

Efficiency for Access Design Challenge Download: May 2024



Image Credit - Getty Images

Greetings and a warm welcome to the May 2024 edition of the Efficiency for Access Design Challenge Download. Come along as we delve into the stories and innovations that define our global journey towards clean energy access, sustainable technologies, and responsible engineering practices.

If you have ideas to share or simply want to connect, please reach out to us at eforachallenge@est.org.uk.

Challenge News

Grand Final

Mark your calendars for the Efficiency for Access Design Challenge Grand Final! Join us on Tuesday 18 June at 10:00am to 11:30am BST. We'd love to see you there!

The event is a culmination of the hard work of students who took part in this year's competition. The event will showcase some of the amazing submissions received, with awards presented for the most innovative designs.

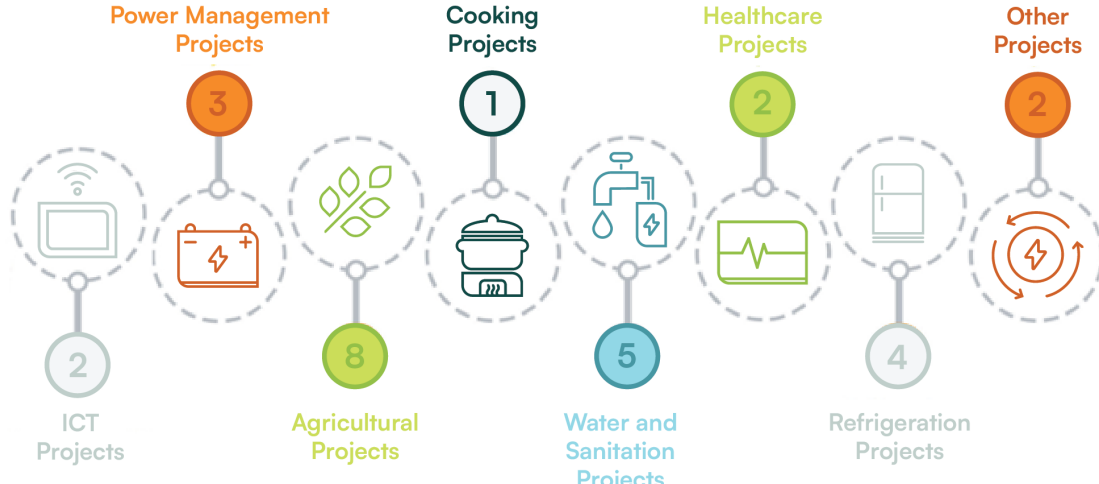
Join us to hear directly from the winning teams about their designs. [Click here](#) to register for the event.

Challenge update

In this fifth year of the Challenge, over 130 students from 14 universities in Bangladesh, India, Kenya, Nepal, Nigeria, Rwanda, Uganda, the UK, and Zimbabwe have come together in teams to design innovative off-grid solar appliances.

We're delighted to have received final submissions from 29 student teams, honing sustainable designs across diverse themes. Below you can see the impressive range of themes explored by students over the past five years of the Challenge.

Our expert reviewers are providing feedback for the teams to support them as they prepare to pitch their designs to the Challenge judges. We wish the students the very best of luck with their pitches!



"It has been a great learning experience to be a reviewer for the Efficiency for Access Design Challenge. Some of the ideas shared by the students are not only innovative but also cater to the end users needs. It is refreshing to see the students prioritising the community in their technological designs." **Liya Bensy Thomas, Efficiency for Access, reviewer of submissions**

Hydro Heroes: ASEI's Solar Powered Pure Water Solution

2.2 billion people worldwide lack access to safe, clean drinking water. In Uganda, 40% of the population faces this water insecurity.

In 2020, students from Gulu University, Uganda, took on the Efficiency for Access Design Challenge aiming to address this problem, designing a solar-powered water disinfection system. This design won them a Bronze Award, and empowered by their success, the students developed their design into a living prototype, and founded the African STEM Education Initiative (ASEI).

Join us on a refreshing deep dive into ASEI's journey from Challenge to change, including insights from founding member Moses Alicwamu.

[Quench your thirst with the full story.](#)

Educators Drive Energy Access in Higher Education

EDUCATORS DRIVE ENERGY ACCESS IN HIGHER EDUCATION

Four exceptional educators shared their experiences and insights about being part of the Transforming Energy Access - Learning Partnership and the Efficiency for Design Access Challenge.

