



United Nations Industrial Development Organization
Climate Technology Centre & Network
Federal Ministry of Environment - Department of Climate Change
Federal Ministry of Science and Technology – Department of Environmental Sciences
and Technology

Technology Needs Assessment and associated action plan for climate change mitigation and adaptation in Nigeria's most vulnerable economic sectors

Stakeholders' Consultation Report

Version 5.0

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Deloitte Tohmatsu Financial Advisory LLC

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List of Abbreviations

AE-FUNAI	Center for Climate Change, Alex Ekwueme, Federal University Ndufu-Alike Ikwo
AFDB	African Development Bank
CTCN	Climate Technology Centre & Network
FMARD	Federal Ministry of Agriculture and Rural Development
FMEEnv-DCC	Federal Ministry of Environment - Department of Climate Change
FMITI	Federal Ministry of Industry, Trade and Investment
FMP	Federal Ministry of Power
FMST	Federal Ministry of Science and Technology
FMST-DEST	Federal Ministry of Science and Technology – Department of Environmental Sciences and Technology
FMWASD	Federal Ministry of Women Affairs and Social Development
GCF	Green Climate Fund
MAN	Manufacturers Association of Nigeria
MDA	Ministries, Departments and Agencies
MPR	Ministry of Petroleum Resources
NACCIMA	Nigerian Association of Chambers of Commerce, Industry, Mines and Agriculture
NCIC	Nigeria Climate Innovation Centre
NC-TIP	Nigerian Clean-Tech Innovation Programme
NDA	National Designated Authorities
NDCs	Nationally Determined Contributions
NDE	National Designated Entity
NGO	Non-governmental Organization
NISRAL	Nigeria Incentive-Based Risk Sharing System for Agricultural Lending
NW2WP	National Waste-to-Wealth Programme using Appropriate Technologies
TNA	Technology Needs Assessment
UNFCCC	United Nations Framework Convention on Climate Change
UNIDO	United Nations Industrial Development Organization
WEP	Women Environmental Programme

1. Introduction

The objective of the Technology Needs Assessment (TNA) is to develop a comprehensive assessment of technology needs for Nigeria for the effective implementation of the country's climate change mitigation and adaptation actions. Before conducting the TNA, the TNA Project Committee needs to be established representing key stakeholders from key sectors of focus. Stakeholder consultations were conducted as part of the stakeholder mapping process to identify key stakeholders relevant for the TNA process.

This report presents the stakeholder consultations conducted as part of the TNA process. Section 2 provides information on how key stakeholders were engaged for the consultations. Section 3 details the outcomes and lessons learned from the stakeholder consultations. Section 4 discusses the screening and evaluation of the stakeholders. Section 5 provides analysis of interests and competencies of the stakeholders. This report supplements the Stakeholders' Mapping Report which maps relevant stakeholders to be involved in the TNA process.

2. Procedure to invite stakeholders

Certain procedures were employed for the invitation of the stakeholders for the consultation.

2.1. Invitation procedure

The Federal Ministry of Environment - Department of Climate Change (FMEnv-DCC) provided the contact information (email and phone contacts) of the identified stakeholders to the Deloitte consulting team. Meeting invites were sent to the stakeholders via emails with prior notice of 1 week (7 days) to scheduled meeting dates. These invitation included a brief introduction to the project, meeting date and time, virtual meeting link and statement of purpose about engaging the stakeholders in a preliminary consultation workshop on the TNA assignment. Emails were followed up with phone calls to each stakeholder to confirm availability. Stakeholders confirmed availability by accepting meeting invites while meetings were rescheduled for stakeholders who indicated non-availability.

2.2. Place and date of meetings

The preliminary stakeholder consultation workshops were held virtually through a digital meeting platform i.e. Microsoft Teams from 19 November, 2020 to 27 November, 2020. The workshops involved bilateral meetings (one-to-one) with each stakeholder representing their organisations.

2.3. Meeting participation

The preliminary stakeholder consultation workshop was attended by three (3) stakeholders from Federal Ministries, two (2) from Organised Private Sector, one (1) Civil Society, one (1) gender equality organization, one (1) from the financial sector, and one (1) Academia. Table 1 below shows the list of meeting participants that accepted invitations and attended the preliminary stakeholder consultation workshop.

Table 1 - List of Meeting Representatives

MDA/Organisations	Date (2020)	Names of Representatives
Federal Ministry of Industry, Trade & Investment	19 November	<ul style="list-style-type: none">Mr. Barbanas JatauMr. John Opaluwa
Federal Ministry of Environment – Department of Climate Change	20 November	<ul style="list-style-type: none">Ms. Halima Bawa-BwariMr. Chukwuemeka Okebugwu
Federal Ministry of Science and Technology – Environmental Sciences and Technology, Renewable and Conventional Energy and Technology Acquisition and Adaptation Departments	20 November	<ul style="list-style-type: none">Dr Peter C. Ekweozoh, <i>mni</i>Ms.Nnenna NwankwoMr. Ezenwa IfeobuMr. Franklin ChukwuDr. Imoh Obioh
Nigeria Climate Innovation Center (NCIC)	27 November	<ul style="list-style-type: none">Mr. Bankole Olorunfoba
Manufacturer’s Association of Nigeria (MAN) from Agriculture, Industry and Energy subsectors	23 November	<ul style="list-style-type: none">Mr. Adeyemi Folorunsho

Nigerian Association of Chambers of Commerce, Industry, Mines and Agriculture (NACCIMA)	23 November	▪ Mr. Usman Abbas
Women Environmental Programme (WEP)	24 November	▪ Ms. Anne-Marie Abaagu ▪ Mr. John Baaki
African Development Bank (AFDB)	27 November	▪ Mr. Innocent Onah
Center for Climate Change, Alex Ekwueme, Federal University Ndufu-Alike Ikwo (AE-FUNAI)	24 November	▪ Prof Chukwumerije Okereke

From the list of stakeholders contacted, the following stakeholders were not consulted as the consulting team were not able to secure meetings due to conflicts in schedule and unavailability.

