

How NASENI is Harnessing Renewable Energy for Sustainable Future



NSEL Solar Panel



Solar Irrigation Pump



Solar Generator



NASENI-PEEMADI Solar Generator



NASENI-EMDI BOSSGEN

By Emmanuel O. Chukwu, Ahmed Adebare, Oluchi Tony-Onyeausi and Bartholomew Omaku

In more than 30 years of its operations, while carrying out extensive research and development activities, including commercialization of R&D results or innovations, the National Agency for Science and Engineering Infrastructure (NASENI) has recognized energy as bedrock for economic growth, societal development and national progress. Energy sufficiency is central to all initiatives aimed at alleviating poverty and enhancing security in all respects.

Today, the challenge of ensuring a steady or reliable energy supply has emerged as an urgent issue critical to the country's socio-economic development. Looking forward, the sustainability of Nigeria's economic growth is deeply intertwined with long-term availability of energy sources that are not only affordable and accessible but also environmentally sustainable.

The interplay between energy, security, climate change, and public health underscores the interconnectedness of both the challenges and ditto their significant solutions. In this context, no doubt, Nigeria is currently confronting a severe energy crisis driven by two main factors: the rapid population growth and rising cost of living amongst the populace. Therefore, for Nigeria, the transition to renewable energy is not simply a necessity; it represents a crucial opportunity for homeowners, business leaders, and government entities to invest in a greener, more dependable

energy future. By promoting renewable energy solutions, especially those developed by NASENI, Nigeria can pave the way for this much-needed transformation.

At the cutting-edge of Nigeria's renewable energy technology initiatives, NASENI has dedicated itself consistently to rigorous R&D efforts, coming up with innovative products that are already making considerable impacts in the market. Some of these leading products are a culmination of decades of collaborative efforts between NASENI and its partners with

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Code of Conduct Bureau Mulls Renewable Energy, IT Products from NASENI

By Henry Ukwadia, Abuja



The Executive Vice Chairman/CEO of NASENI, Mr. Khalil Suleiman Halilu (Center); the Chairman, Code of Conduct Bureau (CCB), Dr. Abdullahi Usman Bello (to his left); Coordinating Director of Planning and Business Development NASENI, Mrs. Nonyem Onyechi (2nd to EVC's left), the Secretary to the Agency NASENI, Dr. Mrs. Olayinka Komolafe (3rd to EVC's right); the Coordinating Director, Finance and Accounts NASENI, Alh. Ibrahim Baba Dauda (2nd to EVC's right); Commissioner, Code of Conduct Bureau (CCB) representing South-West, Hon. Abdulsalam Taofeek Olawole (1st on EVC's right) and other special dignitaries during the Code of Conduct Bureau management team's visit to NASENI Headquarters, Abuja on Wednesday, March 26, 2025.

The Code of Conduct Bureau (CCB) has sought collaboration and support from the National Agency for Science and Engineering Infrastructure (NASENI) on information technology (IT) and renewable energy to strengthen the Bureau's operations.

The Chairman of CCB, Dr. Abdullahi Usman Bello, stated this when the Bureau's Management team paid a working visit to the EVC/CEO of NASENI, Mr. Khalil Suleiman Halilu and his Management at the Agency's headquarters in Abuja on Wednesday March 26, 2025.

According to Dr. Bello, the CCB is seeking NASENI's collaboration in three areas namely: Compressed Natural Gas (CNG), Solar Energy System and Information Technology (IT), adding that a sustainable online technology infrastructure is crucial to the operations of the Bureau, as it will strengthen CCB's Online Assets declaration.

Responding, the EVC said NASENI as an Agency has a holistic plan to

extend its support to government agencies, thereby assuring the Bureau that the Agency would support its quest.

He informed the Chairman of CCB that the role of NASENI is to develop technologies in support of the national economy and the Agency has the capacity to do that. "ICT is our area of strength. Of course, the National Information Technology Development Agency (NITDA) has that as its mandate, but our unique nature allows us to do business with government agencies and set up Limited liability companies also", he added.

