

NASENI: Engaging Nigerians in Nation-Building Through Application of Science, Technology and Innovation

By Emmanuel O. Chukwu, Joy Ogbodo and Henry Ukwadia



NASENI Fourth Industrial Revolution Laboratory.

In today's world characterized by rapid global transformations, the concept of nation-building is inextricably linked to intentional investments in science, technology, and innovation (STI). Countries that are striving for prosperity and competitiveness in the dynamic 21st century socio-economic landscape have recognized that a strong technological foundation is essential for economic diversification, industrial growth, and sustainable

development.

Altogether in Nigeria, the institutional expression of such crucial understanding was the rationale behind establishment of the National Agency for Science and Engineering Infrastructure (NASENI), a pivotal federal government agency dedicated to spearheading indigenous research, fostering technological advancement, innovation or engineering solutions specifically designed to meet

Nigeria's socio-economic needs.

Established in 1992 by the Federal Government, NASENI has risen to prominence as the singular federal intervention agency, operating under supervision of the President and its mission is clear: to lead the transformative initiatives in the manufacturing sector, establishing a robust framework for industrial growth and fostering innovation for over all socio-

Continues on page 3

**Nationwide rollout of
NASENI's Solar Irrigation
Pumps Will Boost
Food Security- NEC**

— Page 4

**Research Commercialisation
is Key to Nigeria's
Economic Growth
-NASENI**

— Page 7

**FG Advocates
Commercialisation of
R&D Results to
Boost Economy**

— Page 8

News

NASENI Trains Staff on Multi-purpose Mini-Tractor Assembly and Maintenance

By Mohammed Nasir Alhassan



The Co-ordinating Director, Planning and Business Development, Dr. (Mrs.) Nonyem Onyechi (m), Director, Technology Business Development and Special Adviser on General Matters to the EVC/CEO, Mr. Bernard Ozigi, immediate left while flanked by the trainees.

NASENI has held a one-week hands-on training programme on the assembly, operation and maintenance of the Agency's Multi-purpose Mini-tractors.

Declaring the training open, the Coordinating Director, Planning and Business Development, Dr. (Mrs.) Nonyem Onyechi, said the training followed the Agency's Memorandum of Understanding (MoU) with KNIGHTS Company of the Czech Republic on technology transfer.

She noted that four staff members had earlier participated in an intensive training session in the Czech Republic, making it necessary to cascade the knowledge to other staff, particularly in tractor assembly and maintenance procedures. Dr. Onyechi urged participants to take the training seriously and the

acquire the skills to contribute meaningfully to Nigeria's agricultural and economic development.

In his welcome remarks, the Director, Technology Business Development, Engr. Ozigi O. Bernard, welcomed participants and emphasized the importance of commitment throughout the exercise. He further explained that the training outcome would reflect the results expected from the four staff members trained abroad in tractor coupling and maintenance. While appreciating the support of the EVC/CEO of NASENI, Mr. Khalil Suleiman Halilu, Engr. Bernard encouraged staff to maximize the opportunity by applying the programme for agricultural development in line with the Agency's drive to support President Bola Ahmed Tinubu's Renewed Hope Agenda

NATIONAL AGENCY FOR SCIENCE AND ENGINEERING INFRASTRUCTURE (NASENI)

OUR STRATEGIC GOALS

To accelerate Nigeria's economic growth

To reduce import bills, lift people out of poverty

To serve as Nigeria's primary technology transfer agency

OUR VISION

Fueling Nigeria's innovation for a sustainable future.

OUR MISSION

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

OUR MANDATE

To promote and develop science, technology and engineering infrastructure in Nigeria

3Cs PRINCIPLES

**Creation
collaboration
commercialization**

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

NASENI: Engaging Nigerians in Nation-Building Through Application of Science, Technology and Innovation

Continued from page 1

For Nigeria, this transition marks a deliberate shift away from a resource-dependent economy toward one that thrives on knowledge and innovation, industrial self-reliance and inclusive growth.

Strengthened by strong support from President Bola Ahmed Tinubu, NASENI has gained renewed momentum in its mission. The President's agenda on fostering homegrown solutions, promoting industrialization, and empowering youth resonate deeply with NASENI's core mandate. By prioritizing science and technology, the administration has transformed NASENI from a background entity into a central force for economic transformation.

A major pillar of NASENI's Executive Vice chairman/CEO Mr. Khalil Suleiman Halilu leadership is agricultural mechanization.



Under the Renewed Hope Agenda championed by President Bola Ahmed Tinubu, NASENI has assumed a pivotal role in the push to transform Nigeria into a hub for home-grown technology solutions, breaking free from the country's cycle of reliance on foreign technologies.



Continues on page 5



The 4th Industrial Laboratory at NASENI headquarters.

economic advancement of the country.

Under the Renewed Hope Agenda championed by President Bola Ahmed Tinubu, NASENI has assumed a pivotal role in the push to transform Nigeria into a hub for home-grown technology solutions, breaking free from the country's cycle of reliance on foreign technologies. With a revitalized mandate, visionary leadership, and a clear commitment to innovation, NASENI is feeling the gaps in Nigeria's industrial infrastructure, creating employment opportunities, and encouraging citizens to take an active role in cultivating a technology-driven domestic economy.

