



OPTIMISE YOUR OPERATIONS WITH EFFICIENT GAS GENSETS

Choose a dependable system for consistent success, facilitating optimal performance and increased profitability. Investing in an efficient gas genset means lower operational costs and a better bottom line.

THE IDEAL GENSETS FOR HIGH-PERFORMING OPERATIONS

When it comes to gas power systems, your operation requires a highly productive, cost-efficient, custom solution, covering all product and service requirements.

Ideal genset features



Meets power, voltage, frequency requirements



Has a gas analyser to continuously monitor purity



Operates efficiently at site conditions



Works across applications



Factors in loading scenario, including minimum loading



Flexible with available space



Within budget for capital expenditure



Within budget for operational expenditure

THE IDEAL GENSETS FOR HIGH-PERFORMING OPERATIONS

When it comes to gas power systems, your operation requires a highly productive, cost-efficient, custom solution, covering all product and service requirements.

Service requirements



Designed for
easy operation



Installation
and support



Availability: parts
& service provisions



Financing for
your investment

A SOLUTION FOR EVERY APPLICATION AND PURPOSE

Every Cat gas genset is a product of perfected engineering, bringing customers the highest possible standards of reliability and efficiency.



Unmatched operations



Performance under pressure

- Reliable and safe in extreme and rigorous operations
- Tested as individual parts and as a whole at over 100% of rated load



Emissions compliance:

- Pre-certified for the world's toughest emissions standards
- Saving time and costs of routine emissions compliance checks



High efficiency, lower costs:

- Dependable power output
- Higher operational efficiency

A SOLUTION FOR EVERY APPLICATION AND PURPOSE

Businesses around the world depend on Cat's premium range for their power needs.



Diverse applications



Industrial:

- Commercial operations
- Utility
- Combined Heat and Power (CHP)



Cultivation and production:

- Greenhouses
- Agriculture and food processing



Waste management:

- Landfills
- Waste water treatment



Specialty applications:

- Coal mining
- Construction

FIRING ON ALL CYLINDERS

Cat leads the industry with the largest range of gas gensets for every application.



Fuel flexibility

A range of fuel types:

- Natural gas
- Biogas, including from landfills and digesters
- Dual fuel
- Propane
- Coal
- Wellhead gas
- Specialty fuels (syngas, coke oven gas, blast furnace gas, high energy gas)



Configuration

Operation Mode:

- In parallel with an electrical system
- Or, completely independent (Island Mode)

Voltages, Frequencies & Power Factors:

- 400, 480, 600, 3300, 4180, 6600, 11000, 13600V
- 50, 60Hz
- 1.0 , 0.8, 0.7 k



Technology

Increased efficiency with:

- Combined heat and power for co-generation
- Heat recovery modules
- Water cooled turbochargers for all cylinder variants



Longevity

Lower lifecycle costs with:

- Durability
- Supportive warranty terms
- Longer service intervals



Optimization

Better performance for:

- Electrical Efficiency at lowest operation cost
- Response flexibility
- Difficult ambient and gas conditions

GET THE MOST OUT OF YOUR GENSET WITH MANTRAC

Mantrac is committed to your operational success: we offer expert advice with end-to-end services, including installation, customization, and long-term support.



Support & service

Quick maintenance, repair:

- Easily accessible service across nine territories
- Quick repairs, up to 85% in-territory part availability
- Training of personnel to operate equipment with minimal wear and tear

Local engine overhaul:

- Complete overhaul with experienced Cat-certified professionals



Consulting

Site grading:

- Accounting for all atmospheric factors

Custom sizing:

- Looking at your space to provide the optimal gas genset and containment solution

Project feasibility:

- Ensure selection of most feasible Genset configuration
- Calculating long term project's financial (OPEX, ROI, NPV, IRR)



Financing

Minimize upfront costs:

- Take advantage of credit and financing
- Short- and long-term rentals
- Rent-to-own plans, with 80% of paid rent applied if you purchase after renting