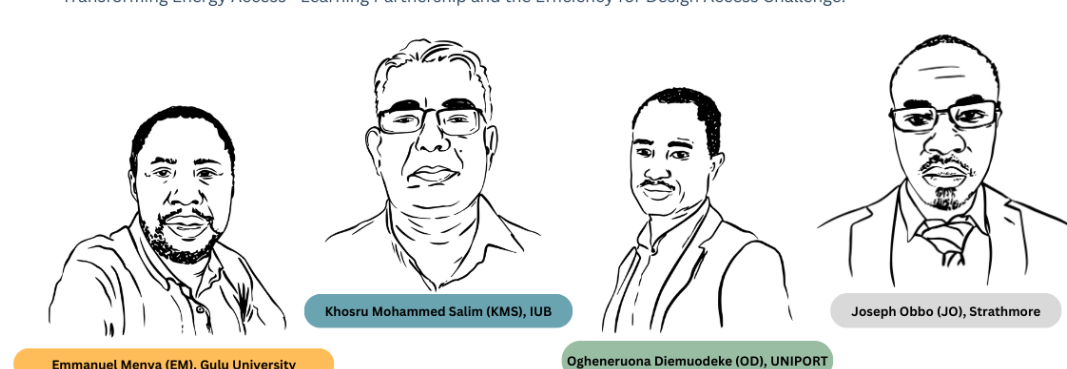


Image Credit - TEA-LP

Every day's a school day, and our educators hold the keys to shaping futures for professionals and pioneers, especially in the realm of clean energy access.

Within the propelling programmes of the [Transforming Energy Access – Learning Partnership \(TEA-LP\)](#) and the Efficiency for Access Design Challenge, universities and students in the Global South are being empowered to become champions of energy access through skill development and innovation.

In our recent case study, we delve into the experiences and insights of educators taking part in these programmes. Discover how they are inspiring students, bridging skill gaps, and shaping the trajectory of renewable energy studies across the sector.

[Learn more in the full story.](#)

Innovation Continues Beyond the Challenge

For many, the Efficiency for Access Design Challenge is just the beginning.

Kathmandu University students from the 2023-2024 Challenge year have continued the development of their Rural Community Heat Grid System over the last year, and have recently won second place at the Himalayan Hydro Expo 2024.

"A huge thank you to the Efficiency for Access team and Project 22-05 laboratory for their invaluable support in making this achievement possible." **Madan Ghimie, student of Kathmandu University**

Rwanda students "spill the tea" on the TEA Forum 2024



University of Rwanda students at the TEA Forum. The students, in alphabetical order: Francois Bizimana, Dushime Dieudonne, Olivier Dushimimana, Aline Gihozo, Divine Ishimwe Hatangimbabazi, Patrick Ndayisaba, Samuel Turahimana, Dative Tushabomwe, Victorien Ukurikiyimfura, and Pamela Uwicyeza. Their educator, Dr. John Musema, stands fourth from the left.

Credit - Efficiency for Access

Discover the journey of students from the University of Rwanda who recently attended the Transforming Energy Access (TEA) Forum in Kigali, Rwanda.

Sponsored by Efficiency for Access, these bright sparks, participants of the Efficiency for Access Design Challenge, delved into discussions and knowledge exchanges alongside global innovators, policymakers, and investors, united in their mission to accelerate clean energy access across the Global South.

"The speakers shared their experiences and ideas, showing how crucial it is to work together to solve energy problems. It wasn't just about machines; it was about people and how we can help each other live better lives."

Explore their reflections, key takeaways, and inspiring plans for applying their learnings towards a brighter, sustainable, and inclusive future for all.

[Read about their inspiring story.](#)

Efficiency for Access Coalition News

July - December 2023 Global Off-grid Solar Market Report

Every six months, GOGLA, The World Bank Group's Lighting Global program and the Efficiency for Access Coalition publish the Global Off-Grid Solar Market Report, a market intelligence series on sales and impact of off-grid solar lighting products and appliances, sold by GOGLA affiliates.

GOGLA's sales and impact data is the bedrock of information on the off-grid solar and energy efficient appliances sector. It is used to track the stand-alone off-grid solar industry's contribution to energy access by the Sustainable Development Goal 7 custodians and feeds into key research and reports on energy access.

