

Busbar Trunking System Market Forecast: 6.5% CAGR Leading to US\$ 16.9 Billion by 2034 - Transparency Market Research

Busbar Trunking System Market to Reach US\$ 16.9 Bn by 2034, Growing at a 6.5% CAGR from US\$ 8.4 Bn in 2023

WILMINGTON, DE, UNITED STATES, December 18, 2024 /EINPresswire.com/ -- The [busbar trunking system \(BBT\) market](#) is poised for significant growth, with its global valuation of US\$ 8.4 billion in 2023 expected to nearly double to US\$ 16.9 billion by 2034, representing a compound annual growth rate (CAGR) of 6.5% from 2024 to 2034. This surge is driven by the increasing demand for flexible, reliable, and sustainable electrical distribution systems.



Busbar Trunking System Market Outlook 2034: Valued at US\$ 8.4 Bn in 2023, the market is estimated to grow at a CAGR of 6.5%, reaching US\$ 16.9 Bn by 2034"

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BBTs offer numerous advantages, including reduced installation time, cost savings, and enhanced safety, making them ideal for diverse industrial, commercial, and residential applications. Their growing adoption, fueled by

advancements in renewable energy and modernization of power grids, is shaping the market landscape.

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Analyst Viewpoint

Analysts attribute the market's expansion to two key trends:

1. **Increased Focus on Reliability and Flexibility:** Busbar trunking systems offer a streamlined solution for electrical distribution, significantly reducing installation time and enabling easy modifications.
2. **Sustainability in Energy Systems:** The rising emphasis on renewable energy adoption and grid

modernization has highlighted BBTs as a resource-efficient, recyclable alternative to traditional cable systems.

Key players in the market are actively innovating to develop fire-retardant, insulated, and environmentally sustainable products, ensuring alignment with global energy transition goals.

Market Drivers

1. Rise in Demand for Flexible and Reliable Electrical Distribution Systems

The unique design of busbar trunking systems allows them to replace traditional power cables and distribution boards in various settings. Key advantages include:

- **Quick Installation:** BBTs require significantly less time to install compared to cable systems, reducing labor and associated costs.
- **Flexibility in Design:** Tap-off box outlets in BBTs allow easy modifications, catering to evolving energy needs in industries such as solar power plants, hospitals, shopping malls, and more.
- **Enhanced Protection:** Integrated protective devices ensure high safety levels, mitigating risks related to faults or overloads.

This reliability and efficiency are critical for infrastructure-intensive sectors, where operational disruptions can lead to significant economic losses.

2. Sustainability in Power Generation and Consumption

With governments worldwide emphasizing sustainability, renewable energy investments are driving the demand for efficient power distribution systems like BBTs.

- According to the International Energy Agency (IEA), renewable electricity capacity additions in 2023 reached an estimated 507 GW, a nearly 50% increase from 2022.
- BBTs align with this trend by providing energy-efficient solutions that complement distributed



Busbar Trunking System Market

solar and wind power generation systems.

Their recyclability and resource-saving attributes further enhance their appeal in the shift toward sustainable energy practices.

Market Trends

1. Modernizing Power Infrastructure

Countries across the globe are investing heavily in modernizing electricity grids to meet the demands of renewable energy integration. For instance:

- Europe: In March 2024, E.ON announced an investment of €42 billion to upgrade the region's energy infrastructure from 2024 to 2028.
- India: Solar energy capacity in the country has increased by 30 times in the last decade, standing at 82.63 GW as of April 2024. This rapid growth underpins the demand for robust electrical distribution systems such as BBTs.

2. Shift Toward Renewable Energy

BBTs play a pivotal role in the energy transition by facilitating efficient power distribution in renewable energy systems. Their compatibility with bidirectional energy flows and distributed generation systems ensures their continued adoption in future power grids.

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Regional Analysis

Asia Pacific: Dominant Market

Asia Pacific held the largest share of the busbar trunking system market in 2023, driven by:

- Renewable Energy Growth: The region's emphasis on clean energy, particularly in countries like India and China, is a significant factor. India's long-term LNG contracts and growing solar capacity exemplify this trend.
- Urbanization and Industrialization: Rapid infrastructure development in the region necessitates reliable and efficient power distribution systems.

Europe: Strong Investment in Grid Modernization

In Europe, the modernization of energy infrastructure is a key growth driver. Government initiatives and private sector investments are accelerating the adoption of advanced electrical distribution systems such as BBTs.

North America: Advancing Energy Technologies

The North American market benefits from technological advancements in power distribution and increasing adoption of renewable energy. Additionally, rising investments in the electrification of transport and industry bolster market growth.

Competitive Landscape

Key Players

Prominent companies in the busbar trunking system market include:

- ABB
- Eaton
- Schneider Electric
- Larsen & Toubro Limited
- Legrand
- Godrej & Boyce Mfg. Co. Ltd.
- EAE Group

These players are focusing on innovations such as fire-retardant insulation, high electrical efficiency, and durable designs to strengthen their market presence.

Recent Developments

- In April 2024, ABB invested in GridBeyond, an AI-driven energy management company, to optimize distributed energy resources.
- In March 2024, Eaton secured two grants in the Czech Republic to develop advanced power distribution units and hydrogen fuel cell systems, reflecting its commitment to sustainability.

Market Segmentation

By Material

- Copper: Known for its superior conductivity, copper is widely used in high-performance BBT systems.
- Aluminum: Offers a lightweight and cost-effective alternative to copper, suitable for specific applications.

By Insulation Type

- Compact Air: Utilizes air for insulation, increasing busbar size.

- Sandwich: Features individually insulated conductors, offering a more compact design.
- Cast Resin: Ideal for harsh outdoor environments, such as chemical plants and tunnels.

By Power

- Low Voltage
- Medium Voltage
- High Voltage

By End-use

- Industrial: Factories, manufacturing units, and process industries.
- Commercial: Shopping malls, office buildings, and hospitals.
- Residential: Large housing complexes and smart cities.
- Transportation: Airports, railways, and metro stations.

Conclusion

The busbar trunking system market is on a robust growth trajectory, driven by advancements in renewable energy, grid modernization, and the need for efficient power distribution systems. The market's ability to deliver sustainable and reliable solutions positions it as a vital component in the global energy transition.

As industries and governments prioritize sustainability and infrastructure development, BBT systems will play a critical role in shaping the future of electrical distribution. With innovations from key players and increased investments, the market is set to witness transformative growth in the coming decade.

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