

Europe Granular Biochar Market Forecast to 2028 – Regional Analysis – by Product Type (Wood Source Biochar, Corn and Wheat Source Biochar, and Others) and Application (Soil Conditioner, Fertilizer and Others)

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Abstracts

The Europe granular biochar market is expected to grow from US\$ 2.10 Million in 2022 to US\$ 4.04 Million by 2028. It is estimated to grow at a CAGR of 11.6% from 2022 to 2028.

Increasing Use of Granular Biochar in Agriculture Fuels Europe Granular Biochar Market

Agriculture is one of the major areas of application for granular biochar. In recent years, the interest in using biochar in agriculture has been increasing due to its beneficial properties of this material. The application of granular biochar to temperate soil can improve a variety of soil health indicators. Soil health is the capacity of the soil to function as a living system to sustain biological productivity and maintain environmental quality. Granular biochar has the potential to retain soil nutrients such as ammonium, nitrate, and phosphorus, and this effect is most readily observed in light-textured soils. Granular biochar helps to improve soil fertility status and increase crop productivity. Further, soil degradation is a major concern in agriculture globally. Biochar is applied to degraded soils to enhance its quality and address this burgeoning problem. Granular biochar helps to improve soil quality by enhancing soil structure, increasing water retention and aggregation, decreasing acidity, improving porosity, regulating nitrogen leaching, and improving microbial properties. Granular biochar is also found to be beneficial for composting. It helps reduce greenhouse gas emissions and prevents the loss of nutrients in the compost material. It also helps to reduce the compost's ammonia losses, bulk density, and odor. These associated benefits of granular biochar

are bolstering its demand from the agriculture industry.

Europe Granular Biochar Market Overview

Granular biochar is carbon-rich and is produced by heating biomass in oxygen-free air. It is added to the soil to improve its physical and chemical qualities to increase crop production yield. The granular biochar market is expanding rapidly because of rising food demand and deteriorating soil quality due to excessive use of chemical fertilizers. Besides improving soil quality, granular biochar also offers other benefits, such as keeping carbon in the soil from the atmosphere. It has the potential to capture the greenhouse gas carbon dioxide, which is responsible for Europe warming. Granular biochar can retain nutrients and water holding capacity. Producing granular biochar generates extra energy that may be used in the mycorrhizal fungi. The granular biochar market in Europe is primarily driven by increased demand for organic farming, a rise in the requirement for biochar from the agricultural sector, and stringent environmental regulations.

Europe Granular Biochar Market Revenue and Forecast to 2028 (US\$ Million)

Europe Granular Biochar Market Segmentation

The Europe granular biochar market is segmented into product type, applications, and country.

Based on product type, the Europe granular biochar market is segmented into wood source biochar, corn and wheat source biochar, and others. The corn and wheat source biochar segment registered the largest Europe granular biochar market share in 2022. Based on application, the Europe granular biochar market is segmented into soil conditioner, fertilizer, and others. The fertilizer segment held the largest Europe granular biochar market share in 2022.

Based on country, the Europe granular biochar market is segmented into Germany, France, Italy, UK, Russia, and the Rest of Europe. The Rest of Europe dominated the Europe granular biochar market in 2022.

Advanced Renewable Technology International, Carbonis GmbH & CO. Kg, Novocarbo GmbH, and Preyag GmbH are some of the leading companies operating in the Europe granular biochar market.

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