# UBIIK

## **Connecting a smart and sustainable world**

I THE R. P. LEWIS CO., LANSING MICH.

## From Taiwan Champion to Global Leader

Vancouver

San Jose

Ubiik is a global IoT solutions provider with expertise in LPWAN, cellular connectivity and services to cover the multi-modality of the IoT market, including Weightless™ LPWAN and LTE technologies. Ubiik is also committed to providing vertical solutions for a variety of industries, such as utilities and energy management.

Top 1 Vendor of Taipower AMI Project

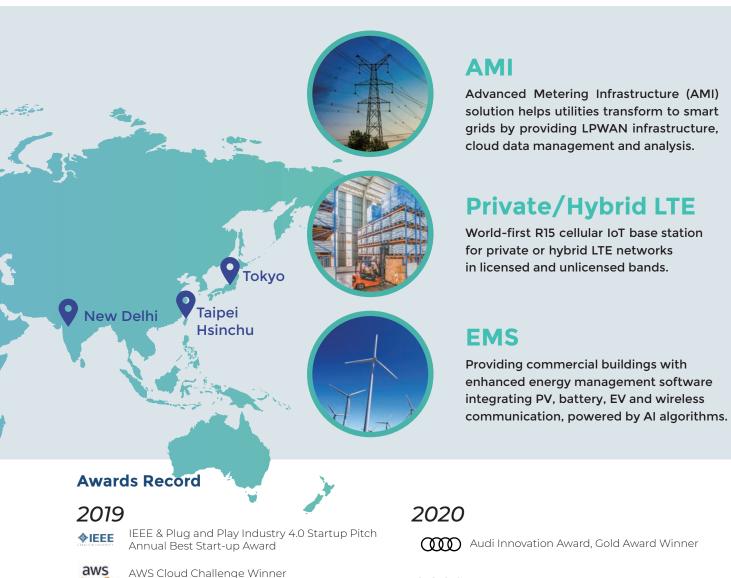


Release 15 LTE-M/NB-IoT Base Station for Private Networks

Offices in Taiwan, India, US, Japan, France and Canada Paris

Toulouse

**100**<sup>+</sup> Employees around the World





Greentech Startup Challenge Award Winner of Final Run

Taipei Prominent Enterprise Award Winner

COMPUTEX Best Choice Award, AI IoT category

First Award in Hardware Tech Friday Pitch

U.S. Plug and Play Startup Camp

PLUGANDPLAY

BC

## Experts in National Electricity Grid

Ubiik's AMI solution helps utilities collect data from meters or field devices. This data is used to help monitor electricity, gas or water usage, as well as quality. Informed decisions based on this data can help improve grid stability and resilience. The solution can also help customers improve energy efficiency and sustainability.

We provide total AMI solutions to meet your needs at any scale.

> Fabien Petitgrand CTO, Ubiik

#### **Ubiik AMI End-to-end Solution**

Currently processing and managing over 50 million meter messages per day.



#### **Head End System**

#### **Product Introduction**

#### **Base Station Infrastructure**

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Weightless<sup>™</sup> LPWAN has been chosen by the most modern utilities as their private wireless network, thanks to its high capacity, bi-directionality and abilities in dense environments, allowing a single data concentrator unit (DCU) to support up to 1,000 devices.



#### Head End System

he Head End System (HES) provides portable and scalable microservices aimed at reliable processing and packaging of up-to-date and timely information for customers to understand their meter data and make impactful business decisions.

#### Smart Meter Communication Module

biik is experienced in meeting wireless integration and metering requirements for AMI, following standards such as IEC (Europe), ANSI (America), CNS (Taiwan), and JIS (Japan).

Smart Meter Communication Modules

### Ubiik's AMI in Taiwan

In 2017, Ubiik participated in the Taipower AMI (Advanced Metering Infrastructure) project through its innovative Weightless<sup>™</sup> Low Power Wide Area (LPWAN) communication technology. In 2018, we were selected as a qualified vendor for the AMI communication unit of Taipower smart meters project, and have been working with Taipower since 2018. In the past three years, the cumulative tender amount reached NT\$1.26 billion.



