



INTRODUCTION TO THE EBCE BOARD

Dedicated to Alameda County

WALK ON THE SUN



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Our Commitment to Alameda County



As a local company based in Oakland, Sunwalker's commitment to Alameda County is unprecedented. With over 1.5 million residents & the 4th most racially diverse County in the United States, we look to source as much economic benefit within the County as possible. That not only means working with local land owners but also taking into mind that we purchase as much equipment from fellow businesses within Alameda County as possible. Job creation through the renewable energy industry in Alameda County couldn't be more important to us.

Our main goals when developing and building our solar farms in Alameda County is to:

-  Work with Land Owners to lease over 5,000 acres inside the Alameda County boundaries to provide long-term secure income over a 20 year period.
-  Hire over 95% of our construction jobs from workers that live in Alameda County. Currently, we are in the process of finalizing a Project Labor Agreement with the Building & Construction Trades Council of Alameda County.
-  Sell 100% of the electricity produced by our solar farms to residents, businesses and government agencies located in Alameda County.
-  Procure over 95% of the equipment used in our solar farms from our partner companies that operate in Alameda County. This includes solar panels, trackers, inverters and balance of system equipment.
-  Allow local School Districts to take field trips to our solar farms and provide in-class curriculum focused around sustainability, renewable energy & climate change.

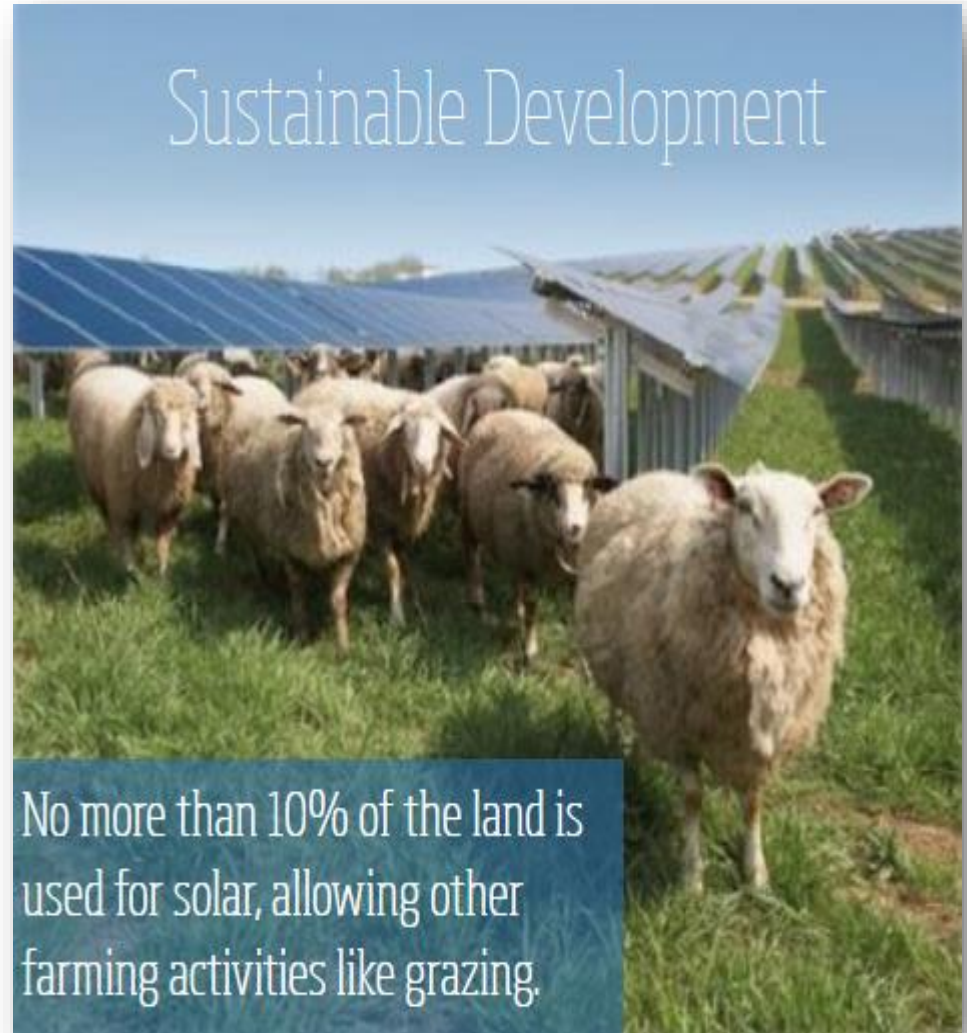
Sustainable Development



Our site designs guarantee that the land we develop our solar farms on are minimally disrupted. Our panels are scalable and customizable to fit each project. At the end of the life of each project, we remove the system and bring the land back to its original condition prior to the solar farm being installed.

