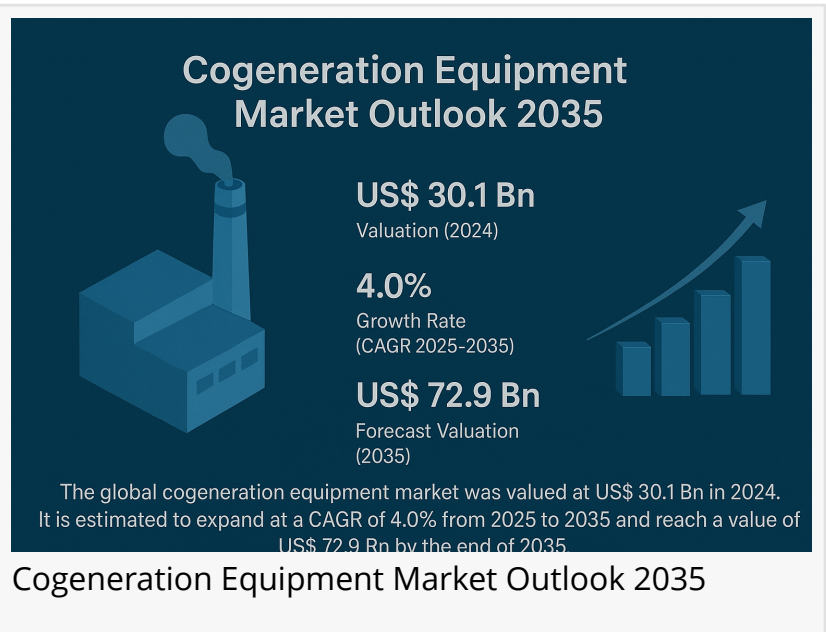


# Cogeneration Equipment Market Expected to Expand from USD 30.1 Billion in 2024 to USD 72.9 Billion by 2035 – TMR

*Cogeneration Equipment Market Size Forecast to USD 72.9 Billion by 2035 as Demand Rises for Combined Heat and Power Solutions – TMR Analysis*

WILMINGTON, DE, UNITED STATES,  
August 21, 2025 /EINPresswire.com/ --  
[Cogeneration Equipment Market Report \(Outlook 2035\)](#)

The global cogeneration (combined heat & power—CHP) equipment market is set for sustained growth as end users seek higher efficiency, lower energy costs, and decarbonization-ready onsite power. The market was valued at US\$ 30.1 Billion in 2024 and is projected to expand at a CAGR of 4.0% from 2025 to 2035, reaching US\$ 72.9 Billion by 2035.



Across industrial plants, commercial campuses, hospitals, and district energy networks, CHP's ability to deliver electricity and capture usable heat (and, with absorption chillers, cooling—"trigeneration") is strengthening business cases amid volatile grid prices and reliability concerns.



Cogeneration Equipment Market Outlook 2035 Industry Size to Surpass USD 72.9 Billion with Growing Adoption in Industrial and Commercial Sectors – TMR Analysis”  
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Market Overview

Cogeneration equipment includes reciprocating engines, gas/steam turbines, microturbines, fuel

cells, heat recovery steam generators (HRSGs), heat exchangers, and balance-of-plant & controls. New units emphasize modularity, fast start, islanding capability, digital monitoring, and low-NO<sub>x</sub> performance. Fuel flexibility is expanding from natural gas to biogas/LFG, renewable natural gas (RNG), syngas, and hydrogen-ready blends, aligning with corporate net-zero strategies.

### Analyst Viewpoint

Analysts see CHP as a cornerstone of efficient, resilient energy systems through 2035. Winners will pair high-efficiency prime movers with AI-enabled O&M, ESCO/performance-guarantee models, and clear decarbonization roadmaps (biogas/H<sub>2</sub> blends, CCUS-readiness, and integration with heat pumps & thermal storage). Data centers, pharma, food & beverage, chemicals, and healthcare will remain priority verticals.

### Analysis of Key Players

According to the cogeneration equipment market analysis, the industry is consolidated in nature, with a few leading players holding a dominant position. Companies such as Siemens, General Electric, and Mitsubishi Heavy Industries drive the market with their strong global presence, advanced technologies, robust R&D capabilities, and established customer base. Their leadership enables them to spearhead innovation and adoption of efficient cogeneration solutions.

Leading vendors expand portfolios, hydrogen readiness, and service revenues:

Siemens AG

- ABB Ltd.
- Baxi Group
- Andritz Energy and Environment
- BDR Thermea Group
- Mitsubishi Heavy Industries, Ltd.
- 2G Energy Inc.
- Clarke Energy Ltd.
- Kawasaki Heavy Industries, Ltd.
- GE Vernova

(Profiles typically cover product ranges, efficiency & emissions metrics, hydrogen/biogas capability, digital service models, and recent deployments.)

