What is a "behind the meter" battery storage system?

Battery storage systems deployed at the consumer level- that is,at the residential,commercial and/or industrial premises of consumers - are typically "behind-the-meter" batteries,because they are placed at a customer's facility.

What is behind the meter?

by reducing strain on the grid. What Is "Behind the Meter"?Two terms that are often used when discussing energy storage are "Front of the Meter (FTM)" a d "Behind the Meter (BTM)." To better understand the meaning of these terms, we need to envision the meter on the side of a home o

What is behind the meter storage?

ns for Behind the Meter StorageAs discussed earlier,behind the meter (BTM) refers to the electrical system on the c nsumer side of the power meter.Energy storage solutions in BTM applications have been used for many years as a standby power s urce in the case of power loss. Historically,lead-based batteries were the battery o

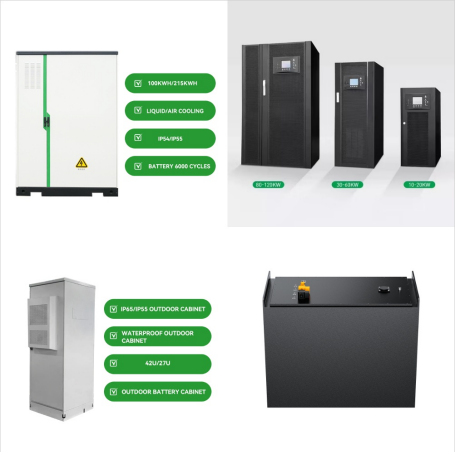
Which battery is best for a BTM power meter?

nsumer side of the power meter.Energy storage solutions in BTM applications have been used for many years as a standby power s urce in the case of power loss. Historically,lead-based batteries were the battery o choice for these applications. In recent years,more lithium-base

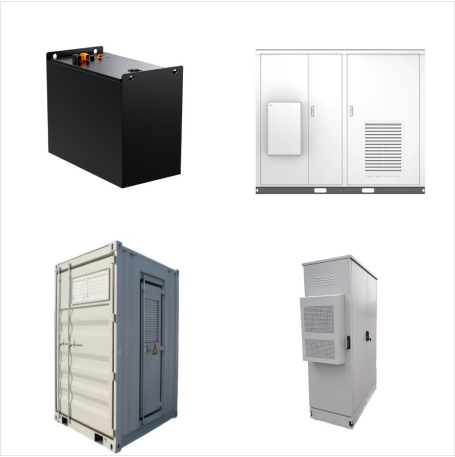
Are Li ion batteries a barrier to deployment?

Recent improvements in the technical performance of Li -ion BESS have meant that most customer requirements have been met. The main remaining barrier to deployment is the (investment) costs,with purchasers (except utility-scale projects) finding it difficult to access the capital required to install the batteries.

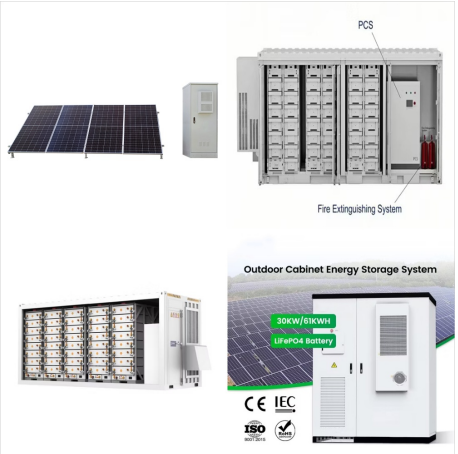
BEHIND THE METER BATTERIES KENYA



,(Front of the Meter,FTM)(Behind the Meter,BTM),,;???,???

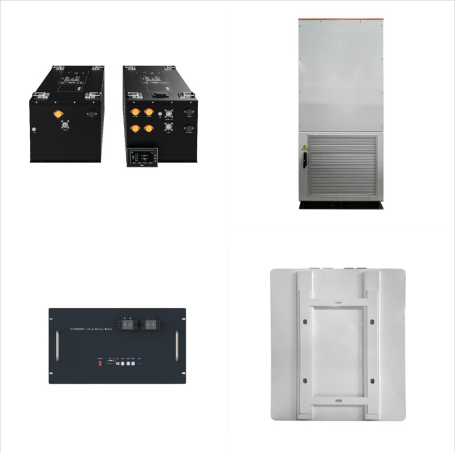


Battery storage systems are being deployed at multiple levels of the electricity value chain, including at the transmission, distribution and consumer levels. BTM batteries are connected behind the utility meter of commercial, industrial or residential customers, primarily aiming at electricity bill savings.