NASENI operates through an extensive network of over 12 specialized Development Institutes strategically located across Nigeria. Each institute focuses on distinct areas of innovation, ranging from

scientific equipment production in Niger and Enugu States, to hydraulic equipment engineering in Kano, solar energy advancement in Karshi, and prototype engineering in Ilesha, along with engineering design and development in Nnewi, amongst others.

These institutes function as vibrant factories of innovation, where groundbreaking research is not only conducted but also translated into practical prototypes, facilitating transfer of technologies to entrepreneurs for further commercialization of prototypes. This strategic framework ensures that Nigeria's industrial aspirations are not relegated to mere dreams but actively pursued and translated into tangible realities.

Crucially, NASENI's role aligns with global trends, highlighting how nations that prioritized research and development (R&D) cultivate resilient and sustainable economies.

News

Nationwide Rollout of NASENI's Solar Irrigation Pumps Will Boost Food Security- NEC

The National Economic Council (NEC) has endorsed the rollout of Solar Irrigation Pumps of the Agency across farmlands, saying it would boost food security in the country.

The NEC rose from its 152nd meeting held at the Presidential Villa, Abuja, endorsing NASENI solar-powered irrigation pumps for nationwide rollout ahead of the 2025 dry-season farming. The landmark decision underscores the Council's confidence in NASENI's capacity to deliver homegrown, energy-efficient solutions that directly respond to Nigeria's food security challenges.

The Executive Vice Chairman/CEO of NASENI, Mr. Khalil Suleiman Halilu, said "NEC's



The Vice President, Sen. Kashim Shettima (m) during the endorsement of NASENI Solar Irrigation Pumps by the National Economic Council (NEC), as he listens to the functionality of the machine, while others look on.

To facilitate immediate mass production and distribution of the pumps, NEC further mandated the Honourable Minister of Budget and Economic Planning, Senator Abubakar Atiku Bagudu, to work out funding modalities for NASENI.

decision is a strong vote of confidence in our ability to deliver energy-efficient, homegrown solutions that will boost food production, lower costs for farmers, and secure livelihoods.

"Special appreciation to President Bola Ahmed Tinubu for the continuous support, ensuring NASENI remains at the forefront of advancing his administration's reforms on industrialization, technology transfer, and food security. Together, we are building a more resilient agricultural sector, harvesting more sustainably and unlocking infinite possibilities for Nigeria," he added.

For decades, Nigerian farmers have struggled with the high cost of irrigation, heavily dependent on

fuel-powered pumps. The NASENI solar irrigation pump is also designed to help boost agricultural productivity by lowering operational costs for farmers, increasing yields, raising incomes, and improving rural livelihoods.

To facilitate immediate mass production and distribution of the pumps, NEC further mandated the Honourable Minister of Budget and Economic Planning, Senator Abubakar Atiku Bagudu, to work out funding modalities for NASENI.

This endorsement reinforces NASENI's role as a key driver of President Tinubu's Renewed Hope Agenda, particularly in advancing industrialization, local technology transfer, and sustainable solutions for national prosperity.

Feature

NASENI: Engaging Nigerians in Nation-Building Through Application of Science, Technology and Innovation

Continued from page 3

Understanding that a nation grappling with hunger cannot be productive, NASENI has designed, developed, deployed and maintained affordable agricultural tools and machinery. These innovations are tailored to boost productivity for smallholder farmers, substantially increase food production, and mitigate post-harvest losses, addressing the critical challenges faced in Nigeria's agricultural sector.

This is especially apparent in its agricultural mechanization programmes like Irrigate Naija and NASENI Tractor Recovery wherein the Agency has deployed NASENI Solar Irrigation Pumps to farms in Gamawa LGA, Bauchi State and also refurbished about 375 broken down tractors, which provide smallholder farmers with all-season irrigation



Trainees at the Power Equipment and Electrical Machinery Development Institute (PEEMADI), Okene, a division of NASENI.

and affordable technologies aimed at improving their yields and incomes, thus elevating their standard of living and increasing food security.

The Agency established the NASENI Solar Energy Limited (NSEL) in Karshi, FCT, Abuja, for the production of solar photovoltaic panels. Among the offerings are the Solar Photovoltaic (PV) modules or solar panels range like 80W, 175W, 180W, 190W, 200W, 250W, 275W, 350W and 690W.

Other innovative products include the NASENI 1KVA Hybrid Solar Generator, NASENI BOSSGE, the NASENI E-Tricycle designed for passenger and cargo use, the NASENI 5W bulbs, the NASENI Solar Irrigation Pumps, and the versatile NASENI IP66 200W Solar Light, Plug and Play Solar Home Solution, Hybrid Solar Power Trainer, Solar-

Powered Event Generator, and NSEL Solar Control System, Solar Street Lamps, Mobile Phone, Laptop, etc.

By harnessing solar and other clean energy technologies, NASENI aims to expand access to electricity across Nigeria, significantly reduce the nation's carbon footprint, and promote sustainable practices that support industrial clusters and enhance agricultural productivity.

