



# READY▶

for an evolving energy landscape

# Shaping the Future of Energy Supply Together

## Ready to Innovate Since 1871

From the invention of the stationary gas engine to becoming one of the world's leading brands for cogeneration plants, we are building on more than 150 years of experience in developing and refining gas gensets.

Driven by an uncompromising commitment to German quality, we ensure maximum efficiency and reliability throughout the entire lifecycle of our products.

>1,400

Employees

10.2 GW

Total output of gas engines supplied in the last 15 years



**1871**

**Foundation**  
Automobile inventor Carl Benz founds his "Mechanical Workshop" in Mannheim

**1883**

**Serial Production**  
Serial production of two-stroke gas engines

**1922**

**Motoren-Werke Mannheim**  
Benz & Cie. sells the "Stationary Engines" division

**1985**

**Klöckner-Humboldt-Deutz**  
acquires majority stake in MWM

**2011**

**Caterpillar Energy Solutions**  
MWM becomes a part of Caterpillar

**2022**

**100 years of MWM**  
MWM celebrates its 100<sup>th</sup> brand anniversary



# Turnkey Solutions: From Planning to Power

## Your Expert Partner for Tailored Energy Solutions – Even in Complex International Projects

MWM gas gensets offer profitable and reliable energy for a wide range of industries, including manufacturing, data centers, utilities, agriculture, waste management, and more. In combination with our comprehensive MWM Energy Solutions – such as containerized systems, modular power plants, and cogeneration units – we provide fully integrated energy infrastructure from a single source. This ensures maximum efficiency, seamless operation, and long-term performance.



### Cogeneration

MWM cogeneration power plants provide both electricity and usable heat, maximizing on-site energy utilization. Thanks to their high efficiency, these systems significantly lower your energy costs. They can operate on various gases and supply power for on-site needs or feed it into the public grid for compensation.



### Microgrid

Microgrids are small, independent power systems that can operate either connected to the main grid or in island mode, using sources like CHP plants, batteries, solar, wind, or fuel cells. Their ability to function autonomously makes them a resilient energy solution for remote areas.



### Decarbonization

MWM gas gensets deliver reliable energy and ensure a continuous and dependable power supply – even when renewable sources such as wind and solar are insufficient. Their high efficiency and ability to run on hydrogen make them a future-ready solution for reducing carbon emissions in energy generation.



### Independent Power Producer

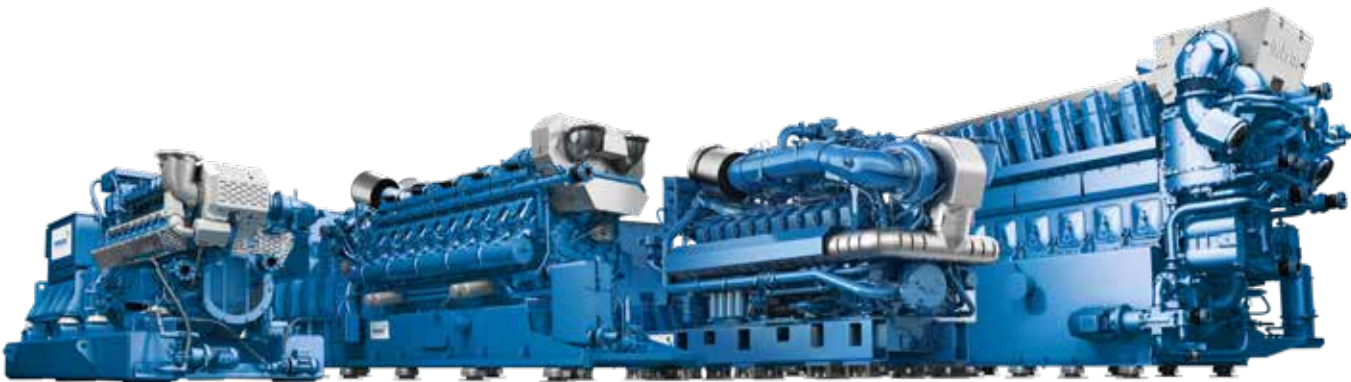
CHP plants with MWM gas gensets offer utilities, independent power producers, and data centers a highly efficient, flexible way to generate electricity and heat in a single process. With up to 95% total efficiency and scalable, responsive operation, these systems provide reliable, cost-effective energy tailored to specific needs.



