

STUDENT ENERGY CAREER TRAINING

EMPOWERING THE NEXT GENERATION OF ENERGY LEADERS

The **Student Energy Career Training** (SECT) is a cohort-based program that builds leadership and employability skills through energy education, project management training, personalized career coaching, and interdisciplinary experiential learning. It equips young professionals with the technical knowledge, hands-on project experience, and structured career development needed to enter the energy sector.

Participants work on real-world energy projects with industry partners, gaining practical experience in research, collaboration, and problem-solving. The program also supports their professional growth by strengthening career readiness, confidence, and access to opportunities within the energy transition.

Since 2022, SECT has partnered with over 25 intergovernmental agencies, project developers, organizations, and energy system actors, along with more than 80 industry mentors to upskill 245+ young professionals from over 60 countries with the skills and experience needed to pursue careers in the energy sector.

SECT advances Student Energy's charitable objective of advancing education, by bridging the gap between theoretical learning and early career experience, helping build a more inclusive and skilled talent pipeline required to accelerate a just and timely energy transition.

PROGRAM COMPONENTS

Technical & Professional Foundations

Develop in-demand expertise in energy systems and project management, while building strong analytical and systems thinking skills through a structured learning experience. Participants strengthen their ability to evaluate, design, and deliver energy projects, with direct insight from industry experts.

Real-World Project Experience

Engage directly with industry partners to tackle real energy challenges, building hands-on experience in applied research, stakeholder engagement, and solution design. Participants gain deep exposure to specific energy markets while receiving direct mentorship from sector experts, SECT coaches, and project partners.

Career Readiness

Build the skills and confidence to navigate the energy job market through structured career preparation, complemented by industry insights and personalized coaching. Participants explore diverse career pathways and receive tailored guidance to pursue roles aligned with their strengths and goals.

KEY MOTIVATORS FOR SE CAREER TRAINING PROGRAM



Closing the Talent and Skills Gap:

SECT delivers experiential learning alongside industry professionals, building the skills needed to meet the evolving demands of the energy sector.



Growing Workforce Demand

The IEA estimates up to 30 million new jobs in low-carbon technologies by 2030, highlighting rapidly growing demand for talent.



Enabling Intergenerational Collaboration:

SECT fosters meaningful collaboration between industry professionals and young people, enabling knowledge exchange, mentorship, and real-world perspective.



Addressing Barriers Identified by Youth:

SECT reduces barriers to youth participation in green jobs by closing gaps in access, exposure, and readiness, enabling more inclusive entry into the energy sector.

OUTCOMES FOR STAKEHOLDERS

SECT partner organizations will gain:

- lay an active role in shaping the next generation of energy talent, while ensuring inclusive and equitable engagement through SECT's honorarium-based model.
- Dedicated project support from a team of highly motivated participants (~10 hours/week each) working directly on your organization's priority challenges.
- Actionable, youth-driven insights and solutions, delivered through research-based outputs and final project deliverables tailored to your organization's needs.
- Access to a vetted, globally diverse talent pipeline for future recruitment.
- Low-lift engagement model, with training, mentorship, and project coordination fully managed by the SECT team.
- Explore recent projects with partner organizations: <https://studentenergy.org/site/assets/uploads/2025/08/Project-Partners-Cohort-6.pdf>

SECT program participants will gain:

- Hands-on experience and in-demand skills through real-world energy projects, building technical knowledge, project management, and leadership capabilities.
- Curated, industry-relevant curriculum designed to strengthen knowledge in energy systems, project development, and the energy transition.
- Career readiness and professional positioning, supported by structured training, mentorship, and personalized guidance to navigate opportunities in the energy sector.
- Access to a global network of industry professionals and peers, expanding connections and exposure to diverse career pathways.
- Recognition and continued access to opportunities, including official SECT certification, honorarium, and access to Student Energy's global alumni community.



June Wambui Githinji
Kenya (Cohort 6)

"The Student Energy Program was a truly transformative experience that deepened my understanding of global energy systems and strengthened my leadership capacity in climate action. It connected me with a dynamic network of women energy professionals in Africa and experienced mentors in the field. The practicum project was the highlight of my journey, exposing me to the rigour of research and data collection, which culminated in my becoming a published author. The program significantly sharpened my ability to contribute meaningfully to an inclusive and sustainable energy transition."

PREVIOUS PARTNERS



Mahnoor Syed
Canada (Cohort 5)

"My experience with Student Energy's Career Training Program can be expressed as the perfect blend of insight into the energy transition and project management! I worked with an enthusiastic team for over 6 months on a research intensive project - honing research, data analysis and project management skills. I feel much more confident about taking further steps in my sustainability career!"

PAST SECT PROJECTS

Explore past SECT projects developed with industry partners, highlighting the real-world solutions and insights generated through participant-led work.

- **Women's Participation in the Just Energy Transition in East Africa**
In partnership with Enel Foundation and RES4Africa Foundation
- **Nigeria's Battery Waste Value Chain Market Report: A Focus on Solar & E-Mobility Sectors**
In partnership with Clean Technology Hub
- **Youth Workforce Attraction within British Columbia's Clean Energy Sectors**
In partnership with Zero Emissions Innovation Centre (ZEIC)

HOW YOU CAN GET INVOLVED

Are you interested in engaging emerging energy talent and supporting their contribution to the clean energy transition within your organization? Is your team looking to advance innovative, collaborative solutions that drive a more sustainable energy future?

We would like to connect with you! Please contact us at sect@studentenergy.org

[Learn more about the SECT Program here.](#)