

Global Electric Earthmoving Equipment Market Size Study, by Product (Dozer, Excavator, Loader, Motor Grader, Dump Truck), by Propulsion (Battery Electric Vehicle, Hybrid Electric Vehicle), by Battery Type (Lithium-ion, Lead-acid) and Regional Forecasts 2022-2032

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Abstracts

The Global Electric Earthmoving Equipment Market is valued at USD 1.98 billion in 2023 and is anticipated to grow at a remarkable CAGR of 13.7% over the forecast period 2024-2032. Electric earthmoving equipment, encompassing dozers, excavators, and loaders, presents a significant leap in construction technology, offering numerous benefits, including zero emissions at the point of use, improved air quality on construction sites, reduced noise pollution, and lower operational costs. This burgeoning market is driven by the increasing focus on sustainable construction practices, stringent government regulations aimed at reducing carbon emissions, and advancements in battery and electric motor technologies. Electric earthmoving equipment stands out for its ability to operate without emissions, thus eliminating the release of harmful pollutants and greenhouse gases during operation. This feature not only contributes to cleaner air quality on construction sites but also promotes a sustainable work environment for operators and surrounding communities. The rising number of construction projects globally and the heightened demand for eco-friendly construction solutions are key factors propelling market growth.

Governments worldwide are imposing stringent regulations to curb carbon emissions, thereby encouraging construction companies to adopt low-emission equipment. Additionally, market players are focusing on innovation and product development to enhance their offerings. For instance, LiuGong Construction Machinery N.A., LLC

showcased its LiuGong 856H-E MAX electric wheeled loader, which features advanced technologies and durability enhancements. Such initiatives are expected to drive the market forward. However, challenges such as the high initial purchase cost of electric earthmoving equipment and the need for adequate charging infrastructure, especially for large-scale projects, may hinder market growth. Despite these challenges, the long-term economic benefits, including lower operational costs and potential tax incentives, make electric earthmoving equipment an attractive investment.

The key regions considered for the Global Electric Earthmoving Equipment Market study include Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. In year 2023, North America is dominating the market. The market is experiencing significant growth, propelled by rising investments in diverse infrastructure development projects. The federal government's strong focus on constructing new infrastructure, including railroads, bridges, and tunnels, is driving the demand for electric earthmoving and material handling equipment, which are crucial for various construction site applications. Moreover, Asia Pacific is projected to registered fastest growth in the forecast period due to the increasing infrastructure development projects across various countries in the region. Manufacturers in the Asia Pacific market are addressing this demand by providing a broad array of electric loaders, excavators, and dump truck models tailored to meet the diverse construction needs in the area.

Major market players included in this report are:

Caterpillar Inc.

CNH Industrial N.V.

Doosan Corporation

Hitachi Construction Machinery Co., Ltd.

Hydrema

J C Bamford Excavators Ltd.

Komatsu Ltd.

Liebherr-International AG

Sany Heavy Industry Co., Ltd.

Volvo Construction Equipment AB

MultiOne

Hydrema

Sany Heavy Industry Co., Ltd.

Firstgreen Industries

AB Volvo

The detailed segments and sub-segment of the market are explained below:

By Product:

Dozer

Excavator

Loader

Motor Grader

Dump Truck

By Propulsion:

Battery Electric Vehicle (BEV)

Hybrid Electric Vehicle (HEV)

By Battery Type:

Lithium-ion

Lead-acid

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Rest of Latin America

Middle East & Africa

Saudi Arabia

South Africa

RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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