- Federal Ministry of Agriculture and Rural Development (FMARD),
- Federal Ministry of Power (FMP); and
- Federal Ministry of Women Affairs and Social Development (FMWASD).

2.4. Language

All documentation and meetings were held in English language, the official language of Nigeria.

2.5. Meeting Agenda

The agenda of the stakeholder consultation meeting is outlined below:

- Introduction of the Deloitte Consulting Team;
- Objectives of the preliminary stakeholder consultation;
- Project overview and objectives;
- The role of the TNA Project Steering Committee;
- Points for confirmation; and
- Any other discussion points.
- Interview questions

3. Consultation of the Stakeholders

The consultation commenced with an introduction of the project team and objectives of the preliminary stakeholder consultation. The roles and responsibilities of the TNA Project Steering Committee were expounded to the stakeholders and all stakeholders expressed positive interest in the TNA process and affirmed their participation as members of the TNA Project Steering Committee. The stakeholders also gave a background into their organization's strategic objectives. The minutes of meetings for the preliminary stakeholder consultation is provided in the Appendix.

Most stakeholders demonstrated a sound understanding of the subject matter (i.e., climate change mitigation and adaptation and technology action plan), due to active involvement in climate change-related project activities and also have been engaged with other MDAs with respect to climate change. However, during targeted stakeholder questions, it was observed that some of the actors appeared nascent to the TNA process and had not attended the TNA Inception Workshop or subsequent workshops.

3.1. Outcome and Lessons learned from the Preliminary Stakeholders' Consultation

The preliminary stakeholder consultation brought about some learning points and key areas where decisions and communication require improvement. Twelve (12) stakeholders were shortlisted for the preliminary stakeholder consultation with nine (9) out of the 12 stakeholders engaged, representing 75% engagement rate for the consultation. Sixteen (16) representatives from the stakeholder organisations were interviewed with major representatives from senior leadership.

The outcomes and lessons learned premise on the following:

- Stakeholders' participatory confirmation in the TNA Project Steering Committee;
- Level of technical and facilitation support;
- Current engagement on climate change activities;
- Understanding of the TNA process and prior participation in previous TNA Project committee workshops and meetings.

Stakeholders' Participatory Confirmation in the TNA Project Steering Committee

During the preliminary stakeholder consultation, all stakeholders affirmed their participation. However, in certain instances, the stakeholder expressed concern on the number of required hours to be dedicated to TNA Project Steering Committee participation. Concerned stakeholders proposed a limited two (2) hours every month, considering other full-time engagements.

Other notes/comments (specifically from Academia) include tentative participation; largely due to concerns around lack of formal proceedings, with suggestions to distribute Terms of Reference (ToRs) prior to meetings.

Level of Technical and Facilitation Support

Majority of the stakeholders demonstrated technical capabilities in providing inputs and insights for the TNA process. This was evident in the knowledge shown in the study area. In the session with the NCIC, there was knowledge depth in delivering on various innovative projects. In light of this, the stakeholder stressed adopting a hackathon climate change innovations to influence entrepreneurship and boost investments within key domains and sectors. For one of the stakeholders, a key responsibility is to focus on climate innovations for agriculture startups such as the implementation of the Irrigation as a Service innovation powered by solar which is sponsored by Nigeria Incentive-Based Risk Sharing System for Agricultural Lending (NIRSAL).

In facilitating support for the TNA process, at the forefront is the Federal Ministry of Environment – Department of Climate Change (FMEnv-DCC). During the engagement with the representative(s) of the FMEnv- DCC, the responsibility to coordinate TNA activities and serve as a focal point of the UNFCCC and CTCN was reiterated. The FMEnv-DCC further provided context on the involvement of the department in setting the development of climate change priorities as a national policy. Similarly, the Federal Ministry of Science and Technology - Department of Environmental Sciences and Technology expressed the ability to coordinate the deployment of appropriate technologies as will be assessed in the TNA process as components of the Technology Action Plan for sector-specific deployment.

