

## **Lime Market Size, Share and Growth Analysis Report - Forecast Trends and Outlook (2025-2034)**

Market Report | 2025-08-13 | 172 pages | EMR Inc.

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### **Report description:**

The global lime market attained a volume of nearly 502.66 MMT in 2024 . The market is further expected to grow at a CAGR of 5.90% during the forecast period of 2025-2034 to reach a volume of 891.73 MMT by 2034 .

Lime refers to a white caustic alkaline material that consists of calcium oxide, generated by heating limestone and combined with water to produce a lot of heat and quicklime.

Quicklime is produced by heating limestone (which primarily consists of calcium carbonate,  $\text{CaCO}_3$ ) in a kiln at temperatures above 900C. This process, known as calcination, drives off carbon dioxide ( $\text{CO}_2$ ) from the limestone, leaving quicklime. Quicklime is highly reactive, especially with water, where it produces heat in a process called slaking.

Hydrated lime is formed by adding water to quicklime. This hydration reaction is exothermic and results in a fine, dry powder. Hydrated lime is less caustic than quicklime and is commonly used in a variety of applications. Agricultural lime is primarily composed of crushed limestone and is used to increase the pH of acidic soil, making it more suitable for plant growth. It also supplies calcium and magnesium to plants.

Lime Industry Segmentation

"Lime Market Report and Forecast 2025-2034" offers a detailed analysis of the market based on the following segments:

The various types of the product are:

- Quick Lime
- Hydrated Lime

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- Others

On the basis of types, the quicklime segment is anticipated to witness robust growth during the forecast period on account of the surging usage of quicklime in the production of iron and steel, treatment of water and flue gases, paper and pulp production, and in the mining sector. The surging demand for quicklime in the process of metal extraction is further boosting the lime market demand globally.

The essential utilisation of quicklime in the steel sector can be attributed to quicklime's use in the basic oxygen steelmaking (BOS) process. Moreover, the increased usage of quicklime in food additives is further propelling the market demand for lime. There is a rise in popularity of quicklime in the food sector as a flour treatment agent, leavener mattress maker, and as an acid regulator.

The product is used in the following sectors:

- Metallurgical Applications
- Environmental
- Chemical and Industrial
- Construction Applications

Metallurgical applications hold the largest lime market share, accounting for 37% of the product's applications globally. Lime plays a crucial role in metallurgical processes, particularly in the steelmaking and non-ferrous metal refining industries. In the production of steel, lime is used as a flux to remove impurities like phosphorus and sulphur from the molten iron ore. When lime reacts with these impurities, it forms slag, which is less dense than the molten metal and can be easily separated.

Lime is also used in the refining of non-ferrous metals such as copper and aluminium. It helps in removing impurities and refining the final product. It is further employed to control the pH levels in various metallurgical processes. This is important in processes where the pH needs to be maintained at a specific level for the efficient extraction of metals.

In both iron and steelmaking, lime helps in forming slag, which entraps waste products and allows for their easy removal. This slag can also be processed further to recover certain valuable materials.

The report also covers the major regional markets for lime, which are as follows:

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

#### Lime Market Analysis

The market growth can be attributed to various factors, including lime's diverse applications across multiple industries. Lime is extensively used as a key ingredient in various industries. For instance, in the food processing sector, it is used in certain pickles and juice processing. Its unique flavour makes it a demanded ingredient in beverages and confectionery products. Additionally, the lime rind, which contains the chemical compound limonene, is widely used in the oil and cosmetics industries.

Key applications of lime include metallurgical applications, environmental, chemical and industrial, and construction applications. In the metallurgical sector, lime is heavily demanded for steel manufacturing, where it helps in the separation of impurities as

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slag, thereby enhancing metal performance. In environmental applications, hydrated lime is employed in flue gas treatment processes across various industries.

Growth of the steel sector is positively influencing the market growth

The growing steel sector is also driving the market growth. One of the crucial lime market trends is the application of hydrated lime in providing steel products protection from corrosion as well as impurities. It is like a coating on the products, which helps to neutralise the acid of the slag. Thus, the growth in the steel sector is directly affecting the market growth of the product. Its increasing use in the metallurgical application while producing steel is driving the market growth of the lime further. The product is also used in the manufacturing of aluminium and magnesium. It has wide applications in the refining of metal ores and non-ferrous metals like gold, silver, and aluminium, among others.

The market for steel is being driven by the growing construction sector across the globe. The construction sector is rapidly growing, especially in developing economies, like India and China. The growth is aided by the growing population and the rising economies of the countries. These regions are witnessing growing construction activities to cater to the housing demand of the population. Recent policies in the United States regarding anti-dumping tariffs and the new regulations in China are affecting the steel sector, which would also support the market growth of lime.

Lhoist Group, one of the key players, is also a leading company of lime as well as minerals. The company holds over a 10% share in lime production, globally. It produces and distributes the product across various regions. It is the leading company due to the excellent quality of its product, which is liked by consumers worldwide. It serves industries like steel, environmental, building and civil engineering, pulp and paper, and agriculture industries.

#### Regional Insights

The Asia Pacific leads the market for lime, supported by growing construction sector and improving production capabilities of domestic manufacturers

The Asia Pacific is the leading region in terms of production. The region is expected to continue having a healthy growth rate in the coming years as well. It is among the fastest-growing markets for lime. The market in the region is boosted by the rapidly growing construction sector in the region, especially in China and India. The booming construction sector is supporting the demand growth for hydrated lime.

The region also has significant demand growth for the steel sector, which in turn is boosting the lime market growth. The increasing investments by the Chinese government, as well as private firms in the construction and infrastructure industries, have boosted the demand for the product in the Asia Pacific. The growing demand for mineral production in the region is also expected to drive the demand for the product. China is likely to be the largest lime producer as well as consumer in the region in the coming years.

Environmental regulations in China are also acting as a major driver for the market. The stringent regulations by the Chinese government regarding the emissions by power plants and wastewater treatment plants are driving the market growth for the product further. Other major factors driving the demand for the product are flue gas treatment, chemicals, and the growing automobile production.

The market in North America is characterised by its steady growth and is influenced by various factors. Lime is used across multiple sectors in North America, including construction, environmental, metallurgical, and chemical industries. In construction, it's used for soil stabilisation, mortar, and plaster. In the environmental sector, lime aids in water treatment processes and flue

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gas treatment.

The focus on infrastructure development, particularly in the US market, is expected to drive the demand for lime in construction-related applications.

The high-maturity markets for lime include North America and Europe. The markets with high growth potential include countries like South America, the Middle East and Africa, and the Asia Pacific. North America, especially the United States, is involved in the export and import of lime, which influences market dynamics in the region.

#### Key Players in the Lime Market

The report gives a detailed analysis of the following key players in the global lime market, covering their competitive landscape, capacity, and latest developments like mergers, acquisitions, and investments, expansions of capacity, and plant turnarounds:

- Lhoist Group
- Carmeuse Group
- Graymont Limited
- Mississippi Lime Company
- Nordkalk Corporation
- Sigma Minerals Limited
- Ognyanovo K JSC
- Others

The comprehensive EMR report provides an in-depth assessment of the market based on Porter's five forces model, along with a SWOT analysis. The report also gives the price and trade data analysis of the market.

#### More Insights On

Canada Lime Market

Australia Lime Market

Lime Market Report Snapshots

Lime Companies

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