The National Economic Council (NEC) recently endorsed the NASENI Solar Irrigation Pumps, a game-changer for Nigerian farmers, who have long depended on expensive and polluting petrol-powered systems. By providing a cheaper, cleaner, and more reliable alternative, NASENI's Solar Irrigation Pumps are helping to boost agricultural productivity or enhance

Continues on page 6

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News

NASENI: Engaging Nigerians in Nation-Building Through Application of Science, Technology and Innovation

Continues from page 5



Some NASENI engineers during their training on building and maintenance of Helicopter at the Caverton Offshore Support Group, Lagos.

policymaking including its disciplined implementation, and unwavering political support. By placing science, technology, and innovation at the core of its national development strategy, NASENI is establishing a robust foundation for a prosperous future in Nigeria.

NASENI has transcended its status, not just an institution; it embodies a movement aiming to inspire Nigerians to view innovation as the key to national greatness. By empowering citizens to innovate, invent, and produce, NASENI is affirming that Nigeria's future lies not in dependence but in self-reliance, creativity, and adaptability.

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In the realm of digital innovation, the Agency is driving digital transformation through comprehensive software development initiatives, extensive digital skills training programmes, and collaborative efforts with tech start-ups and innovation hubs. This multi-faceted approach ensures that Nigeria not only keeps pace with but actively participates in burgeoning global digital economy.

NASENI is also strengthening the capacity of Nigerians to innovate

through initiatives like Innovate Naija and the NASENI Research Commercialization Grant programme (NRCGP) among others to challenge the critical thinking or abilities of the youthful and research-oriented Nigerians to come up with solutions that can support the country's industrialization agenda.

Also, the NASENI-TROMENT Biotechnology facility at Idu Industrial Area, Abuja, a facility for vaccine production targets diseases such as malaria and tuberculosis, to alleviate the suffering of people across the continent. The newly built facility ensures essential vaccines are produced locally, reducing dependence on donor aid, and providing employment opportunities in the pharmaceutical and biotechnology industries.

Transforming Nigeria into a technology-driven economy is a complex endeavour that will not unfold overnight. It demands sustained investments, consistent

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News

Research Commercialization is Key to Nigeria's Economic Growth- NASENI

By Mohammed Nasir Alhassan



From left: Overseeing Officer, Agricultural Machinery and Equipment Development Institute (AMEDI) Lafia Engr. Mustafa Usman; Deputy Director, Engineering Infrastructure NASENI, Engr. Dr. Emmanuel Ajani; Director Manufacturing Services NASENI, Engr. Dr. Olayode Olasupo; Research Director NASENI, Engr. Dr. Patrick Okwu; EVC/CEO NASENI, Mr. Khalil Suleiman Halilu, ably represented by the Research Director of NASENI, Engr. Prof. Abdulmalik Onuwe; Director, Planning and Policy Analysis Department, Dr. MacDonald Aloko; and Coordinator, NASENI Research Commercialization Grant Programme (NRCGP), Engr. Dr. Anas Yazid during the Zonal Sensitisation Programme, held Wednesday, September 24, 2025 at the NASENI Headquarters, Abuja.

The National Agency for Science and Engineering Infrastructure NASENI has restated that research commercialization remains central to Nigeria's economic development.

Speaking at the North-Central Sensitization Programme on the N A S E N I Research Commercialization Grant Programme (NRCGP), held on Wednesday, 24th September 2025 at the Agency's headquarters in Abuja, it stressed the importance of addressing financial and administrative setbacks often faced by research projects.

The EVC/CEO of the Agency who was represented by NASENI's Research Director, Prof. Abdulmalik Ibrahim Onuwe stated that the NRCGP was designed to support viable research and development initiatives in the country, which also

propagates NASENI's mission and vision.

According to him, the application process is fully digitalized, transparent, and does not require physical presence or long administrative procedures. "This sensitization is not just for personal benefit but also to empower prospective researchers from institutes who may seek guidance about the programme," Halilu said.

He urged participants, including representatives from universities, the National Institute for Pharmaceutical Research and Development (NIPRD), National Space Research and Development Agency (NSRDA), among others to take full advantage of the opportunities provided by NASENI to foster collaboration and innovation.

Presenting an overview of the NRCGP, Programme Coordinator

and Special Adviser to the EVC on Science and Engineering Commercialisation, Engr. Dr. Anas Balarabe Yazid, highlighted the objectives, eligibility criteria, and key assessment tools of the programme.

He emphasized that the grant aligns with NASENI's mandate to promote local content, noting that under the NASENI principle of Creation, Collaboration and Commercialisation (3Cs), it is being radically prioritized. "Every research project must be noble, clear, market-viable, and align with NASENI's transformation agenda and Nigeria's broader development goals," he said.

In her vote of thanks, Deputy Director, Planning and Policy Analysis, Ms. Joy Elugbe expressed appreciation to the EVC and participants, encouraging researchers to embrace NASENI's initiatives as a pathway to national progress.

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News

FG Advocates Commercialization of R&D Results to Boost Economy **...as NASENI-PICTT Launches DELTA-2 Second Call for Proposal**

By Henry Ukwadia and Mohammed N. Alhassan



The EVC/CEO, Mr. Khalil Suleiman Halilu delivering a speech during the programme.

The Federal Government through NASENI has advocated the commercialization of research and development (R&D) results to boost the economy.

This was stated during the launch of the Second Call for Proposals for Delta-2 Project organised recently by NASENI and the Presidential Implementation Committee on Technology Transfer (PICTT), which will focus on commercialization of all R&D outcomes in different fields of the economy.