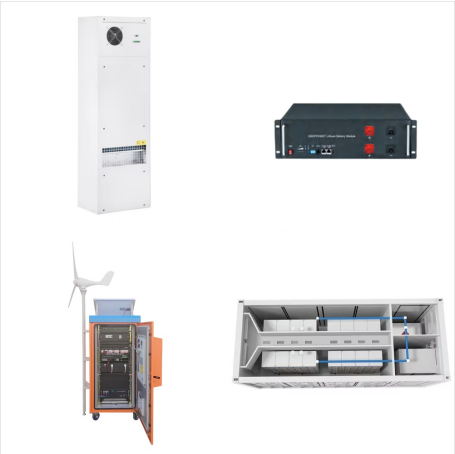


BTM BESS are connected behind the utility service meter of the commercial, industrial, or residential consumers and their primary objective is consumer energy management and electricity bill savings. The BTM BESS acts as a load during the batteries charging periods and act as a generator during the batteries discharging periods.

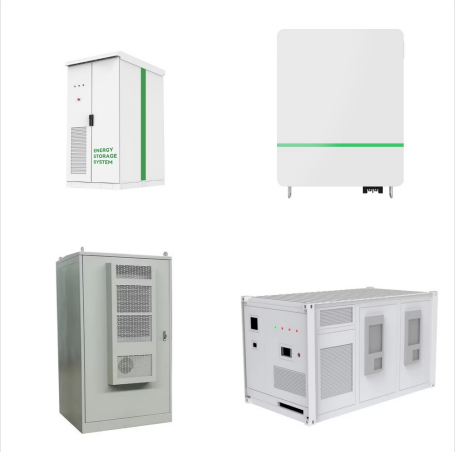
BEHIND THE METER BATTERIES KENYA



Behind-the-meter (BTM) batteries at the individual or household level, combined with the right incentives, can unlock demand-side flexibility and ease system integration of electricity from ???

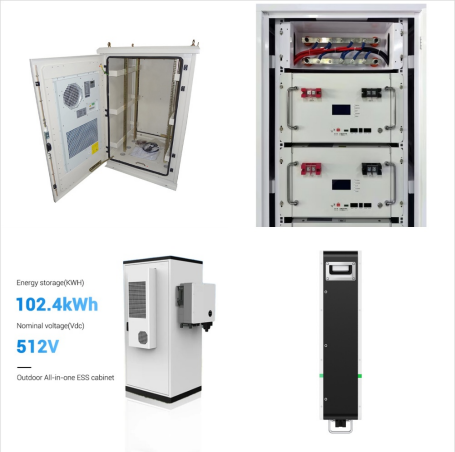


2 ? At the behind-the-meter (BTM) level, batteries are also increasingly recognized as a critical technology for end users to maximize on-site RE generation, manage energy demand more efficiently

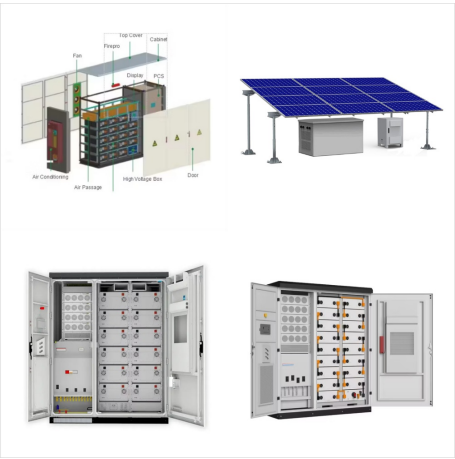


4.3 Captive and Behind-the-Meter Applications 34 4.4 Off-Grid Industrial Facilities 44 Figure 36: Lead-acid batteries power a mini -grid in Entesopia, Kenya 70 Figure 37: Battery type distribution in mi ni grids 71 Figure 38: Breakdown of the generation technologies paired with BESS 72

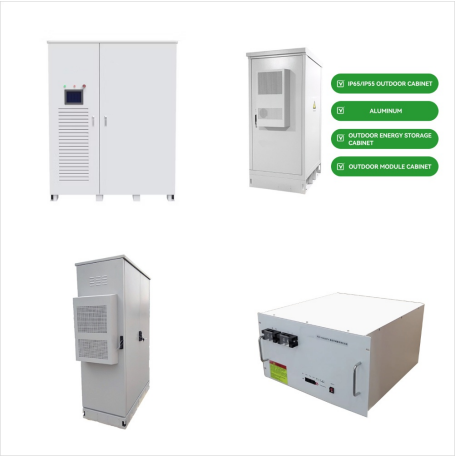
BEHIND THE METER BATTERIES KENYA



,(Front of the Meter,FTM)(Behind the Meter,BTM), ???



Behind-the-meter (BTM) batteries at the individual or household level, combined with the right incentives, can unlock demand-side flexibility and ease system integration of electricity from wind and solar energy .



Behind the Meter energy storage is essential for utilities to manage fluctuating electricity demand. Advancing towards net-zero carbon energy production will require consumers to efficiently manage energy usage, thereby reducing strain on the grid.