

2024. IN SHORT.



WHAT'S NEW AT THE ACCESS TO ENERGY INSTITUTE IN 2024?

With the industry in constant flux, we want to take some time to reflect on this last year and check the view point from where we are standing, now a year older.

Our initial quest to substitute fuel generators in Nigeria a.k.a. Solar Killed the Generator Star (SKGS) has been our lighthouse project. Not anymore in 2024. Maybe this sounds counterintuitive, but it is good news.



Why so?

The target of the SKGS project was always to ignite a new market that would see fuel gensets in Nigeria replaced by solar ones.

Up until 2022 we spent most of our engineering and R&D resources gathering data from fuel generators and, together with our Nigerian partners, developing prototypes, testing them, and repeating the process over and over again.

The yet-to-be proven working hypothesis was this: There will be a commercial market if we can confirm 1) a technical solar solution



exists which is financially viable, and 2) demand for solar solutions is real.

Looking back, with over 2,500 solar generators installed, it is fair to say that yes, a technical solution indeed exists and that demand, even in the face of deteriorating economic conditions in Nigeria, is robust.

A2EI



The market is now ready to be developed. As planned, this is the moment the A2EI, having done the initial development and market testing, will start to hand over to commercial companies now entering the market.

Besides the above achievements, we have started to support local

distributors to unlock this market via the Green Genset Facility and in collaboration with GET.invest continued to build our Prospect platform, with new features for results-based financing (RBF) programs.

Of course, sharing data and making it useful to new market

entrants has and will keep us busy.

Add to this some inroads in new and interesting sectors, e.g. the nexus between clean, reliable energy and healthcare/huma-

nitarian settings, fresh clean cooking news and some insights from our second edition A2EI workshop, and you have most of our 2024 highlights.

Check out our website for more!



#1 SKGS - THE NEXT PHASE

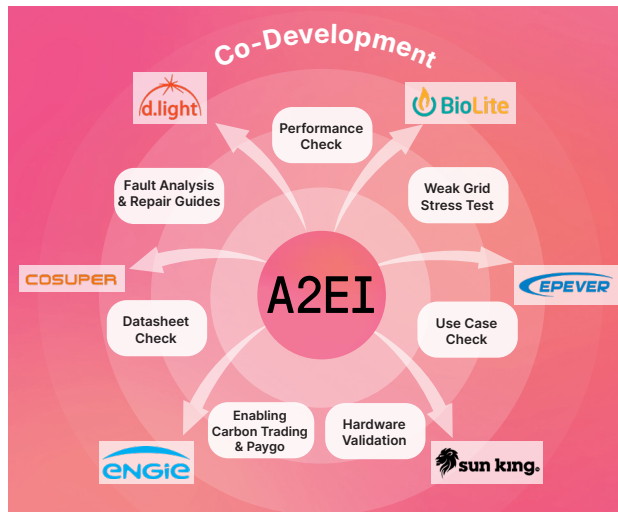
Solar Killed the Generator Star, our first anchor project, has now reached the next phase. Here is a quick history to give you the context: In 2019-20 we analyzed what would be needed to replace fuel generators in Nigeria

using extensive smart metering and data analysis. In 2021 we built and tested various prototypes. Between 2022-24 we sold over 2,500 solar generators confirming demand. In 2024 we ventured into new sectors

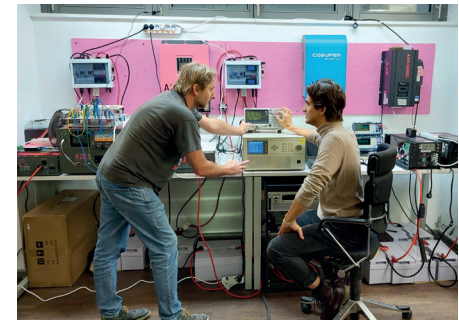
e.g. health. So right now we are observing the market entry of several commercial players, such as d.light, SunKing and Biolite and believe the next logical step for us is to move towards being an enabler and collaborator, an R&D partner, and, finally, a QA assessor.

options for A2EI's further involvement. The clear idea to emerge was to gather the relevant hardware manufacturers of solar generators and to discuss with them how we, as A2EI, could put our engineering resources and experience at the disposal of the sector.

In other words our engineering team has become a taskforce offering players easy access to information and expertise. We are much looking forward to 2025, for even more collaboration!



In our session at the GOGSFE in Nairobi in October we road-tested responses to possible



#2 GGF LAUNCHED IN 2024

GGF | disruptive
climate
finance



GGF aims to address shortcomings in the financing of solar distribution companies and to provide high-performing companies with continuous access to inventory.

It does so by putting the economic fundamentals of the distribution companies at the center of the investment decision and by drastically

reducing the barriers of access to financing thanks to an iterative and results-based approach.

Scaling the amounts over time while monitoring key indicators such as end-customers credit quality allows distributors to grow at their own pace and to build healthy businesses.

