SOLAR STEWARDS MARKETPLACE

www.solarstewards.io



Methodology

People

Black Community
Indigenousness
Latinx
LGBTQ+
Immigrant
Refugee
Children/Youth
Seniors
Veterans
Students
Women/Girls
Small Business
Low and Moderate Income
Re-entry

Energy Burdened

Communities

Historically Redlined
Coastal Community
Opportunity Zone
Endangered Habitat
Least Developed
Country (UN LCD)
Island Nation/ Territory
Brownfield
HUD Zone
Persistent Poverty
Coal Community
Distressed City
Health Equity Zone

Mission

Universities and colleges
Places of Worship
Primary & K-12 schools
Libraries & museums
Affordable/Workforce Housing
Agriculture and Food Access
Non-Profits & NGOs
Healthcare & Senior Housing
Local Governments
Dirty Grids
International

Climate Steward

Corporate buyers of RECs who value both environmental and social benefits

Social REC Buyer

Our *climate stewards*buy the **social renewable energy**credits from our
community partners

Corporate Partners

Our climate stewards are *corporation* who are devoted to equity and justice in *historically excluded*

Community Partner

Sellers of social renewable energy credits that generate equitable solar energy from historically excluded communities

Renewable Energy Generator

Our community partners produce social RECs by generating renewable energy through solar

Historically Excluded Sites

Our community partners are *historically excluded communities* that are on the *front lines* of the climate crisis



The Solar Stewards Marketplace is a connector for Climate Stewards and Community Partners

JEDI: MARKETPLACE

Lack of digital literacy Limited Inability to iob and educational connect opportunities with investors Energy Lack of Systemic Barriers equity **Project** obstacles Exposure Limited Lack of supplier financial diversity literacy Lack of of energy

- While the energy market is growing at a rapid rate, the disparity within the allocation of renewable resources has also increased.
 - Over 50% of African American households in Mid-Atlantic cities face energy insecurity
 - In 2019, the solar industry's workforce was 7.7% black or African American
 - According to DOE the national average energy burden for LMI households is 8.6%, 3x higher than non-LMI households (3%)

MARKETPLACE OBJECTIVES AND SOLUTIONS

In creating a platform for **community partners** (stakeholders with renewable energy serving diverse stakeholders) and **climate stewards** (buyers focused on equity), a new form of communication has been created to facilitate the exchange of social renewable energy credits.

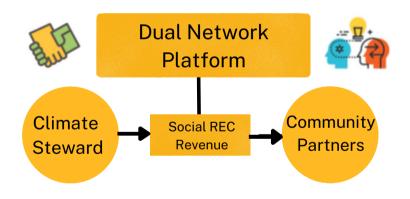
Major Objectives:

- Encourages solar energy use within historically excluded communities
- Bring exposure to projects with diverse teams
- Minimize the social disparities within distributed energy resources
- Financing with economies of scale to attract corporate partners
- Corporate leverage with utilities
- Helping project economics with Social REC Revenue
- Helping to include training, steam, digital and energy literacy
- Helping to include storage ready and increase resilience
- Creating opportunities for DERs (Distributed Energy Resources) in historically excluded communities
- Decrease energy burden & introduce opportunities for restorative justice



BUSINESS MODEL

Power Purchase Agreement - an arrangement in which a developer (community partners) operates and owns a solar site on a customers (climate stewards) property.





- The Marketplace possesses a dual network model for REC revenue to be passed to Community Partners.
- The Marketplace's infrastructure creates a platform for climate stewards (buyers) to subscribe to the marketplace to reap a variety of benefits and connections.
- Investors can view a variety of solar projects as well as their REC prices, annual MWh, and desired term contracts.

FUTURE STEPS FOR THE SOLAR STEWARD MARKETPLACE

Solar Steward's next steps lies in:

- Advancing Social Renewable Energy Credits through the creation of Social REC bid opportunities
 - This would include the use of tiers in which the REC prices would gradually increase
- Connect with the Artificial Intelligence and Technology Office (AITO) of the DOE
 - Explore the possibilities of advancements through transformative artificial intelligence and geospatial data science in relation to the Solar Stewards Marketplace

Prospective Advancements Talk to wholesale markets

Protection for energy attributes

Distribute energy resources

Integration with Climate & Economic Justice Screening Tool BETA

National Average Energy Burden

