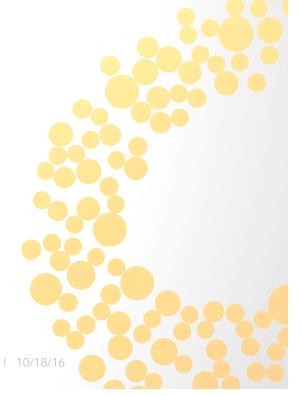
A developer's perspective

Interfacing with Xcel, subscriber issues, and permitting





The lay of the land, by the numbers...

- 34 months since the program launched
 - 400+ applications submitted day 1
- 400kW online
 - 4 individual projects
 - Average project size in queue: 3.75MW (803 MW, 214 sites)
- 1,253 projects withdrawn from the program
 - (1,204 MW at 214 different project sites)
 - Co-location limitations
 - Service territory issues
 - Financability
 - Permitting
 - Substation capacity or prohibitively high interconnection costs



Working with [and grappling with] Xcel...

- Shifting timelines
 - ITC cliff
 - PUC programmatic changes
- Grid transparency
 - The black box of Xcel's distribution system
 - Info necessary to make educated site-selection decisions at the outset
 - Increased information by trial and error
- Construction "standards"
 - Disparity between Xcel's standards and what landowners and communities want (i.e. the pole farm issue)
- Conflicting interpretations of PUC directives



Subscriber issues...

- Explaining complicated program mechanics in simple terms
 - REC ownership and "going green"
- Subscriber demands
 - Solar garden subscription allocation
 - Over-subscribing
 - Date certainty
- Credit requirements of financial partners
- Streamlining residential contracts
 - Balancing readability with financablility
 - Balancing lenient termination provisions with financability
 - Non-negotiable



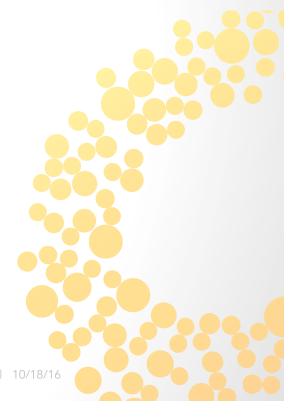
Permitting community solar projects...

- The bad: moratoriums, misnomers and conflicting standards
 - NIMBYism and the fear of change
 - Preservation of farmland pitted against solar garden development
 - Misconceptions about solar technology (i.e. stray voltage, toxic panels, fire hazards, and propensity for attracting terrorism)
 - Solar panels treated as an impervious surface (MN PCA)
- The good: new ordinances, excited neighbors
 - Recognizing the need for clean energy
 - Preference for a solar garden over subdivisions



Lessons learned...

- Examples and insights employed in programmatic markets across the country
 - Overall program size limitations
 - Project size caps
 - Residential subscription requirements
 - Low- and moderate-income carve-outs or incentives
 - Preferred development "zones"
 - Concrete timeframes





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