

ROC Community Clean Energy Coalition

Coalition

- Revitalize Our Communities (ROC) Inc. is a nonprofit organization that seeks to make our communities more beautiful and beneficial through Science Technology Engineering Arts and Mathematics (STEAM) partnered with Westlake High School in South Fulton, GA and supported by Georgia State University and University of Florida

Goals in relation to Justice40 Priorities

- Increase South Fulton, GA community awareness about solar energy and sustainable agriculture
- Provide fresh vegetables and fruit in the South Fulton low access food areas through the integration of solar energy, hydroponics, and artificial intelligence (AI)
- Build the training pipeline of certified photovoltaic (PV) solar installers in the South Fulton community

Activities

- Implement Saturday, summer, and after school programs where STEM underrepresented high school youth apply STEAM with artificial intelligence to operate and automate an 8 ft x 24 ft solar powered hydroponic greenhouse on wheels
- Transport the greenhouse to elementary and middle schools, and community events to execute a set of sustainability workshops related to solar energy, energy conservation, and clean energy job awareness
- Prepare and support high school youth underrepresented in STEM to pass the NABCEP associate level PV solar installer certification exam

Metrics

- Operation and AI automation of the solar powered greenhouse through the 2023-2024 school year to grow at least 200 lbs. of vegetables and fruit
- Prototype middle and elementary school clean energy workshops with 100 students in Spring of 2024, and expand the workshops to over 1000 students per year in the 2024-2025 school year
- Partner with HJ Russell Middle School to do a half size version of the greenhouse starting in September 2024
- Have at least eight high school youth, who are underrepresented in STEM, pass NABCEP associate level PV solar installer exam by April 2024

