

## AMI Smart Grid Total Solution

Effective Energy Management  
Creates a New Smart Life

### ▶ About AcBel

Founded in 1981, with power management as its core technology, AcBel Polytech Inc. provides power supply with stable quality, in which applications covers the IT industry, consumer electronics, manufacturing and other industrial sectors. In addition to raising the power conversion efficiency of its power supply products, AcBel also proactively invests in new sectors such as lighting, energy, and power communications.

In recent years, AcBel has been committed to providing highly efficient digitalized smart grid total solutions. By installing smart meters and data transmitters, it learns and analyzes the demand for electricity, and manages energy in a smarter way to achieve the goal of energy saving and carbon reduction, and realize the concept of "sustainability, inclusiveness and prosperity." AcBel has established branch offices in Europe, US, and Asia, and continues to invest in the development of smart meters, communication servers and backend system platforms of various regional specifications to provide cutting-edge environmental energy services worldwide.

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## ▶ AMI Smart Grid Total Solution

AcBel integrates home display of end users with the smart remote operation app, and provides end-to-end smart grid solutions using various smart meters (in compliance with ANSI or IEC standards) at transmission side, communication modules, wide area network (WAN) transmission equipment, combining with the head-end server (HES), and electricity meter data management system (MDMS). The firm also provides consulting services and offers most suitable solutions according to different needs.

AcBel has actively invested in the development of advanced metering infrastructure (AMI) and smart grid systems and provided relevant products and total solutions of smart meters and smart grids for governments and residential buildings. The information collected by power meters is transmitted to the power company through the communication network for information analysis, which allows the power plant to adjust the power production and its transmission and distribution. By coordinating with the power consumption of households and enterprise during different periods, it could lower the power depletion, raise the grid reliability, and promote the expansion of renewable energy application, achieving energy saving and carbon reduction goals.



AcBel provides end-to-end smart grid total solutions and consulting services

## ▶ AMI Smart Grid Case Studies

Application of Smart Grid for Taipei City Public Housing:

AcBel has proactively cooperated with Taiwan Power Company to jointly develop the necessary communication technology and equipment for advanced meter infrastructure (AMI), participates and pass through various field tests and verifications to optimize the overall system efficiency, and provide Taipei City public housing with smart grid services. AcBel provides communication equipment that converts the radio frequency (RF) signals from the meters on each floor into power line communication (PLC) signals that has more stable transmitting performance. Furthermore, it regularly transmits user's power consumption data to the Taiwan Power Company for data analysis and gain insight into the power demand during different periods thus allowing for more effective control and stability of the power supply reaching the goal of energy saving.

- The power meters on each floor mainly converts RF signals into power line communication signals through equipment to establish a stable connection and raise transmission efficiency.