The EVC/CEO assured the chairman of CCB of the Agency's commitment in the areas of Information Technology (IT), solar panels and inverters. The climax of the partnership was the nomination of Acting Director, Natural and Physical Sciences, Science Infrastructure Directorate, NASENI, Mr. Ado Galadima; and Dr. Fatima Kire Ahmed of CCB respectively to serve as focal persons in furtherance of the partnership.

NATIONAL AGENCY FOR SCIENCE AND ENGINEERING INFRASTRUCTURE (NASENI)

OUR GOAL

To build a 21st century institution founded on and driven by the core principles of Collaboration, Creation and Commercialization.

OUR VISION

Fueling Nigeria's innovation for a sustainable future.

OUR MISSION

We develop and maintain a dynamic Science and Engineering Infrastructure to drive indigenous industrialization, job creation and national progress.

OUR CORE VALUES

KNOWLEDGE SHARING:

Leveraging local materials and rapid conversion of innovation into market-ready products.

INNOVATION:

Providing technology needs for the growth of Nigeria industries.

TECHNO-NATIONALISM:

Making Nigeria become key player in global technology advancement or invention.

PROFESSIONALISM:

To show competence and excellence in every aspect of its organizational activities.

NASENI: INFINITE POSSIBILITIES...

Feature

How NASENI is Harnessing Renewable Energy for Sustainable Future

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Stringing and soldering at NASENI Solar Energy Limited, Karshi, FCT, Abuja.

10 Development Institutes belonging to the Agency, spread across the country's six geo-political zones.

The Executive Vice Chairman/Chief Executive Officer of NASENI, Mr. Khalil Suleiman Halilu upon taking over office in September 2023, emphasized the Agency's commitment to extensive renewable energy R&D activities and the manufacturing of Solar Panels up to commercialization which NASENI is well-known for in the markets. The Solar Photovoltaic (PV) modules or Solar Panels manufactured by NASENI Solar Energy Limited (NSEL), a wholly owned company by the Agency is located in Karshi, FCT, Abuja.

The NASENI 1KVA Hybrid Solar Generator, a range of energy product known as BOSGEN; the NASENI E-

Tricycle designed for passenger and cargo use, the innovative NASENI 5W bulbs, the efficient NASENI Solar Irrigation Pump, and the versatile NASENI IP66 200W Solar Light are some of the products which came out successfully from NASENI's R&D efforts and collaboration.

NSEL, owned by NASENI is the first company in West Africa to produce solar photovoltaic (PV) modules and had since gone through extensive research to design and produce them in various types and wattages. The factory which has been upgraded to 50 megawatts capacity (with plans to expand to 100 megawatts before end of 2025) is equipped with requisite machinery, man-power and technical-know-how, produces high quality mono-crystalline solar panels which have comparatively out-performed many other imported ones.

Being a Standards Organization of Nigeria (SON) certified NASENI brand with Mandatory Conformity Assessment Programme (MANCAP) certification, NSEL's solar panels range include 80W, 175W, 180W, 190W, 200W,

250W, 275W, 350W and 690W. The production line has the capacity to design and produce modules tailored to specific needs.

Other products from NSEL include Plug and Play Solar Home Solution, a hybrid system with 1.5KVA electric power output rated capacity designed and patented to generate clean electricity for homes; Hybrid Solar Power Trainer, which simulates a typical grid-tied solar PV household electrical wiring connection for trainees to have adequate knowledge; Solar Powered Event Generator, designed and patented to provide power supply for occasions like marriage, naming ceremony or any other such social function that requires stable power supply; NSEL Solar Control System, designed to generate electricity can power small scale electrical appliances such as lighting point, mobile phone, Laptop, etc.

NSEL's prowess transcends solar module production. The company carries out services like load auditing,

At the cutting-edge of Nigeria's renewable energy technology initiatives, NASENI has dedicated itself consistently to rigorous R&D efforts, coming up with innovative products that are already making considerable impacts in the market.

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MOHAN 2025: Halilu Reaffirms Commitment to A Productive Work Environment

By Alhassan Nasir, Abuja



The Executive Vice Chairman/CEO of NASENI, Mr. Khalil Suleiman Halilu receiving a plaque from the Secretary to the Agency, Dr. Mrs. Olayinka Adunni Komolafe (2nd from right); Ag. Director of Admin and Human Resources, Mrs. Yetunde Ajayi (1st from left) and Head, Training and Staff Welfare (TSW) Dr. Mrs. Ucheobi (1st from right), during the Meeting of Heads of Admin in NASENI at NASENI HQ on Wednesday, March 26, 2025.

