

An Industry–Leading Smart Water Meter Solution Provider

— Bove Smart Metering Success Stories (partially)

Bove Smart Metering Serves 500+ Clients Worldwide



Canada



Belgium



India



Mexico

1,636,000+ smart meters running online in over **78+** countries

"Bove made significant strides on smart wireless ultrasonic water meter since 2019 in delivering on its complete smart solutions and continues to be an active contributor to municipalities and city water supply, including water flow meter, gateway, and systems."



APAC



Philippines:
-MWC
-Maynilad



Tailand:
-MWA
-DAT Utility



India:
-GVMC
-HMWSSB
-KWA
-NCC
-AGRA SMART CITY



Maldives:
- MWSC



Malaysia:
-LAKU Management Sdn.Bhd
-Perak Water Board



Brunei:
-National Water Authority

EMEA



Oman:
-DIAM
-Jebel Sifah



Kenya:
-Africa IoT
-Lloyd Masika



Belgium:
-Brussels



Spain:
-Almeria



Turkey:
-QLAB



KSA:
-Danah AI Jubail Suites

AMERICAS



Brazil:
-CAESB
-EMBASA
-Dae Americana
-CAGEPA
-CESAN



Colombia:
-EPM
-Veolia
-Guarne



Argentina:
-EPAS
-Cooagua



Mexico:
-SACMEX
-SAPAL
-Guadalajara
-Merida



Canada:
-Tridel
-Edmonton
-Quebec City



Costa Rica:
-Municipality Aserri
-Municipality Tanque

GVMC: **Indian** First 24x7 Water Supply Scheme Funded by Asian Development Bank (ADB)

55,000+

Smart Water Meter Installed

200+

Gateways in Network

AMI

In connection with SCADA system

Water Utility

Real Estate

Resorts & Hotels

Industry Client

Calibration Center

“ Bove made significant strides on smart wireless ultrasonic water meter since 2019 in delivering on its complete smart solutions and continues to be an active contributor to municipalities and city water supply, including water flow meter, gateway, and systems. ”

—Asian Development Bank

- LoRa wireless technology, communication distance ranging from **0.1-9,000** meters distance.
- NRW decreased from **45% to 9%** after successfully launching.
- Sizing from **DN15 to DN50**.
- Completely design, configure and installation.



Mexico: 20,000+ Ultrasonic Water Meters Installed

20,000+

Smart Water Meter Installed

20+

LoRaWAN Hand Held Units Running on Site Check Reading

R400

Dynamic Range Measuring

5

Utilities Choose Bove Smart Meters

Water Utility

Real Estate

Resorts & Hotels

Industry Client

Calibration Center

- Successfully delivered 10k+ meters to SACMEX of Mexico City which is the biggest water supply service company in Mexico.
- Bove provide LoRaWAN Hand Held Units to read those meters in none-fixed-gateway-reading area.



MWSC: **Maldives** First Ultrasonic Water Meter Project with Cutting-edge Measurement solution

6500+

Smart Water Meters with Remote Valve Control

1500+

LoRaWAN Intelligent Water Meters

R400

Dynamic Range

50%

User Coverage in Capital Malé

Water Utility

Real Estate

Resorts & Hotels

Industry Client

Calibration Center

“ Bove’s time-proven total solution helps Maldives enter a new water measurement era, the 3-states valve control water meter with LoRaWAN communication provides a unique way for water supply and billing management. Under islands environment with high salt spray corrosion the products demonstrate good reliability and satisfactory measurement performance. ”

—MWSC, Maldives

- 3 states flexible valve control, dynamic range up to R400
- LoRaWAN Communication with Walk/Drive by Handheld Unit
- AMI intelligent management platform ready for data & remote control service



India: Agra Smart City Installed Bove Smart Meter Solution



17,000+

Smart Water Meter Installed

80+

LoRaWAN Gateways installed

R400

Dynamic Range Measuring

23%

Water Savings

Water Utility

Real Estate

Resorts & Hotels

Industry Client

Calibration Center

- LoRaWAN 865MHz UWM, Gateway for outdoor application.
- Bove AMI Remote Reading System.
- Average saving water for Utility over 23%.
- Sizing from **DN15-DN20-DN25**.
- Measuring wider range of flow rates.



