

# Where does the Solar Farm fit in campus' energy system?

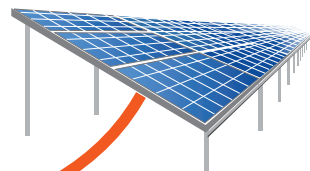
## WIND POWER PURCHASE AGREEMENT

Through 2026, the university is purchasing approximately seven percent of its annual electrical demand from Rail Splitter Wind Farm, LLC



## SOLAR INSTALLATIONS

The Solar Farm is a utility-scale installation that produces about two percent of the electricity used on campus. Additionally, several campus buildings have small-scale rooftop solar installations.



## ENERGY MANAGEMENT CONTROL CENTER

Center operators use integrated data and control systems to create accurate demand and consumption forecasts. System displays aid in discovering inefficiencies, triaging problems, and dispatching corrective work.



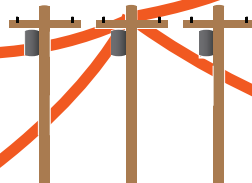
## ENERGY MARKET PARTICIPANT

The university purchases about half of the electricity used on campus through Prairieland Energy, Inc.



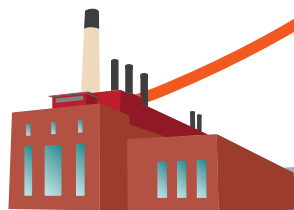
## CAMPUS ELECTRICAL DISTRIBUTION SYSTEM

Utilities distribution maintains 58 miles of transmission lines which deliver electricity to campus. The majority are underground.



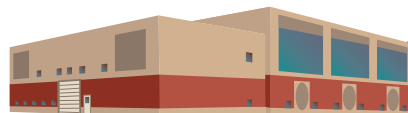
## ABBOTT POWER PLANT

This state of the art co-generation power plant produces both steam and electricity simultaneously, supplying the majority of energy for campus.



## CAMPUS CHILLED WATER SYSTEM

A central distribution system uses water from regional chilled water plants to provide cooling for the majority of buildings on campus.



**ELECTRICITY**

**STEAM**

**CHILLED WATER**

## THERMAL ENERGY STORAGE TANK

Chilled water is produced at night when electric rates are low. It is stored in a 6.5 million gallon water tank and used to provide cooling during the day when electricity rates are high.