The EVC/CEO of NASENI, Mr. Khalil Suleiman Halilu, has reaffirmed his commitment to fostering a conducive and productive work environment for staff of the Agency.

Speaking at the first-quarter 2025 Meeting of Heads of Administration and Human Resources in NASENI (MOHAN) held at the Innovation Hub, NASENI headquarters, Abuja, he commended the Directorate of Administration for its role in maintaining a healthy and efficient workplace culture.

Mr. Halilu while declaring the two-day meeting open emphasized the importance of

feedback from junior staff in shaping effective administration. He noted a decline in reports of workplace conflicts, saying that for the past months, he has not received any emails regarding office violence or misconduct.

The EVC stressed that an organization's reputation is not solely measured by attracting investors or executing projects but also by the experiences of its employees. He praised the collaboration between the AHR departments and the Agency's unions, which has led to significant achievements that would have otherwise taken years to accomplish.

In her opening remarks, the Secretary to the Agency (STA), Dr. Olayinka Komolafe appreciated the EVC for recognizing the critical role of administrators in the Agency's success, saying MOHAN has been instrumental in fostering administrative synergy and transitioning towards proactive, innovative and adaptive management.

She further noted that as NASENI continues to drive technological advancement on national and international fronts, administrative officers must enhance their skills to effectively manage workforce dynamics and operational complexities.

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systems sizing and design, PV module installation and maintenance, renewable energy service research and consultancy. The installation experience or capacity of the company's pool of well-trained staff is premium; their works have been felt across the Nigerian landscape, having coverage in all geopolitical zones.

On the other hand, the NASENI 1KVA Hybrid Solar Generator stands out due to its ability to provide dependable power source for both homes and businesses, particularly during power outage. This advanced solar energy solution is equipped with two 250W solar panels and a 100AH battery, ensuring reliable power supply. It features sophisticated circuitries that protect against overload, overcharging, and deep discharge, as well as an MPPT-type charge controller and a digital display for real-time operation monitoring.

With zero greenhouse gas emissions, NASENI products present renewable energy sources that are reliable, cost-effective, low-maintenance, and designed to be portable and compact, making them well-suited for the Nigerian climate.

To complement these initiatives, NASENI has introduced energy-efficient product like the 5W LED bulbs. These bulbs provide exceptional illumination while consuming significantly less energy than conventional options, delivering dual benefits: reducing electricity cost for families and businesses, while being also environmentally friendly.

Designed to pair seamlessly with the NASENI Solar Generator, the energy-saving bulbs were manufactured using light-emitting diodes, which offer high energy efficiency along with extended service life. Their eco-friendly attributes allow them to save up to 70 per cent in

energy consumption, making them durable and suitable for widespread use across Nigeria.

In alignment with its mission to enhance energy access across Nigeria, NASENI has unveiled an innovative Solar Lightning System, particularly crucial for small businesses and communities that may have limited energy requirements. The Solar Lightning System is equipped with an 18W solar panel, which harnesses sunlight to generate necessary energy. It also comes with three additional bulbs, allowing for greater illumination across multiple rooms, enhancing overall usability.

It features a charging port compatible with mobile phones, hair clippers, rechargeable fans, and similar devices. This versatile system offers dual charging options, whereby users can charge the system either through the

solar panel or by connecting it to the electrical grid. Once fully charged, this power solution can provide lighting for a duration of 48 to 72 hours, delivering excellent illumination for various needs.

Another significant innovation introduced by NASENI is the BOSGEN (Battery Operated Solar Generator) system, which functions as a vital link between renewable energy generation and dependable power distribution. The BOSGEN range encompasses a variety of renewable energy solutions with capacities that extend from 480 watts to a robust 15 kilovolt-amperes (kVA). This wide array ensures comprehensive coverage for various use cases, catering for different energy demands.

