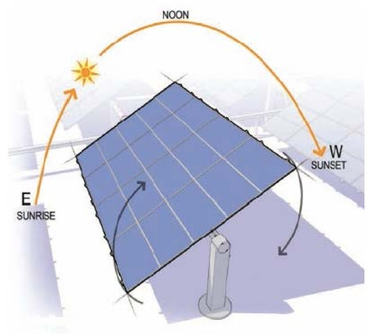
UC Solar Power Initiative

Project Overview & Environmental Benefits

- UC entered into a long term Power Purchase Agreements with the 60MW Five Points Park & 20MW Giffen Solar Park both located in Fresno County, CA
- The projects will generate ~**200,000MWh/year**, enough power for approximately 30,000 homes
- The projects will use high efficiency solar photovoltaic modules mounted onto a single axis tracking system.
- The projects will supply power to UC Direct Access and WAPA served campuses
- Commercial Operation Date: December 2016
- The projects connect directly to the California Independent System Operator (CAISO) controlled transmission system
- UC will manage the power as a registered Electric Service Provider (ESP)
- The UC System will receive all power and environmental benefits including RPS Category 1 Renewable Energy Credits (RECs)
- The clean power generated will avoid approximately **88,000 tons of CO2** annually

- Electric Service Provider (ESP) are a non-utility entity that offers electric service to customers within the service territory of an electric utility
- ESPs are required to register with the California Public Utilities Commission

Single Axis Tracking Example

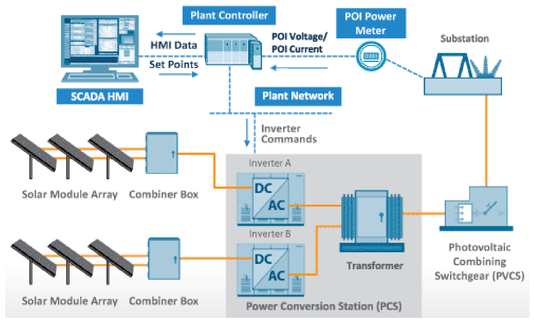


•Increases system energy production output by approximately 30%
•Generates more power during utility peak load periods, usually afternoons during the summer months
•Maximizes energy production per solar panel resulting in less per-unit installed equipment

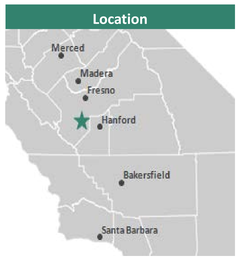
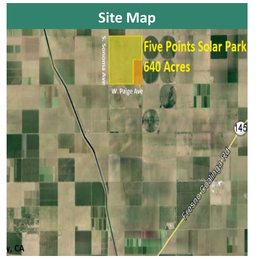
California RPS Content Categories

RPS Portfolio Content Categories	Definition	Examples
Category 1 procurement is: Procurement of Energy and RECs delivered to a California balancing authority (CBA) without substituting electricity from another source	• Energy and RECs from an RPS-eligible facility that is directly interconnected to the distribution or transmission grid within a California balancing authority area (CBA); or • Energy and RECs from an RPS-eligible facility, that is not directly interconnected to a CBA, but is delivered to a CBA without substituting electricity from another source; or • Energy and RECs dynamically transferred to a CBA.	1. Wind facility in Washington state delivers Energy and RECs with firm or non-firm transmission according to an hourly or sub-hourly schedule 2. Biomass facility directly interconnected to CAISO delivers Energy and RECs
Category 2 procurement is: Procurement of Energy and RECs that cannot be delivered to a CBA without substituting electricity from another source	• Buyer simultaneously purchases Energy and RECs from an RPS-eligible facility, where the energy must not be already committed to another party, without selling the energy back to the generator; • Renewable generation is firmed and shaped with substitute electricity that is scheduled into a CBA within the same calendar year as the RPS generation; and • Substitute electricity provides incremental electricity to the buyer.	1. Buyer procures Energy and RECs from Wind facility in Oregon; renewable Energy is firmed and shaped by third party; substitute electricity is delivered to buyer; RPS credit equals the volume of RECs generated by wind facility
Category 3 procurement is: Procurement of unbundled RECs only, or RECs that do not meet the conditions for Category 1 and 2	• Unbundled RECs originally associated with generation from an RPS-eligible facility (i.e., no Energy procured); • Unbundled RECs that do not qualify under the criteria of Category 1 and 2.	1. Buyer procures unbundled RECs from RPS-eligible facility (could be from a wholesale generating facility or a customer-owned facility) 2. A Category 2, firmed and shaped transaction, where some of the substitute electricity is not scheduled in the calender year of the RPS-eligible generation

