

PASEO SOLAR PROJECT

As a part of the SmartGrid Demonstration, KCP&L will be installing approximately 100 kW of solar energy generation at Paseo Academy in the Green Impact Zone.

- This will be the largest solar energy system in the Kansas City metropolitan area.
- In addition to this rooftop solar energy system at Paseo, KCP&L will be installing an interactive display in the school so that teachers and students can learn how solar energy works.
- KCP&L has a 20-year leasing agreement with Paseo for this system. KCP&L is leasing the rooftop space from Paseo. After 20 years, the system will belong to the high school.

KCP&L selected Brightergy, a locally operated, full-service renewable energy service provider, to install a 100 kW SunPower system, made in the USA.

- This project also creates a partnership with Local 124 of the International Brotherhood of Electrical Workers (IBEW). Through this project, the IBEW Local 124 will partner with Brightergy to learn new renewable energy skills for its members.
- For the Paseo project, Brightergy is partnering with Alpha EE, a minority-owned IBEW electrical contractor.

As a part of KCP&L SmartGrid there will be a total of 180 kW of solar energy generation installed throughout the demonstration area.

- The exact locations for the other solar projects have not been determined. However, these will be in locations that benefit the community including churches, schools and neighborhood associations.
- The solar energy from these installations will be tied directly to the electric grid so KCP&L can study the dynamics and availability of renewable energy. By synchronizing that distributed energy with the grid, and providing real-time visibility and energy information to system operators, the SmartGrid can operate more efficiently and distribute power where it's needed.

What is the status of the property lease with KCMSD?

- The solar lease was signed September 2011.

What is the specific size of the solar array?

- Based upon the final panel choice and panel layout the final size will be 99.2 kW.

What is the brand of solar panel selected?

- The Sunpower Power Guard Solar Roof tile
- Each panel is rated for 308 watts

What is the installation timeline for the project?

- 9/20 – Joint kick-off meeting with KCMSD, Brightergy, Alpha EE and KCP&L
- 10/14 – Electrical Infrastructure installation begins
- 10/27 – Tie-in to KCP&L distribution transformer
- 10/27 – Delivery of solar panels
- 10/28/- Lifting of panels to the school auditorium rooftop
- 12/9 – 12/23 – System Commissioning (Weather Dependent)