



# Energy on a new level.

Efficient, eco-friendly solutions for decentralized energy generation.

## Future through tradition.

MWM stands for 150 years of experience in gas engine technology and energy production. Since we joined Caterpillar's international network back in 2011, we have access to products and resources that enable us to develop custom-tailored, complete solutions for you.

Benefit from the security and experience of MWM specialists who have installed thousands of plants worldwide – plants that set efficiency and reliability standards.

## On the way into the digital age.

With MWM Digital Power, the energy market enters a new age. Thanks to state-of-the-art components combined with smart and secure data analysis, our products and services are up-to-date at all times. And thus ensure an increase in efficiency in the maintenance and capacity utilization of your plants. Experience the future – with MWM Digital Power.

**MWM DIGITAL POWER**

150 years

Caterpillar

Reliability

Efficiency

Experience



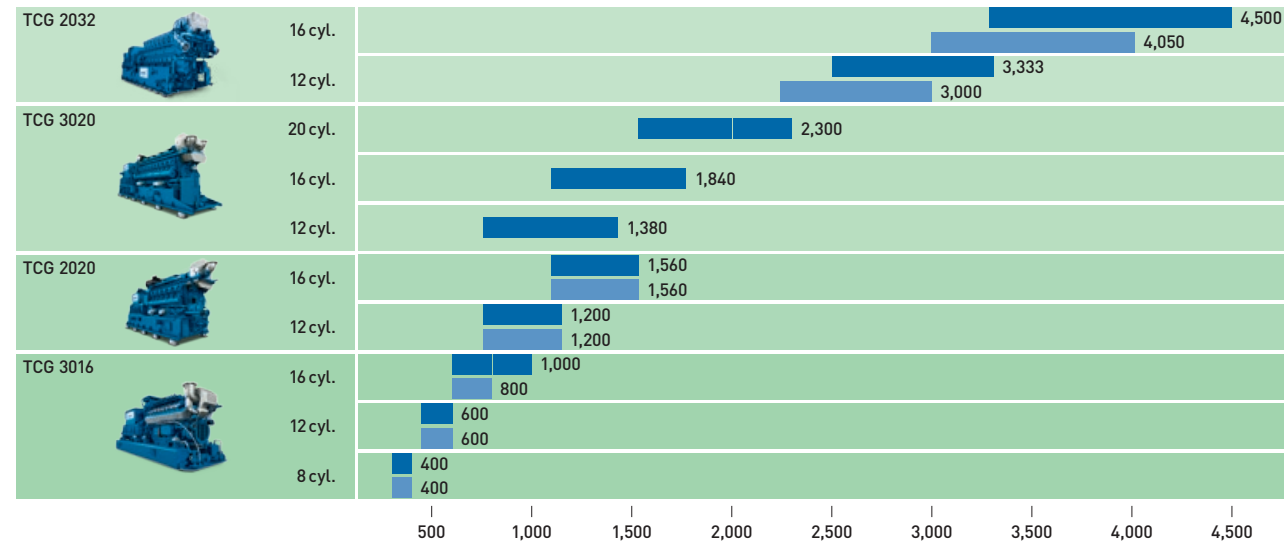
# MWM gensets.

## Efficiency, low maintenance, high availability.

The MWM product portfolio comprises gas engines and gensets in the output range from 400 kW<sub>el</sub> to 4,500 kW<sub>el</sub>. Power plants with an output of 100,000 kW<sub>el</sub> and more are technically feasible.

The gas engines can be operated with various gases, such as natural gas, biogas, sewage gas, landfill gas, mine gas, shale gas, and hydrogen admixture. They are designed for maximum electrical and thermal efficiency, low operating and service costs, and high reliability and availability. Thus, they reach efficiency levels of more than 90 percent.

### Product Range



The MWM product portfolio comprises gas engines and gensets in the output range from 400 kW<sub>el</sub> to 4,500 kW<sub>el</sub>. Power plants with an output of 100,000 kW<sub>el</sub> and more are technically feasible.

Electrical output per genset in kW<sub>el</sub>  
 50 Hz  
 60 Hz

# Maximum efficiency: everything from a single source.

MWM container solutions provide everything under one roof, custom-tailored to your needs. We assist you in the planning, configuration, and installation of comprehensive plant concepts. To optimize your profit, the concepts can be customized with the help of digital means such as a highly developed, secure data analysis.



The cooling module for the TCG 3016, TCG 3020 and TCG 2032 series and all applications features numerous benefits. With very little planning and installation overhead, it can be used in container and building installations. Equipped with state-of-the-art technology, it is custom-tailored to your project.



### TCG 3016

#### Robust. Efficient. Digital

Developed from scratch, this series features greatly reduced operating and installation costs and a fully digitized power plant control.

### TCG 3020

#### The all-round talent

State-of-the-art technology ensures improved performance and efficiency along with a compact design and focus on flexibility. Equipped with the smart and secure TPEM (Total Plant & Energy Management) control, the new TCG 3020 series delivers maximum profitability and reliability.

### TCG 2032

#### Available, reliable, uncomplicated

Along with low installation costs. All gas types: natural gas, landfill gas, sewage gas, mine gas, coking gas, biogas. Especially for large IPP projects with up to 100 MW<sub>el</sub>.

#### TPEM. The door to the digital age.

- ✓ Reliable system monitoring and control, also via remote access
- ✓ Used in the new series for all numbers of cylinders and all designs, with a wide range of functions
- ✓ Ensures high profitability through an expanded product scope, standardized hardware, and quick, guided commissioning
- ✓ Ready for quick and easy scaling

# MWM service. Partnership: the next step.

The MWM brand looks back on decades of experience in the field of distributed energy supply. All along, one principle has never changed: availability is a decisive success factor for efficiency.

Therefore, MWM quality is not only limited to reliable gas engines and power gensets, but also comprises progressive service concepts.



**Regional service**



**Maintenance and repair**



**Long-term service agreements**



**Innovative service products**



**Digital solutions**



**X-Change / exchange units**



**Plant check**



**Training**



**Financing**

## **Caterpillar Energy Solutions GmbH**

Carl-Benz-Str. 1  
68167 Mannheim, Germany  
T +49 621 384-0  
F +49 621 384-8800  
info@mwm.net

For information on other  
MWM locations, please visit  
[www.mwm.net](http://www.mwm.net)