

Global DC Energy Metering Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global DC Energy Metering market size was valued at US\$ 631 million in 2024 and is forecast to a readjusted size of USD 1066 million by 2031 with a CAGR of 7.9% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

DC metering refers to the measurement and monitoring of electrical parameters such as voltage, current, and power in a direct current (DC) electrical system. Unlike alternating current (AC) systems, where the current periodically reverses direction, DC systems have a unidirectional flow of current.

The DC metering market has been experiencing significant growth in recent years, driven by the increasing demand for accurate and reliable measurement of DC power in various industries. With the rising adoption of renewable energy sources such as solar and wind power, there is a growing need for advanced DC metering solutions that can accurately monitor and measure DC power generation and consumption.

One of the key factors driving the growth of the DC metering market is the increasing focus on energy efficiency and sustainability. As organizations and industries seek to reduce their carbon footprint and energy costs, the demand for precise and efficient DC metering solutions has surged. This has led to the development of innovative DC metering technologies that offer enhanced accuracy, reliability, and performance.

In recent years great effort went into improving the capacity and lifetime of batteries, but a widespread EV charging network is also a fundamental condition to allow long trips without concerns about range or charging time. Many energy providers and private companies are deploying fast chargers up to 150 kW, and there is strong interest in ultrafast chargers with power up to 500 kW per charging pile. Considering ultrafast charging stations with localized charging peak power up to megawatts and associated fast-charge energy premium rates, EV charging will become a massive energy exchange market, with the consequent need of accurate energy billing.

Currently, standard EV chargers are metered on the ac side with the drawback of no measurement of the energy lost in the ac-to-dc conversion and, consequently, billing is inaccurate for the end customer. Since 2019, new EU regulations are forcing energy providers to bill the customer only for the energy transferred to the EV, making the power conversion and distribution losses borne by the energy supplier.

Another major trend shaping the DC metering market is the integration of advanced digital technologies such as IoT (Internet of Things) and cloud-based monitoring and analytics. These technologies enable real-time monitoring, data analysis, and remote management of DC metering systems, providing valuable insights into power consumption patterns and performance optimization opportunities. This trend is expected to continue driving the growth of the DC metering market as organizations increasingly prioritize data-driven decision-making and operational efficiency.

This report is a detailed and comprehensive analysis for global DC Energy Metering market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global DC Energy Metering market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global DC Energy Metering market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global DC Energy Metering market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global DC Energy Metering market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for DC Energy Metering
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global DC Energy Metering market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Accuenergy, LEM, DZG Metering, Phoenix Contact, Isabellenhutte, Eaton, ICD, ACREL, Carlo Gavazzi, Ziegler, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

DC Energy Metering market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

DIN Rail Type

Wall-mounted Type

Market segment by Application

EV Chargers

Data Centers

Photovoltaic

Power & Grid

Others

Major players covered

Accuenergy

LEM

DZG Metering

Phoenix Contact

Isabellenhutte

Eaton

ICD

ACREL

Carlo Gavazzi

Ziegler

Ivy Metering

SATEC

AST International

Eastron Electronic

Zhejiang Yongtailong Electronic

Zhuhai Pilot Technology

Chengdu Hop Technology

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe DC Energy Metering product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of DC Energy Metering, with price, sales quantity, revenue, and global market share of DC Energy Metering from 2020 to 2025.

Chapter 3, the DC Energy Metering competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the DC Energy Metering breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and DC Energy Metering market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of DC Energy Metering.

Chapter 14 and 15, to describe DC Energy Metering sales channel, distributors, customers, research findings and conclusion.

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