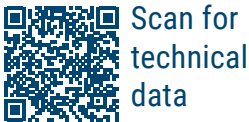
# Customized Energy Solutions for Every Need – Powered by MWM Gensets

Our gensets provide power, heat and cold. From planning and assembly to on-site commissioning, our specialists ensure seamless performance and reliable operation. Our products are designed to maximize energy utilization while minimizing costs and environmental impact.

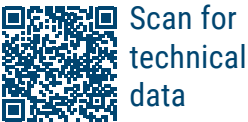
- **High efficiency, reliability and flexibility**
- **Significantly lower energy costs** compared to separate energy production
- **Hydrogen-ready:** MWM 25H2-Kit supports up to 25 vol% H<sub>2</sub> admixture
- **Long service life:** up to 80,000 operating hours before general overhaul
- **Advanced digital plant control**
- **Fast ramp-up option** to handle load peaks quickly



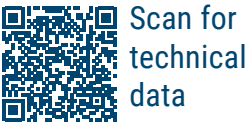
**TCG 3016**  
400 kW<sub>el</sub> – 1,000 kW<sub>el</sub>



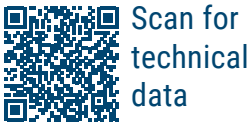
**TCG 3020**  
1,380 kW<sub>el</sub> – 2,300 kW<sub>el</sub>



**TCG 4170**  
2,536 kW<sub>el</sub>



**TCG 2032**  
3,000 kW<sub>el</sub> – 4,500 kW<sub>el</sub>





# Container Cogeneration Plant: Maximum Output, Minimal Effort

Our turnkey containerized solutions combine all core components into one fully integrated, efficient system. Engineered for flexibility and reliability, the container concept ensures easy service and maintenance, high availability, and fast installation — tailored to your specific needs.

- **MWM digital plant control** for full control and perfectly synchronized components.
- **One-stop service from the original manufacturer**, with access to ongoing upgrades and innovations.
- **Certified for global use** and compatible with different gas qualities and emissions standards.
- **Modular setup** with gas treatment options, and flexible fuel connections.
- **Smart design** with long service intervals and features that streamline daily operation.
- **Proven Engineering** for maximum lifespan and operational safety.
- **Compact layout with pre-assembled modules** for fast, cost-effective installation and scaling.

## MWM Compact Modules

for TCG 3016, TCG 3020, TCG 2032,  
& TCG 2020



Scan for  
technical  
data





# Driving Innovations – Thinking Ahead

We shape the energy future with innovation. In a rapidly changing energy landscape, MWM develops forward-looking solutions that go beyond today's standards. We don't just follow trends – we help set them. With a strong focus on digitalization, efficiency, and hydrogen readiness, our innovations keep you one step ahead.

*Whether it's about reliability, cost efficiency or meeting your sustainability goals, we provide state-of-the-art solutions tailored to your needs.*

**HYDROGEN  
POWER** 



Hydrogen-ready



Hydrogen retrofit kits

New MWM gensets are already prepared for hydrogen blending, and existing systems can be retrofitted – ensuring your investment remains secure in a decarbonizing energy landscape.



Digital power plant control

MWM Digital Solutions enable real-time monitoring and control of power plants, allowing early detection and resolution of technical issues to prevent downtime. Services include secure remote access, ensuring reliability, efficiency and consistent data security.



Multiple gas types

MWM gas gensets are designed for efficient operation with a wide range of gas types – including natural gas, aggr. gas, landfill gas, sewage gas, mine gas, and associated petroleum gas. Tailored solutions ensure reliable combined heat and power generation, even with fluctuating gas quality or composition.



Flexible operation

Thanks to flexible operation, MWM gas gensets can quickly respond to fluctuations in the public grid. Fast ramp-up capabilities and load balancing increase energy security while unlocking higher revenue potential through demand-based operation and grid services.



