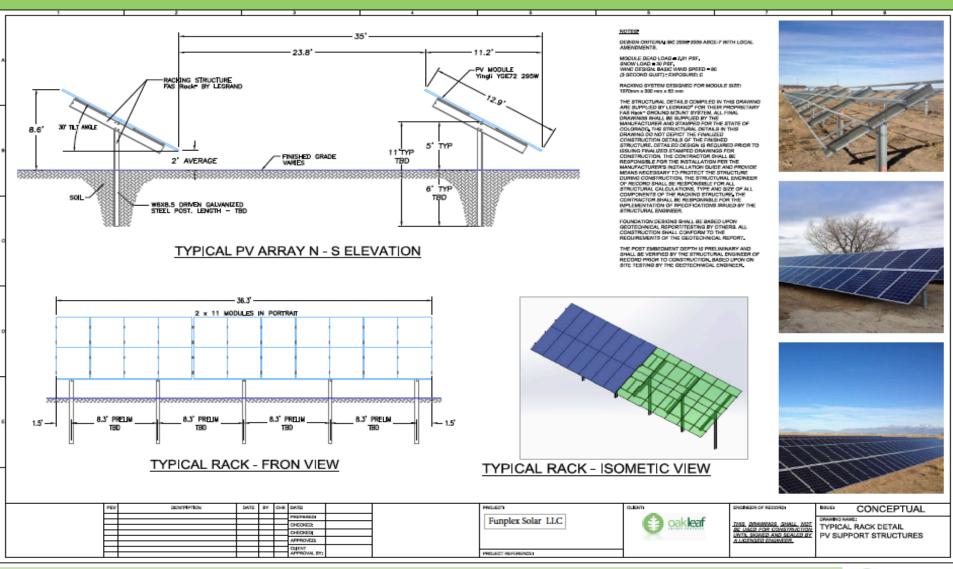


Solar Garden Economics





Solar Farm Structure





Solar Farm Inverter & Native Grasses







Solar Farm Draft Layout





Financial Benefit: Example



4 (1-MW) gardens produces about 5 million kwh/year





Solar Garden Advantages

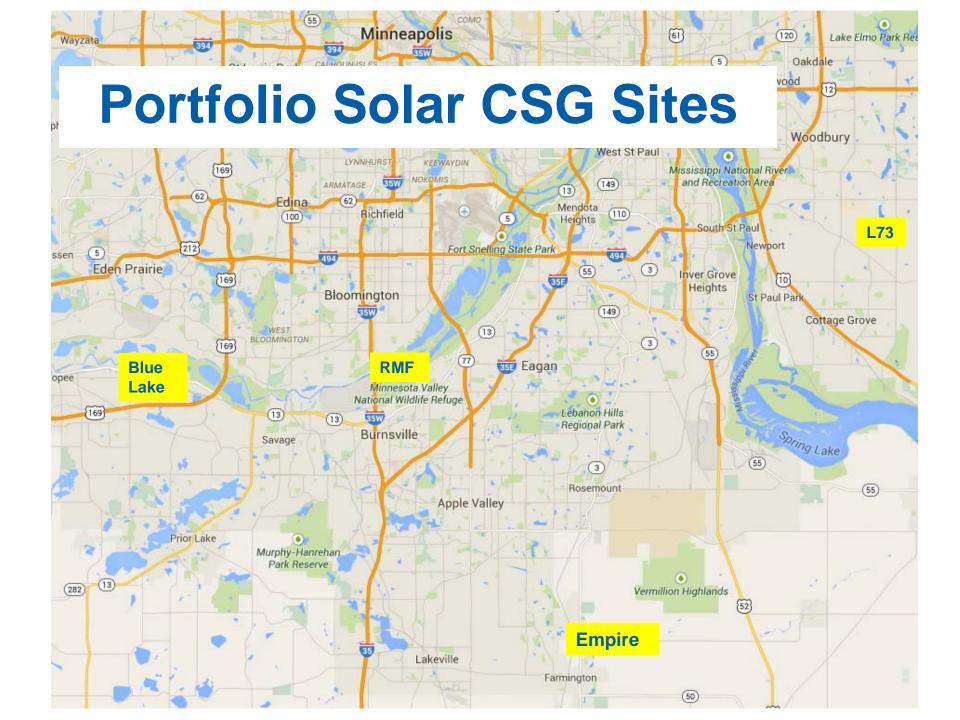
- No loss of interruptible credit
- No solar size limitations based on loading
- No plant infrastructure connection issues
- \$ utility credit is independent of what we pay



Oak Leaf Advantage

- Benefit of one solar producer:
 - Lower cost due to economies of scale for O&M.
 - Less operation disruption.
 - Better aesthetics with one large continuous array versus separate fenced areas.
 - Better security (only 1 vendor authorized).
- Low fixed price with low price guarantee
- Economies through the permitting process





Current Request for Proposal (RFP) Timeline

- Feb 20th publish RFP
- March 5th Pre-proposal meeting
- March 10th Site visits for all ES sites
- April 7th Proposal deadline
- April/May Council review proposals
- May/June Select vendor



Proposed Action

That the Metropolitan Council approves a land lease and community solar subscription agreement with Oak Leaf Energy Partners.

