

IRENA NewGen Renewable Energy Accelerator Programme for Youth – Cohort 2023

The International Renewable Energy Agency (IRENA) launched the IRENA NewGen Renewable Energy Accelerator (NewGen) in 2023. This initiative aimed to support young entrepreneurs and innovators in driving the renewable energy transition. NewGen provided capacity building, mentorship, and other resources to youth-led projects and start-ups that developed innovative solutions to advance the adoption of renewable energy at the global level.

The participating startups included a diverse range of innovative ventures:

Apeiro Energy - India

Apeiro Energy is India's first clean energy startup developing patent pending commercially viable scalable Vertical Axis Wind Turbine technology for standalone, on-grid and microgrid energy solutions. Apeiro Energy with its “I-Wind” wind turbine technology and products designs allow wind energy accessible directly to individuals and businesses, even in the remotest and harshest geographies. At Apeiro Energy, the mission is to provide energy independence to their users by creating long-term renewable infrastructure.

>> Website Link - <https://apeiroenergy.com/>

>> Co-Founders - [Kalpit Prajapati](#), [Prakhar Yadav](#) & [Puru Kumar](#)

Chemotronix – Nigeria

Chemotronix is an emerging clean energy technology & digital solution to ensure decarbonisation (net zero emissions) across the world. By providing solutions that help to offset carbon emissions and incentivize the populace to utilise renewable energy. By providing real-time monitoring of Green-house-gases (GHGs) as well as forecasting which will guide organisations and governments in implementing decisions that will help accelerate the journey to net zero, especially in Africa.

>>Website Link - <https://www.chemotronix.org/>

>> Co-Founders - [Peace Bello](#)

Climatenza Solar - India, Bangladesh, Kenya and Chile

Climatenza Solar, based in India, operates in the realm of solar thermal technology, with a special focus on industrial applications. It aims to help its industrial clients achieve their Net Zero targets, and to completely offset their carbon emissions, contributing to the larger global goal of mitigating climate change. By implementing their innovative solar thermal

solutions, it assists industries to navigate and significantly reduce their dependence on fossil fuels and move towards renewables.

>> Website - <https://tenza.cc/heat/>

>> Co-Founders - [Akshay Makar](#) & [Rahul Sharma](#)

Climind

Large language model (LLM)-powered climate co-pilot, Climind bridges the gap of data and climate actions for business. By pioneering the intersection of AI and climate action to transform climate risk into business opportunities, Climind offers a data-as-a-service platform powered by a large language model, providing actionable climate data infrastructure. From enabling AI-powered searches through high-quality data to translating and connecting climate data in meaningful ways. By saving time for data pre-processing, smarter searches, it enables more effective climate actions.

>> Website - <http://climind.co/>

>> CEO & Founder - [Karen \(Hanyuan\) Wang](#)

Elzian Agro – Sri Lanka

Elzian Agro practices Analog forestry to support organic farming and mitigate climate change. The company offers climate-smart, data-driven precision agriculture solutions with IoT-enabled devices for real-time monitoring and decision-making. The Agro-Eye system monitors weather and soil conditions, while Agro-Mate automates irrigation and other agricultural operations. Through these solutions they help farmers reduce crop waste, effectively utilise limited resources, and increase crop yields by providing real-time data on and other critical parameters, enabling farmers to make informed decisions and optimise their agricultural practices in line with both efficiency and sustainability.

>>Website - <https://agro.elzian.com/>

>> CEO - [Lilan Dayananda](#)

Evergreen Technical Solutions – South Africa, Zambia & Swaziland

Evergreen Technical Solutions is an organisation dedicated to diverting waste from landfills by using waste products as resources for new materials. They propose a solution that aligns with the advancements of the Fourth Industrial Revolution. Recognising the need for contemporary solutions, their aim is to create a digital circular marketplace for waste and products made from waste, thereby combating climate change and alleviating poverty.

