



# Switch Competition

SHAPING TOMORROW'S ENERGY LEADERS

## 2024 Student Guide



[www.switchon.org/case-competition](http://www.switchon.org/case-competition)



**SWITCH**  
ENERGY ALLIANCE

Over the past three years, the Switch Competition (SComp) has attracted over **3,200** university students from **55** countries.

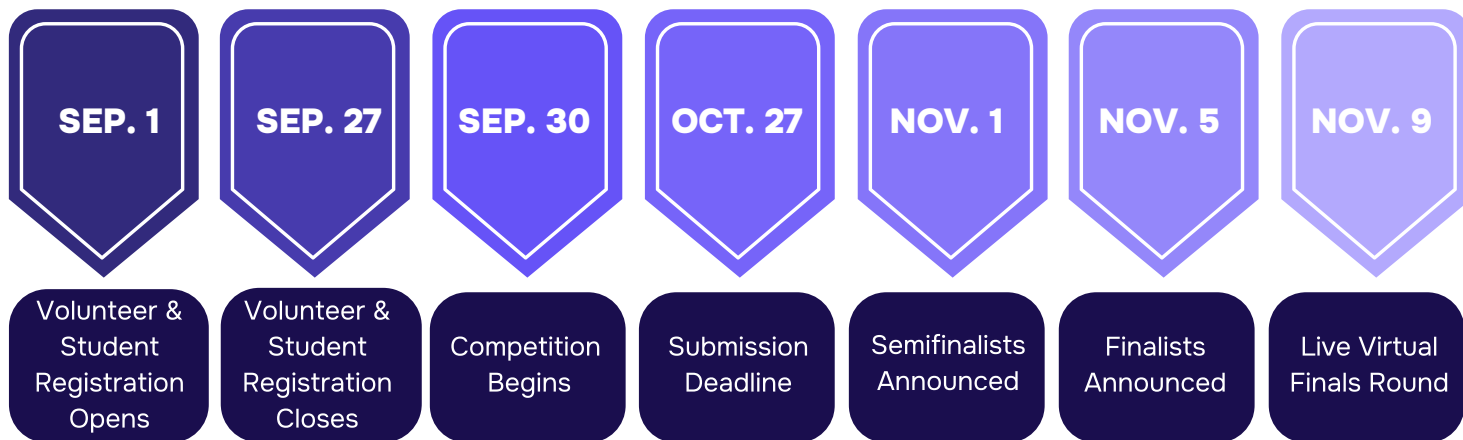
## Overview

University students from all over the world compete virtually for a distributed \$25,000 USD in prize money as they identify solutions to today's most pressing issue - global energy poverty.

Teams have three weeks to research, create a PowerPoint, and film a 10-minute video explaining their solution.

Executive Summary	
Problem Overview	<ul style="list-style-type: none"><li>◆ Ghana at a glance</li><li>◆ Energy Poverty in Ghana</li><li>- Cooking fuel crisis</li><li>- Unreliable &amp; unaffordable electricity</li></ul>
Clean cooking fuel	<ul style="list-style-type: none"><li>◆ LPG and Biogas</li><li>◆ Technical &amp; feasibility analysis</li><li>◆ Implementation approach &amp; Timeline</li></ul>
Electricity: Affordable, accessible & reliable	<ul style="list-style-type: none"><li>◆ Solar PV + Battery storage</li><li>◆ Technical &amp; feasibility analysis</li><li>◆ Implementation approach &amp; Timeline</li></ul>
Finance	<ul style="list-style-type: none"><li>◆ Invest-Recoup-Reinvest model</li><li>◆ PPP model for electricity</li><li>◆ Cash-flow chart for investment</li></ul>
Environmental & social impact	<ul style="list-style-type: none"><li>◆ Reduction in carbon emission</li><li>◆ Carbon credit market exploration</li><li>◆ SDG analysis</li><li>◆ Policy recommendations</li></ul>

Slide from SIECC 2022 winning team (Nimbus 2.0, Bombay, India)



## Teams

Teams must be comprised of 3-4 students, 2 of which are undergraduates; remaining team members may be graduate students. Team members do not have to be from the same school or country.

## Mentors

All teams are eligible to receive a mentor during the competition. Mentors are volunteers from the energy industry. Mentors meet with their team regularly to advise and guide students through their project.

## Judges

The competition includes 3 rounds of judging:

- Preliminary Round (all teams)
  - Semifinalist Round (top 15 teams)
  - Finalist Round (top 5 teams)
- Judges are experts in the energy industry and use a scoring guide to select advancing teams.

## Student Benefits

- Obtain a deep understanding of a critical global energy issue
- Receive broad recognition by competing in an international competition
- Hone your leadership skills and engage with a global energy non-profit
- Network with energy professionals
- Compete for cash prizes while developing research and communication skills
- Gain experience virtually working and communicating with a remote team

## Video Resources

Foundation of Modern Life Primer  
Energy Choices Primer  
Modern Cooking Fuels Primer  
Energy Poverty and Energy Access  
Primer

The Dual Challenge: Energy and the  
Environment  
Energy and Economic Poverty  
Energy Poverty Trends and Impacts  
Four Pillars of Energy Security  
Energy Transition

Additional resources are available on the SEA Videos and Presentations web pages.

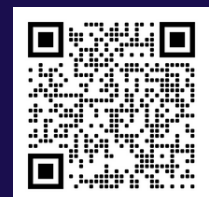
## How to Get Involved

- Build a team and register for the competition starting September 1.
- Share the competition and encourage your peers to compete.

For more information or to volunteer, please email SComp Project Manager Carl Steffensen at

[Carl.Steffensen@switchon.org](mailto:Carl.Steffensen@switchon.org)

Sponsored by:



and with support from::