While in operation the solar farms can be grazed and farmed for vegetables or even bees. We believe in the many benefits of dual use activities for our project sites.

The solar farms are also safe for local students in K-12 to visit on field trips.



Our Educational Programs



With each solar farm that we build, we'll provide an educational program based around sustainability, renewable energy & climate change to a local school district in Alameda County. Students will be provided the opportunity to take a field trip to their local solar farm to learn from an on-site walk. Once back in the classroom, our labs will provide a basic understanding of each topic that teacher's will be able to provide on an annual basis. These programs have been used in the Palo Alto School District and have been previously funded by the Packard Foundation.



THE SOLAR LAB

The Solar Lab is an interactive solar fountain designed to teach several topics in the area of math, science, ecology, and renewable energy.

Each site registered with the program will receive a Solar Lab which can be mobile or permanently installed.

The Solar Lab employs solar power — with an actual working solar panel — to run a water pump. Students can manipulate the angle of the solar panel to see the effect its angle and position has on the water flow.

The Solar Lab includes Solar Education Cards that explain how solar energy is generated and the benefits of using renewable energy.



Our Sun and Earth in orbit

What is the best angle to maximize electricity production?

How does a PV Panel generate electricity?

The Sun's energy is absorbed by the P-N junction and creates an electron (-) and hole (+) pair. When the electron and hole recombine, it results in an electrical current. The electrical current can be used to power a light bulb.

Semiconductor P-N junction diode

- Cover a portion of the solar panel with one of your hands. What happens?
- Why does the water stop flowing, when only a small portion of the solar panel is covered?
- Have you ever heard of an L.O.S.? Do you know how it works?

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Livermore Community Solar Farm

Project Overview



The Livermore Community Solar Farm was formed to develop a 3.97MWp solar PV project. To-date, \$1.5MM has already been invested into the local community from this project alone. At the commissioning ceremony, we would like to honor the Board and County Staff for your work in establishing East Bay Community Energy Authority.

