

Temporary Power Market Statistics to Exceed \$16.7 Billion by 2033, Growing at a CAGR of 10.2%

□ *Global Temporary Power Industry Set for Strong Expansion Through 2033 Amid Infrastructure Boom*

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According to a recent report by Allied Market Research, the global [temporary power market](#) size was valued at \$6.4

billion in 2023 and is projected to reach \$16.7 billion by 2033, expanding at a CAGR of 10.2% from 2024 to 2033. Rising demand from construction projects, large-scale events, and mining operations, coupled with the need for reliable backup energy, is driving this growth.

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Temporary power market to reach \$16.7 Bn by 2033, driven by construction growth, emergency power needs, remote operations, and industrial expansion.”

Allied Market Research

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The rapid growth of construction activities, large-scale infrastructure projects, remote industrial operations, and rising frequency of grid outages are major factors driving demand for temporary power solutions. These systems provide reliable and flexible electricity supply during peak loads, emergencies, maintenance shutdowns, and events.

Diesel and [gas generator](#) systems continue to dominate the market; however, hybrid temporary power systems integrating renewable energy and battery storage are gaining traction due to lower emissions and improved cost efficiency. Industries such as oil & gas, mining, utilities, manufacturing, and outdoor events are among the leading end users.

Asia-Pacific and the Middle East are expected to witness significant growth, supported by



expanding industrial activities, urban development, and increased energy reliability needs.

As energy transition intensifies, temporary power providers are focusing on cleaner power solutions, digital monitoring, and scalable systems to support sustainable and uninterrupted power supply.

Regional Outlook

Asia-Pacific is forecasted to grow at 9.7% CAGR through 2033. Countries like India, China, and Japan are major adopters of temporary power due to frequent power disruptions, seasonal outages, and the rise in infrastructure development.

In India, temporary power is critical during the monsoon season to keep businesses operational.

Southeast Asia leverages mobile generators for road, bridge, and commercial building construction.

Key Insights from the Report

Diesel remains the dominant fuel source in 2023.

Mining is the fastest-growing end-use sector.

Asia-Pacific leads in market growth potential due to rapid industrialization and infrastructure projects.

Understanding Temporary Power

Temporary power refers to short-term electricity supply solutions designed for situations where permanent infrastructure is unavailable, under maintenance, or impractical. This includes [portable generators](#), electrical panels, cables, and other essential equipment to provide power for days, weeks, or months.

These systems are flexible, portable, and efficient, ensuring a safe and stable electricity supply across industries such as construction, events, mining, oil & gas, and utilities.

Construction Industry: A Core Market Driver

Construction sites are often located in remote areas or in regions without sufficient grid power. Temporary power solutions ensure that machinery such as cranes, welding equipment, and lighting systems operate without interruption.

Portable generators keep projects running at night through temporary lighting.

Power availability reduces costly delays and ensures worker safety.

Without these systems, construction projects would face extended downtime, increased costs, and operational inefficiencies.

Events & Entertainment: Powering Large-Scale Experiences

The events and entertainment industry depends heavily on mobile power stations to keep operations running smoothly. From music festivals and sports competitions to exhibitions and conferences, temporary power solutions supply electricity for:

Stage lighting and sound equipment

Food and beverage vendors

Digital displays and ticketing systems

Portable restrooms and safety infrastructure

The flexibility to scale power supply for thousands of attendees makes these solutions indispensable. For example, major global tours like Coldplay's ongoing world tour require robust, reliable energy systems to keep performances uninterrupted.

Procure This Report (316 Pages PDF with Insights, Charts, Tables, and Figures):

<https://www.alliedmarketresearch.com/checkout-final/0f8ff678dc0cd13e99cf6694fb9a321b>

Market Dynamics

Growth Drivers

Increase in outdoor events & activities: Festivals, concerts, and sports events often take place in off-grid or low-power locations.

Rise in infrastructure projects: Large-scale construction and mining projects require scalable, mobile energy sources.

Disaster recovery needs: Natural disasters disrupt grid power, making temporary power a critical backup solution.

Restraints

High initial investment for rental companies: Purchasing and maintaining generators, transformers, and battery systems requires significant capital, particularly for smaller operators.

Segment Analysis

By Power Source:

Diesel: Dominated the market in 2023, accounting for more than half of total share due to its high availability and reliability.

Gas: Expected to grow at 10.6% CAGR due to lower emissions, reduced maintenance costs, and stable fuel supply.

By End Use:

Utilities: Largest segment in 2023 with strong demand for backup power during outages and peak loads.

Mining: Projected to grow at 11.1% CAGR as operations in remote areas rely on diesel, gas, or battery-based solutions to power machinery, lighting, and HVAC systems.

Competitive Landscape

Key players in the global temporary power market include:

Aggreko

Power Temp Systems Inc.

Valid Manufacturing Ltd.

ALLIED POWER AND CONTROL

APR Energy

United Site Services Inc.

Sunbelt Rentals, Inc.

Herc Rentals Inc.

Trinity Power

PowerPlus

Strategies such as fleet expansion, technological innovation, and strategic partnerships are central to capturing market share.

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Future Outlook

With the increasing need for energy reliability, mobility, and scalability, the global temporary power market is set for strong expansion. The growth of renewable hybrid solutions—combining generators with solar or battery storage—will further enhance sustainability in this sector.

As industries and events demand fast, reliable, and eco-conscious power solutions, market players who invest in cleaner, more efficient technologies will be best positioned to capitalize on the \$16.7 billion market opportunity by 2033.

Trending Reports in Energy and Power Industry:

Portable Power Station Market

<https://www.alliedmarketresearch.com/portable-power-station-market-A11700>

Temporary Power Market

<https://www.alliedmarketresearch.com/temporary-power-market-A50163>

Japan Portable Power Station Market

<https://www.alliedmarketresearch.com/japan-portable-power-station-market-A14964>

Power Rental Market

<https://www.alliedmarketresearch.com/power-rental-market>

Residential Generators Market

<https://www.alliedmarketresearch.com/residential-generators-market-A13106>

Solar Generator Market

<https://www.alliedmarketresearch.com/solar-generator-market-A12890>

Gas Generator Market

<https://www.alliedmarketresearch.com/gas-generator-market-A14852>

Africa Generator Sets Market

<https://www.alliedmarketresearch.com/africa-generator-sets-market-A323614>

Turbo Generator Market

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Generator Sets Market

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Multi Fuel Generators Market

<https://www.alliedmarketresearch.com/multi-fuel-generators-market-A13142>

Diesel Generator Market

<https://www.alliedmarketresearch.com/diesel-generator-market-A06370>

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