Current Engagement on Climate Change Activities

Majority of stakeholders provided information on their various activities and engagements tied to climate change mitigation and adaptation. Some of these key activities and engagements include the following:

- Global Climate Launchpad competition since 2018 where climate change innovations are tracked yearly - Nigeria Climate Innovation Centre (NCIC)
- Development of a gender action plan with respect to climate change – Federal Ministry of Environment, Department of Climate Change and Women Environmental Programme (WEP)
- Implementation of ISO 50001 in collaboration with Standard Organisation of Nigeria (SON) assisted by GIZ - Federal Ministry of Industry, Trade and Investment
- In-charge of the National Waste to Wealth (NW2W) Program Using Appropriate Technologies, partnering with various management agencies on how they train waste handlers to adopt global

best practices - Federal Ministry of Science and Technology – Environmental Sciences and Technology, Renewable and Conventional Energy and Technology Acquisition and Assessment Departments

- Nigeria Clean Tech Innovation Program (NC-TIP) with UNIDO embarking on projects that focus on production activities of Micro, Medium and Small Scale Enterprises in the manufacturing and service sectors ensuring processes and procedures do not pollute the environment - Federal Ministry of Science and Technology – Environmental Sciences and Technology Department, and UNIDO.
- Implementation of natural gas beneficiation programme through implementing the National Policy on Methanol Fuel Production Technology to ensure stoppage of gas flaring and use of kerosene as household cooking gas – Federal Ministry of Science and Technology – Department of Environmental Sciences and Technology in collaboration with NNPC and Federal Ministries of Petroleum Resources and Industry, Trade and Investment
- Implementation of an agricultural project focused on some communities in Benue and Abuja. Farmers are taught how to make organic fertilisers and pesticides using organic products such as Dogo Yaro, black pepper, and onions - Women Environmental Programme (WEP)
- Delivery on a pet-project in Benue using an improvised solar system for the fresh preservation of farm produce - Women Environmental Programme (WEP)
- Participation in the Kyoto Protocol on climate change - Manufacturers Association of Nigeria (MAN)
- Member of the National Gas Expansion committee, with a mission to provide cooking gas as a way to curb the use of wood for cooking - Nigerian Association of Chambers of Commerce, Industry, Mines and Agriculture (NACCIMA)

Understanding of the Technology Needs Assessment Process

Most of the stakeholders clearly expressed being nascent to the TNA process. In some cases, the stakeholders claimed to have heard during interactions and engagements with the Federal Ministry of Environment and Federal Ministry of Science and Technology but have not participated in the TNA process. However, few stakeholders knowledgeable of the TNA process are government official based on full engagement as facilitators in the TNA Project Steering Committee. Stakeholders, not fully informed about the TNA process, required more information on it and encouraged to be integrated into the process.

Prior Participation in Previous TNA Workshops and Meetings

77% of the stakeholders interviewed did not participate in previous TNA workshops and meetings. The only stakeholders to have participated previously were Federal Ministry of Environment – Department

of Climate Change (UNFCCC Focal Point) and Federal Ministry of Science and Technology – Environmental Sciences and Technology Department (Driver of TNA Project in Nigeria).

Area(s) of Improvement and key considerations

The preliminary stakeholder consultation succeeded but there are key areas identified that require attention from participants of the TNA project.

- Effective communication between government and other key stakeholders
- Improved quality of data and information
- Access to funding for implementation of the TNA action plan
- Improved market penetration of green products
- Policy consistency

4. Stakeholder Screening and Evaluation

The screening and evaluation of stakeholders involved examining the level of inputs each actor contributes to the TNA process. The stakeholders were identified and shortlisted through earlier consultation among the Deloitte consulting team, Federal Ministry of Environment – Department of Climate Change which is Nigeria’s National Designated Authority (NDA) to the GCF and National Designated Entity (NDE) to the CTCN, and Federal Ministry of Science and Technology – Department of Environmental Sciences and Technology. The stakeholders were screened and evaluated based on the results of the consultations.

Appendix 1 – Meeting Memos

Meeting memo of preliminary stakeholder consultation with the Federal Ministry of Environment – Department of Climate Change

Date	20 November 2020, 10:04 am – 10:42 am Lagos time
Location	Microsoft Teams
Participants	<u>Federal Ministry of Environment – Climate Change</u> <u>Department:</u> <ul style="list-style-type: none">▪ Ms Halima Bawa-Bwari▪ Mr Chukwuemeka Okebugwu <u>Deloitte:</u> <ul style="list-style-type: none">▪ Richard Hughes▪ Megumi Sato▪ Victor Famubode▪ Olumadebo Ademisoje

Discussion points

Role and responsibilities of the organization/entity

- Coordination of all activities concerning the TNA project.
- The focal point of the UNFCCC and CTCN.
- Ministerial activities relating to the climate change process.

Involvement in engagement and activities related to climate change

- National policy has been reviewed and validated.
- Involved in the development of a gender action plan with respect to climate change.

Confirmation of participation in TNA Project Steering Committee

- Chukwuemeka confirmed their participation in the TNA Project Steering Committee and also aligned with the activities outlined of the roles of the TNA Project Steering Committee.

Any other item discussed (if any)

- Chukwuemeka recommended that there is a need for a physical meeting to bring all the stakeholders together.

Did you attend the TNA Inception Workshop and have you been actively involved with subsequent workshops?

- Yes, they attended the TNA Inception Workshop and have been involved in subsequent awareness workshops and seminars for a comprehensive TNA in Nigeria

Apart from the TNA Project Committee stakeholders, what other MDAs/ Private organisations have you been engaging?

- Scoping activities with Matthew, a representative from Climate Technology Centre & Network

Climate Technology Centre and Network (CTCN) and the Federal Ministry of Science and Technology towards the preparation of the TNA proposal/project.

- Data gathering process from other stakeholders like NNPC, ECN and access to information from other stakeholders as required

What are the perceived challenges and gaps with the current process?

- Sourcing of data;
- Data provided from stakeholders may not be in the required format;
- A dire need for inclusive and consultative approach in the whole process;
- Real-time discussions;
- Sustainability of virtual meetings; and
- Provision of broadband (internet data).