Smart meters under contract

# 1,160,000+

Smart meters deployment by 2030

#### **AMI Milestones**



Won US\$8Mn AMI tender from Taipower to deploy network for 75,500 meters, by leveraging Weightless™, NB-IoT and LTE Cat-1

#### 2019

Won US\$16Mn AMI tender from Taipower to deploy network for 265,000 meters. Completed delivery of 11,000 smart electricity meters to Japanese customer.

#### 2020

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Completed 200,000+ smart meter network deployment in Taiwan and won tender from Taipower to deploy integrated AMI network for electricity, water, and gas meters. We won US\$17Mn AMI tender from Taipower to deploy network for 380,000 meters

Weightless™ ePaper products shipped to Germany semiconductor fabrication plant customer. We received PO from other AMI peers in Taiwan, stepped into energy monitoring system, and completed US\$5Mn Series A led by Taiwania Capital

Won US\$18mn AMI tender from Taipower to deploy network for 450,000 meters



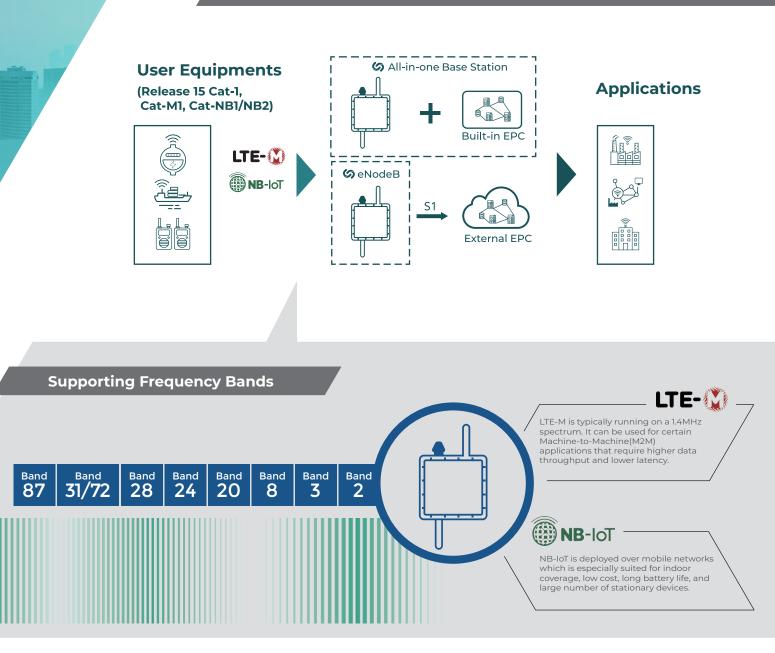
## goRAN

AUTO DRIVER

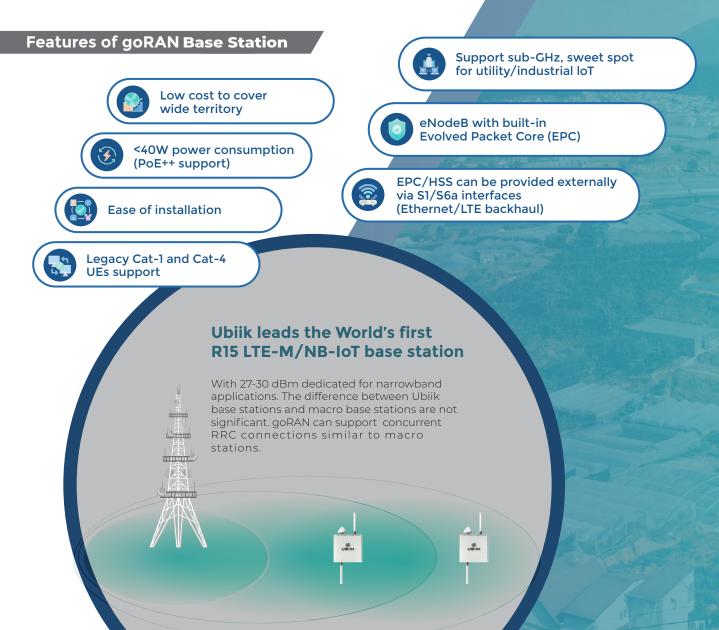
## Private LTE-M/NB-IoT Networks for Utilities and IoT