In the realm of agriculture, the NASENI Solar Irrigation Pump emerges as a ground-breaking solution. By utilizing solar energy for irrigation purposes, farmers are positioned to significantly enhance crop yields while reducing their reliance on rainfall. This innovation not only promotes food security but also offers a sustainable farming approach in the face of changing climatic conditions.

As NASENI takes the initiative to make diverse range of alternative energy solutions available to the Nigerian populace, renewable energy technology stands as key factor for unlocking new potentials for homeowners, businesses, and government projects across the nation.

Through NASENI's innovative product offers, the transition to cleaner energy solutions not only facilitates the shift toward renewable energy but also promotes economic growth, environmental sustainability, leading to improved quality of life for Nigerians. By actively advocating or deploying NASENI's renewable solutions or technologies, stakeholders and end-users respectively could contribute to a robust and resilient energy future for the country.



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Institute News

ELDI Boss Appeals to Nigerians on Use of NASENI Products

By Oluchi Tony-Onyeanus, Awka



The Overseeing Officer of the Electronics Development Institute (ELDI), Awka, Engr. Dr. Oluwaseyi Ogungbenro explaining the functionalities of some of the products at the Strategic Focus Group Meeting in Awka, Anambra State.

The Overseeing Officer, the Electronics Development Institute (ELDI), Awka, Anambra State, Engr. Dr. Oluwaseyi Ogungbenro has urged Nigerians to reduce the appetite for foreign products and make patriotic commitment to patronize the products of NASENI and other made-in-Nigeria goods.

He stated that sustained patronage of locally produced products would continue to stabilize the value of the naira, adding that the NASENI's indigenous products are of the best quality and retain the capacity to satisfy the Nigerian market.

Speaking in Awka at the Strategic Focus Group Meetings on Made-in-Nigeria Products organised by the Agency, he explained that Nigeria's

economic growth must be linked to the cumulative productivity of the citizens, stressing that the Agency is taking the lead and will continue to take the leading role as the hub for technological innovation.

ELDI had its few products like the Electronics Medical Compact System, NASENI Solar Generator, Solar Lighting System among other products showcased at the event.

In his speech, the Governor of Anambra State, Prof Charles Chukwuma Soludo represented by the Commissioner for Industry, Hon. Chris Udechukwu, commended NASENI for the thoughtful initiative of driving the "Made-in-Nigeria" campaign, describing the act as wonderful. He noted that his government would continue to encourage manufacturers and that his administration is working hard to solve the power problem in the state.

Ebonyi Varsity, SEDI Enugu to Encourage Manpower Development

By Ugochukwu Okoye, Enugu

The Ebonyi State University of ICT, Science & Technology and the Scientific Equipment Development Institute (SEDI), Enugu are set to partner on equipment maintenance, skills acquisition, agro-processing, power and renewable energy solutions, bio-waste recycling, wood technology and capacity building.

The varsity's delegation including acting VC, Prof. Ernest Egba; Prof. Ekuma O. Ekumankama, senior consultant to the Vice Chancellor of Ebonyi State University; and Dr. Chinagorom Ituma were received by the Acting Managing Director/CE of the Institute, Engr. Dr. Lois Nwobodo and the management of SEDI.

Engr. Dr. Nwobodo, who thanked the delegation for taking time to visit SEDI, said it was a significant step towards bridging academia and industry gaps, expressing hope that students and researchers would gain first-hand experience and skills while contributing to the nation's industrial and technological advancement.

The Acting VC expressed optimism that the strategic partnership has the potential to drive innovation, entrepreneurship and sustainable development for the state in particular and the nation in general.

Institute News

PEDI Boss Advocates Hardwork, Cooperation from Staff

By Mr. Omowunmi Oladele, Ilesha

The Overseeing Officer, Prototype Engineering Development Institute (PEDI), Ilesha, Osun State, Mr. Hamzat Ahmed Olaoye, has advocated hardwork and cooperation among staff to move the institute forward.

While speaking on the importance of maintaining discipline, delivery of tasks, following laid-down rules and regulations in line with public service rules (PSR) and Oath of Secrecy, he reiterated PEDI's commitment to the 3Cs Agenda of the EVC/CEO of NASENI.