Meeting memo of preliminary stakeholder consultation with the Federal Ministry of Industry, Trade & Investment

Date	19 November 2020, 03:09 pm – 3:44 pm Lagos time
Location	Microsoft Teams
Participants	<u>Federal Ministry of Industry, Trade & Investment (FMITI):</u> <ul style="list-style-type: none">▪ Barnabas Jatau (Deputy Director)▪ John Opaluwa (Deputy Director) <u>Deloitte:</u> <ul style="list-style-type: none">▪ Richard Hughes▪ Megumi Sato▪ Victor Famubode▪ Olumadebo Ademisoye

Discussion points

Role and responsibilities of the organization/entity

- Promoting trade and investment with special emphasis on increased production and export of non-oil and gas products.

Involvement in engagement and activities related to climate change

- ISO 50001 implementation is in collaboration with SON assisted by GIZ. They are looking forward to mitigating emissions from industries and on managing energy consumptions. Barnabas further stated that GIZ has trained energy auditors in collaboration with MAN

Confirmation of participation in TNA Project Steering Committee

- They affirmed their participation in the TNA Project Steering Committee.

Any other item discussed (if any)

- They highlighted that they will help with Policy guidelines that relate to industries. Barnabas further stated that they relate to MAN and NACCIMA, and they would be a bridge to industries and associations for the project team to have access to data from the industries and other relevant parastatals. Richard commended their commitment as it would help to reduce bureaucracy and red tapes in dealing with some industries and associations.

Did you attend the TNA Inception Workshop and have you been actively involved with subsequent workshops?

- They are new to the TNA Project Steering Committee. Barnabas stated that he reviewed the report sent to him earlier and he observed that the person who represented the Federal Ministry

of Industry, Trade & Investment at the inception workshop was an admin officer. He further stated that no staff from the Industrial Development department was represented at the inception workshop and they are not familiar with the TNA Project Steering Committee. John seconded Barnabas' assertion that the Admin Officer is no longer in the Ministry and the Industrial Development department did not attend the inception workshop. Subsequently, it was resolved in the Ministry that the Industrial Development was to spearhead all matters relating to climate change.

Apart from the TNA Project Committee stakeholders, what other MDAs/ Private organisations have you been engaging?

- Currently, they are engaged with the Nigerian Energy Support Programme, a unit under GIZ. They are working on energy efficiency and also looking at technological issues to reduce the cost of operations and energy consumption in the industrial sector. A key scope of their mission is the implementation of ISO 50001 (Energy Management System) and other technological components to reduce emissions in the industrial sector. They are working with the Standard Organisation of Nigeria (SON) which is under the Ministry, on the implementation of ISO 50001. He further highlighted a previous project with the Federal Ministry of Environment where they assessed emissions from industrial generators used to manage industrial processes and these industries do not rely on the national grid as they use AGO (diesel). They assessed retrofitting industrial generators through the use of gas instead of diesel as combustion of gas is 70-80% complete as against AGO which is lower. The major drawback was they could not do the costing as they lacked financial background capacity and training as they came up with arbitrary figures which may have scared their principals from the implementation of the project.

What are the perceived challenges and gaps with the current process?

- They stated that since they are new to the TNA Project Steering Committee, and this is also their first interaction, as the project progresses they would be able to discover potential gaps and barriers.

Meeting memo of preliminary stakeholder consultation with the Federal Ministry of Science and Technology – Environmental Sciences and Technology, Renewable and Conventional Energy and Technology Acquisition and Adaptation Departments

Date	20 November 2020, 3:00 pm – 3:35 pm Lagos time
Location	Microsoft Teams
Participants	<p><u>Federal Ministry of Science and Technology – Environmental Sciences and Technology, Renewable and Conventional Energy and Technology Acquisition and Adaptation Departments:</u></p> <ul style="list-style-type: none"> ▪ Dr Peter Ekweozoh, <i>mni</i> ▪ Nnenna Nwankwo ▪ Ezenwa C. Ifeobu ▪ Franklin Chukwu ▪ Imoh Obioh <p><u>Deloitte:</u></p> <ul style="list-style-type: none"> ▪ Megumi Sato ▪ Victor Famubode ▪ Olumadebo Ademisoye

Discussion points

Role and responsibilities of the organization/entity

- Undertakes and coordinates conduct of TNA project for climate change mitigation and adaptation in collaboration with FMENV – DCC in all vulnerable economic sectors including policy formulation and guidance on all science, technology and innovation (STI) matters in Nigeria
- Implements development and deployment of technology transfer project pilots for selected technologies identified in the national technology action plan
- Implements the Nigerian Clean Tech Innovation Program (NC-TIP) in collaboration with UNIDO; the project focuses on clean energy technologies used by Micro, Medium and Small Scale Enterprises in the production and service activities. This is done in collaboration with the Federal Ministry of Environment – Department of Pollution Control and Environmental Health, the Nigeria Climate Innovation Center and UNIDO under the Global Cleantech Program.
- In-charge of the National Waste to Wealth (NW2WP) Program Using Appropriate Technologies, partnering with various waste management agencies on how they train waste handlers to adopt global best practices.
- Serves as Member of the advisory board of the E-waste Producer Responsibility Organisation of Nigeria (EPRON)
- Carried out awareness workshops and seminars after the United Nations Framework Convention on Climate Change (UNFCCC) meeting held in August 2008 in Accra, Ghana for a comprehensive TNA in Nigeria.
- Established the FMST Climate Change Desk in June 2009 as a one – stop shop for harnessing appropriate technologies to tackle impacts of climate change in Nigeria; Desk comprises all CC

Desk officers in FMST Headquarters and her seventeen R & D Agencies.

