



82nd meeting of the Scientific and Technical Council (STC) and Exhibition of the African Water Association (AfWA) from 29th July to 1st August 2019 in Addis Ababa, Ethiopia

Theme: Strengthening Performance, Accountability and Self Reliance of Water and Sanitation Utilities To Improve Access For All In Africa.

WORK REPORT

SPECIALIZED COMMITTEE 2 (SC2) - TECHNICAL MANAGEMENT

Introduction

The Scientific and Technical Council of the African Water Association (AfWA) held its second meeting of the year 2019 from 29 July to 01 August at the Intercontinental Addis Conference Center, Addis Ababa hosted by the Ethiopia Water Supply and Sanitation Authority.

The following persons took part in the work of the group responsible for water technical management:

Chairperson: Aimé Loukou

Vice-Chairperson: Souleymane Sow

Rapporteur (French-speaking community): Ms Traore Sokona Maguiraga (absent)

Rapporteur (English-speaking community): Seth Eric Atiapah

Attendance list

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38 Attendants, 12 countries, 27 Organizations

Assignments to the Technical Management Committee at this meeting involved:

1. To follow up and update the recommendations of the Rabat STC
2. Review Action Plan for international symposium on Water Quality
3. Draft TOR for training workshop on NRW and Water Quality

Organising and conducting the work:

To better organise the work, specialized committee² has set up three working groups:

- Update of recommendations from Rabat STC
- NRW working group
- Water Quality working group

1a. Follow up and update of recommendations from Kampala STC:

OS	DESCRIPTION OF ACTIVITIES	RABAT	ADDIS
OS 1	STRENGTHENING THE TECHNICAL PERFORMANCE OF COMPANIES ON NRW	48%	78%
1.1	Completing the training of the Task Force auditors on NRW	100%	100%
1.2	Writing a concept note for the mobilisation of funds from donors in consultation with Programs Branch (AfDB, EU).	90%	100%
1.3	Complete the implementation of the toolbox for carrying out audits	50%	50%
1.4	Securing funding for the audit program (AfDB, EU, GIZ)	0%	100%
1.5	Schedule and performing audits of member companies	0%	40%
OS 2	HARMONIZING PERFORMANCE INDICATORS OF WATER COMPANIES	50%	50%
2.1	Identifying all indicators implemented in water companies	100%	100%
2.2	Having AFWA adopt a single benchmark of performance indicators	50%	50%
2.3	Publishing an annual evaluation of companies on the basis of indicators selected with the help of specialized organizations (FOBS, YOUNG AFRICA, etc.)	0%	0%
OS 3	CAPACITY BUILDING FOR SC MEMBERS WITH SUPPORT FROM AFFILIATED MEMBERS	33%	90%
3.1	Contacting affiliate members likely to offer technical training (water quality, metering, energy efficiency, etc.)	100%	100%
3.2	Building a Program of master class	0%	70%
3.3	Creating a platform for exchange and interaction with CS2 members	0%	100%
OS 4	SETTING UP WORKING GROUPS ON CURRENT ISSUES IN THE DRINKING WATER SECTOR	40%	100%
4.1	Creating and energising the working group on " water quality "	0%	100%
4.2	Create and revitalising the working group on " Introduction of ICT to water utilisation "	0%	100%
	GENERAL PROGRESS RATE	43%	64%

1b. List of trained AfWA NRW Auditors

N°	Nom & Prénoms NAME	Fonction / Fonction REGION	Société/ Pays SOCIETY/GHANA	Tel/Email
1	KOUEVI Mawuvi Koué	Conseiller Commercial et Marketing	TdE / TOGO	f.kouevi@yahoo.fr +228 90 04 31 48
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34 members, 18 African countries

1c. List of Utilities programmed for AFRICAP's Funding (NRW Auditing)

1. GVA (Sierra Leone)
2. (StE) Tchad;
3. BWB (Malawi);
4. SOMAGEP (Mali);
5. SEEN (Niger);
6. Ogun; Abuja (Nigeria);

2. SYMPOSIUM SUR LA QUALITE DE L'EAU, OCTOBRE 2019

SYMPOSIUM ON WATER QUALITY / OCTOBER 2019

CONFERENCE INTRODUCTIVE SUR LES PLANS DE GESTION DE LA SALUBRITE DE L'EAU/
INTRODUCTIVE CONFERENCE ON WATER SAFETY PLAN

Sub-theme 1 : RESSOURCES EN EAU/ WATER RESSOURCES

1. Gestion durable de la ressource (pollution agricole , industrielle, assainissement)/ Sustainable management of water ressources
2. Changement climatique/ climate change
3. Reglementation/ Regulations

