



Executive Summary

Environmental Problem

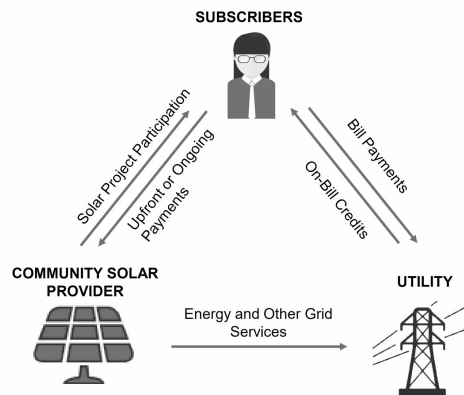
California's energy landscape presents a dual environmental problem: the need to encourage renewable energy development to **mitigate climate change**, and the **unequal distribution** of energy affordability and accessibility. California residents pay **48%** more on their electricity bills than the national average. While rooftop solar policies have reduced the burden for majorly high-income households, low-income households often cannot afford solar installation (Borenstein, 2022).

Our solution

Green Credit connects electric utility customers unable to afford or access renewable energy to community solar projects through our easy-to-use subscription platform.

Unlike existing platforms, our **community-centered** focus provides materials and information for users from different linguistic, cultural, and educational backgrounds.

The Community Solar Model



Source: GTM Research Wood Mackenzie

Drivers

Policy

The proposed Net Value Billing Tariff creates a pathway for **1.7 GW** capacity community solar development in California.

51% is proposed for low-income & environmental justice communities.

Education

All **8** Oxnard focus group participants expressed desire for more options and education on cleaner energy and would subscribe to a project if it were available.



Source: Aurora Energy

Team members

Lindsay Edelman

Gabe Ingman

Meet Muchhala

Faculty advisors

Emily Cotter

Don Fullerton

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Market Potential

Potential market

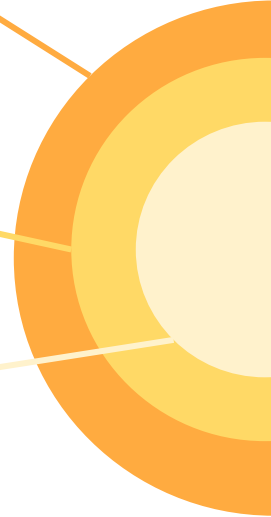
Community solar market in CA projected at **1.7 GW** capacity by 2030.

Target market

1.5 million low-income households to benefit from access to community solar as subscribers.

Attainable market

30% of subscribers market can be attained under Green Credit business model.



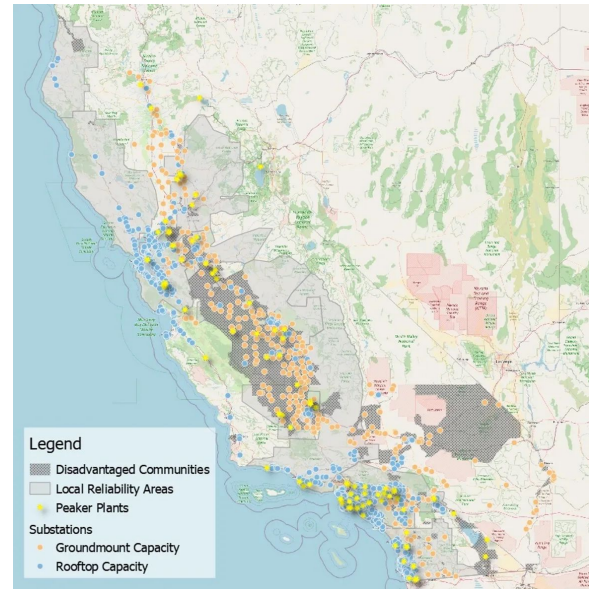
Impacts



Household Impacts

2 million low-moderate income households in California could save up to **\$500** on their electricity bill annually.

CA Community Solar Potential Map



Source: Coalition for Community Solar Access

Community level impacts

Los Angeles could displace **61%** of peaker plant emissions that cause air pollution related illnesses and generate more than **2 GW** of clean energy with 100+ community solar & storage projects.

State level impacts

Potential for **\$12 billion** investments into community solar projects and access to **\$1 billion** in federal incentives for California.

Challenges

The monopoly of utilities in California presents **major regulatory roadblocks** for accessing existing community solar programs.

Increased **policy prioritization** of unified green grid than community centered decentralized energy systems.

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