- Coordination of the Climate Change activities of R&D agencies under FMST, for instance, the National Biotechnology Agency produced a biogas digester that is capable of converting waste into household cooking gas and the Agency has patented the technology.
- Member, National Steering Committee of Nigeria's Industrial Energy Efficiency (IEE) and Resource Efficiency and Cleaner Production (RECP) Project being implemented by UNIDO/FMENV.

Involvement in engagement and activities related to climate change

- Serves as Nigeria's Lead Negotiator for Technology Development and Transfer in UNFCCC negotiations under the Nigerian Delegation to the UNFCCC
- Technology needs assessment for climate change mitigation and adaptation in Nigeria's most vulnerable economic sectors starting with agriculture, energy and Industry.
- Climate change impact in the waste sector. Dr Peter highlighted he is the national coordinator of National Waste to Wealth Program (NW2WP) using Appropriate Technologies with a mission to come up with appropriate technologies to tackle waste dumping.
- Participation and involvement in all climate change projects and programs supervised by the Federal Ministry of Environment.
- An active member of the InterMinisterial Committee on climate change.
- Established in 2009 the FMST Climate Change Desk which serves as a one-stop shop for providing technology solutions for climate change problems in the area of coming up with appropriate technology action plans. Supervision of 17 R&D agencies, and over 46 research centres, with some of their programs and projects principally focusing on climate change.
- FMST Climate Change Desk hosts workshops for Climate Change Desk Officers in all Agencies under FMST.

Confirmation of participation in TNA Project Steering Committee

- Dr. Peter confirmed his participation in the TNA Project Steering Committee and also as Nigeria's national TNA project coordinator.

Any other item discussed (if any)

- Dr Peter recommended that after the conclusion of the preliminary stakeholder consultation sessions, there is a need for a physical meeting and to access the committees and discuss the project documents.

Did you attend the TNA Inception Workshop and have you been actively involved with subsequent workshops?

- Yes, they organized and hosted the TNA Inception Workshop, in collaboration with the FMEnv - DCC and have been involved in subsequent campaigns, awareness workshops and seminars for a comprehensive TNA in Nigeria.

Apart from the TNA Project Committee stakeholders, what other MDAs/ Private organisations have you been engaging?

- The Ministry is charged with the mandate to undertake and oversee all research in science, technology and innovation in collaboration with all MDAs.
- There is an Inter-Ministerial Committee on the National Waste to Wealth Program Using Appropriate Technologies comprising all relevant MDAs.
- Working closely with the Ministry of Petroleum Resources (MPR) on the natural gas beneficiation program (via the implementation of the National Policy on Methanol Fuel Production Technology).
- Collaborating with UNIDO to implement the Nigerian Clean-Tech Innovation Programme (NC-TIP)
- Working with an Indian Organisation, the Observer Research Foundation (ORF) to implement a programme called *Nigerian Sustainability Science Dialogue Towards Attaining Green Economy by 2030*
- Working closely with the Federal Ministry of Environment which is the UNFCCC focal point
- Worked in collaboration with the University of Reading, UK on Capacity Gaps Assessment for Green Economy transition in Nigeria.

What are the perceived challenges and gaps with the current process?

- Coordination of various MDAs;
- Synergy; making sure everyone is carried along;
- Adequate funding;
- Harnessing the right pool of skills, training and re-training; and
- Developing appropriate communication tools with the right technology incentives for private sector adoption of the technologies identified in technology action plan.

Meeting memo of preliminary stakeholder consultation with the Manufacturer's Association of Nigeria (MAN) from Agriculture, Industry and Energy subsectors

Date	23 November 2020, 10:10 am – 10:49 am Lagos time
Location	Microsoft Teams
Participants	<p><u>Manufacturer's Association of Nigeria (MAN) from Agriculture, Industry and Energy subsectors:</u></p> <ul style="list-style-type: none">▪ Adeyemi Folorunsho (Assistant Director, Sectoral Matters Department) <p><u>Deloitte:</u></p> <ul style="list-style-type: none">▪ Raymond Caguioa▪ Victor Famubode▪ Olumadebo Ademisoye

Discussion points

Role and responsibilities of the organization/entity

- Provide an interface between MAN members and agency responsible for environmental monitoring and evaluation (NESREA).
- Guidance on environmental regulations and policies to members.
- Engage with members on the safe disposal of batteries and effluent, liquid and solid wastes being generated in the industries.
- Organize with agencies on seminars and training.
- Engage with an e-waste organization.
- Collaborate with environmental agencies on the inspection of factories to ensure conformity to the environment.

Involvement in engagement and activities related to climate change

- Collaborate with Federal Ministry of Environment and UNIDO on a clean environment development system.
- Participate in the Kyoto Protocol on climate change.
- Currently, MAN has an engagement with the National Environmental Standards and Regulations Enforcement Agency (NESREA) which is under the Federal Ministry of Environment. MAN is collaborating with the Federal Ministry of Environment on a QA project aimed at identifying the efficiency of technologies in industries and the impact on the environment.
- There is an inspection engagement with NESREA every quarter of the year aimed at certifying the safety, cleanliness and activities of the industrial processes in the environment of MAN's members.

