

Smarter Energy, Greener Planet: The Advanced Metering Infrastructure (AMI) Market Role in Sustainability

Advanced Metering Infrastructure Market Estimation Worth US\$ 52.4 Billion by 2030

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According to a new published report by Allied Market Research, the global [advanced metering infrastructure \(AMI\) market](#) size was valued at \$17.1 billion in 2020, and is projected to reach \$52.4 billion by 2030, growing at a CAGR of 12.0% from 2021 to 2030.



Advanced metering infrastructure (AMI) is a communication architecture that allows a smart utility meter with an IP address to communicate with a utility provider in an automatic, two-way manner. AMI is seen as an important part of any smart grid initiative.



Increasing usage of the Internet of Things (IoT) is driver of advanced metering infrastructure market.”

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Europe garnered the largest share of the market in 2020,

while the Asia-Pacific segment is projected to be the fastest growing segment at a CAGR of 13.1%.

The global [advanced metering infrastructure industry report](#) is consolidated in nature with a few players such as Itron, Eaton Corporation, Echelon Corporation, Siemens AG, General Electric, Cisco Systems, Inc., IBM Corporation, Dynosonic, Schneider Electric SE, and Sensus, which hold significant share of the market.

Recent advancements in the utility business are projected to open up the possibility of a wide range of collecting systems and water utilities.

Utilities are anticipated to implement dynamic pricing schemes and demand response to shift or reduce energy use to non-peak hours driven by legal and environmental objectives to save resources.

Inadequate financial incentives for utilities and the need for improvement in customer service level may hamper advanced metering infrastructure market growth.

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The goal of an AMI is to offer utility companies with real-time data about power consumption and allow customers to make informed choices about energy usage based on the price at the time of use.

On the basis of type, the global advanced metering infrastructure market is segregated into smart metering devices (electricity, gas water), solutions (meter communication infrastructure and software), and services (system integration, deployment and program consulting).

On the basis of smart metering device, the electricity segment accounted for the largest share in 2020, while the water segment is projected to grow at the highest CAGR of 14.0%.

On the basis of solution, the software segment accounted for the largest share in 2020, and is projected to grow at the highest CAGR of 12.2%.

On the basis of services, the program consulting segment accounted for the largest share in 2020, while the System Integration segment is projected to grow at the highest CAGR of 15.50%.

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AMI communications networks are driven by the need for low-bandwidth, low-cost, delay-insensitive metering. Both the network and the communications module in each meter must be as low cost as possible.

End-user of advanced metering infrastructure includes residential, commercial, and industrial. The residential segment was the major share contributor in 2020; however, the industrial segment is projected to be the fastest growing segment at a CAGR of 13.3%.

Government agencies and utilities are turning toward AMI systems as part of larger "smart grid" initiatives. For instance, the global power consumption is expected to rise by over 80% between

2012 and 2040, according to the International Energy Agency (IEA).

Impact Of Covid-19 On The Global Advanced Metering Infrastructure Market

The COVID-19 pandemic has positively influenced the market growth, as the energy & utility sector are considered essential services that have forced the sector to rethink how their operations are performed and how they engage with both their staff and their customers.

However, the pandemic impacted commercial and industrial job sites, causing load patterns to shift, as well as utilities' important role in society's power supply. It has since become every utility's struggle to ensure that uninterrupted operation and delivery continue while adhering to the necessary social distancing guidelines required safeguarding employees and customers.

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Due to the COVID-19 pandemic, transport limitations were implemented, resulting in reduced industrial production and disrupted supply chains, which affected global economic growth by a substantial proportion, severely impacting market growth.

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