

North America Pre-engineered Steel Building Market to Reach USD 7.5 Bn by 2035, Expanding at a CAGR of 5.7% | TMR

Rapid urbanization and demand for cost-efficient construction solutions are driving the adoption of pre-engineered steel buildings across North America.

WILMINGTON, DE, UNITED STATES,

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EINPresswire.com/ -- The [North America pre-engineered steel building market](#) was valued at US\$ 4.0 billion in

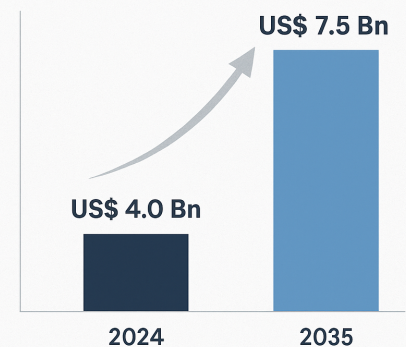
2024 and is projected to expand at a CAGR of 5.7% between 2025 and 2035, reaching US\$ 7.5 billion by the end of 2035. Growing demand for affordable housing, expansion of logistics and

industrial facilities, and favorable government policies promoting sustainable and energy-efficient construction are key factors propelling the market forward.

North America Pre-engineered Steel Building Market Outlook 2035

North America pre-engineered steel building industry was valued at **US\$ 4.0 Bn** in 2023

North America pre-engineered steel building market is estimated to grow at a CAGR of 5.7% from 2025 to 2035 and reach **US\$ 7.5 Bn** by the end of 2035



North America Pre-engineered Steel Building



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Transparency Market Research

Pre-engineered steel buildings (PESBs) are increasingly being recognized as a viable alternative to traditional construction methods due to their speed, cost-efficiency, durability, and sustainability. Designed with prefabricated steel components manufactured off-site and assembled on-site, PESBs offer significant reductions in construction timelines and costs, while also minimizing waste.

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According to analysts at Transparency Market Research, government programs aimed at energy conservation, disaster resilience, and building code compliance are encouraging adoption of pre-engineered steel structures. Developers and contractors are increasingly attracted to PESBs for their recyclability, strength-to-weight ratio, and compatibility with digital construction technologies such as Building Information Modeling (BIM).

Tax credits, subsidies, and grants provided by governments in the U.S. and Canada further enhance the market outlook, while private investments in warehousing, logistics, and data centers continue to create new opportunities for manufacturers and construction firms in the region.

Key Drivers of Market Growth

1. Speedy Construction and Cost Efficiency

Pre-engineered steel buildings are typically 20%–30% more cost-effective than conventional construction methods, as components are standardized, mass-produced, and require less labor during assembly. Their accelerated construction timelines make them particularly appealing for industrial facilities, warehouses, and commercial projects where time-to-market is critical. The high strength-to-weight ratio of steel ensures large, open interior spaces—essential for logistics and production.

2. Surge in Focus on Sustainable and Resilient Infrastructure

Sustainability has become a defining factor in construction. PESBs utilize recycled steel, generate minimal waste, and can incorporate energy-efficient features such as passive ventilation, natural lighting, and insulation systems. This aligns with environmental goals to lower greenhouse gas emissions and operational costs. Government initiatives such as the National Building Code of Canada and U.S. green building regulations are directly boosting demand.

3. Supportive Government Policies and Incentives

North American governments are offering grants, subsidies, and tax credits to promote adoption of energy-efficient and low-impact building methods. These incentives make PESBs an attractive option for both private and public sector projects, driving demand across industrial, commercial, and agricultural applications.

Segment Analysis

By Frame Type

Clear-span, Multi-span, Lean-to, Multi-gable, Single Slope, Others (Curved Rafter, etc.)

By Application

Industrial: Largest and fastest-growing segment, encompassing warehouses, manufacturing plants, workshops, refrigerated houses, and logistics centers. E-commerce expansion and supply chain growth are fueling demand.

Commercial: Includes offices, shopping malls, exhibition centers, sports facilities, and showrooms. PESBs are preferred for their cost-efficiency and flexibility.

Agriculture: Covers cattle and poultry farms, greenhouse farms, and organic fertilizer facilities, where lightweight yet durable structures are required.

Regional Insights

United States:

The U.S. dominates the North America pre-engineered steel building market due to a robust construction industry, rapid adoption of BIM, automation, and modular technologies, and a strong push toward sustainable building solutions. The need for modern warehousing, industrial production facilities, and energy-efficient commercial spaces is fueling demand.

Canada:

In Canada, favorable government initiatives, including green building incentives and energy efficiency programs, are creating opportunities for wider PESB adoption, particularly in commercial and institutional sectors.

Both countries are prioritizing infrastructure modernization, further driving uptake of PESBs in industrial, commercial, and agricultural applications.

Key Players and Industry Leaders

Prominent companies in the North America pre-engineered steel building market include:

Al Jaber Steel Co.

Al Mana Group

FRAMECAD Limited

Scottsdale Construction Systems Ltd.

The Steel Network (TSN)

Aegis Metal Framing LLC

ClarkDietrich Building Systems

JFE Steel Corporation

Nippon Steel Corporation

ArcelorMittal

These companies are actively investing in digital design technologies, modular building innovations, and sustainable materials to enhance competitiveness. Strategic partnerships, acquisitions, and new product developments are shaping the market landscape.

Recent Developments

Nippon Steel (June 2025): Completed its acquisition of U.S. Steel, strengthening competitiveness through advanced technology integration and investments in U.S. manufacturing.

Fleming Construction Group (February 2024): Acquired Program Accounts and Construction Services divisions of BlueScope Construction, expanding its presence in the U.S. and enhancing capabilities in the rapidly growing data center construction market.

Opportunities and Challenges

Opportunities

Rising demand for warehousing and logistics infrastructure

Integration of renewable energy technologies into PESB designs

Growing adoption of BIM and smart construction technologies

Expansion in sustainable building projects across North America

Challenges

Volatility in raw material prices (steel)

Initial capital investment costs

Competition from traditional concrete and timber-based construction methods

Market Trends

Integration of BIM and Digital Design Tools: Enhancing accuracy, customization, and efficiency in PESB projects.

Sustainable Construction Materials: Increasing focus on recyclability and reduced carbon footprint.

Adoption in Data Centers and High-Tech Facilities: Rising demand for durable, scalable, and energy-efficient buildings.

Customization and Modular Flexibility: Growing trend toward modular PESBs tailored to industry-specific needs.

Future Outlook

The North America pre-engineered steel building market is expected to experience sustained growth through 2035, supported by:

Rising demand for affordable, scalable, and energy-efficient construction

Government incentives for green building practices

Expansion of e-commerce and logistics sectors

Wider adoption of advanced design and construction technologies

With sustainability and speed as its core strengths, PESBs are positioned to play a central role in shaping the future of North America's construction industry.

Why Buy This Report?

In-depth market size forecasts through 2035

Comprehensive analysis of key drivers, restraints, and opportunities

Segmentation by frame type, application, and region

Profiles of major market players and competitive landscape insights

Coverage of latest technological trends and industry developments

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