The Delta-2 Project is a bilateral collaboration by the Federal Government of Nigeria through NASENI-PICTT and the Czech Republic through the Technology Agency of the Czech Republic (TA CR) targeting submissions from innovators, technology entrepreneurs and researchers in Nigeria across mining, agriculture, advanced manufacturing, science and engineering, etc.

The First Call for Proposals under the Delta-2 programme was launched in

year 2022, following which grants were disbursed by NASENI to winners of the approved projects to scale up their enterprises.

In his keynote speech, the Executive Vice Chairman/CEO of NASENI, Mr. Khalil Suleiman Halilu, noted that DELTA-2 has the potential to be a catalyst for Nigeria's innovation ecosystem adding that the decision is already yielding results. "Today, we can point to the stories of 12 beneficiaries from the First Call, Nigerians who are working on diverse projects across our country.

"From renewable energy solutions to advanced materials, from agricultural technologies to manufacturing innovations, these projects testify to the power of applied research to solve real problems, create jobs, and deliver products and services that meet the needs of our people", he remarked.

Halilu noted that what makes DELTA 2 unique is its focus on outcomes. "It is not research for the sake of research; it is research with purpose and market in mind. It is research that leads to new knowledge, new skills and new products. It is research that bridges the gap between the laboratory and the marketplace, between ideas and impact.

"It is also a bridge between nations — between Czech enterprises and Nigerian innovators, between European expertise and African creativity. Together, we are building partnerships that accelerate progress, foster mutual respect and infinite possibilities for both our countries", he

emphasized.

The NASENI boss further stated that DELTA-2 projects being supported by NASENI will respond not only to the current needs of the society, but also anticipate the challenges of tomorrow — from climate change to digital transformation. Therefore, he called on researchers, innovators and entrepreneurs in Nigeria to make use of the opportunity once again.

Earlier in his welcome address, Chairman, PICTT, Dr. Dahiru Mohammed, said Delta-2 Project has become a major driver of innovation, economic growth and sustainable development in Nigeria, saying it is aimed at accelerating Nigeria's technological growth through international collaboration.

"The DELTA-2 Programme is a catalyst for job creation, enhanced productivity and the growth of small and medium enterprises (SMEs). It will help reduce dependence on imports while boosting Nigeria's global competitiveness," he stated.

In his remarks, Minister of Innovation, Science and Technology, Chief Uche Geoffrey Nnaji, said the "The theme is clear, it is to generate research outcomes that will lead to new products, new processes, apply results that directly enhance Nigeria's competitiveness, create jobs and open new markets at home and abroad".

He noted that the Delta-2 Projects priority areas range from agriculture and food technology, renewable energy, mining and industrial development, health and health technologies, advanced manufacturing, digital mobility, climate technology and defence innovations which aligns strongly with President Bola Ahmed Tinubu's Renewed Hope Agenda.

News

Africa Has Manufacturing and Innovation Competitive Advantages on Global Scale-*Halilu*



The EVC/CEO of NASENI, Mr. Khalil Suleiman Halilu (1st right) and other panelists at the Gulf Information Technology Exhibition (GITEX) 2025.

The EVC/CEO of NASENI, Mr. Khalil Suleiman Halilu has declared that Nigeria and Africa have both manufacturing and Innovative competitive advantages over many other countries around the world.

Halilu who spoke at the Gulf Information Technology Exhibition (GITEX) 2025, held in Lagos recently, said “Nigeria and Africa have very vibrant or young generation and also with huge market population, labour is cheap and many young Africans are yearning to innovate and to work.”

He said these and other economic factors of availability of materials needed for production, all combined to make Nigeria and the rest of Africa the next attraction for investment destination, including high return on investments (ROI).

Halilu disclosed the above one of

the five panelists and resource persons on the topic “The Neo-Geo Politics of TECH” during one of the GITEX Week plenaries at the conference and exhibition held at the Eko Hotel, Victoria Island, Lagos.

Reflecting on the current global political economy conflict on tariff among big players, the EVC said “It is really been a new era. One year seems like ten when big national economies struggle over tariffs and simply put, when the big economies are fighting, the small players feel the impacts the most.

“Our response has to be simple: diversify supplies, localize what is practical and then get government and regulators to share some of the risks. For companies, there are a few key moves.”

He urged Nigeria and other African countries to build resilience in their products so they can absorb

shocks. Costs are not going down anytime soon, and we need to be ready, form partnerships and work collectively to standardize. “That gives us an edge and creates new opportunities, push government institutions to set and enforce standards, while also providing incentives because incentives drive industrialization,” he added.

According to NASENI boss, “Nigeria today has many incentives for local manufacturing, but we also need to localize foreign exchange demand. That’s why companies should think seriously about local production. With our population, we can remain independent of imports. That is why everyone now is seeing NASENI entering into new partnerships—with Japan, Brazil and the West.”

Our response has to be simple: diversify supplies, localize what is practical and then get government and regulators to share some of the risks. For companies, there are a few key moves.

News

NASENI, NIDCOM to Tap Diaspora Expertise to Drive Innovation



The chairperson of Nigerians in Diaspora Commission (NiDCOM), Hon. Abike Dabiri-Erewa (m), on her right is the EVC/CEO of NASENI, Mr. Khalil Suleiman Halilu during the visit of the NASENI team to the Commission.

