

# Temporary Power Market Set to Hit \$16.7 Billion by 2033 Amid Surging Demand Across Construction and Events

□ *Global Temporary Power Market Forecasts 10.2% CAGR Growth Through 2033, Fueled by Asia-Pacific Expansion*

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The global [temporary power market](#) is experiencing a significant growth trajectory. According to a recent report by Allied Market Research, the market was valued at \$6.4 billion in 2023 and is projected to reach \$16.7 billion by 2033, growing at a remarkable CAGR of 10.2% during the forecast period. This growth is largely attributed to rising energy needs in off-grid areas, infrastructure development, and the booming events industry.



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The global temporary power market is expected to grow at a CAGR of 10.2%, reaching \$16.7 billion by 2033, driven by rising construction and events.”

*Allied Market Research*

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What is Temporary Power?

Temporary power refers to the supply of electricity for short-term use, especially in scenarios where permanent power infrastructure is unavailable or under maintenance. This includes [mobile generators](#), electrical panels, cabling,

and support equipment—often deployed in construction zones, mining operations, live events, and emergency response activities. These systems are valued for their flexibility, portability, and reliability.

Driving Forces Behind Market Growth

□□ Surge in Construction Activities

One of the most critical sectors fueling the temporary power market is construction. Many job sites are in remote locations or areas lacking permanent electrical infrastructure. Temporary power ensures that vital equipment—cranes, welding tools, lighting, and HVAC systems—can operate uninterrupted. For large-scale construction projects, especially those operating around the clock, access to stable power is non-negotiable. Without reliable energy, project delays and increased costs are inevitable.

#### ▣ Growing Demand in the Events & Entertainment Industry

From international music tours to cultural festivals and sporting events, the entertainment sector relies heavily on temporary power solutions. For example, Coldplay's global tour spanning 2022 to 2025 attracted over 10.9 million attendees and grossed \$1.2 billion. Events of such scale require dependable energy for sound systems, lighting rigs, food stalls, and sanitation facilities. The ability to deploy mobile power quickly and efficiently is crucial to avoid disruptions and ensure event success.

#### ▣ Rise in Emergency Backup Power Needs

Natural disasters, grid failures, and infrastructure upgrades frequently lead to sudden power outages. In such instances, temporary power systems act as emergency backups for hospitals, data centers, government services, and residential areas. As global climate events increase in frequency, the demand for these solutions is only expected to rise.

#### Market Challenges

Despite the optimistic outlook, the industry is not without its hurdles. The high initial investment required for rental companies to procure [advanced generators](#), transformers, and battery storage solutions can be a barrier to entry. These costs can be particularly restrictive for small and medium enterprises attempting to expand into the temporary power segment. Additionally, ongoing maintenance and logistical costs further affect profitability.

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#### Segment Insights

##### ▣ By Power Source: Diesel Leads, But Gas Gains Traction

In 2023, diesel generators dominated the market due to their widespread availability and high energy output. However, the gas-powered segment is projected to be the fastest growing, with a CAGR of 10.6% through 2033. Gas-based systems offer lower emissions, cleaner combustion, and consistent fuel supply, making them an eco-friendlier choice—especially in urban and

regulatory-sensitive environments.

## □□ By End Use: Mining Sector on the Rise

While utilities held the largest share in 2023, the mining industry is expected to register the fastest growth (CAGR 11.1%). Mining operations often take place in isolated areas where grid access is limited. Temporary power is vital for exploration, excavation, ventilation, and worker accommodations. As global demand for minerals and metals rises, especially for green technologies like EVs and batteries, power support for mining projects becomes increasingly critical.

## Regional Overview

### □ Asia-Pacific: The Fastest-Growing Region

Asia-Pacific is expected to witness the highest CAGR of 9.7% during the forecast period. Countries like India, China, and Southeast Asian nations are experiencing rapid urbanization and industrialization, leading to increased demand for reliable yet flexible power sources. Infrastructure projects such as roads, airports, and high-speed rail require robust temporary power systems to ensure timely execution. Seasonal issues like monsoon-related outages also contribute to the market's expansion in this region.

## Competitive Landscape

Leading players in the global temporary power market include:

Aggreko

APR Energy

Sunbelt Rentals

Herc Rentals Inc.

Power Temp Systems Inc.

Trinity Power

United Site Services Inc.

ALLIED POWER AND CONTROL

Valid Manufacturing Ltd.

## PowerPlus

These companies are investing in fleet expansion, eco-friendly fuel technologies, and strategic partnerships to strengthen their global footprints.

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## Conclusion □

The temporary power market is no longer a niche segment—it's an essential part of modern infrastructure development and event management. With robust growth projected through 2033, driven by construction, mining, entertainment, and emergency services, the industry is set to play a crucial role in bridging the gap between temporary demand and permanent solutions. While challenges such as high capital costs remain, technological innovations and regional demand—especially in Asia-Pacific—are expected to drive sustained growth and market diversification in the coming years.

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Pawan Kumar, the CEO of Allied Market Research, is leading the organization toward providing high-quality data and insights. We are in professional corporate relations with various companies and this helps us in digging out market data that helps us generate accurate research data tables and confirms utmost accuracy in our market forecasting. Each and every data presented in the reports published by us is extracted through primary interviews with top officials from leading companies of domain concerned. Our secondary data procurement methodology includes deep online and offline research and discussion with knowledgeable professionals and analysts in the industry.

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