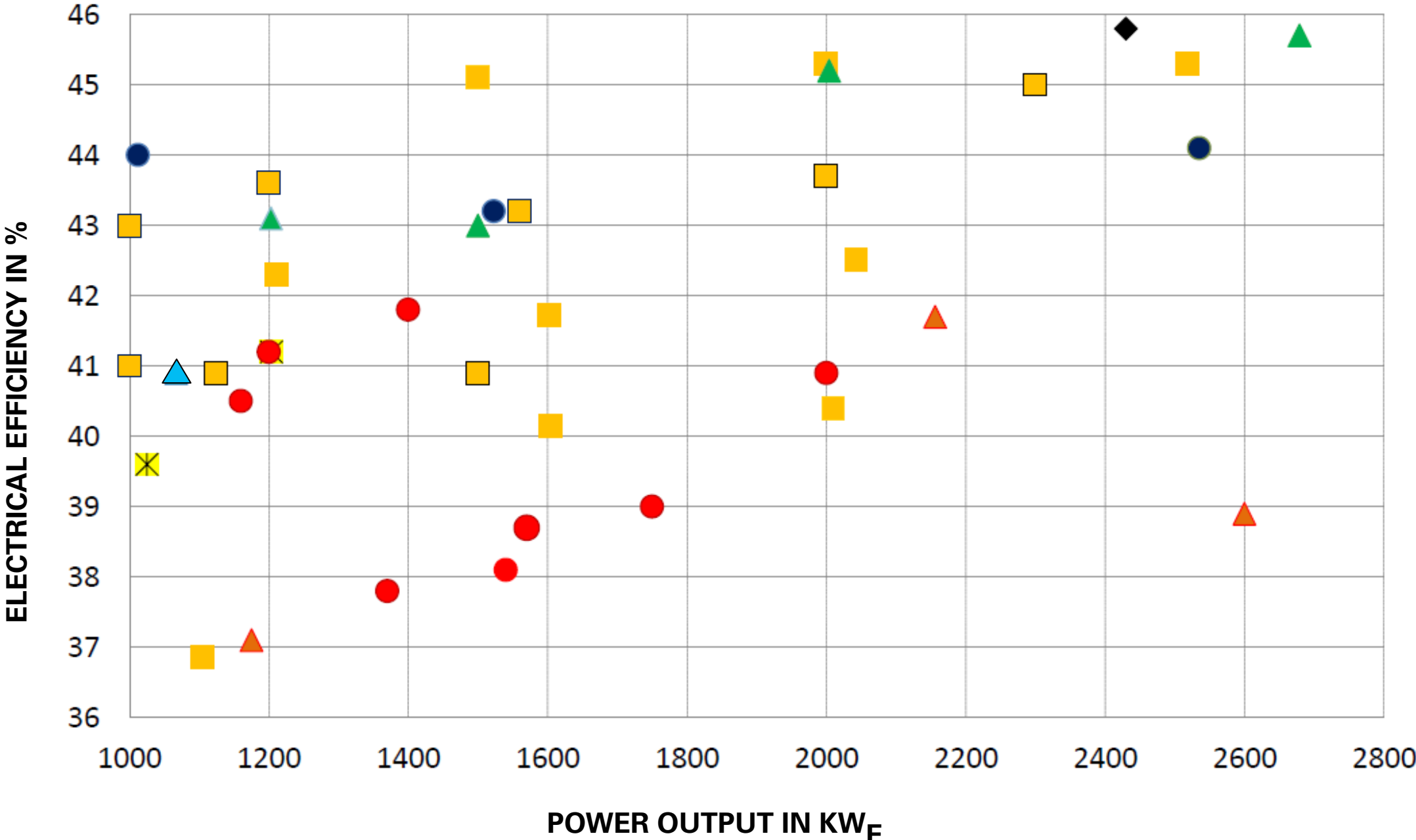
Warranty support

Warranty support:

- All Cat gensets come with an industry-leading warranty of up to 2 years from operation to 30 months from date of shipment
- Mantrac also provides support on warranty terms

