

Youth Lead Innovations For Energy Solutions

The Energy Project trains high school students in Houston, Texas to innovate novel energy solutions for their community. The project works with local community, academic, and industry energy leaders to 1) engage with community members to identify energy needs and 2) deliver critical energy science to students and support their inquiry and innovation into community-driven energy challenges.

Houston's historic Third Ward and surrounding neighborhoods will be served under this work, with energy solutions being scalable to other vulnerable, coastal communities in Texas. Major energy concerns within the communities relate to flood risk from extreme weather, cost of electricity and grid reliability, and a need to retrofit homes to make them more energy efficient. Student innovators will work with experts and engage with their community to design energy solutions. For example, a hybrid wind turbine solar panel that connects to long-term battery storage to provide energy for low-income families.

Partner Organizations:

- Community: Project Rowhouse, South Union CDC, Coalition for Environment, Equity, and Resilience in Houston
- Academic: Energy Institute High School, Rice University, Texas A&M, Stanford d.school
- Industry: Ally Energy, Worldwide Oil Field Machine, TXRX Labs, Junior Achievement of Southeast Texas