Confirmation of participation in TNA Project Steering Committee

- Adeyemi affirmed his participation in the TNA Project Steering Committee.
- Deloitte asked to confirm who would be the contact person for MAN in the TNA Project Steering Committee, Adeyemi responded that it depends on the Director but in the meantime he was directed to take over because he oversees the regulatory agencies and the branches under his purview.

Any other item discussed (if any)

- Adeyemi stressed that industry in MAN is wide and quite ambiguous as manufacturing is their principal focus and there are 10 different manufacturing sectors such as food and beverages, footwear and leathers, textile and garments, mining, pharmaceuticals and they are further subdivided into of 74 subsectors.

Did you attend the TNA Inception Workshop and have you been actively involved with subsequent workshops?

- The stakeholder has not been involved in the TNA inception workshop and subsequent workshops.

Apart from the TNA Project Committee stakeholders, what other MDAs/ Private organisations have you been engaging?

- Engagement with SON, NAFDAC, Federal Ministry of Environment, NESREA, UNIDO, NGOs, and currently a member of the Steering Committee on plastics usage in Nigeria.
- State environmental protection committees.
- Presence of 16 branches across the Federation, where environmental committees in the branches interface with government and international organizations.

What are the perceived challenges and gaps with the current process?

- They are new to the TNA Project Steering Committee

Meeting memo of preliminary stakeholder consultation with the Nigerian Association of Chambers of Commerce, Industry, Mines and Agriculture (NACCIMA)

Date	23 November 2020, 12:02 pm – 12:20 pm Lagos time
Location	Microsoft Teams
Participants	<u>Nigerian Association of Chambers of Commerce, Industry, Mines and Agriculture (NACCIMA):</u> <ul style="list-style-type: none">▪ Usman Abbas <u>Deloitte:</u> <ul style="list-style-type: none">▪ Raymond Caguioa▪ Richard Hughes▪ Victor Famubode▪ Olumadebo Ademisoye

Discussion points

Role and responsibilities of the organization/entity

- Umbrella body for all state, city bilateral and multilateral chambers;
- Information dissemination;
- Trade facilitation; and
- Voice of Nigerian business.

Involvement in engagement and activities related to climate change

- Currently part of the committee organized by the Federal Ministry of Environment, in reducing emissions from deforestation and forest degradation and the first workshop was held recently.
- Currently on the National Gas Expansion committee, with a mission to provide cooking gas as a way to curb the use of wood for cooking.

Confirmation of participation in TNA Project Steering Committee

- Usman affirmed his participation in the TNA Project Steering Committee.

Any other item discussed (if any)

- Deloitte clarified that the project would identify the specific TNA and development of the action plan. He also inquired about NACCIMA's collaboration with organized private sectors.
- Usman responded that there are 3 trade groups in NACCIMA namely; agriculture, oil and gas and MSME trade, he stated that, he can collate information for all the trade groups and also highlighted NACCIMA holds the presidency for the organized private sector.
- Usman responded to Richard's enquiry that he serve as the contact person in the TNA Project Steering Committee.

Did you attend the TNA Inception Workshop and have you been actively involved with subsequent workshops?

- Sali and not Usman represented NACCIMA in the TNA Inception Workshop.

Apart from the TNA Project Committee stakeholders, what other MDAs/ Private organisations have you been engaging?

- Engagement with NGOs and other organizations.

What are the perceived challenges and gaps with the current process?

- Provision of adequate funding for cheaper solutions for mitigating climate change actions for the distribution of gas technology on cooking.

Meeting memo of preliminary stakeholder consultation with Nigeria Climate Innovation Center (NCIC)

Date	27 November 2020, 1:08 pm – 1:48 pm Lagos time
Location	Microsoft Teams
Participants	<u>Nigeria Climate Innovation Center (NCIC):</u> <ul style="list-style-type: none">▪ Bankole Oloruntoba <u>Deloitte:</u> <ul style="list-style-type: none">▪ Raymond Caguioa▪ Richard Hughes▪ Sato Megumi▪ Victor Famubode▪ Olumadebo Ademisoje

Discussion points

Role and responsibilities of the organization/entity

- Multi-partners with the World Bank in collaboration with the Office of the Vice President with a focus to build sustainable climate change models, by either incubating or accelerating them;
- Setup of the circular economy innovation partnership;
- Venture development program from ideation to prototype;
- Partnership with All On to build early-stage startups;
- Sourcing for markets for the businesses that have gone through their program;
- Funding of agricultural startup - irrigation as a service innovation powered by solar by the Nigeria Incentive-Based Risk Sharing System for Agricultural Lending (NIRSAL).
- Waste management;
- Hackathons;
- Renewable energy – biofuels and solar in partnership with All On and REA;
- Early-stage business ideas;
- Water - managing flood risk; and
- The sustainable building of green innovations.

Involvement in engagement and activities related to climate change

- Involved in the Global Climate Launchpad competition since 2018 where climate change innovations are sourced for yearly.
- Climate-Smart Agriculture.

Confirmation of participation in TNA Project Steering Committee

- Bankole affirmed his participation in the TNA Project Steering Committee.

Any other item discussed (if any)

- Adamu Garba would be co-joining Bankole in the TNA Project Steering Committee.