In a meeting with staff of the institute on assumption of office, Olaoye stated that he plans to re-structure the departments and units for more productivity and development and emphasized the need for training and re-training of staff to keep them abreast of latest developments in their various fields.

Mr. Olaoye, who pointed out the importance of working together with love, harmony and peace to reign in the Institute also sought for maximum support, advice and cooperation from the staff.

ELDI Seeks SON Support on Products Standardization

By Mr. Linus Chukwuma, Awka

The Electronics Development Institute (ELDI), Awka, Anambra State, has partnered with the Standards Organization of Nigeria (SON) to ensure that its products are in conformity with Nigerian industrial standards.

The crucial meeting, which held at SON's Awka office, was tailored to achieve inter-agency partnership and ensure that ELDI's commercializable products are in compliance with all regulatory requirements of SON as well as to improve the competitive advantages of the institute's products in the local and foreign markets.

Speaking at the meeting, the SON State Coordinator, Engr. Emmanuel Husseni, represented by head of unit, Electrical/Electronics Development, Engr. Fidelis Wariboko extolled ELDI's commitment towards local production, technology transfer and commercialization of innovative Ideas to boost Nigeria's economic development.

He assured that SON would schedule a visit to ELDI to inspect the production process and thereafter commence the procedure of issuance of Mandatory Conformity Assessment Programme (MANCAP) certificate.

In his speech, Overseeing Officer of ELDI, Engr. Dr. Oluwaseyi Ogungbenro described SON as the apex standardization body in Nigeria, acknowledging the agency's significant contributions to the industrial sector.

SEDI, Firm Sign MoU for Solid Minerals Processing in South-East

By Ugochukwu Okoye, Enugu

The Acting MD/CE of the Scientific Equipment Development Institute (SEDI), Enugu, Engr. Dr. Lois Onyejere Nwobodo has signed a Memorandum of Understanding (MoU) with the management of Joojo Gloservices Limited to boost solid minerals processing in the southeast.

The management of Joojo Gloservices Ltd, represented by Mrs. Jeskaya Onu expressed their excitement during the signing of the MoU, expressing satisfaction with the

technical capabilities on display at the Institute.

The MoU is aimed at boosting local production of mining equipment and machinery, primarily for the processing of minerals such as gold, furnaces for foundry operations for quality control and quality assurance.

In her remarks, the Acting MD/CE of SEDI assured the delegation that SEDI would implement its

terms of the MoU as it has several decades of experience in the production of equipment and machinery for artisans, small and medium scale industrial usage.



Institute News

EMEDI Updates Katsina Govt on Benefits of Institute

By Mohammed Alhassan, Katsina



The Project Manager of the Engineering Materials and Equipment Development Institute (EMEDI), Katsina, Dr. M. S. Abdullahi has led a delegation of staff to visit the Governor of Katsina State, Mallam Dikko Umar Radda to update him on the progress and benefits of the institute to the state.

The governor who was represented by the Secretary to the Katsina State Government, Alhaji Abdullahi Garba Faskari together with some Permanent Secretaries and Directors in the Government House received the EMEDI team.

The Project Manager stated the reasons for siting the Institute in Katsina, its mandate and the benefits Katsina State Government will derive from EMEDI when completed and commissioned.

He later promoted the market for the NASENI's Junior Science Kits (JSK) to the SSG. "This is an initiative of NASENI to build a Mobile Laboratory for teaching of science-based subjects in our schools. This bag is carefully put together with consideration of the entire subject's syllabus, certified by professional bodies, the academia and approved by UNESCO, he stated"

In his response, the SSG remarked that he was overwhelmed by the visit, adding that this type of Institution is long overdue in Katsina State due to the abundance of natural resources and raw materials. He assured the Project Manager that the Katsina state government would fulfill its obligations and was fully ready to partner with EMEDI Katsina to explore the solid mineral potentials that the state is endowed with.

SOMMEDI, Kogi State to Collaborate on Strategic Minerals

By Ahmad A. Sani Nasarawa

The Solid Minerals Machinery and Equipment Development Institute (SOMMEDI), Nasarawa and Kogi State Government are set to collaborate on strategic partnerships in mining and mineral processing.