Sub-theme 2 : TRAITEMENT DE L'EAU POTABLE/ DRINKING WATER TREATMENT
(DW)

1. Process de traitement (Conventionnel et spécifique, Surveillance de l'efficacité traitement) DW Treatment process (monitoring)
2. Innovation dans le traitement/ Innovation in drinking water process

Sub-theme 3 : QUALITE DE L'EAU DANS LES RESEAUX DISTRIBUTION / WATER QUALITY IN DISTRIBUTION NETWORK

1. Désinfection (rechloration, sous-produits de désinfection)/ Disinfection (rechlorination, disinfection byproducts)
2. Surveillance de la qualité de l'eau (Pertinence des indicateurs de suivi de la qualité , méthodes, reglementation) Water quality monitoring (key indicators, methods, regulation).
3. Gestion opérationnelle du réseau d'eau potable (materiau constitutif du reseau, fuite/ interconnexion avec reseau d'assainissement, plomberie) Operational management of DW network (network material, network leakage, cross-connection with sanitation network,plumbing))
4. Santé et qualité eau/Health issu related to water quality

Sub-theme 4: FINANCEMENT DE LA SURVEILLANCE DE LA QUALITE/WATER QUALITY MONITORING FUNDING

Update on the organization of International Water Quality Symposium

#	ACTIVITIES	RESPONSIBLE	DEADLINE
1	Send a letter to the DGs for approval on the nomination of the members of the Scientific Committee of the Symposium (SCS) proposed: Pr Aw Sadat (SODECI), Aminate Fall Mbaye (SDE), Dr Balogoun Clément (SONEB), Pr Konaté Yacouba (2le), Dr Claon Stéphane (ONEP/LACQUE), Margaret Macauley (GWCL), Irène Nansubuga (NWSO), Francis D. Kéré (ONEA) and ONEE	AfWA (Assistant of the ExD)	Done
2	Set up the Organizing Committee of the ONEA / AfWA Symposium	President of the SCIWQS	Done
3	Develop the preliminary symposium program and identify the key notes speakers	President of the SCIWQS	Done Pending
4	Develop / validate the symposium budget	FSD/ President of the SCIWQS	On going
5	Prepare the sponsorship and exhibition file		On going During STC
6	Launching of the symposium and call for papers	Resp. Com AAE	Call for paper will be canceled
7	Mobilisation call for AfWA membres and decision makers	EXD/AfWA	August 2019 On going
8	Reception of communications	President of the SCIWQS	August 2019
9	SCS meeting with the Local Organizing Committee in Ouagadougou	AfriCap. Coord /AfWA	August 2019
10	- Mid-term review of preparations - Selection of Communication summaries - Development and dissemination of the final program of the symposium	President of the SCIWQS	July 2019 during STC Will be canceled
11	Inform the authors of the selected communications	President of the SCIWQS	July 2019 Will be canceled
12	Evaluation mission of the organization of the symposium in Ouagadougou conducted by the Ex.director	Executive director	September 2019 (TBC)

13	Symposium on water quality held	P/organization committee	From 08th to the 10 October 2019
14	Preparation of the report and proceedings of the symposium	President of the SCIWQS	31 November 2019
15	Dissemination of the report and proceedings of the symposium	Responsible Com AAE	STC of November 2019

Observations:

- President: Absent and Vice-President: Sick
- Delay in providing expected deliverables for symposium organization
- Low commitment of the President and the members of SCIWQS
- September's scheduled date for holding the Symposium seems tight

Recommendations:

- Prioritize the sub them of the symposium
- Remove all activities related for the call for papers
- Extend the deadline for the organization of the symposium to October 2019
- Program team/DEx will share with SCIWQS key notes speakers
- Exhortation of the members of the SCIWQS to be more pro active

3a. TERMS OF REFERENCES FOR THE TRAINING WORKSHOP ON NON-REVENUE WATER

1. CONTEXT

The African Water Association (AfWA), intends to build the capacity of the various utilities in reducing Non-Revenue Water. Non-Revenue Water (NRW) is one of the major challenges water utilities face in the developing countries. It is the difference between volume of water delivered to the distribution system and the volume of water sold expressed as a % of water delivered.

