



| 2019-2020

DESIGN CREATE SOLAR AT UCLA
INFORMATION FOR PARTNERS
AND SPONSORS

Information

Thank you for your interest in supporting Design Create Solar, UCLA's first Solar Energy student organization.

Founded in Spring 2019, Design Create Solar is a non-profit technology oriented student organization at UCLA that strives to bring students from different educational backgrounds together to brainstorm, design and ultimately produce solar energy solutions to energy-related issues within the UCLA community and underprivileged communities around the world.

Although we are a club that is based on Engineering principles, our organization is a hub for UCLA students from all backgrounds. We are an eclectic group of students that use engineering, artistic, marketing, and business skills to shine light on the global energy and environmental crises and to get the public excited about Solar Energy as an effective solution.

This partnership packet illustrates ways your organization can partner with ours to work towards a greener future while addressing essential needs of the underprivileged. Through our partnership, we aim to expand your influence and jointly inspire an environmentally and socially conscious globe.

Listed in this sponsorship packet is an outline of our goals for the upcoming year. We welcome you to kindly review our work and hope you consider supporting us with a tax-deductible donation.

Sincerely,

Rashed Alkhlaifat
PRESIDENT

George Shenusay
VICE-PRESIDENT

Aswath Raman
FACULTY ADVISOR



PROGRAM
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Programs

Design Create Solar has three main programs that our organization focuses on throughout the year.

These are the IMPACT program, the @UCLA program, and the COLLABORATE program. For the 2019-2020 school year, Design Create Solar will be focusing on our IMPACT program and the @UCLA program that will help the local UCLA community as well as a community in need abroad to have a truly global impact.

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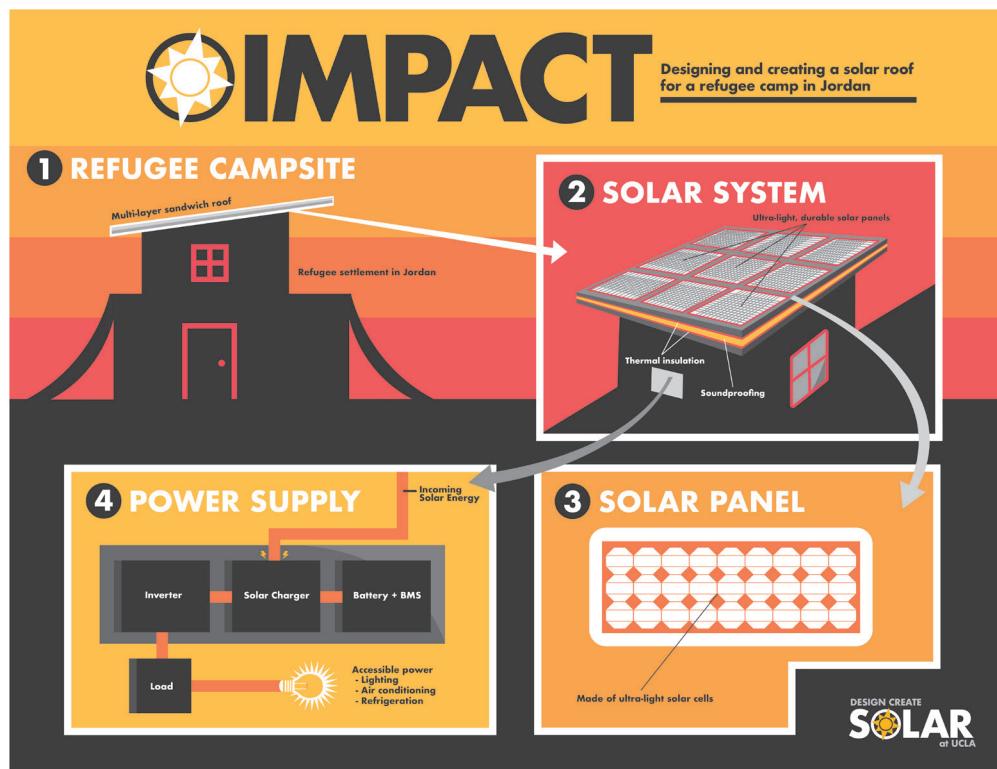
NO. 1 IMPACT

SOLAR ROOFS FOR REFUGEES

For the 2019-2020 academic year, the focus of our IMPACT Program is to develop a solar roof that will be implemented in Jordan's poorest refugee camp: Gaza Refugee Camp.

