

Panelized Modular Building Systems Market to Hit \$183.3B by 2031 Driven by Speed and Sustainability | DataM Intelligence

Panelized modular building systems market grows at 6.02% CAGR, fueled by demand for fast, eco-friendly construction solutions.

NEW YORK, NY, UNITED STATES, June 12, 2025 /EINPresswire.com/ -- Market Overview:

The [Panelized Modular Building Systems Market](#) is gaining momentum due to its ability to streamline construction, reduce material waste, and improve efficiency. These systems involve prefabricated panels manufactured off-site and assembled

at the construction location. With the rising demand for faster, cost-effective, and sustainable building methods, panelized modular construction is becoming a preferred choice across residential, commercial, and industrial sectors. The market was valued at US\$ 114.84 billion in 2023 and is projected to reach US\$ 183.30 billion by 2031, growing at a CAGR of 6.02% during the forecast period (2024–2031).

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Panelized modular construction is not just a trend it's a transformative leap toward faster, greener, and smarter infrastructure development across the globe”

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Market Drivers are :

Rapid urbanization and population growth: Rising demand for affordable housing and infrastructure is driving modular construction.



Sustainability push: The need for eco-friendly construction methods with minimal environmental

impact is accelerating market adoption.

Labor shortages in construction: Panelized systems reduce the dependency on skilled labor by minimizing on-site work.

Reduced construction time and cost: Prefabrication allows for faster project completion and better cost control.

Government support and green building regulations: Incentives and policies favoring energy-efficient building solutions are boosting market growth.

Market Key Players are :

DS Smith PLC

International Paper

Amcor plc

WestRock Company

Mondi Group

Rengo Co. Ltd.

Stora Enso

Billerud

Smurfit Kappa Group

Nippon Paper Industries Ltd.

Market Segmentation:

By Type: Wall Panels, Floor Panels, Roof Panels, and Others

By Application: Industrial Buildings , Commercial Buildings, and Residential Buildings

By Material: Wood, Concrete, Metal, and Composites

By Region: North America, Europe, Asia-Pacific, South America, Europe, Middle East & Africa

Latest News of USA :-

In 2024, WestRock Company joined forces with a modular housing startup based in California to supply fiber-based wall panels designed for affordable housing initiatives. At the same time, DS Smith ramped up its operations in the U.S. to better serve the rising need for sustainable prefabricated construction materials, particularly in the commercial real estate sector.

Latest News of Japan :-

Japan's Nippon Paper Industries launched a high-durability panel made from recycled pulp materials, aimed at modular school construction projects across urban regions. Additionally, Rengo Co. Ltd. collaborated with a robotics firm to automate the assembly of panelized modular units, enhancing efficiency in Japan's construction sector.

Key Developments are :

Arcor plc developed lightweight insulated panels with improved fire resistance and energy efficiency.

Stora Enso unveiled its third cross-laminated timber (CLT) production unit to meet European demand for modular wood buildings.

Smurfit Kappa deployed AI-powered design tools to enhance customization and efficiency in modular panel layouts.

Billerud expanded into Southeast Asia with a focus on sustainable, fast-deployable housing solutions.

International Paper integrated circular economy principles into their modular construction division, enhancing recyclability and reducing waste.

Conclusion:

The panelized modular building systems market is set for continued growth as construction paradigms shift toward speed, sustainability, and innovation. With advances in material science, automation, and prefabrication techniques, this market will play a crucial role in shaping the future of global infrastructure. Stakeholders who invest in R&D and prioritize eco-friendly practices will likely hold a competitive edge in this dynamic industry.

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