>>Website - <https://www.linkedin.com/company/evergreen-technical-solutions-ets/>

>>Founder - [Linda Kaumphawi](#)

Evolti - Colombia

A dynamic startup, Evolti converts sunshine into renewable energy with the goal of building an eco-friendly, productive society. They create and fund distribute generators as well as solar energy projects for commercial, industrial, and residential consumers. To give consumers energy at reduced prices, Evolti offers solar-as-a-service contracts (PPAs), which involve investing 100% of the money in solar assets and for investors, they provide distributed solar EPC services. With a team of 30 employees, they have built 1.87 MW of solar capacity by the end of 2023 and aim to expand significantly by 2028, including entering the agrivoltaics and energy cooperative markets in Colombia.

>>Website - <https://www.evolti.co/>

>>Co-Founders - [Juan Manuel España](#), [Daniel Fernando Medina Guerrero](#) & [Hermann Souza](#)

Green Power Plus - Italy

Green Power Plus (GP+) leverages AI to revolutionise B2B access to energy components, projects, and financing. As a GenAI-based chat platform, GP+ facilitates the discovery of clean energy projects and funding through engaging, data-rich conversations, replacing tedious forms. The chatbot interacts with energy clients, generates new ideas, and matches them with the best three quotes, providing providers with qualified lead while democratizing access to clean energy.

>> Co-Founders - [Esmeralda Colombo](#) & [Fulvio Iori](#)

>> Website - <https://www.greenpowerplus.space/>

Gilsun Technologies- Tanzania

Gilsun Technologies, based in the Arusha region of Tanzania, specialises in biogas installation and environmental protection solutions. The company focuses on biogas technology to meet energy needs, promote sustainability, and mitigate environmental challenges. Gilsun Technologies offers comprehensive biogas services, including design, construction, and maintenance of systems that convert organic waste into renewable energy, minimising waste and emissions. Through these efforts, Gilsun Technologies enhances energy access, rural development, and environmental sustainability in Tanzania.

>>Website - <https://gilsuntech.co.tz/>

>> Founder - [Suzana Munuo](#)

Greenfluidics - Mexico

Greenfluidics, a pioneering climate technology enterprise founded in Mexico in 2018, stands at the forefront of urban sustainability. With the mission to harmonise societal needs with

environmental well-being, they envision a future where sustainability and progress coexist seamlessly. Aspiring to be the global leader in microalgae façades for green buildings, Greenfluidics aims to transform urban landscapes worldwide. These solutions boost energy efficiency, mitigate carbon footprints, elevate commercial value, and enrich occupants' lives.

>> Website - <https://greenfluidics.com/>

>> CEO & Co-founder - [Ramirez Sanchez](#)

HD Photovoltaics – Argentina

HD Photovoltaics is a youth-lead startup which develops new affordable and sustainable BIPV solutions, aims to help families and businesses in rural areas to have access to affordable, safe, and sustainable energy. With a devoted workforce and a strong dedication to innovation, HD Photovoltaics intends to drive a dramatic shift in the global energy sector.

>> Website - <https://www.hdfotovoltaica.com/?lang=en>

>>Co-Founders - [Augusto Diaz](#) & [Sabina Diaz](#)

Keyo Technovation - Kenya

Keyo Technovation is a forward-thinking climate-tech company focused on enhancing the lives of women and communities. They create and distribute clean, affordable cookstoves built from locally produced materials that are specifically tailored for low-income families. These new stoves use pellets rather than firewood, which dramatically reduces respiratory difficulties and environmental effect. This energy-efficient and accessible solution provides families with a safer, healthier, and more sustainable option, and contributing to community well-being.

>>Linkedin - <https://www.linkedin.com/company/keyo-technovation/about/>

>> Co-Founder - [Concepta Atieno Ojwang](#)

NetaCarbon - USA

NetaCarbon is a company focused on rebuilding trust in the carbon market by mobilising investments in high-quality projects that protect and preserve the planet. They connect corporate companies directly with project developers to accelerate climate impact and improve livelihoods in underserved communities. NetaCarbon's platform helps companies manage their carbon credit inventory, mitigating reputational risks and ensuring compliance. They aim to revolutionise how companies address residual emissions by investing in climate solutions through a platform-based approach rather than the traditional time-consuming consultation routes.