Brazil: Smart Bulk Ultrasonic Water Meter for Multiple Water Utilities



5,200+

Smart Water Meter Installed

1,860,000+

Households Serves

R500

Dynamic Range Measuring

18%

Water Savings

10+

Water Utilities Choosing Bove

Water Utility

Real Estate

Resorts & Hotels

Industry Client

Calibration Center

- Either of Pulse, RS485, 4-20mA communication interfaces are ready to supply.
- Average saving water for Utility over 18% for our utility clients.
- Sizing from **DN40-DN600**.
- Measuring wider range of flow rates.



Argentina: Sigfox/LoRaWAN Ultrasonic Water Meter Installed in Various Water Utilities

6000+

Ultrasonic Water Meter Installed

22%+

Water Savings

AMI

Data integration and stable remote reading

5+

Water Utilities Choosing Bove

Water Utility

Real Estate

Resorts & Hotels

Industry Client

Calibration Center

- First ultrasonic intelligent water meter project for the water utilities.
- First water meter project with Sigfox communication in the country.
- Replacing the old mechanical meters offering an innovation in the metering industry.
- LoRaWAN total solution including gateway, and walk/drive by handheld unit provided.



Panama: IDAAN: Panama First Bulk Meter with Remote Valve

Control Project

1,000+

Ultrasonic Water
Meter Installed

Antenna

Road Marker Special
Antenna Used for
Underground Environment

150+

Bulk Meter with Remote
Valve Control Function

AMI

Data Integration And
Stable Remote Reading

Water Utility

Real Estate

Resorts & Hotels

Industry Client

Calibration Center

- First ultrasonic intelligent water meter project for water utilities.
- Unique solution for bulk meter with remote valve control.
- Communication tests carried out under ground or inside metal box.
- Customized water meter size for Panamanian market.



Colombia: 7500 + Ultrasonic Water Meter Installed

7,500+

Smart Water Meter Installed

DN15-350

Measure Residential and Industrial Water

R400

Dynamic Range Measuring

20+

Utilities Choose Bove Smart Meters

Water Utility

Real Estate

Resorts & Hotels

Industry Client

Calibration Center

- LoRaWAN solution in apartments of residential area and houses.
- Meters tested & approved, and successfully delivered to Veolia.



Costa Rica: LoRaWAN Ultrasonic Water Meter Installed in Various Water Utilities

3500+

Ultrasonic Water Meter Installed

8+

Water Utilities Choosing Bove

R400

Dynamic Range Measuring

18%+

Water Savings

Water Utility

Real Estate

Resorts & Hotels

Industry Client

Calibration Center

- First remote valve control ultrasonic water meter project in the country.
- All products certified under Sutel Costa Rica.
- Remarkable LoRaWAN application with Walk/Drive by Handheld Unit.
- API data push and integration with water utility's software.



Malaysia: Sigfox Ultrasonic Water Meter Applied in Various Water Authorities

1,200+

Smart Water Meter Installed

R500

Dynamic Range Measuring

85%+

Labor Cost Savings

10+

Water Utilities Choosing Bove

Water Utility

Real Estate

Resorts & Hotels

Industry Client

Calibration Center

- Latest LPWAN technology Sigfox network enable the meter reading more smart.
- Over 10 water authorities choosing Bove smart water meter for residential measurement.
- Covering both west and east Malaysia.
- Water Proof, Salty Proof, UV proof water meter installed in various scenarios.



Ghana: Bove Supports Ghana Water Company Limited



500+

Meters Installed for Pilot

90%

Labor Cost Saved

15%-30%

Revenue Increased

Water Utility

Real Estate

Resorts & Hotels

Industry Client

Calibration Center

- LoRaWAN and GPRS Solution are provided for the first Smart Metering project in Ghana.
- External antenna with bulk meter perfectly functioned in deep underground well.
- Bove training to Ghana Water Company Limited to help them smoothly get started with smart ultrasonic water meters.



