



Above: The Kiewit Fitness Center solar roof will provide 20,500 watts of power.

Alternative Energy Installation

This year, Creighton University begins to run on clean, renewable solar power. When completed, Creighton's new energy infrastructure will be the largest solar installation in the state of Nebraska. Together with four wind turbines, Creighton's solar panels will produce approximately 120,000 watts of renewable energy.

THREE SITES

Alternative energy production will begin at three sites across campus. Above the Kiewit Fitness Center, photovoltaic cells will be installed over 2160 square feet of the existing south-facing roof. Just south of the Lied Center for the Performing Arts, four vertical wind turbines and a tracking solar structure will be installed. Lastly, a student-configurable array of solar panels will be built above the Cuming Street parking lot. These panels will be elevated above existing parking; only two spaces will be lost.

STUDENT-CONFIGURABLE

Besides providing renewable power to the university, this project also enables student learning and research. The student-configurable Cuming Street site includes various types of crystalline solar cells, mounted on both fixed- and movable-type arrays. Using these different technologies allows students to determine which thrive in Nebraska.

WEATHER STATION

Different solar technologies work best at different latitudes and with different weather patterns. Therefore, the Cuming Street site will include a weather station, which will compare solar production to ambient light and temperature. Students can determine which technologies and methods are most effective in Nebraska. These findings will guide future alternative energy installations throughout the state.

Below: Just south of the Lied Center for the Performing Arts, four wind turbines will provide 4,800 watts of power.
Bottom-left: A tracking solar panel near the Lied Center will produce 3,500 watts.
Bottom-right: A student-configurable array above the Cuming Street parking lot will provide 90,000 watts of power