In 2024, GGF made significant progress:

- The facility was announced in March at the TEA Forum in Kigali, Rwanda and incorporated in April.
- The first investment transactions were approved by the GGF Investment Committee in July.
- The current pipeline includes over 50 companies that have applied for GGF funding.

The GGF investment approach

prioritizes efficiency through standardized methods and digital tools, intermediating inventory purchases with favorable terms, utilizing a swift approval process for distributors, and monitoring business health using real-time data.

The set up of GGF was realized thanks to the support of NEFCO/BGFA, FCDO/Carbon Trust, and GGF investments were made possible thanks to initial funding from IKEA Foundation, DOEN Foundation, and Good Energies Foundation.

Additional funding is being finalized to allow for scale in 2025/2026 so stay tuned!

*Learn more on the
GGF website!*



#3 THE WORLD BANK'S ASCENT PROGRAM: DIGITAL MRV PARTNERSHIP WITH PROSPECT

The World Bank's Accelerating Sustainable and Clean Energy Access Transformation (ASCENT) program represents a major initiative in energy

access acceleration. Backed by \$5 billion in IDA funding, it aims to impact 100 million people across 21 countries in Africa by 2030. The selection of

Prospect as the regional aggregation platform marks a significant step toward standardized, efficient monitoring of energy access initiatives. Something we are proud of!

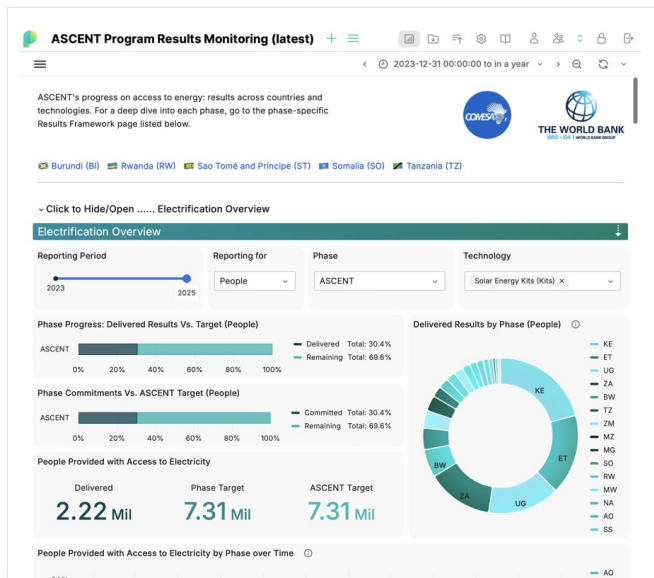
Central to this ambitious program is the implementation of a robust digital Monitoring, Reporting, and Verification (dMRV) system which will take place through the Prospect

platform.

dMRV serves as the cornerstone of ASCENT's implementation strategy, enabling accurate tracking and verification of program outcomes across multiple countries and technologies.

It not only supports program implementation but also contributes to the broader goal of creating public goods for the energy access sector, potentially benefiting future initiatives beyond the program's immediate scope.

Following the adoption of Prospect by the World Bank, a surge of requests for similar cooperations came from, amongst others, the African Development Bank, UNICEF, and the World Food Program, confirming the relevance of Prospect.



#4 PUTTING PROSPECT AT WORK FOR THE UECCC



Particularly close to our hearts, because it is transactional rather than merely visualizing data, is the implementation of a dMRV tool for the RBF program for the Uganda Energy Credit Capitalization Company (UECCC), on behalf of the World Bank and the Government of Uganda.

This \$140 million program leverages Prospect's capabilities in order to seamlessly manage the entire RBF process, from data collection and verification to subsidy disbursement.

By automating key steps, the UECCC RBF program reduces manual processes and therefore transaction costs, enhances transparency, and accelerates the flow of funding to off-grid solar, clean cooking, and productive use appliance distributors.

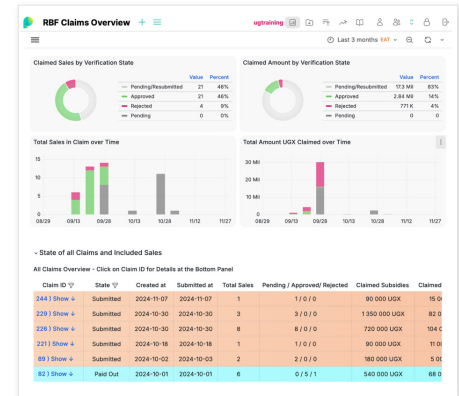
Importantly, the robust data generated by Prospect ensures accurate impact verification, including reliable measurement of carbon emission reductions. After 8 months of intense work and exchange with the Ugandan colleagues, the UECCC program went live on November 1st, with over 70 companies participating. That was a great moment for the team.

