

# Johnson Corner Solar Project



## Why Solar? Why Now? Why Here?

- Price of photovoltaic technology has declined significantly
- Large solar projects are cheaper than smaller projects on \$/kW and \$/kWh basis due to economies of scale
- Kansas' largest solar facility located in the part of the state that has the greatest solar irradiance
- Qualifies for federal tax incentives that are being phased out beginning 2020
- Will defer or eliminate costly transmission upgrades due to its interconnection location on the bulk electric grid
- Value derived from energy, capacity, and transmission savings provides a positive impact on keeping rates low to our Members
- Affordable solution for electric co-op members who want solar energy without the hassle of owning and maintaining residential panels
- Attractive feature to potential new commercial and industrial customers looking to locate in our service territory
- Provides an on-peak, fixed-price hedge against the market price of energy
- Provides diversity to our generation resource portfolio

## Project Summary

- A collaborative project between Mid-Kansas, Lightsource BP, and the National Renewable Cooperative Organization (NRCO)
- Nameplate Capacity (AC): 20 MW (2% of combined system peak)
- Expected Accredited Capacity (AC): 15 MW
- Year 1 Capacity Factor: 31.7%
- Year 1 Expected Energy: 55,538 MWh (1% of combined system energy)
- Expected Commercial Operation: Second half of 2019
- Number of Panels: Approximately 86,000 solar panels
- Racking Type: Single-axis tracking
- Location: 2 miles from Johnson, KS
- 25-Year Power Purchase Agreement
- Acreage: 241

