

MHETase Market Size, Share & Trends Analysis Report By Application (Beverage Packaging Recycling, Food Packaging Recycling, PET Textile & Fiber Recycling, PET Film & Sheet Recycling, Industrial PET Scrap Recycling), By Region, And Segment Forecasts, 2026 - 2033

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Abstracts

The global MHETase market size was estimated at USD 4.5 million in 2025 and is projected to reach USD 40.3 million by 2033, growing at a CAGR of 31.7% from 2026 to 2033. The market is growing because enzymatic PET recycling can recover high-quality PET monomers without damaging the material, unlike traditional mechanical recycling.

Companies and regulators increasingly require recycled PET that is safe for food and beverage packaging, and MHETase plays a crucial role in efficiently and reliably breaking down PET intermediates into reusable components. MHETase plays a specific functional role in depolymerizing PET by converting MHET intermediates into terephthalic acid and ethylene glycol that can be reused without downcycling. This functional specificity makes MHETase commercially relevant only where enzymatic recycling systems are deployed. As pilot and early commercial plants move toward continuous operation, enzyme consumption shifts from laboratory scale to recurring industrial procurement, establishing a defined market rather than experimental demand.

The MHETase industry growth is concentrated in regions with strict recycled content mandates, brand-level sustainability commitments, and tolerance for higher input costs during early adoption. Europe and North America lead because closed-loop bottle-to-bottle and textile-to-fiber recycling require monomer purity that enzymatic systems can deliver. MHETase demand rises alongside integrated enzyme systems rather than as a

standalone commodity, tying market expansion directly to plant commissioning schedules and licensing of enzymatic recycling processes.

Future expansion depends on cost reduction through strain optimization, fermentation scale-up, and enzyme reuse efficiency rather than PET waste availability. As enzymatic recycling capacity increases, enzyme pricing gradually declines while total volume rises, shifting revenue growth from premium pricing toward higher throughput. Over time, MHETase adoption expands from packaging-focused use into textiles and films, strengthening its role as an enabling input for circular PET value chains rather than a niche biochemical product.

Global MHETase Market Report Segmentation

This report forecasts volume & revenue growth at the global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2018 to 2033. For this study, Grand View Research has segmented the global MHETase market report based on application and region:

Application Outlook (Volume, Kilotons; Revenue, USD Million, 2018 - 2033)

Beverage Packaging Recycling

Food Packaging Recycling

PET Textile & Fiber Recycling

PET Film & Sheet Recycling

Industrial PET Scrap Recycling

Regional Outlook (Volume, Kilotons; Revenue, USD Million, 2018 - 2033)

North America

U.S.

Canada

Mexico

Europe

Germany

UK

Italy

Spain

France

Asia Pacific

China

Japan

South Korea

Latin America

Brazil

Argentina

Middle East & Africa

Saudi Arabia

South Africa

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