According to a World Bank's report (2006), the total cost for water supply services caused by Non-Revenue water worldwide is estimated at \$ 14 billion per year. In developing countries, about 45 million cubic meters are lost each day because of leaks that are sufficient to serve nearly 200 million people. The apparent losses are estimated at 30 million m³. Reducing the current level from half, will generate \$ 2.9 billion in cash per year for the sector and serve an additional 90 million people without any additional investment in production facilities. The reduction of Non-Revenue Water would allow a rational use of water sources and an economy of the financial resources of the sector.

According to this, the African Water Association (AFWA) has developed a major NRW reduction program in sub-Saharan Africa with USAID funding (FABRI) from 2012 to 2015. This program has allowed 19 African water companies to identify a number of short- and medium-term actions and investments needed to substantially reduce NRW in each company.

In pursuit of its activities, AfWA has initiated capacity building for her active members. These include the new NRW reduction program and training seminars. To do so, AfWA proposes to organize a training session whose purpose is to strengthen the capacities of the leaders and operational managers of Water Companies who works directly in the management of NRW during the Kampala's Congress of February 2020.

In this context, the subcommittee of the SC2 has been set up to provide terms of reference for organizing a successful training workshop during the Kampala Congress as one of the activities.

2. Problem definition

Most African Utilities are bedeviled with non-revenue water challenges. This has come about as a result of:

1. Physical/technical losses due to weak and aged pipelines and appurtenances.
2. Commercial Losses as a result of authorized unbilled consumption, unauthorized consumption and Data Handling errors (Apparent losses). In African cities NRW stands at 60% on average, the lowest being 20% and the highest being 70%. The biggest challenge is the limited knowledge on NRW and the absence of resources to invest in NRW reduction.

3. Objective

i. General Objective

Create awareness of the existence of NRW, conscientize and sensitize participants to build consensus and harness support to find solution for NRW management.

ii. Specific objectives

1. Build capacity of participants in NRW: To understand and appreciate the existence and significance of non-revenue water.
2. Have knowledge required for diagnosis and planning of NRW reduction actions.
3. To develop a roadmap in finding solution to reducing NRW by using the WB-easy calc tool
4. Motivate participants to develop bankable proposals to solicit funding in reducing NRW
5. To be able to use most instrument, tools and techniques employed in combatting NRW.

4. Expected outcomes

- Participants understand and appreciate the existence of NRW
- Participants understand the significance and impact of NRW on the Utilities Operations (coverage extension and revenue improvement)
- Participants capable to develop a holistic roadmap in finding solution
- Participant capable of developing bankable proposals to attract funding in arresting the NRW canker.

5. Methodology to be used

- Lectures
- Role play
- Group Discussions and tutorials
- Simulators and Management games
- Films and videos
- Case Studies

6. Venue

The training will take place on Sunday, February 23, 2020.

7. Work plan

Activity	By Who	When	Output/milestone
Draft notification letters to all MDs to nominate 2 staff working on NRW for training	CS2	1st August 2019	Drafted letter
Send notification letters MDs of selected Utilities	AfWA Secretariat	15th August 2019	Notification letter sent

Open registration for all nominated and interest participants and inform them of various methods through which they can register	AfWA secretariat	30th Sept. 2019	Website for registration with notification for all potential participants to register
Allocation of various resource for the training	AfWA secretariat	30th Sept. 2019	Space, auditors, training materials, air tickets for auditors etc

8. Target group

- Water production managers/officers
- Distribution managers/officers
- Operations and maintenance managers/officers
- Commercial managers/officers
- Meter and instrumentation managers/officers
- Other groups interested in reducing NRW

9. Provisional budget for training 40 participants on NRW reduction

BUDGET					
Désignation		Number	Unit Cost	Total amt in CFA	total Amt in dollar
Participants travel from their home country to Kampala (Airline Tickets).	Participants	40	600 000	24 000 000	40 000
	Trainer	01	600 000	600 000	1 000
Trainer's delivery costs		1J	400 000	400 000	667
Trainer's hosting cost		03J	100 000/J	300 000	500
Coffee-Break		2*41	10 000/Pers	820 000	1 367
Participants's restoration		2*41	20 000/J	1 640 000	2 733
TOTAL				27 760 000	46 267

3b. Recommendation for NRW

1. Solicit funding for NRW training during Kampala congress through registration fees etc
2. Write to IWA to partner training on Water Loss specialist group
3. Accelerate AFRICAP program to realize NRW reduction