NASENI and the Nigerians in Diaspora Commission (NiDCOM) have agreed to work closely to explore new ways of building innovation and technology, using the expertise and skills of Nigerians living in the diaspora, as well as those at home.

The EVC/CEO of NASENI, Khalil Suleiman Halilu and the Chairman/CEO, NiDCOM, Hon. Abike Dabiri-Erewa, during a strategic meeting at NIDCOM headquarters described this collaboration as a “timely intervention”, noting that it will help connect Nigeria's local innovators with scientists, engineers, technologists, and entrepreneurs in the Diaspora.

Mr. Halilu, highlighted NASENI's key projects, including Revolut, a payment platform already serving thousands of Nigerians with low-cost, real-time transfers; the Innovation Hub and Incubation Programme, Nigerian scientists and innovators, both in home and

diaspora; and Delta-2, a partnership with the Czech Republic entering its third phase this September to bring new technology and international collaboration to Nigeria.

Halilu said his visit to NiDCOM was to present two key projects: a government-backed payment

platform, similar to Revolut, designed to be seamless, flexible, multi-currency, and to provide real-time monitoring at affordable rates.

He said the second project aims to engage Nigerians in the Diaspora, particularly in science, technology, innovation, and entrepreneurship, to develop practical projects that can grow the economy.

While commending Dabiri-Erewa, the NASENI CEO added that NiDCOM's database of professionals would play an essential role towards this course.

She asserted that the partnership will foster opportunities for Nigerians everywhere to work together for Nigeria's progress; through sharing ideas, skills, and experiences that can help build a stronger, more innovative Nigeria, especially under the Renewed Hope Agenda of President Bola Ahmed Tinubu.

Both NiDCOM and NASENI also agreed to set up a joint working committee to streamline areas of collaboration and design projects focused on science, technology, engineering, and mathematics (STEM), alongside wider Diaspora engagement.



News

New Editorial Board Emerges for Nigerian Journal of Science and Engineering Infrastructure

By Mohammed Nasir Alhassan



The EVC/CEO of NASENI, Mr. Khalil Suleiman Halilu (m) flanked by the members of the Editorial Board.

The EVC/CEO of NASENI, Mr. Khalil Suleiman Halilu, on Thursday, 18th September 2025, inaugurated a new editorial board of the Nigerian Journal of Science and Engineering Infrastructure (NJSEI) at NASENI headquarters in Abuja.

Speaking at the event, Mr. Halilu expressed delight that the launch of Volume II of the journal coincided with his second year anniversary in office and commended the contributions of past and present editorial teams, noting that their dedication had made the second volume possible.

The EVC urged the newly inaugurated members to expedite the review process of articles without compromising quality, to sustain the journal's frequency and ensure the timely publication of Volume III in 2025. He emphasized the importance of producing both

electronic and print editions.

Highlighting the focus areas of the journal, Halilu, who serves as Editor-in-Chief, said the publication would cover infrastructure, science, and engineering, including solid minerals, physical and life sciences, agriculture, ecology, manufacturing, material science, design and fabrication, renewable energy, power, and electronics.

He stressed that these sectors are central to Nigeria's economic growth and align with the Renewed Hope Agenda of President Bola Ahmed Tinubu.

The EVC/CEO further announced new operational standards to enhance the journal's visibility and global competitiveness, which include securing International Standard Serial Numbers (ISSN) for both print (ISSN 3094-9466) and electronic (e-ISSN 3092-94090)

versions, as well as assigning Digital Object Identifiers (DOI) to articles.

These according to him, are measures that will improve accessibility, credibility, and security of published works. He disclosed that Volume II, published in 2024, already adopted these standards featuring high-quality print, DOI, ISSN, and the NASENI logo.

While speaking on the plan ahead of Volume III, the EVC said the editorial team was invited to a review conference, while training sessions were organised to update content and equip reviewers with digital tools such as Grammarly and online management systems.

Halilu also paid special tribute to the Coordinating Director of Science Infrastructure, Prof. Umar Ibrahim Gaya, for championing the establishment and sustainability of the journal within NASENI.

News

Agency Reiterates Commitment on Climate Action, Green Economy Transition

By Mohammed Nasir Alhassan

NASENI has reaffirmed its commitment to driving Nigeria's transition to a sustainable climate action and green economy. This was disclosed at a seminar on climate change and green economy sustainability, held on Tuesday, September 23, 2025, at NASENI headquarters in Abuja.

The EVC/CEO represented by Engr. Muhammad Yadudu, Special Assistant on Assets Restoration, gave an overview of NASENI's role in addressing climate challenges while promoting industrial growth in the country.

He noted that NASENI was established to provide the science, technology, and engineering backbone for Nigeria's industrialization, stressing that the Agency's mandate of research, development, and technology domestication is increasingly tied to the global fight against climate

change.

"Every solar system installed, every tractor restored, every clean cookstove produced, and every CNG vehicle conversion is a step toward industrial growth that is also climate-resilient," he stated.

Highlighting NASENI's ongoing projects, the EVC pointed out several key initiatives ranging from renewable energy, which has to do with assembling and distributing solar home systems, producing solar panels and lamps locally, and promoting access to clean power.