Did you attend the TNA Inception Workshop and have you been actively involved with subsequent workshops?

- He is new to the TNA process.

Apart from the TNA Project Committee stakeholders, what other MDAs/ Private organisations have you been engaging?

- Engagement with Federal Ministry of Environment, UNDP, Federal Ministry of Science and Technology, the office of the Vice President.

What are the perceived challenges and gaps with the current process?

- Access to technology to build prototypes; lack of resources to build prototypes;
- Access to data (accurate and concise data);
- Innovations are more pain-driven than research-driven due to lack of local data resource pool;
- Inconsistent government policies;
- Lack of acceptance of green products in the market;
- Misalignment of government initiatives with respect to the private sector; and
- Lack of prioritisation of government's climate change agencies with respect to funding.

Meeting memo of preliminary stakeholder consultation with the Women Environmental Programme (WEP)

Date	24 November 2020, 10:13 am – 10:54 am Lagos time
Location	Microsoft Teams
Participants	<u>Women Environmental Programme (WEP):</u> <ul style="list-style-type: none">▪ Anne-Marie Abaagu▪ John Baaki <u>Deloitte:</u> <ul style="list-style-type: none">▪ Raymond Caguioa▪ Victor Famubode▪ Olumadebo Ademisoje

Discussion points

Role and responsibilities of the organization/entity

- There are 4 key focus areas namely; Environment, Governance, Peace and Security and Climate Change.
- Environment – Natural resource management and biodiversity, chemical and waste management and water, sanitation and hygiene
- Governance – Budget tracking and analysis, policy and legislative advocacy, women and youth empowerment.
- Peace and Security – Conflict transformation and psychic-socio support.
- Climate change – renewable energy, climate change mitigation and adaptation.

Involvement in engagement and activities related to climate change

- Worked with the Federal Ministry of Environment to help pass the gender action plan on climate change. Currently, there are plans to hold a stakeholder meeting and a press conference against adopting the action plan across the states.
- An agricultural project with some communities in Benue and Abuja, where farmers were taught on how to make organic fertilisers and pesticides using organic products such as Dogo Yaro, black pepper, and onions.
- Worked on a PET project in Benue using an improvised solar system for the fresh preservation of farm produce.

Confirmation of participation in TNA Project Steering Committee

- Anne-Marie affirmed their participation in the TNA Project Steering Committee.

Any other item discussed (if any)

- They confirmed that they would be the contact-persons for WEP in the TNA Project Steering Committee.

- Raymond inquired if the representation of both the Federal Ministry of Women Affairs and WEP in the TNA Project Steering Committee would overlap or be complementary. John responded that it would be complementary because the Federal Ministry of Women Affairs would serve as a public perspective while WEP would serve as a civil society perspective.

Did you attend the TNA Inception Workshop and have you been actively involved with subsequent workshops?

- They were not involved in the TNA Inception Workshop and subsequent workshops.

Apart from the TNA Project Committee stakeholders, what other MDAs/ Private organisations have you been engaging?

- Engagement with other national organizations.

What are the perceived challenges and gaps with the current process?

- Local technologies are not advanced as there is still a need to import materials.
Perception of people and low level of awareness.

Meeting memo of preliminary stakeholder consultation with the African Development Bank (AFDB)

Date	27 November 2020, 3:00 pm – 3:40 pm Lagos time
Location	Microsoft Teams
Participants	<u>African Development Bank (AFDB):</u> <ul style="list-style-type: none">▪ Innocent Onah (Climate Change and Green Growth) <u>Deloitte:</u> <ul style="list-style-type: none">▪ Raymond Caguioa▪ Richard Hughes▪ Sato Megumi▪ Victor Famubode▪ Olumadebo Ademisoye

Discussion points

Role and responsibilities of the organization/entity

- Lending and non-lending operations in the climate change and green growth for public and private sectors;
- Mainstreaming climate risks;
- Bank strategy/Policy/Business development;
- Climate financing;
- Co-financing;
- Training and assisting in the development of framework; and
- Nigeria Circular Economy Program – policy-based operation and policy advisory to Nigeria.

Involvement in engagement and activities related to climate change

- Financing of portable drinking water to communities in Ondo State ensuring climate change mitigation in the process.
- Harnessing and promoting green growth opportunities.
- Steam-water project recommending the use of gravitational force
- Low carbon technology

Confirmation of participation in TNA Project Steering Committee

- Innocent affirmed his participation in the TNA Project Steering Committee on the condition that the man-hours would not exceed 2 hours per month.

Any other item discussed (if any)

- Raymond inquired if the representation of AFDB as a finance organization would cover for both the public and private sector. Innocent responded in the affirmative that AFDB carries out businesses both in the private and public sector, however, he stated that if his man-hours would be affected it would be advisable to have a finance organization from the private for ease and time.

Meeting memo of preliminary stakeholder consultation with the Center for Climate Change, Alex Ekwueme, Federal University Ndufu-Alike Ikwo (AE-FUNAI)

Date	24 November 2020, 03:00 pm – 03:21 pm Lagos time
Location	Microsoft Teams
Participants	<u>Center for Climate Change, Alex Ekwueme, Federal University Ndufu-Alike Ikwo (AE-FUNAI):</u> <ul style="list-style-type: none">▪ Prof Chukwumerije Okereke <u>Deloitte:</u> <ul style="list-style-type: none">▪ Raymond Caguioa▪ Megumi Sato▪ Victor Famubode▪ Olumadebo Ademisoye

Discussion points

Role and responsibilities of the organization/entity

- N/A

Involvement in engagement and activities related to climate change

- Capacity building exercise with the Federal Ministry of Science and Technology
- Climate Change Governance
- Governing Inclusive Green Economy in Africa

Confirmation of participation in TNA Project Steering Committee

- Prof Chukwumerije affirmed his participation in the TNA Project Steering Committee but requested for a documentation to the effect.