Ukraine: MBus Ultrasonic Heat Meter Installed in Kiev and Odesa



21,000+

Ultrasonic Heat Meter Installed

4-8 years

Heating Season Running

0.05% Less

Faulty Ratio

39+

Real Estate Companies Choosing Bove

Water Utility

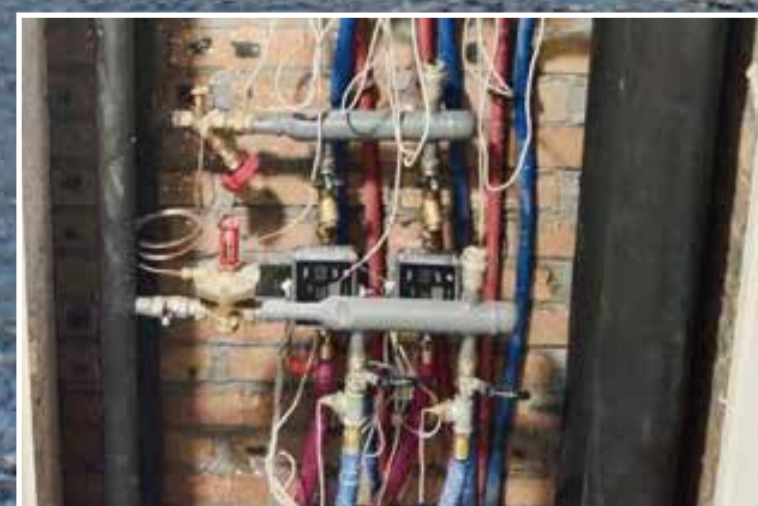
Real Estate

Resorts & Hotels

Industry Client

Calibration Center

- MBus EN1434 European communication standards.
- Both vertical and horizontal installation
- Contribute precise thermal energy measurement and charge fees for utilities.
- State of the art design of meter, more reliable, anti-tamper.



Kingdom of Saudi Arabia: Bove Involved in The Build of Each New City

Neom

A Futuristic Smart City

TROJENA

To Host 2029 Asian Winter Games

Amaala BMS

Luxury Tourism Project

Water Utility

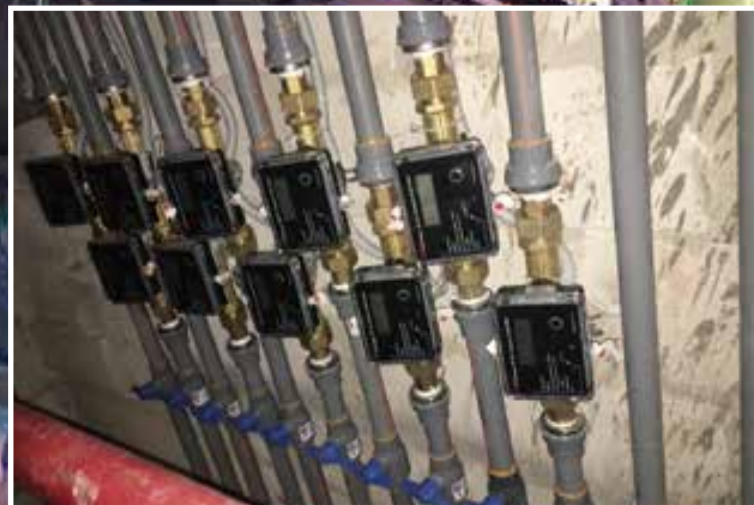
Real Estate

Resorts & Hotels

Industry Client

Calibration Center

- 2000+ meters has been installed in different projects for the new smart cities.
- 8 new contracts have been signed to have Bove provide a complete smart metering solution from meter to software.
- Bove will collaborating with local contractors to install 60,000 meters in the next 3 years.