Clean Cooking Solutions, which also provides energy for cooking through the Power stove Limited and NASENI, which produces clean cookstoves and biomass pellets to reduce carbon emissions, improve public health, and unlock carbon credit opportunities.

Other climate-smart projects which NASENI is working on

include Agro-Tech and fertilizers production that help in developing organic and coal-based fertilizers to strengthen food security while reducing emissions from chemical fertilizers.

Speaking further on transport and energy transition, the EVC said NASENI is supporting CNG/LPG auto conversion and fueling stations as alternatives to petrol and diesel. On digital & smart Manufacturing, he said the Agency is advancing local production of laptops, tablets, drones, and smart devices with sustainability at the core of design.

Earlier in his welcome address, the team lead of Carbon Ecosystem at NASENI, Engr. Patrick Offiaeli said the seminar of such magnitude reflects NASENI's drive to build awareness and align its operations with Nigeria's sustainability agenda.

"This seminar represents an important step in our collective effort to build institutional capacity, deepen awareness, and strengthen NASENI's role in advancing Nigeria's sustainability and innovation agenda," Offiaeli stated.

The training brought together NASENI staff, invited experts, and stakeholders to share insights on how the agency can integrate climate action into its mandate of developing homegrown technologies and restoring critical infrastructure.



Institute News

ELDI Trains Staff on Harnessing AI for Creative Excellence

By Engr. Linus Chukwuma, Awka

In line with NASENI's commitment to innovation, visibility and digital transformation, the Electronics Development Institute (ELDI), Awka, organized a three-day training programme from September 2-4, 2025 to equip staff with cutting-edge skills in video graphics and digital content creation using Artificial Intelligence (AI).

The training, facilitated by Mr. Okaro Okechukwu, personal assistant on Information Technology to the Overseeing Officer, Engr. Dr. Ogungbenro Oluwaseyi focused on the application of Artificial Intelligence (AI) to generate advert video, as well as the use of professional video editing software to enhance institutional branding and communication.

Speaking at the opening ceremony, Engr. Ogungbenro, who was impressed about the initiative urged participants to maximize the opportunity by acquiring practical knowledge that would drive creativity to strengthen the institutional image and improve the visibility of NASENI's products and services.

Participants were from the

Information Communication Technology (ICT), the Information, New Media and Protocol (INMP) and Marketing units, alongside other key members of the content creation team. They were introduced to AI-based tools and applications capable of generating advert videos from prompts tailored for marketing and creation of awareness.

In addition, they were trained on how to refine, merge and enhance both AI-

generated and recorded videos using professional editing software to meet global standards of quality content.

The aim of the training was to introduce participants to AI-powered platforms for advert video creation, build staff capacity in professional video editing for high-quality content production and to foster collaboration among ICT, Information & New Media and Marketing units in digital publicity and awareness campaigns.



HEDI, ENACTUS Team Synergize on Collaboration

By Bello A. Bello, Kano

The Hydraulic Equipment Development Institute (HEDI), Kano on Tuesday, September 16, 2025 received a delegation from Entrepreneurial Action in Us (ENACTUS), a non-profit organization that empowers students to use innovation in creating community impact.

In his remarks, the Overseeing Officer of HEDI, Mr. Ibrahim Maje Adnan, represented by Head of Department (HOD), Technology

Business Development (TBD), HEDI-Kano Mr. Hamisu Muhammad, commended the students for their innovative thinking and encouraged them to continue on this impactful path.

He further reiterated that HEDI-Kano is always open to meaningful collaborations—both local and international in line with NASENI's vision of advancing technological innovation and industrial development for the country.

Engineers, professionals and experts at HEDI-Kano engaged with the ENACTUS team, critically reviewing their

proposals. The team was then directed to formally submit their ideas to the already established Project Selection and Implementation Committee of HEDI-Kano for further consideration.

The ENACTUS delegation was also taken on a guided tour of HEDI-Kano's facilities, where they saw firsthand the advanced machines and technologies currently available. The visit underscored HEDI-Kano's readiness to embrace innovation and foster partnerships that drive national progress.

Institute News

Whistleblowing Policy Gains Momentum as NASENI Pledges Support

By Sandra Chiamaka Anaka, Lagos



Hon. Minister of Finance. Governor Sanwo-Olu emphasized that the fight against corruption must be regarded as a patriotic duty, noting that corruption threatens the present and future of Nigeria's generations.

A short documentary presentation followed, showcasing the milestones and challenges of the Whistleblowing Policy since its inception. Highlights were the Recovery of funds looted through fictitious accounts, Repossession of unlawfully acquired fixed assets, Prosecution and sanctioning of indicted individuals,

and ongoing sensitisation exercises across the six geo-political zones.

Speakers agreed that the Whistleblowing Policy goes beyond recovering stolen public assets; it is a transformative tool for embedding integrity and transparency in governance.

By taking part in the sensitisation exercise, NASENI demonstrated its alignment with the Federal Government's anti-corruption drive and its commitment to strengthening accountability frameworks nationwide.

The NASENI Linkage Office (NTLO) in Lagos has reaffirmed its commitment to transparency and accountability by participating in the two-day Nationwide Sensitization Programme on Whistleblowing Policy Implementation.

The event, organised by the Federal Ministry of Finance, was held on September 16–17, 2025 at Adeyemi Bero Hall, Lagos State Secretariat, Ikeja, had the theme: "Assessment of Whistleblowing Policy Implementation in Nigeria: The Journey So Far."

