



Ministry of water & Sanitation and Irrigation



WATER RESOURCES AUTHORITY WATER NEWS

WRA Newsletter

JUNE 2021

SMART WATER METER

A Smart water meter is a measuring device that automatically records water abstraction volumes and transmits real-time data to a nearby designated data platform.

WRA has instructed all abstractors to install smart meters, smart water meters have the capability to measure water abstracted and transmit the data in real-time.

Benefits of a smart meter.

- Smart meter data reduces billing conflicts as it gives actual volumes of water abstracted.
- Ensures water abstraction volumes are complied with as per the issued permit conditions
- It cost effectively receive all abstraction data in one platform.
- Brings compliance to all unlicensed water users.
- Helps water users check and rectify areas of wastage and water losses.

“Even the smallest act of caring for another person is like a drop of water. It will make ripples through the entire pond...”

- Bryan Matteo



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- Process of acquiring smart water meter
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Smart water meter

Key function of the smart water meter.

The water supply for each person must be sufficient and continuous for personal and domestic use. It's among the government's big 4 agenda to provide: safe, clean, accessible, and affordable drinking water and sanitation to all.

Data from the smart meter will be transmitted to a data platform where it will be applied to analysis tools, to give such information as:

- Water quality
- Volume of water abstracted over a specific period.
- Determine water leakage and water losses
- Production of water use bills and resultant penal-

Process of acquiring a smart meter

WRA has developed smart meters specifications subsequently a list of pre-qualified suppliers which is availed to abstractors.

Installation is done by the water user and linked to the WRA server.

Monitoring of the abstraction done by the water user and WRA, from the information collected by the water smart meters and transmitted to WRA server..

Does the law require me to install a smart meter? YES

Besides the mentioned benefits, it is a legal requirement to install a water meter, with the digital era, a smart meter is the most preferred one.

In line with water resources management rules 2007; section 99(i), 101 (i), 106 (i) and 111 ; Water users shall install meters to measure flows of water abstracted and submit the information to WRA on specified timelines.

Is smart meter also relevant in effluent discharge control? YES

Smart water meter also provides volumes of waste water in terms of effluent discharges

How much does it cost to install a smart water meter?



Water Resources Authority—WRA Regional offices

- Athi Basin area
- Ewaso Ngiro North Basin area
- Lake Victoria North Basin area
- Lake Victoria South Basin area
- Rift Valley Basin area
- Tana Basin area

According to **Water act 2016 Sec 47 sub section (I)**

Where in the opinion of the authority, it is desirable that water use in respect of one or more water resource, including ground water, within a specific geographic area be rationalized or reviewed so as to:

- achieve a sustainable allocation of water from a water resource which is under stressed.
- achieve equity in allocation
- Promote beneficial use of water in the public interest.
- Facilitate efficient management of water resources or
- protect water resource quality

WATER USE CHARGES

Rates for water use charges for permits categories B, C & D

Type of water use charges	Criteria	Rate
DOMESTIC, PUBLIC AND LIVESTOCK	Domestic, Public and live-stock purposes	50 cents/m ³
HYDROPOWER GENERATION	Amount of Energy generated	
	First 1 M W	No charge
	Over 1 M W	5 cents per kWh
IRRIGATION	First 300 m ³ /day	50 cents/m ³
	Over 300 m ³ /day	75 cents/m ³
FISH FARMING	Amount supplied	5 cents/m ³
COMMERCIAL / INDUSTRIAL	First 300 m ³ /day	50 cents/ m ³
	Over 300 m ³ /day	75cents/ m ³
EFFLUENT DISCHARGE		NIL
NOTE:	Water user charges apply to abstracted, diverted, stored and or used for hydro power generation	
ALL WATER USE UNDER CATEGORY A DOES NOT ATTRACT ANY WATER USE CHARGES		



By when should a smart water meter be installed

90 days WEF date of notification of prequalified suppliers. No abstraction shall be allowed without a smart water meter..

Should shallow wells and individual boreholes get smart meters?

All abstractions where works have been employed and methods of abstraction are mechanical e.g. pumping will install smart meters.

All abstractions points shall be installed with smart meters regardless of ownership.

Stakeholders sensitization on smart water meter

Public awareness and education is a continuous activity .in tandem with our work plan.

Contact Us

Give us a call for more information

Water Resources Authority

9th floor, NHIF building,
Ngong rd

P.O BOX 45250– 00100,
Nrb, Kenya.

Tel:

0202732291/2729048/9

Hot line: 0700056472

email@sample.com

For more information,

visit us on the web at

www.wra.go.ke

CEO STATEMENT

Water Resources Authority

C.E.O - Mohamed M. Shurie

On behalf of management, I take this opportunity to welcome you this monthly newsletter edition. This has provided us the motivation that is required to forge forward as an institution with transformation. Through the water act 2016 which was then operationalized later in April 2017, the operationalization of the water act 2016 changed WRMA's name and mandate to Water Resources Authority (WRA)