Project size: 3.97MW-dc / 3MW-ac

Year 1 Production: 8,253,512 kWh

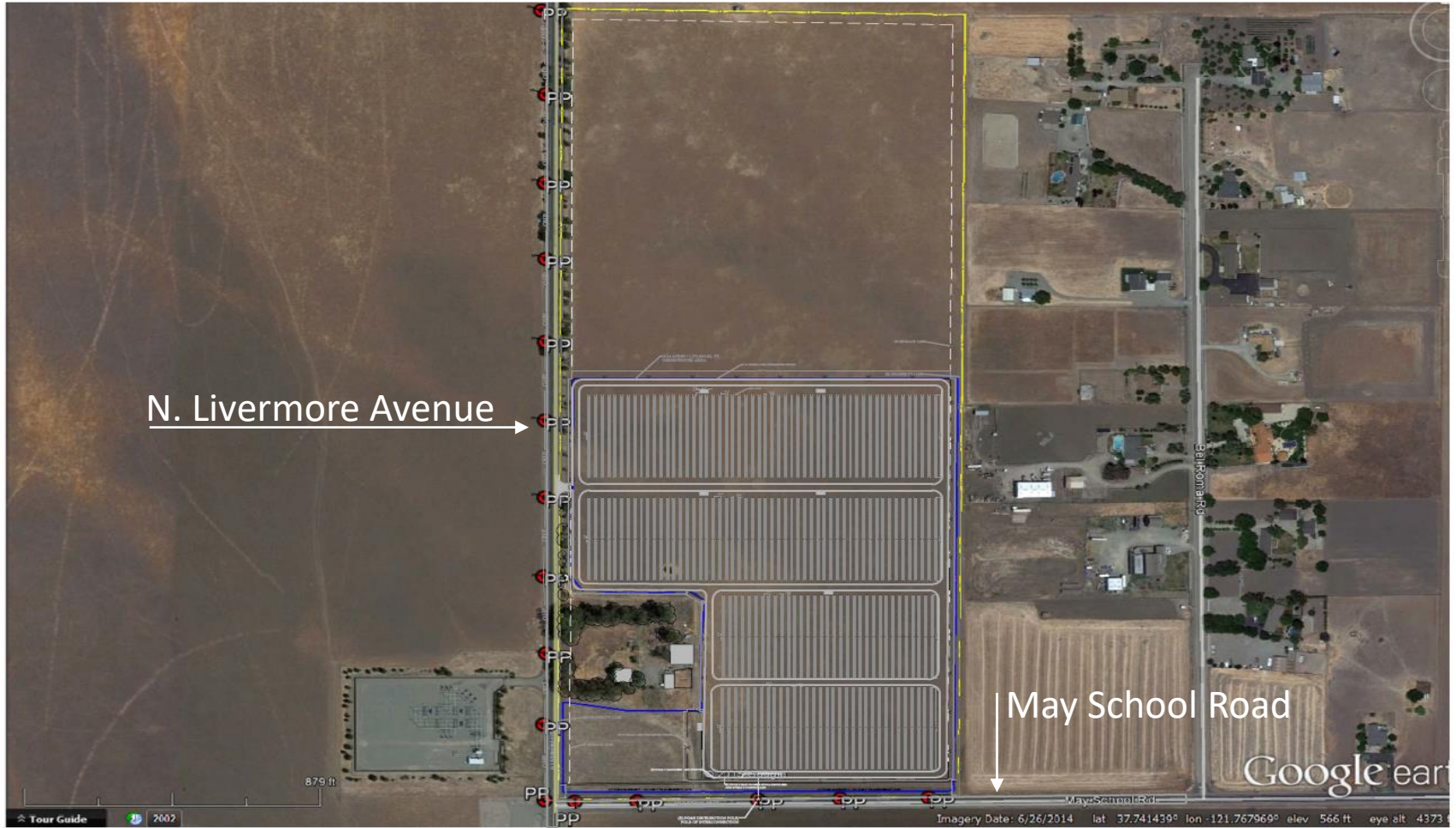
Interconnection Utility: PG&E at 21 kV

Commercial Operation Date: May, 2018

Expected Operating Lifetime: 40 years

School District: Livermore Valley Joint Unified School District

Livermore Community Solar Farm Site Plan



N. Livermore Avenue →

↓ May School Road

PROJECT TITLE 3.00 MW AC 3.96 MW DC PHOTOVOLTAIC ON GRID SYSTEM	
PROJECT NO. N. LIVERMORE	PROJECT ADDRESS 4871 N. LIVERMORE, LIVERMORE, CA 94550
DATE _____	DATE _____
SCALE 1" = 290'	PROJECT TITLE PROPOSED SOLAR SYSTEM
DRAWN BY C1.0	REVISION _____

PROPOSED SOLAR ARRAY SITE PLAN



Livermore Community Solar Farm Rendering





Local Focus and Job Creation

5-Year Plan: Alameda County Job Creation



As part of our initial 5-year plan for development within Alameda County, we plan to develop and build more than 335MW of solar PV projects and 370MWh of energy storage projects that will contribute to significant job creation and local economic impact.

Year	Long Term Job Creation	Construction Job Creation	Local Economic Benefit (\$MM)
2018	13	68	33
2019	9	267	128
2020	13	375	182
2021	13	405	224
2022	17	215	190
Total	64	1329	757

*Long Term Job Creation estimate is based on Sunwalker's individual hiring for jobs that have a period of more than 12 months.

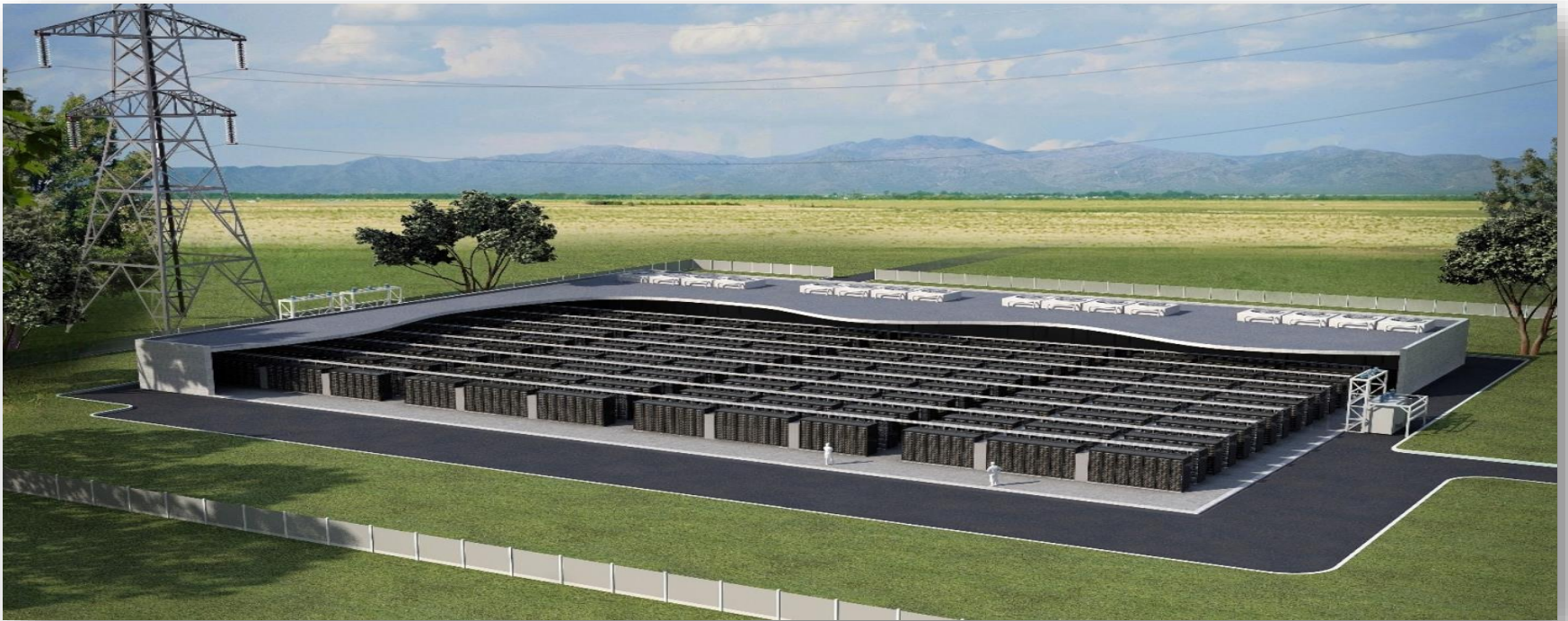
**Construction Job Creation estimate is based on using Union Labor within Alameda County within the construction process from ground breaking to final completion.

