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AMI Electric Meter Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024 – 2032

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Abstracts

The Global AMI Electric Meter Market was valued at USD 19.7 billion in 2023 and is predicted to grow at a CAGR of 6.3% from 2024 to 2032. Smart electric meters are devices that are developed to examine and trace electricity consumption by end users, gather usage data, and relay it to utility providers. The increasing global demand for energy has led to a heightened need for more efficient methods of tracking energy usage to help reduce electricity costs. This trend is expected to drive the development and adoption of intelligent metering technologies in the coming years. The market is witnessing significant growth due to multiple projects focused on the distribution of developed smart meters and key transmission infrastructure upgrades.
These initiatives are part of broader efforts to modernize energy systems, positioning key players in the industry as leaders in the push toward energy efficiency and grid modernization. In terms of application, the residential segment is poised to surpass USD 18.6 billion by 2032. Advanced metering infrastructure (AMI) allows customers to manage their energy consumption more efficiently, helping to reduce energy bills. It also supports software applications that can restore data in case of failures. Increasing investments in the real estate sector and a growing focus on smart home development are expected to further stimulate AMI electric meter market growth.
Regarding technology, the RF (radio frequency) segment is anticipated to witness a CAGR of over 6% through 2032. RF systems provide various means of transmitting data through existing electrical infrastructure, eliminating the need for separate communication cables. This technology integrates seamlessly into electrical meters, offering an efficient and consistent method for multiple organizations. The execution of advanced technologies, such as Orthogonal Frequency Division Multiplexing (OFDM), is expected to significantly enhance communication speeds in smart metering applications. The AMI electric meter industry in the U.S. is projected to reach USD 1.4

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billion by 2032. The adoption of AMI meters in the U.S. helps utility companies combat non-technical losses, such as power theft, by identifying irregular expenditure patterns.

This not only saves costs but also improves the overall efficiency of the power distribution system. The data provided by these meters aids utilities in better planning and managing resources, including the integration of renewable energy into the grid.

Overall, the global AMI electric meter market is on a robust growth trajectory, driven by increasing energy demand, technological advancements, and significant investments in smart infrastructure. This progress is expected to enhance energy efficiency, reduce costs, and support the sustainable development of the energy sector.

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