There are around 45,000 inhabitants within the camp who are experiencing extremely harsh living conditions. Our solar roofs would replace the current zinc and asbestos sheet roofs, which have negative health effects and provide a source of readily accessible energy to cut down electricity bills. The current roofs are made out of metals which are thermally conductive. Therefore, during the summer the temperature of the houses rise significantly and become unbearable while during the winter they drop significantly and reach sub-zero. Additionally, these homes have no sound-proof features and as a result privacy is constantly compromised.

Our goal is to replace the roof of one of these homes with our Solar Roof which has thermal insulation and sound proof features in addition to a solar energy generating system. We have developed our design concept and a detailed proposal and received approval from the United Nations Relief and Works Agency (UNRWA) and we are scheduled to install our roof on a selected home by August 2020.



NO. 2 @UCLA SMART SOLAR GENERATOR

For the 2019-2020 academic year, the focus of our @UCLA Program is to design and develop a Smart Solar Generator. People on the UCLA campus will eventually be able to use this generator to charge devices such as phones and laptops. This will not only decrease greenhouse gas emissions and UCLA's carbon footprint, but will also increase productivity by allowing those working outside at UCLA to continue to do so without interruptions due to a discharged battery. This generator will also help UCLA reach its goal of carbon neutrality by 2025.

We have developed an in depth program proposal for this project, which includes how the system will operate and how it will be designed. The Smart Solar Generator aims to increase efficiency of a solar panel by up to 45% by tracking and following the sun, which will charge its battery. We plan to implement a two-axes system to help follow the sun accurately throughout the year. The product is going to use a library (such as SOLPOS) to help track the sun and then help control a system of motors to turn the face of the solar panel so as to obtain maximum efficiency.

The infographic is divided into four main sections:

- 1 OBJECTIVE:** To provide a charging station for students who are working outside on UCLA's campus. The solar panel will track the sun on a dual axis to increase efficiency by 45% over conventional solar trackers.
- 2 INDIVIDUAL MODEL:** A diagram showing a solar panel mounted on a base with a pivot mechanism. Labels indicate "Outlets for charging" and "Solar generator will pivot to face the sun".
- 3 DEVICE CHARGING:** The smart solar generator will be used to charge devices (phones, laptops, etc.). The aim is to allow students who are working outside to continue to do so without interruptions due to a discharged battery.
- 4 3D MODELS:** Three 3D renderings of the device:
 - A group of four units showing different orientations.
 - A close-up of a single unit's pivot mechanism.
 - A view of the unit's base with multiple "Outlets for charging computers, phones, and other devices".

At the bottom right is the logo for "DESIGN CREATE SOLAR at UCLA".

NO. 3 **COLLABORATE** **SOLAR VEHICLE**

Our third program, the COLLABORATE program, aims at connecting Design Create Solar with other clubs and organizations to work on projects that require the incorporation of solar technologies to achieve the best outcomes. The purpose of the COLLABORATE program is to further the interdisciplinary learning that Design Create Solar hopes to foster and to develop special connections with other student organizations within UCLA.

One of our previous COLLABORATE projects that we have done is a collaboration with UCLA's Super Mileage Vehicle (SMV) team where members of Design Create Solar constructed solar panels for SMV's electric vehicle that runs on solar energy. The project was a complete success as we were able to generate electricity for the electric vehicle using the solar panels that Design Create Solar members built through technical expertise. Another project we have had for the program is a collaboration with the non-profit organization GRID Alternatives to install solar panels on homes in the greater Los Angeles area to those in need.

We would like to add, we will be putting the COLLABORATE program on hold this year to develop our other two programs, the IMPACT and @UCLA programs. This is because we believe the IMPACT and @UCLA programs will be a momentous task for the year and so we want to devote all of our resources and time to accomplishing these two programs properly and on schedule.



SUPPORTUS

Support Us

As a student organization, we actively raise funds through sponsorships to finance our programs for current and future projects.

Any assistance from your organization in terms of funding, supplies, materials, training, etc. would be greatly appreciated. We are passionate about making a positive impact in the world and need your help to achieve our global vision and goals.

Sponsorship Tiers

	PLATINUM \$5,000+	GOLD \$2,500+	SILVER \$1,500+	BRONZE ANY \$
Specialized solar project for your company	✓			
Logo and name on our solar projects	✓	✓		
Logo and name in our Solar Lab at UCLA	✓	✓		
Logo on our flyers and posters	✓	✓	✓	
Logo and name on our shirts	✓	✓	✓	
Logo on our emails and social media	✓	✓	✓	✓
Logo and name on our website	✓	✓	✓	✓
Monthly updates on progress of club programs	✓	✓	✓	✓

We are more than happy to discuss any of the program proposals we have listed and answer any questions you may have. Thank you for considering Design Create Solar and we look forward to our partnership to make a shared impact in the world.