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Recycled Asphalt Market Forecasts to 2030 – Global Analysis By Product Type (Recycled Asphalt Pavement (RAP), Recycled Asphalt Shingles (RAS), Recycled Asphalt Concrete (RAC), Cold In-Place Recycling (CIR), Hot In-Place Recycling (HIR) and Other Product Types), Type, Recycling Process, Application, End User and By Geography

https://marketpublishers.com/r/R45020CA661CEN.html
Date: February 2025
Pages: 150
Price: US$ 4,150.00 (Single User License)
ID: R45020CA661CEN

Abstracts

According to Stratistics MRC, the Global Recycled Asphalt Market is accounted for $7.6 billion in 2024 and is expected to reach $11.2 billion by 2030 growing at a CAGR of 6.8% during the forecast period. Recycled asphalt, also known as reclaimed asphalt pavement (RAP), is material derived from the milling or removal of existing asphalt surfaces, such as roads or parking lots. The asphalt is processed by crushing, heating, and blending it with new asphalt binder to create a material suitable for reuse in construction projects. This sustainable practice reduces waste and conserves natural resources, as it reintroduces old asphalt into the production of new pavement. Recycled asphalt offers a cost-effective and environmentally friendly alternative to using entirely new materials in road construction and maintenance.

Market Dynamics:

Driver:

Increasing urbanization and infrastructure development

Increasing urbanization and rapid infrastructure development are driving the demand for recycled asphalt in construction projects. As cities expand and road networks grow, the

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need for cost-effective, sustainable materials is rising. Recycled asphalt provides an eco-friendly solution, reducing waste and the demand for virgin materials. Its use in road resurfacing and new construction supports both environmental goals and economic efficiency, making it a popular choice for modern infrastructure development.

Restraint:

Lack of standardized quality control

The lack of standardized quality control in the market can lead to inconsistent product performance, affecting the durability and safety of roads. Without clear guidelines, variations in material composition, processing methods, and contamination levels may result in subpar asphalt, reducing its lifespan and increasing maintenance costs. This inconsistency can also undermine the confidence of contractors and government bodies in using recycled materials, limiting market growth and adoption.

Opportunity:

Government regulations & policies

Government regulations and policies play a crucial role in the growth of the market by promoting sustainability and reducing environmental impact. Many countries implement standards for the use of reclaimed asphalt pavement (RAP) in road construction, encouraging its recycling and reuse. Regulations often incentivize the adoption of eco-friendly practices, including tax breaks or grants for using recycled materials, which boosts the demand for recycled asphalt and supports environmental objectives.

Threat:

Shortage of trained professionals

The lack of a skilled workforce in the market can hinder the proper processing and application of reclaimed materials. Inexperienced workers may struggle with efficient asphalt recycling techniques, leading to inconsistent quality and suboptimal performance in road construction. This can result in higher maintenance costs, lower durability, and reduced safety of infrastructure projects. Additionally, it limits innovation and the adoption of advanced technologies within the industry.

Covid-19 Impact:

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The COVID-19 pandemic significantly impacted the market by disrupting supply chains, delaying construction projects, and reducing demand for infrastructure development. Lockdowns and labor shortages hindered recycling operations, while budget cuts in government infrastructure spending further slowed market growth. However, the crisis also highlighted the importance of sustainable materials, and as economies recover, the demand for cost-effective, eco-friendly solutions like recycled asphalt is expected to rise.

The new asphalt shingles segment is expected to be the largest during the forecast period

The new asphalt shingles segment is anticipated to account for the largest market share during the projection period. These shingles, often removed during roof replacements, contain a high percentage of asphalt that can be recycled and reused in road construction. By processing old shingles into reclaimed asphalt pavement (RAP), the construction industry reduces waste, conserves resources, and lowers production costs, all while supporting eco-friendly and cost-effective infrastructure development.

The municipal segment is expected to have the highest CAGR during the forecast period

The municipal segment is expected to have the highest CAGR during the extrapolated period driving demand through large-scale infrastructure projects. Local governments often promote the use of recycled asphalt to reduce environmental impact and lower construction costs. By implementing policies that encourage sustainable practices, municipalities help boost the adoption of recycled materials, supporting the circular economy and contributing to the development of more durable and eco-friendly infrastructure.

Region with largest share:

North America region is anticipated to account for the largest market share during the forecast period. Governments in the U.S. and Canada promote the use of recycled asphalt through regulations and incentives aimed at reducing waste and conserving natural resources. This market growth is further supported by ongoing infrastructure projects, including road repairs and resurfacing, as well as advancements in recycling technology, making recycled asphalt an attractive option for construction.

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Region with highest CAGR:

Asia Pacific is expected to register the highest growth rate over the forecast period due to increasing urbanization and road development projects. Recycled asphalt is often cheaper than new asphalt, making it an attractive option for governments and construction companies focused on budget management, especially in emerging markets. Additionally, with rapid urbanization and infrastructure expansion in countries like China and India, demand for construction materials, including recycled asphalt, has increased.

Key players in the market

Some of the key players in Recycled Asphalt market include Mosaic Materials, Asphalt Paving Systems, Inc., Sustainable Asphalt Solutions, Wirtgen Group, Lone Star Paving, Owens Corning, Pavement Recycling System Inc, The Kraemer Company LLC, Bodean Company, CertainTeed, Downer Group, GAF Materials, Cherry Companies, Martin Marietta Materials and Rogers Group.

Key Developments:

In October 2023, Road Science, a Downer-owned entity, has announced a landmark partnership with the New Plymouth District Council (NPDC) for the launch of the first full-scale trial of Bio Bind. Bio Bind is a cutting-edge, low carbon bitumen replacement, which aims to revolutionise road construction by offering a sustainable, petroleum-free alternative.

Product Types Covered:

- Recycled Asphalt Pavement (RAP)
- Recycled Asphalt Shingles (RAS)
- Recycled Asphalt Concrete (RAC)
- Cold In-Place Recycling (CIR)
- Hot In-Place Recycling (HIR)
- Other Product Types

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Types Covered:

- Black
- White
- Brown
- Gray

Recycling Processes Covered:

- Hot In-Place Recycling
- Cold In-Place Recycling
- Off-Site Recycling

Applications Covered:

- Energy Recovery
- New Asphalt Shingles
- Patch Material
- Hot-mix Asphalt
- Temporary Driveways & Roads
- Road Aggregate for Unpaved Roadways
- Interlocking Bricks
- Other Applications

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End Users Covered:

- Industry
- Commercial
- Municipal
- Other End Users

Regions Covered:

- North America
  - US
  - Canada
  - Mexico
- Europe
  - Germany
  - UK
  - Italy
  - France
  - Spain
  - Rest of Europe
- Asia Pacific

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- Japan
- China
- India
- Australia
- New Zealand
- South Korea
- Rest of Asia Pacific

South America

- Argentina
- Brazil
- Chile
- Rest of South America

Middle East & Africa

- Saudi Arabia
- UAE
- Qatar
- South Africa
- Rest of Middle East & Africa

What our report offers:
- Market share assessments for the regional and country-level segments

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- Strategic recommendations for the new entrants
- Covers Market data for the years 2022, 2023, 2024, 2026, and 2030
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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