Any other item discussed (if any)

- Prof. Chukwumerije recommended sending a ToR documentation to all stakeholders.

Did you attend the TNA Inception Workshop and have you been actively involved with subsequent workshops?

- Prof. Chukwumerije heard about the TNA Inception Workshop but was not involved

Apart from the TNA Project Committee stakeholders, what other MDAs/ Private organisations have you been engaging?

- Federal Ministry of Science and Technology

What are the perceived challenges and gaps with the current process?






- N/A

Appendix 2

Snapshot on Stakeholder Scheduling

Name of Organisations/MDAs	Representatives	Email Address	Date of Schedule (DD/MM/YYYY)	Time of Schedule (NGN TIME)
Federal Ministry of Agriculture and Rural Development	<ul style="list-style-type: none"> Mr Cyril Abang Bikom Mrs. Iyabo Mustapha Lawal 	cybikom2012@gmail.com iyabo2020@yahoo.com	19/11/2020	10am -11am
Federal Ministry of Power	<ul style="list-style-type: none"> Engr Faruk Yusuf Yabo Mr Teddy Omoregbee 	Faruk.yusuf@power.gov.ng teddyomoregbee@yahoo.com	19/11/2020	12noon – 1pm
Federal Ministry of Industry, Trade & Investment	<ul style="list-style-type: none"> Mr. Barbanas Jatau Mr. John Opaluwa 	barnyjatau@gmail.com opaluwajoh@yahoo.com	19/11/2020	3pm – 4pm
Federal Ministry of Environment – Climate Change Department	<ul style="list-style-type: none"> Ms. Halima Bawa-Bwari Mr. Chukwuemeka Okebugwu 	halimabawab@yahoo.com chuksokebugwu@yahoo.com	20/11/2020	10am -11am
Federal Ministry of Science and Technology – Department of Environmental Sciences and Technology	<ul style="list-style-type: none"> Dr Peter Ekweozoh Nwankwo Nnenna Ezenwa Ifeobu Franklin Chukwu 	pekweozoh@yahoo.com nnennasmails@yahoo.com lfeobuec1129f@gmail.com chukzfranky@gmail.com	20/11/2020	12noon–1pm
Nigeria Climate Innovation Center (NCIC)	<ul style="list-style-type: none"> Mr. Bankole Oloruntoba Mr. K. Dapo Adegboyega 	boroluntoba@nigeriatic.org kadegboye@nigeriatic.org	20/11/2020	3pm – 4pm
Manufacturer's Association of Nigeria (MAN) from Agriculture, Industry and Energy subsectors	<ul style="list-style-type: none"> Adeyemi Folorunsho Olalekan Edunjobi Victoria Onuoha Ambrose Oruche Akpa Tochukwu Oluwasegun Osidipe Segun Ajayi- Kadir 	adeyemi.folorunsho@manufacturersnigeria.org lekan.edunjobi@manufacturersnigeria.org victoria.onuoha@manufacturersnigeria.org chumaoruche@yahoo.co.uk maybankihe@yahoo.com israelosidipe@yahoo.com Segun.ajayikadir@manufacturersnigeria.org manabujabbranch@manufacturersnigeria.org saokpe@yahoo.co.uk man@manufacturersnigeria.org	23/11/2020	10am -11am
Nigerian Association of Chambers of Commerce, Industry, Mines and Agriculture (NACCIMA)	<ul style="list-style-type: none"> Usman Abbas, Director, Abuja Liason Office, NACCIMA Engr. Yetunde Holloway 	natatuko@gmail.com u_abbas@naccima.com yaholloway@gmail.com	23/11/2020	12noon – 1pm

Name of Organisations/MDAs	Representatives	Email Address	Date of Schedule (DD/MM/YYYY)	Time of Schedule (NGN TIME)
Federal Ministry of Women Affairs and Social Development	<ul style="list-style-type: none"> Mrs Anetu-Anne O Aliyu 	womengendaffairsnig@gmail.com onomohanne@yahoo.com kingsleyobioha67@yahoo.com	23/11/2020	3pm – 4pm
Women Environmental Programme (WEP)	<ul style="list-style-type: none"> Anne-Marie Abaagu John Baaki 	anne.abaagu@wepnigeria.net johnbaakij@wepnigeria.net wep2002@hotmail.com	24/11/2020	10am -11am
African Development Bank (AFDB)	<ul style="list-style-type: none"> Zean Laurent Innocent Onah 	laurent@afd.org i.onah@afdb.org	24/11/2020	12am – 1pm
Center for Climate Change, Alex Ekwueme, Federal University Ndufu-Alike Ikwo (AE-FUNAI)	<ul style="list-style-type: none"> Prof Chukwumerije Okereke 	c.okereke@reading.ac.uk	24/11/2020	3pm – 4pm

Indicator	Meaning
	Postponed/Rescheduled
	Completed
	Cancelled
	Delayed
	Unresponsive