Oman: LoRaWAN Ultrasonic Water Meter Installed in Water Utility & Resorts

2000+

Ultrasonic Water Meter Installed

2+

Water Utilities Choosing Bove

35%+

Water Savings

Water Utility

Real Estate

Resorts & Hotels

Industry Client

Calibration Center

- Stable LoRaWAN communication in various scenarios.
- Passed the country's biggest water utility factory audit.
- First remote valve control ultrasonic water meter project in the country.
- Excellent operating performance under hot weather.



Kenya: Remote Valve Control Meter Launched in Nairobi

800+

Remote Valve Control
Ultrasonic Water Meter
Installed

DN15

Applied in Resorts
and Commercials

LoRaWAN

Wireless LoRaWAN
EU868MHz

NRW

46% Increment on
Billed Water

Water Utility

Real Estate

Resorts & Hotels

Industry Client

Calibration Center

- Latest LPWAN technology LoRaWAN network enable the meter reading and valve control more smart.
- Locates in Nairobi city center, saving tremendous labor and time cost in meter reading, valve control, and billing.
- A great potential to expand the solution to whole east Africa region.



Canada: Leading Tower Constructions Choose BOVE Smart Water & Heat Meter



16,000+
NSF
RF Technology
AMI
DN15-DN40

Ultrasonic Water & Heat Meter Installed

Certified Flow Sensors

Reduced Huge Labor Cost

System Timely Reading and Remotely Control

For Residential and Commercial Application

Water Utility

Real Estate

Resorts & Hotels

Industry Client

Calibration Center

- Latest LPWAN technology LoRaWAN network enable the meter reading more smart.
- 360 degree installation direction.
- Water Proof, Salty Proof, UV proof water meter installed in various scenarios.
- Communication distance ranging from **800-9,000** meters distance.



Kuwait: Flange Connected Bulk Meter Provide Precise Counting for The Industry

600+

Bulk Ultrasonic
Water Meters Installed

**Multiple
Communications**

Flexible For
Client Request

11%

NRW Reduced
from 46% to 11%

DN15-DN80

For Residential
Commercial And
Industrials

Water Utility

Real Estate

Resorts & Hotels

Industry Client

Calibration Center

- LoRaWAN, Pulse, RS485 modbus interfaces provide multiple options to clients.
- R400 high dynamic range counting much less flow rate, avoid leakage and stolen of water.
- Water Proof, Salty Proof, UV proof water meter installed in various scenarios.
- Both integrated and split design provide more flexible installation for the site.



Singapore: Smart Building Project with Precise Measurement

800+

Ultrasonic Water Meter Installed

4+ Years

Stable Running

Zero

Faulty Ratio

30%+

More Water Counted

26%+

Increasing Water Revenue Collected

Water Utility

Real Estate

Resorts & Hotels

Industry Client

Calibration Center

- RS485 Modbus communication interface.
- Horizontal and vertical installation for different scenarios.
- Cost saving on labor reading expenditure.
- Sizing from DN15-DN20, wide range flow rate counting.



Belgium: Bove Contribute to Smart Building in Brussels

800+
Zero
LoRaWAN
26%+

Ultrasonic Water
Meter Installed

Faulty Ratio

Strengthen the Successful
Ratio of Meter Reading

Increasing Water
Revenue Counted

Water Utility

Real Estate

Resorts & Hotels

Industry Client

Calibration Center

- LoRaWAN EU868MHz wireless communication interface.
- Horizontal and vertical installation for different scenarios.
- T70 temperature class ensure the precise of hot water measurement.
- Sizing from DN15-DN150, wide range flow rate counting.



Turkey: First Ministry of S&T Accredited Heat Meter Calibration Lab



In Turkey

200,000+

Calibration Capacity in a Year

DN15-DN65

Size Ranging for various demands

30+

European Branded Heat Meter Calibrated

Full Automatic

Operational in Line

Multiple Principle

With Flying Start-Stop and Standard Start-Stop Method

Water Utility

Real Estate

Resorts & Hotels

Industry Client

Calibration Center

- State-of-the-art flow system design with top-quality configurational materials.
- Designing, Configuration, Commencing, Training. One stop delivery of project.
- 20+ years lifespan of the whole testing bench hardware & software.
- Stable flow rate & temperature during calibration.





THANK YOU

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