Through these two new cooperations (ASCENT and UECCC) the A2EI has established itself in the development and deployment of open source, data-driven solutions to catalyze energy



access and climate action. With SDG7 results being more transparent more funding is expected to flow into energy access and climate finance programs - leveraging impact.

Find out more about Prospect on the platform's website!



#5 LEVERAGING PROSPECT FOR ELECTRIFICATION OF HEALTH INFRASTRUCTURE



In 2024 A2EI partnered with the Health Electrification and Telecommunications Alliance (HETA), a USAID initiative aimed at electrifying 10,000 healthcare facilities across Africa. The project reflects a lighthouse approach to bringing reliable solar power to 75 healthcare centers in Nigeria.

This collaboration is a crucial step toward addressing the critical challenge

of energy access in healthcare delivery, with over 50 facilities already successfully powered through A2EI's innovative solar generator solution.

A2EI's solar generator systems were found to meet the energy needs of rural healthcare facilities, providing reliable power for essential medical equipment and services.

The implementation, carried out in partnership with experienced local distributors Creeds Energy and ChromeVolt, ensures professional installation and maintenance support within the greater Abuja and Kaduna regions and beyond.

At the heart of this partnership's success lies our open-source data platform Prospect, which enables us to analyze how energy solutions are utilized and helps to evaluate their

impact in healthcare settings.

During the recent Health Energy Conference in Nairobi on October 7th, we realized this project has substantially raised our exposure in the health and humanitarian sector.

Numerous alleyways for cooperation are currently being explored with e.g. UNICEF, UNDP, UNITAR, WHO, WFP and CARE.



#6 A2EI WORKSHOPS - ACCELERATING REAL CHANGE IN THE ENERGY ACCESS SECTOR

The two A2EI workshops (#1 Berlin, Sept 2023 and #2 Naivasha, Oct 2024) have proven to be successful convenings of sector experts and leaders with tangible outcomes.

At the first workshop three projects were identified to be transformational for the energy access sector.

This year all three were successfully implemented by mobilizing stakeholders, delivering innovation in very short timeframes, and showing a successful third party funding track record.

The 2023 workshop inceptioned the Green Genset Facility and the Leave No One Behind strategy that led to the creation of the Rural Energy Access Lab (REAL – www.realenergyaccesslab.org) and the Digitalization Support Hub (DSH).

Less than a year after its inception,

the GGF is live with anticipated third party funding of over €6m for 2025 and fundraising underway for later tranches.

REAL was launched at GOGFSE in Nairobi in October 2024. Three REAL pilot projects have already been funded through DOEN and Good Energies Foundations (USD 700K) with implementation underway. And the Digitalization Support Hub is in the process of being finalized.

The 2024 A2EI workshop in Naivasha produced three additional ideas with the potential to be game changers

for achieving more of SDG7. They will address three main challenges identified at the workshop as facing the industry.

We'll keep you posted!



#7

ECOOKING RESEARCH IN UGANDA



This year we conducted a new study on electric cooking in Kampala, Uganda. The study involved monitoring the usage of electric pressure cookers using smart meters in 500 households in order to understand how households adopt electric cooking and how they respond to different electricity pricing mechanisms such as tariffs and rebates.

government has resulted in project findings that are both meaningful and actionable.

In addition to publishing results in a research report, the data and findings from the project were made available online through the Appliance Demand Platform, a customized off-shoot of Prospect developed to focus on research.

The study was unique in its scale and depth. But it is also unique in its involvement of different stakeholders: working directly with Umeme (Uganda's primary electricity utility) and receiving support and guidance from the Ugandan

This has enabled the results to be analyzed and viewed in real time, and they were first presented in early November at Uganda's Renewable Energy Conference to a standing ovation. That was a good feeling!

This research and the ADP platform development were supported by The Global Energy Alliance for People and Planet (GEAPP).



#8 LOOKOUT FOR 2025



As you can gather from the above developments, we are going to be busy in 2025. In very different but complementary domains, ranging from cooperation and co-development in hardware, to expanding our software and data work and sharpening our finance offering.

The political shifts we can observe in the US as well as in Europe are not in

our favor, with an almost ubiquitous “us first” approach dominating the rhetoric. COP29 has not been a success and SDG7 is rarely a political priority. Whilst all the time the damaging impact of climate change increases.

In the face of these challenges, we will continue to innovate for positive changes by doing these three things:

1. Implement all the best practices and work tools we did not have available to us 10 years ago – watch out for the Green Desco Box concept in 2025
2. Help consolidate the sector, with debt restructuring, new equity injection and adapted grant support – while nurturing the idea that not every venture should attempt to make money (a.k.a. not for profit SDG7 consortia)

3. Document every step with data data data, to prove impact and assess best allocation of capital. #StopGuessing

If there are project ideas which are dear to your heart, that you think could impact the sector or should be followed up, please let us know. It might just be included in our broad portfolio of activities!

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A special thank you to the generous supporters making our work possible:

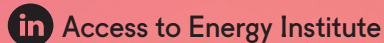


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