[Explore the report for additional insights into trends at global, regional and country levels and to discover the latest data from July-December 2023.](#)

Promethean Power Systems: Transforming India's Rural Dairy Sector Through Smart Decentralised Cooling



1000L Milk Chiller With Thermal Storage System and Remote Monitoring at a site in Karnataka, India
Credit - Promethean Power Systems

22% of the world's milk comes from India, predominantly from smallholder farmers. But preserving dairy quality is difficult in remote rural villages, with limited electricity and chilling infrastructure.

With help from the Efficiency for Access Research and Development Fund, Promethean Power Systems has developed their thermal energy storage for milk chilling, innovative advanced remote monitoring, and cooling as a service, to offer a decentralised cold chain solution to off- and weak-grid villages.

[Read more about this success story in the Efficiency for Access R&D Fund Innovator Series.](#)

News from Our Network

Engineers Without Borders UK

Engineers Without Borders UK is celebrating **20 years of impact!** To mark this important milestone, the organisation is delivering a 12-month campaign exploring the 12 competencies of globally responsible engineering identified in their Competency Compass. Each month, you can expect thought leadership content, ranging from panel discussions to video interviews to articles, focused on one of the 12 competencies.

Kickstarting the campaign, in April Engineers Without Borders UK hosted a panel discussion that shed light on the pivotal role of advocates for driving change in and beyond the engineering sector. [Explore some of the key insights shared.](#)

[Sign up to the Engineers Without Borders UK newsletter](#) to ensure you don't miss anything!

Transforming Energy Access - Learning Partnership (TEA-LP)

Our partner, Transforming Energy Access - Learning Partnership (**TEA-LP**) will be hosting a workshop at the International Conference on Sustainable Energy Education (**SEED**), which will be running from 3-5 July in Valencia, Spain.

Through a panel discussion and interactive session, this workshop will explore the role of energy education in cultivating a workforce that is capable of addressing the multiple, complex challenges faced within the sector.

Jomo Kenyatta University of Agriculture and Technology (Kenya), University of Port Harcourt (Nigeria) and Usmanu Danfodiyo University (Nigeria) are three of the nine universities selected to attend to the conference.

Shortlist

Shortlist Futures is excited to offer no-cost hiring and onboarding support to African companies committed to sustainability. With grant funding, Shortlist Futures provide a comprehensive suite of services including talent sourcing, screening, assessments, recruitment management, and even micro-grants for training across all functions – HR, finance, engineering, and more.

To qualify, your company must:

- be hiring for roles with 0-5 years of experience
- operate in the climate/clean energy sector in Africa
- prioritize hiring youth and women

If you're ready to unlock your human capital potential on your green growth journey please reach out at programs@shortlist.net

Ashden

The 2024 Ashden Awards will take place in London on the evening of 27 June, celebrating outstanding climate innovation. This year's awards include energy access categories focused on jobs and skills, and bringing clean power to refugee camps. The awards give winners grants, publicity, and connection to funders and investors.

This year's ceremony – taking place at the Institution of Engineering and Technology – is part of London Climate Action Week. The night will feature inspiring films about the winners and their impact, as well as networking opportunities. Find out more [here](#).

Faraday Institution

The Faraday Institution is looking to nominate a cohort of inaugural Battery Ambassadors, one per country, with the goal of further promoting battery technology and energy storage research and networking across Sub-Saharan Africa, South Asia and the Indo-Pacific. This is in partnership with the Transforming Energy Access Learning Partnership (TEA-LP) as part of the [Ayrton Challenge on Energy Storage \(ACES\)](#).

This is a great opportunity for senior academics (scientist or engineer) working on or with a strong interest in battery technology or energy storage research in one of the focus countries. Find out more [here](#).

Student Energy

Student Energy is a global youth-led organization empowering the next generation of leaders in accelerating the transition to a sustainable and equitable energy future. With a network of over 50,000 young people from all over the world, the organization provides the knowledge, skills, and resources youth need to take action in energy. Student Energy's diverse Programs Ecosystem supports emerging young leaders at all phases of their education and career journey. The organization is thrilled to announce the launch of its 2023 Annual Report, a culmination of Student Energy's continuing work with young people in the energy transition.

Student Energy announced the launch of the latest Guided Projects (SEGP) Solar Stream cohort last March! In this cohort, the program has 23 youth participants from 5 teams across Canada, each embarking on a journey to develop their energy projects to solve local energy problems in their communities. [Learn more here](#).

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The Efficiency for Access Coalition is coordinated jointly by CLASP, an international appliance energy efficiency and market development specialist not-for-profit organisation, and UK's Energy Saving Trust, which specialises in energy efficiency product verification, data and insight, advice, and research.