STANDARDS THAT THE COMPETITION CANNOT MATCH

Efficiency/Power Landscape for 1,000-2,800 kW_e gensets

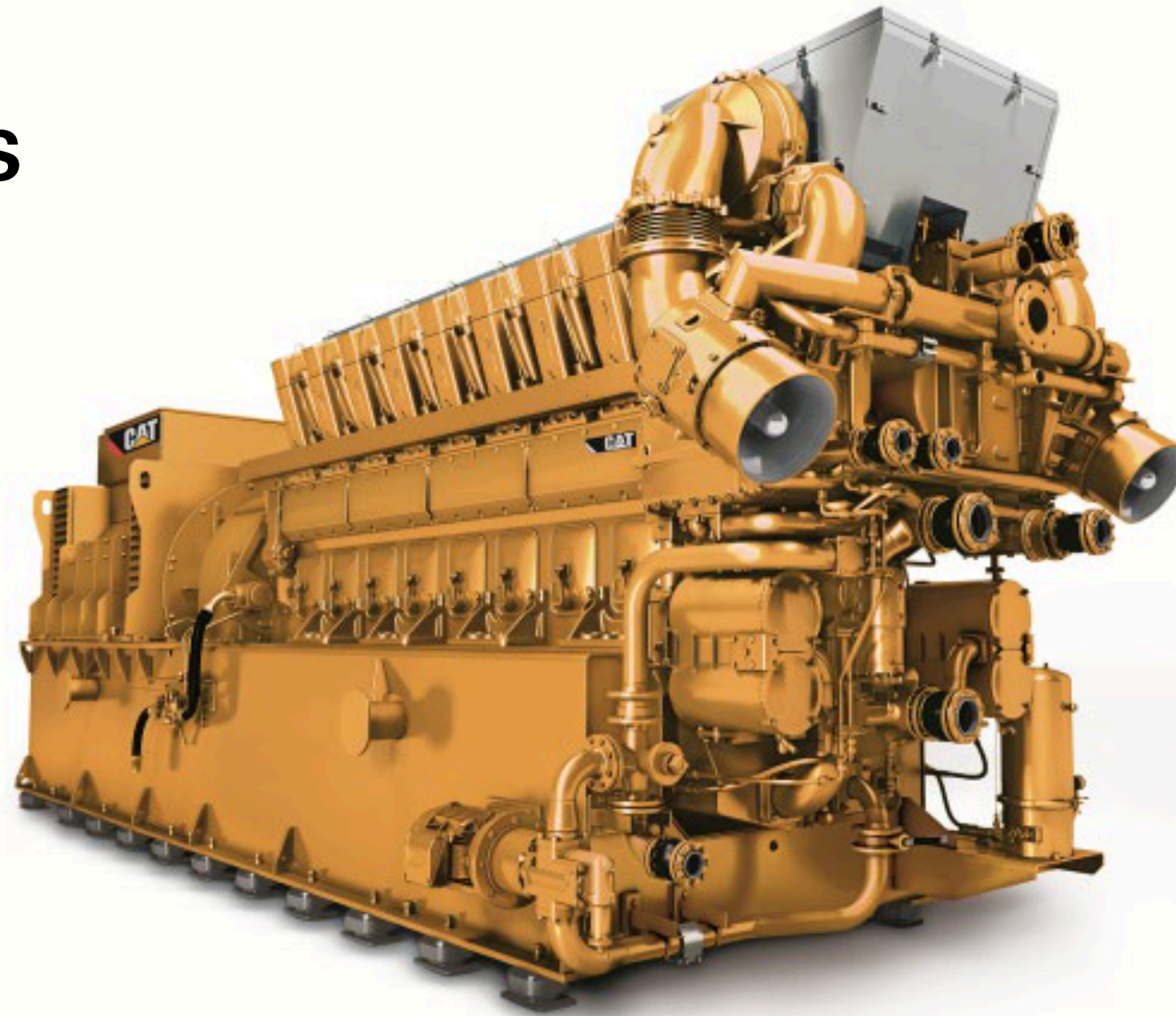


- Cat CG170-12 (1MW)
- Cat CG170-16
- Cat CG170B-20 P
- Cat CG170-12 Non-miller
- Cat G3512E
- Cat G3516C
- Cat G3516E
- Cat G3520C
- Cat G3520E
- ▲ INNIO J416GS
- ▲ INNIO J612GS
- MTU 8V 4000 L64
- MTU 16V 4000 L64
- ✕ Guascor SFGM 560
- ▲ INNIO Waukesha 12V275GL+
- ▲ INNIO Waukesha APG 2000
- Cummins QSK60G C1160
- Cummins QSK60G C1200
- Cummins QSK60G C1400
- Cummins QSV91G C1540
- Cummins QSV91G C2000
- Cat CG170-12
- Cat CG170-20
- Cat CG132B-16HD
- Cat CG170-16 Non-miller
- Cat G3512H
- Cat G3516A+
- Cat G3516H
- Cat G3520H
- ▲ INNIO J320GS
- ▲ INNIO J420GS
- ▲ INNIO J616GS
- MTU 12V 4000 L64
- MTU 20V 4000 L64
- ✕ Guascor HGM 560
- ▲ INNIO Waukesha VHP9500GL
- Cummins QSV81G C1570
- Cummins QSV81G C1370
- Cummins QSV91G C1750
- ◆ Rolls Royce C26:33L9AG



A MANTRAC CASE STUDY

POWERING EGYPT'S LARGEST WATER TREATMENT PLANT



POWERING EGYPT'S LARGEST WATER TREATMENT PLANT

The Construction Authority of Potable Water and Wastewater in Egypt, Suez, approached Mantrac with a unique problem for the treatment of wastewater sludge. Our team created a solution that exceeded targets.

Challenges



Top level Engineering, with special plant components supplied suitable for harsh site conditions



Governmental project with special requirement of operation within short period of time



Generate more energy and income while reducing emissions and reusing sludge

SUEZ; ALEXANDRIA, EGYPT

POWERING EGYPT'S LARGEST WATER TREATMENT PLANT

Solution

- Provide a detailed engineering solution for a complete power plant for optimum operation with lowest cost
- Supply and install a 11.5 mW biogas-fired power plant
- Top of the line Cat CG170B-20X gas genset to work optimally



Impact

**60% self
sufficient**

in electricity
generation

**30–35%
reduction**

in sludge
produced

**A new
market**

created for sludge
sold as fertilizer

**110,000 to
160,000 kWh**

per-day energy
generation
with biogas

RELATED ASSETS

EXPLORE OUR GAS GENSET RANGE FOR OPTIMAL OPERATIONS

COMMERCIAL MATERIAL

Get an overview of the entire genset range by viewing our brochures and videos.

PROJECT REFERENCES

See how Mantrac has successfully delivered gas-powered solutions for customers across industries.

TECHNICAL DOCUMENTS

Understand the types of gensets that are ideal for your specific operational needs.

PRODUCT SPECIFICATIONS

Get all the details on prospective genset solutions for your operations.