High-profile dignitaries at the event include Lagos State Governor, Mr. Babajide Sanwo-Olu, represented by his Special Adviser on Taxation and Revenue, Mr. Abdul-Kabir Opeyemi Ogunbo; Hon. Minister of Finance, Mr. Wale Edun, represented by Mr. Raymond Omachi; and the Inspector General of Police, represented by the Lagos State Commissioner of Police, CPOlohundare Moshood Jimoh.

The event was declared open by the

ELDI Urges Anambra State Govt. Support for Renewable Energy Products Manufacturing

By Engr. Chukwuemeka Oluka, Awka

The Electronics Development Institute (ELDI), Awka Anambra, a division of NASENI has called for stronger support from Anambra State government for local production of renewable energy products.

Representative of ELDI, Engr. Oladapo Olatoye who spoke at the Anambra Energy Transition Convening 2025, a programme to articulate energy roadmap of the state government, spotlighted the institute's research in energy-saving technologies and smart home systems.

He appealed for stronger government backing to scale up renewable energy innovation, a call that drew wide applause. The Anambra Energy Transition Convening 2025 featured insightful discussions, impactful

presentations, and commitments toward advancing clean energy adoption.

The event marked an important milestone in strengthening collaboration and innovation for a greener, more sustainable future in Anambra.

The event themed "Powering the Future of Anambra with Renewable Energy", was held on Friday, September 26, 2025, at Best Western Meloch Hotel, Awka. It was organized by the Anambra State Ministry of Power and Water Resources in partnership with Green Echo RETT.



Institute News

IMSU Seeks ELDI's Collaboration on Technical Research

By Engr. Linus Chukwuma, Awka

In a strategic bid to enhance the quality of Nigerian technical research studies, a delegation from the Physics Postgraduate Studies, Imo State University (IMSU), has visited the Electronic Development Institute (ELDI), Awka, a division of NASENI.

The excursion and collaboration are targeted towards leveraging the wealth of creative ideas, expertise and innovative services of the institute to assist students of postgraduate studies in physics to develop scientific solutions to real life problems through academic research.

The delegation led by the Head, Department of Physics, IMSU, Prof. Jude Okanandu Ozuomba was welcomed by the Overseeing Officer, ELDI, Engr. Dr. Oluwaseyi Ogungbenro, who was represented by Head, Planning and Policy Analysis Department, Engr. Dr. Nneka Ezeani.

Dr. Ogungbenro intimated the delegation of the 3Cs agenda of Creation, Collaboration and Commercialisation of NASENI and other transformative blueprints of the Agency, which provides the appropriate environment for the machinery and product rollouts from the institute.

The visitors were shown ELDI's innovative and commercialisable products like NASENI Solar Generator, energy-efficient 5W and 10W bulbs and various human capacity building services such as Solar System Design, Installation and Maintenance, Internet of Things (IoT), Embedded Systems Design & Programming.

The Overseeing Officer stressed that NASENI's products were mostly made with local materials and manpower sourced within the nation. He emphasized that ELDI's innovative products have been proven to be durable and affordable.

Prof. Ozuomba expressed profound interest in ELDI's innovative products and services. According to him, "these Made-in-Nigeria products are state-of-the-art as well as of high-quality complying comparatively with its counterparts in world-class industry standards".



Alfred Akawe Torkula Polytechnic Awed by SEDI-Minna's Science Kits, Others

By Jummai Kandi Mohammed, Minna

The Management team of Alfred Akawe Torkula Polytechnic, Makurdi, led by its Rector, Dr. Martins Moses, has paid a working visit to the Scientific Equipment Development Institute, Minna, Niger State. The delegation was received by the Overseeing Officer (OO), Dr. John Hemen, alongside his management team on Tuesday, September 30, 2025.

In his welcome address, Hemen highlighted SEDI-Minna's notable achievements in science and engineering, and showcased some of its educational products, including the Mechatronics Kit, Primary Science Kit, Junior Science Kit, Senior Science Kit and mobile electroplating kit.

He said they have contributed meaningfully to the advancement of education. He also mentioned some of the Institute's fabricated machines such as the melon shelling machine, mobile farm sprayer, sugarcane juice extractor, and groundnut oil extractor among others.

Furthermore, Dr. Hemen emphasized the establishment of the institute CBT Centre as well as the Youth Entrepreneurship & Skill Acquisition Centre, which provides training in various fields aimed at human capacity development and self-reliance.

In his response, the Rector, Dr. Martins Moses said SEDI-Minna's growing reputation in the media prompted his visit to explore areas of collaboration, adding that he was highly impressed by the machines, equipment, and facilities available at the Institute.

He added that Nigeria would greatly benefit if SEDI-Minna received adequate funding. He also outlined key areas of interest for collaboration, to which Dr. Hemen gave immediate consent and assurance of support.



Institute News

NCoE, NTLO Showcase Industrial Molder and Spare parts at Propak W/Africa Expo

By Sandra Chiamaka Anaka, Lagos



The NASENI Centre of Excellence (NCoE), Idu Abuja has showcased its molds and spare parts production facilities at the 12th edition of Propak West Africa Exhibition and Conference, held from September 9-11, 2025, at the Landmark Event Centre, Lagos.