***Local Economic Benefit is calculated using all in-county construction labor, equipment suppliers, property lease payments, permitting services, engineering and long-term operations and maintenance. Estimate does not include revenues from the sale of the power created or stored.

Energy Storage – Our Path to 100% Renewables



As EBCE proceeds down the path of renewable energy integration, energy storage will soon become the biggest enabler of a high penetration of renewables. We understand that the intermittency and seasonality of renewable energy will need the support of energy storage and because of this, we are committed to setting aside a portion of property at each one of our solar PV project sites for energy storage in the future. We hope that in the next 5 years, EBCE will begin heavy procurement of energy storage within Alameda County and we look forward to providing terawatt hours worth of energy storage in the future.



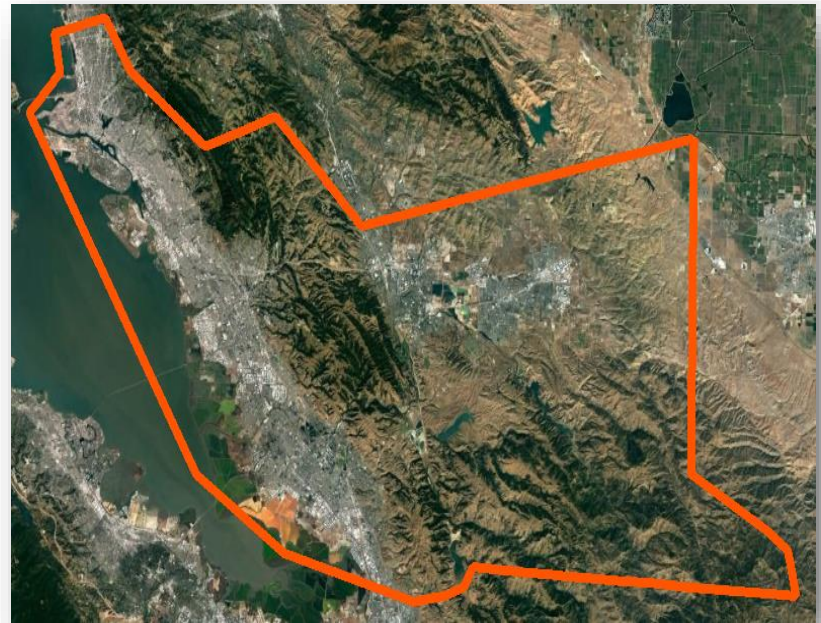
Comparing Oahu to Alameda County



The State of Hawaii has set the goal of 100% renewable energy by 2045. With Alameda County currently discussing the goal of integrating 50% of its renewable energy from in-county resources by 2030, we hope that a new goal similar to that of Hawaii is established as Alameda County is significantly larger in sq. miles and has a similar, if not better renewable resources than the Island of Oahu. 100% renewable energy from in-county resources is completely possible for Alameda County, it just takes the political gusto to keep the full local benefit within the County.



The island of Oahu is 597 sq. miles.



The County of Alameda is 821 sq. miles

100% Renewable Energy from In-County Resources



We hope that the Board maintains its goal of providing 50% load from in-county resources by 2030 but we ask you to think a little further than that. It is fully possible, with the right plan and political decisions that EBCE can get to 100% of its electrical consumption needs from Renewable In-County Resources by 2040, while providing affordable and more cost-effective power to its residents. Under this scenario, flexible resources will be needed and months of energy storage that are adjustable to the local seasons will need to be implemented but it is completely possible in the not too distant future. We look forward to working with EBCE, Alameda County and the local cities over the next 23 years in achieving this goal.



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THANK YOU

DEDICATED TO ALAMEDA COUNTY