The Kogi state delegation led by Alhaji Yakubu S. Yusuf, Senior Special Assistant (SSA) on Hotel and Tourism to the Kogi State Governor Ahmed Usman Ododo, included a team of mining and mineral processing experts led by Mr. Chris Ajoge.

The discussions centred on utilizing SOMMEDI's advanced mining and mineral processing equipment to support industry needs and enhance efficiency; knowledge transfer and capacity building through technical training, research exchange, and expert-led workshops.

...SOMMEDI Sensitizes Staff on Professionalism

In a bid to enhance professionalism and efficiency, the Solid Minerals Machinery and Equipment Development Institute (SOMMEDI), Nasarawa, organized a two-day intensive capacity building training for its staff.

The training, which was on Peace and Conflict Resolution Management, Ethics and Code of Conduct for NASENI, Public Service Rules (PSR) and Financial Regulation was aimed to sensitize staff and create awareness on key areas to enable them contribute meaningfully to the realization of SOMMEDI and the NASENI's mandate.

It also aligns with the EVC/CEO, Mr. Khalili Halilu's new NASENI initiative, which emphasizes professionalism, accountability and compliance with established regulations.

The training was a significant step towards enhancing SOMMEDI staff's skills, knowledge and overall efficiency in delivering on mandate. Participants stated that they recognized that continuous learning and development are key drivers of success in any organization.

News

NTLO, NACETEM to Collaborate on Technology Transfer, Commercialization of Products

By Babajide Sawyer, Lagos



NASENI Technology Linkage Office (NTLO), Lagos and the National Centre for Technology Management (NACETEM) are set to explore opportunities for commercialization and upscaling of the Agency's products.

NASENI has been working towards accelerating technology transfer and domestication to boost production across critical sectors, such as agriculture, industry and manufacturing. The Agency follows the 3Cs principles of collaboration, creation and commercialization to foster technology development and industrial growth.

Some potential areas of collaboration between NASENI and NACETEM include amongst others: Technology Transfer:

NASENI's expertise in research and development, reverse engineering and production to complement NACETEM's focus on technology management and innovation.

Capacity Building: NACETEM's initiatives, such as training one million Nigerians in skills critical to socio-economic development, could benefit from NASENI's resources and expertise.

Commercialization Strategies: By sharing knowledge and best practices, both organizations could enhance their commercialization efforts and promote indigenous technologies. The partnership according to both organisations has the potential to drive economic growth, job and wealth creation in Nigeria.

NASENI CBT Sensitisation Team Visits AMEDI, SOMMEDI

By Olaniyi Abdulwaheed Wale, Lafia and Ahmed Sani, Nasarawa

The Computer-Based Test (CBT) Sensitization Team from NASENI Headquarters has visited the Agricultural Machinery Equipment Development Institute (AMEDI), Lafia and Solid Minerals and Machinery Equipment and Development Institute (SOMMEDI), to sensitise all staff on the proposed CBT examination. The team noted that the exercise is expected to be in partnership with the Joint Admission Matriculation Board (JAMB) and promises to be hassle-free for staff.

The team stated that the visit underscores NASENI's Management desire to have all the staff physically and mentally prepared for the upcoming examination, adding that the sensitization exercise is to provide valuable insights and awareness on the adoption of digital methods for promotional examinations through the CBT system.

They noted that the adoption of CBT examination is essential to align NASENI with global technological advancements.



Photo News



The EVC/CEO of NASENI, Khalil Suleiman Halilu, the Hon. Minister of Innovation, Science and Technology, Chief Uche Nnaji and other dignitaries during the groundbreaking ceremony of Sustainable & Emerging Technologies Institute (SETI), at Bayero University, Kano recently.



The Chairman, Code of Conduct Bureau (CCB), Dr. Abdullahi Usman Bello and the Bureau's Management paid a working visit to the EVC/CEO of NASENI, Mr. Khalil Suleiman Halilu and his management team at the Agency's Headquarters in Abuja recently.



The Meeting of Heads of Administration in NASENI (MOHAN) System-wide held at the NASENI Headquarters in Abuja. recently.



The visit of Management of Ebonyi State University of ICT, Science and Technology to the Scientific Equipment Development Institute (SEDI), Enugu on Strategic Partnership recently.



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