Renowned as Nigeria's flagship innovation Centre, the NCoE

specializes in manufacturing all types of industrial molds-from injection molds to blow molds and PET molds-providing world-class solutions designed to help manufacturers optimize production.

Beyond mold-making, the NCoE also excels in reverse engineering, precision spare parts production and heat treatment services, reinforcing its role as a key driver of industrialisation in Nigeria.

The exhibition team was led by NCoE project manager, Engr. Ali Hassan Hassoun and liaison officer, Dr. Salisu Mohammed. They were supported by NASENI Technology Linkage Office (NTLO), Lagos staff led by the Overseeing Officer, Mr. Babajide Sawyerr; information officer, Sandra Chiamaka Anaka; and Engr. Akintunde Adeosun.

The 2025 edition of Propak West Africa attracted over 5,000 senior professionals, more than 250 brands from 35+ countries and major sponsors such as Dangote Group, SACMI and Neofyton and over 10 industry partners. NASENI's stand drew over 200 visitors daily, including multinational manufacturers, local industry players and policymakers.

Big brands from within and outside Nigeria engaged with NASENI's team, with many expressing strong interest in partnerships for local manufacturing and commercialisation. This reinforces NASENI's pivotal role in advancing Nigeria's self-reliance agenda.

By showcasing cutting-edge mould designs, engineering spare parts and customized production tools, NASENI is directly addressing the needs of manufacturers who seek to reduce import dependence, cut production costs and enhance product quality.

PEDI Ilesha Trains Staff on Safety Measures and Facilities Management in Workplace

By Omotosho Oseni, Awka

The Prototype Engineering Development Institute, PEDI Ilesha, Osun State, on Thursday, September 25, 2025, trained staff of the Institute on safety measures and facilities management in the workplace.

The virtual training session was facilitated by a former staff of PEDI Ilesha, Engr. Yakubu Momoh Jimoh Ajari, from the Memorial University, Newfoundland, Canada; and with Engr. Dr. Rashaq Olabomi Adekunle of National Institute for Policy and Strategic Studies, Kuru, Jos.

The training title: Safety Measures and Facilities Management in Standard Workplace: A concern for all, had participants drawn from all departments and units, with

understanding that such knowledge gained will help in ensuring staff productivity and efficiency.

Areas such as Ergonomics in the Workplace, Workplace Hazardous Materials Information System (WHMIS) and Waste Management are thoroughly emphasized as it is encouraged that Workplace Audit Implementation should be conducted regularly as a safe sustainable workplace starts with everyone.

The Overseeing Officer, PEDI Ilesha, Mr. Hamzat A.O. used the medium to reiterate the need to take assigned jobs seriously without neglecting safety cautions in the course of undertaking them.

Institute News

AMTDI, Regional Devt. Ministry to Empower Youths with Skills

By Olajuwon Akeem Adeleke, Jalingo

agricultural development, economic diversification, skills acquisition and employment initiatives are key focuses of the Ministry.

He said the Ministry aims to reduce the number of idle youths in the northern states under his supervision. He expressed gladness that this desire aligns with the strengt of AMTDI and NASENI as a whole.

The Minister further acknowledged AMTDI's activities and assured the delegation of his commitment to maximizing the benefits of this collaborative effort to reduce unemployment rates in our communities, drive economic growth and diversification and stem the tide of insecurity.

He, therefore, expressed optimism for a lasting collaboration, noting that it is essential for the effective implementation of the Ministry's policies and initiatives.



The management of the Advanced Manufacturing Technology Development Institute (AMTDI), Jalingo, a division of NASENI has visited the Hon. Minister of State for Regional Development, Uba Maigari Ahmadu, at his Abuja office to seek collaboration with the aim of empowering unemployed youths with skills for gainful employment.

The delegation was led by the

Overseeing Officer, AMTDI, Mr. Abdulrahman Barkindo, who briefed the Minister on the purpose of the visit and highlighted the importance and benefits that collaboration between the two entities would bring to the Nigerian people.

In his welcome remarks, the Minister outlined the responsibilities of the Ministry and the commissions responsible for implementing its policies, emphasizing that



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We recognized that DELTA 2 had the potential to be a catalyst for Nigeria's innovation ecosystem and I am proud to say that decision is already yielding results.

EVC/CEO NASENI, Mr. Khalil Suleiman Halilu's remarks at the DELTA 2 Call for Proposals Launch in Abuja.

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What makes DELTA 2 unique is its focus on outcomes. This is not research for the sake of research. It is research with purpose.

EVC/CEO NASENI, Mr. Khalil Suleiman Halilu's remarks at the DELTA 2 Call for Proposals Launch in Abuja.

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Photo News



The visit of the EVC/CEO to the chairperson of Nigerians in Diaspora Commission (NiDCOM), Hon. Abike Dabiri -Erewa to discuss on possible areas of collaboration.



The EVC /CEO of NASENI, Mr. Khalil Suleiman Halilu during the launch of NASENI's Innovate Naija project at the Gulf Technology Exhibition (GITEX) 2025, held in Lagos.



The EVC /CEO at the NASENI-PICTT launch of 2nd call for proposal of DELTA-2 2 programme, held at Agency's headquarters.



Members of staff during their hands-on training on Multi-purpose Mini-tractors at the Agency.



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