### Key Developments in the Global Cogeneration Equipment Market

- September 2024 – Yanmar Energy System Co., Ltd. acquired a 100% stake in TEDOM Group from Jet Investment. By combining TEDOM's expertise in cogeneration and energy services with Yanmar's global reach and advanced technologies, the partnership creates a strong synergy to support future market expansion.

- April 2023 – Orion Engineered Carbons implemented a cogeneration system at its Ivanhoe plant in Louisiana, U.S. The facility now features a steam turbine generator that converts waste steam from carbon black production into electricity. This innovation improves operational efficiency and sustainability while also allowing surplus electricity to be exported to the local grid.

### Key Strategies by Market Players

- Fuel Flexibility & Decarbonization: Engines/turbines certified for biogas, RNG, and H<sub>2</sub> blends.
- Service & ESCO Models: Long-term O&M, performance guarantees, and energy-as-a-service.
- Grid Integration: Islanding, black-start, and demand-response participation.
- Thermal Optimization: Advanced HRSGs, heat pumps, and storage to raise total efficiency.
- Vertical Focus: Standardized packages for data centers, hospitals, universities, and district heating.

□ Detailed strategy mapping available in the sample report copy –

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### Key Growth Drivers

1. Energy Efficiency Mandates: Total system efficiencies >70–90% vs. ~45–55% for separate generation.
2. Decarbonization Pressures: Scope 1/2 reduction via higher efficiency and low-carbon fuels.
3. Energy Cost Volatility & Resilience: Onsite generation hedges price spikes and supports continuity.
4. Industrial Heat Demand: Continuous process heat matches CHP's thermal output profile.
5. Technology Advances: Low-NO<sub>x</sub> combustion, higher simple-cycle efficiency, and predictive maintenance.
6. Policy Incentives: Supportive tariffs, tax credits, and capacity payments in many regions.

### Market Segmentation Snapshot

#### By Prime Mover

- Reciprocating Engines
- Gas Turbines
- Steam Turbines
- Microturbines
- Fuel Cells

#### By Fuel

- Natural Gas
- Biogas / RNG / Landfill Gas
- Coal/Waste Heat (topping/bottoming)

- Hydrogen Blends & H<sub>2</sub>

#### By Application

- Industrial (chemicals, F&B, pulp & paper, metals)
- Commercial & Institutional (hospitals, universities, hotels, offices)
- Utilities & District Energy
- Data Centers

#### By System Capacity

- <1 MW (MCHP & small commercial)
- 1–5 MW
- 5–50 MW
- 50 MW

#### Regional Description

- Europe: Strong district heating, carbon pricing, and CHP-friendly regulations; rapid H<sub>2</sub>-readiness transition.
- North America: Campus/industrial CHP growth, resilience-driven microgrids, supportive state-level programs.
- Asia Pacific: Fastest expansion—industrial demand, urban district energy, and focus on energy security (China, Japan, South Korea, India).
- Latin America & Middle East & Africa: Industrial clusters and cogeneration in refineries, sugar/ethanol, and desalination complexes.

#### Key Takeaways for Stakeholders

- Manufacturers: Prioritize hydrogen/biogas-ready platforms, digital O&M, and packaged trigeneration.
- Project Developers/ESCOs: Offer bankable PPAs and performance contracts; de-risk with standardized modules.
- Industrial & Campus Operators: Maximize thermal utilization (steam/hot water/chilled water) to lift ROI.
- Investors: Attractive long-term service cashflows in brownfield retrofits and district energy upgrades.

#### Why Buy This Report?

- Forecasts to 2035 with cuts by prime mover, fuel, capacity, and region
- Competitive benchmarking on efficiency, emissions, and H<sub>2</sub> readiness
- Implementation playbooks (site screening, thermal matching, financing)
- Policy & incentive landscape and grid-interconnection guidance

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## Future Outlook: Efficient, Low-Carbon, and Grid-Interactive CHP by 2035

Expect wider H<sub>2</sub> and biogas utilization, hybrid CHP-plus-heat-pump architectures, and AI-optimized dispatch within microgrids. Data centers and district energy will anchor multi-MW projects, while modular small-scale CHP scales across commercial buildings.

## Conclusion

Cogeneration is evolving into a resilient, decarbonization-aligned onsite energy platform. With the market projected to rise from US\$ 30.1 Bn (2024) to US\$ 72.9 Bn by 2035 at a 4.0% CAGR, stakeholders that combine fuel flexibility, thermal optimization, and service-led models will capture the next wave of growth.

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