#### Ubiik Private LTE / Hybrid Network Solutions



# Competitive Capabilities of goRAN Base Station



#### Scenarios of LTE Network

goRAN is the only private standalone LTE-M/NB-IoT eNB+EPC available in the market; it also works as eNB interfaced to external EPC for private extension of public etworks and vice versa.

> Hybrid Network Roaming

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LTE Network Extension

O1 Standalone LTE-M/NB-IoT Network

## **Ubiik Nanogrid Management Solution**

Ubiik's EMS cloud platform is designed to help enterprises manage the commercial value of nanogrids. It can help manufacturers conduct energy management, master electricity consumption information, improve electricity consumption habits, reduce electricity consumption costs and electricity consumption, and do their best to achieve sustainable energy development.

#### **Benefits of Ubiik EMS**

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#### Go green and save electricity bills

Ubiik smart controller and SaaS platform help consumers maximize the self-consumption of renewable sources. When consumer has to use grid power, it also minimizes the electricity bill and demand charge.

#### Real-time monitoring of power usage and flows

Ubiik smart controller and SaaS platform enable the remote and real-time monitoring of how power flows between different components within a nanogrid system.

#### Interface with 3rd-party VPP platforms



Ubiik smart controller and SaaS platform connect the DERs on the consumer's side to the wholesale market to trade energy, capacity, and provide ancillary services to generate additional revenues for consumers.

#### Integrated with long-range wireless technology



Integrated with sub-GHz LPWAN wireless technology, our solution supports the communication with industry-standard meters, inverters and batteries. Going wireless can significantly save the capital cost of wiring communication lines in large sites, such as factories and schools.

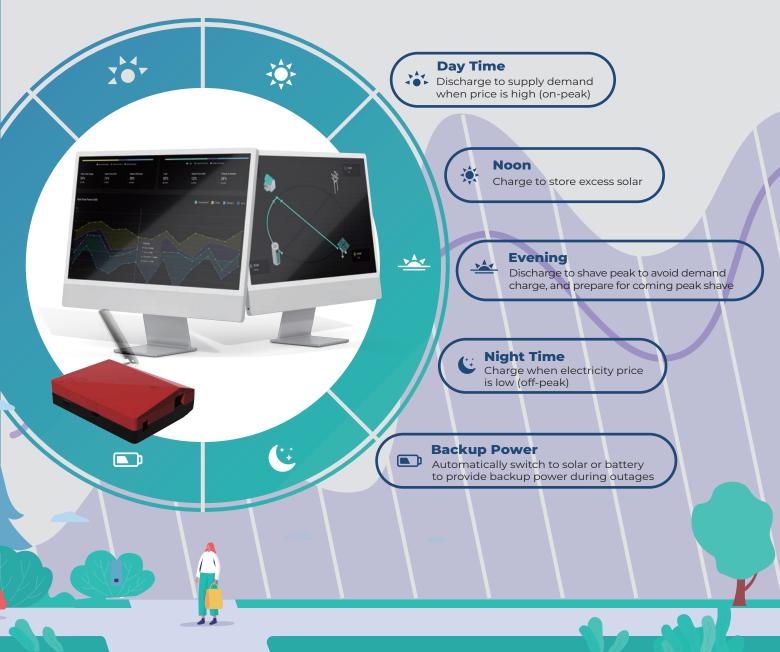
#### **Reach Net-zero**



Maximizing the self-consumption of solar by storing excess solar during the day and discharging it back at night. We also help customers increase their energy self-sufficient rate to reach net-zero.



#### **Ubiik Smart Controller & Cloud EMS**



## Join us for a Green Revolution

## & create new possibilities together!

#### Ubiik is a member of









Contact us

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