



**SE** GUIDED PROJECTS

STUDENT**ENERGY**

# SOLAR STREAM PROGRAM OVERVIEW



# WHY GUIDED PROJECTS?

Guided Projects provides youth with the tools, coaching and funding they need to solve the energy problems experienced in their communities using proven processes and technologies or by developing new ones.

Simultaneously, Guided Projects gives a cohort of global youth the critical early career and project development experiences they need to enter the energy industry and thrive as lifelong problem-solvers and executors.

## PROGRAM HIGHLIGHTS

HANDS-ON LEARNING	CAREER-READY SKILLS & EXPERIENCE	COMMUNITY ENERGY RESILIENCE
MENTORSHIP & TRAINING	DIRECT-TO-YOUTH CATALYTIC FUNDING \$15K	EMPLOYMENT & ECONOMIC DEVELOPMENT



“My experience in the program was fantastic, as it was the first time I had the opportunity to develop an international project that has a social impact, bringing electricity to families living in isolated regions.”

ICOANA LAÍS LEITÃO MASCARENHAS MARTINS  
*Solar pilot cohort participant*

### PILOT PROJECT: AYLLUQ Q'ANCHAYNIN

With the support of the Guided Projects program, Icoana and her team designed and installed an **off-grid solar energy system** that provides improved electricity and internet access for the **40 families of Alto Mishagua**, a remote Indigenous settlement **in the Peruvian Amazon**.

The community was involved in the installation process and received knowledge and training in how to maintain the solar system.

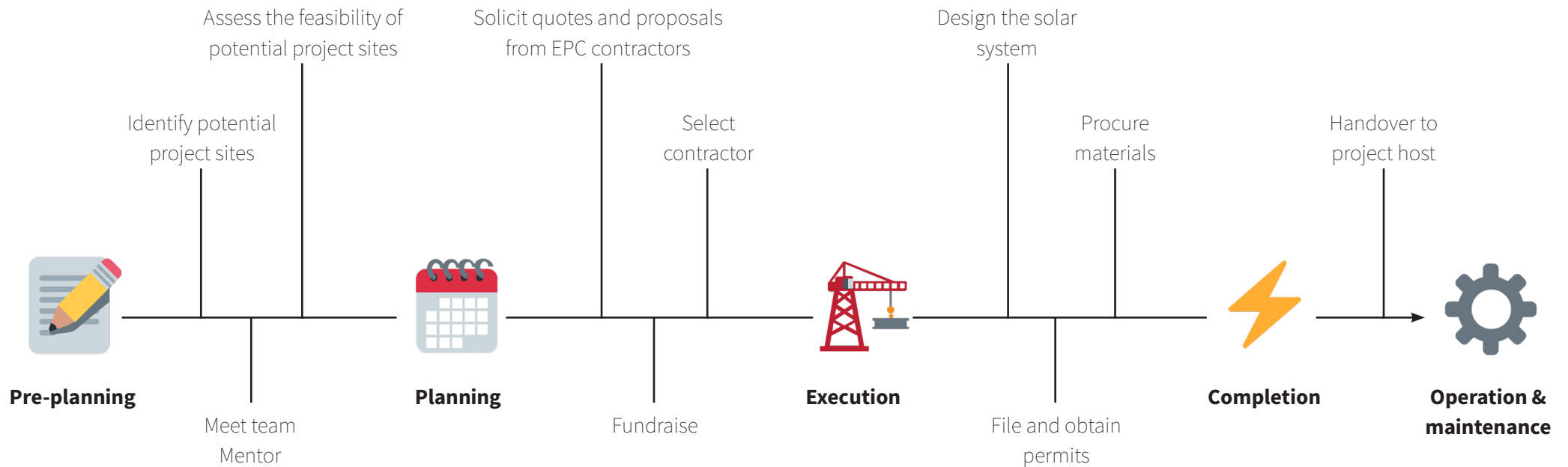
“The Guided Projects program delivered on many fronts, providing excellent resources as an educational experience, and as a hands-on project partner. The expectations were manageable and high, putting the participants in a good position to deliver a high-quality product and engage with project hosts/ contractors in a professional manner. The team we worked with was always more than prepared to help deal with any issues or roadblocks along our path, and despite only interacting online a real connection was felt throughout the several months together.”

GAVIN ANDERSON  
*Solar pilot cohort participant*



# THE SOLAR STREAM

The solar stream of Guided Projects enables youth-led teams to address energy challenges in their community that can be solved with solar power. This 8 to 12-month program includes pairs practical curriculum units, tools and templates with each stage of the solar project development process. Teams will receive coaching throughout the program, expert mentorship, and funding to turn their plans into a reality.



# CURRICULUM OVERVIEW

The Guided Projects curriculum consists of two tracks. Track 1 focuses on technical concepts involved in the design and operation of a solar system. Track 2 introduces project management concepts and how to apply them to successfully complete a project.

## TRACK 1: FUNDAMENTALS OF SOLAR PV MODULES

Introduction to Solar  
Power Assessing Solar  
Project Feasibility  
Designing your Solar PV  
System Life Cycle of a  
Solar Power Project

## TRACK 2: PROJECT DEVELOPMENT MODULES

Initiating your Project  
Project Planning  
Project Cost and Finance  
Contracts, Permits, and  
Project Monitoring



# PROGRAM FEATURES

## 1 | Content Pages

Curriculum units from both tracks will be assigned at relevant stages in a team's project development process. These units provide the fundamental knowledge to complete the practical guidance provided in the Solar Project Guidebook.

## 2 | Coaching

Participants will receive regular coaching from Student Energy staff. A team's coach will guide them through the curriculum and the deliverables that make up the Guided Projects program and project development process, and will monitor and support the team's progression through the program. Coaches are a team's go-to person for any and all questions, guidance and resources they need to succeed in the program.

## 3 | Guest Speakers

On certain weeks, webinars with industry guest speakers will be conducted. This will provide a space for participants to ask questions and network with the industry experts while learning about first-hand experiences working in the clean energy industry.

## 4 | Solar Project Guidebook and Templates

During the Project Execution phase, Participants will have access to the Solar Guided Projects Guidebook and templates that act as the main reference on how to execute their Guided Project. The Solar Project Guidebook includes step-by-step processes and checklists, how-to instructions, software walkthroughs, excel models, as well as examples of accomplished designs and forms. Reflection reports from previous teams are provided in order to help new teams learn from their successes and challenges.

## 5 | Mentorship

Teams will be paired with a mentor who will use their extensive experience with solar project development to provide team's with technical expertise and tricks of the trade.

## 6 | Funding

Each Guided Project will receive up to 15,000 CAD in funding to cover the cost of materials and service fees for the project.





## GET INVOLVED!

To learn more about the program and apply, please visit [studentenergy.org/program/guided-projects](https://studentenergy.org/program/guided-projects)

Should you have any questions, please share them with our program staff by emailing [guidedprojects@studentenergy.org](mailto:guidedprojects@studentenergy.org)

## OUTCOMES FOR PARTICIPANTS

By the end of the project, participants will:

- Gain valuable hands-on experience in developing their clean energy project, from planning to commissioning
- Be empowered to take on more complex projects
- Gain confidence in engaging and working with key stakeholders in the energy industry including engineering contractors, project hosts, and local regulators, to name a few.
- Increase their knowledge and skills in clean energy and project development

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[www.studentenergy.org](https://www.studentenergy.org)

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