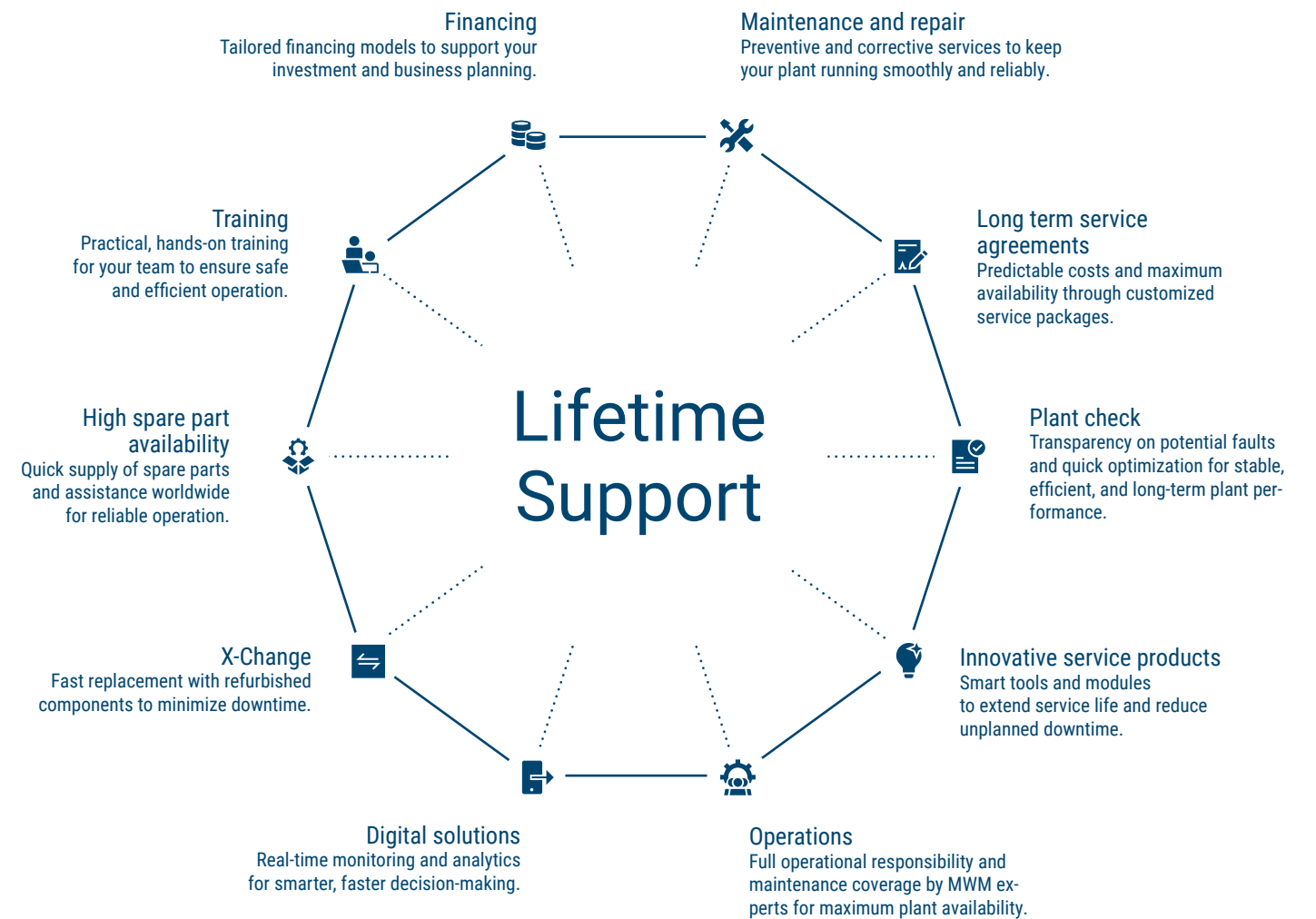


# Ensuring Smooth Service Operations Worldwide

## Close to You Wherever You Are

Full service. Full reliability. From financing and commissioning to maintenance and modernization – we support your plant throughout its entire lifecycle to ensure maximum performance and cost efficiency.

With a global service network, fast spare part logistics, and highly trained experts, we're always close by when it matters most.





# We Boost Efficiency Across Industries Around the World

For decades, MWM has been implementing power solutions for a wide range of industries across the globe. Working closely with our customers, we have successfully

established and operated energy plants worldwide – tailored to local needs, industry-specific requirements, and long-term efficiency goals.



Scan for reference cases sorted by industry and region



Chemicals & Pharmaceuticals



Utility & IPP



Biogas



Mining



Data Center



District Heating



Machinery



Infrastructure



Building Materials



Steel & Metal



Food & Beverage



Textile



Pulp & Paper



Greenhouse



# READY▶

for your future projects

The values given in this document are for information purposes only and not binding.

## **Caterpillar Energy Solutions GmbH**

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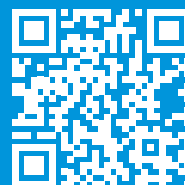
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