>> Website - <https://www.netacarbon.com/>

>> Co-Founders - [Grace Lam](#) & [Mar Velasco](#)

Oxygenate - UAE

Oxygenate is a sustainability firm in the United Arab Emirates that focuses on environmental, social, and industrial development. The company builds plantations using genetically modified bamboo saplings supplied by their associated laboratory, as well as scientific expertise, to maximize carbon sequestration and the production of renewable energy.

>> LinkedIn - <https://www.linkedin.com/company/oxygenateglobal/?originalSubdomain=ae>

>> Founder & CEO - [Dr. Arshi Ayub Mohamed Zaveri](#)

Renergia - Romania

Renergia is a mobile application designed to empower individuals in their energy transition journey. With the help of statistical, probabilistic, and artificial intelligence algorithms, Renergia provides personalised recommendations and suggestions to reduce household energy consumption and promote the use of green energy sources. The app guides users in making smart decisions by educating them about the impact of home appliances on their budget and the environment. By helping users save time, money, and energy, Renergia aims to be a catalyst in the energy transition process, promoting sustainability and energy efficiency.

>> Website - <https://renergia.ro/>

>> Co-Founders - [Dacian Jurj, PhD](#) & [Alexandru Muresan](#)

Osomobegbe Global Ventures Limited (OGV Limited)

Osomobegbe Global Ventures Limited (OGV Limited) is a leading startup committed to transforming farming methods using advanced solar drying technologies. By offering solar dryers and effective, economical, and environmentally friendly crop drying services, they enable smallholder farmers and improve their sustainability and production. The objective is to create a more resilient agricultural community by bridging the gap between conventional farming methods and contemporary, ecologically friendly practices.

>> Website - <https://ogvlimitedsolutions.com.ng/>

>> Founder - [Eugene Osomobegbe](#)

Run Automations - Uganda

Run Automations LTD is a B2B company that creates affordable IoT smart meters to track, monitor, and control energy appliances for low-income customers in Uganda. These smart meters enable customers to own renewable energy assets through a PAYGO (pay-as-you-go) payment model, improving their livelihoods and accommodating affordability. Their remote monitoring platform also reduces operational costs and risks for asset financing companies.

>> Website - <https://runautomations.org/>

>> Co- Founders - [Joel Tibabwetiza Muhanguzi](#) [Grace Nanteza](#) [Charles \(Nyanzi\) Nkonwa](#)

Schrodinger Technologie – Nigeria

Schrödinger Technologie is a social venture that offers innovative portable water disinfection equipment to address the world's water crisis. Established in Nigeria, the company aims to make clean water accessible to all, particularly in underserved areas, through simple, affordable, and effective solutions. Its solar-powered water purification systems transform polluted water into high-quality drinking water, completely powered by a renewable source. By doing so, Schrödinger Technologie helps reduce waterborne diseases, supports community health, and contributes to economic prosperity.

>> Website – <https://schrodingertechs.com/>

>> Founder & CEO - [Henry Lamba](#)

Sustain The World

Sustain The World is a youth-led social enterprise in Lebanon that uses sustainability & innovation as tools to break the cycle of poverty, build resilience among people and work towards a prosperous and sustainable future for all. Sustain The World is a non-profit organisation focused on creating sustainable solutions and empowering vulnerable communities, particularly women, youth, and underprivileged individuals. Centered around Equality, Sustainability, and Empowerment, they have generated over 2,500 green jobs through solar installations for waste recycling, wastewater treatment plants, solar gardens, cooperatives, and SMEs related initiatives.

>> Website - <https://sustaintheworld.org/>

>> Founder - Ryme Assaad