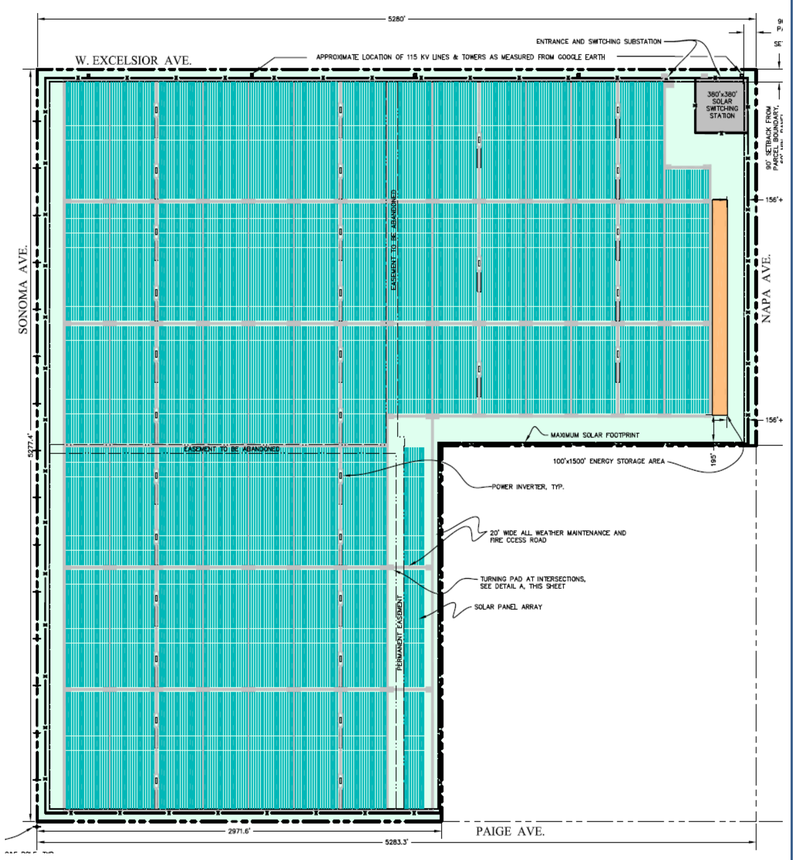
Utility Scale Solar Park Operational Diagram



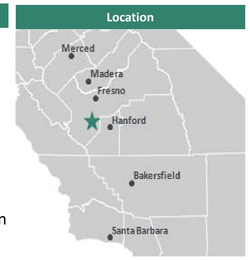
Five Points Solar Park

Site Summary	Location	Site Map
Size: 60 MW_{AC} **Location:** Five Points, Fresno County, CA **Solar Irradiance:** 2,105 kWh/kW/year **Point of Interconnection:** On-Site/NP-15		

Future Site of the 60MW Five Points Solar Park Five Points, CA



Giffen Solar Park

Site Summary	Location	Site Map
Size: 20 MW_{AC} **Location:** Cantua Creek Fresno County, CA **Solar Irradiance:** 2,097 kWh/kW/year **Point of Interconnection:** Giffen Substation On-Site/NP-15		

Future site of the 20MW Giffen Solar Park Cantua Creek, CA