

# REFERENCE BOOK

## WORLDWIDE PROJECTS



PRAMAC has a full range of power solutions

- Portable generators and accessories with more than 100.000 units sold yearly
- Stationary generators designed for all market's needs, up to 3 Megawatt

PRAMAC is a reliable partner

- 50 years of history
- 2.000.000 units of Portable generators sold in size from 10 to 750 kVA
- 250.000 units of Stationary generators produced in size from 750 to 3.000 kVA
- 1.000 Special projects realized for a total power of 950.000 kW
- Power supplied for more than 23.000.000 of kW

PRAMAC is a global company

- 4 manufacturing facilities in 4 countries
- 14 branches
- Presence in more than 180 countries in the world



# REFERENCE BOOK

## SUMMARY

### CONTINUOUS & PRIME POWER SUPPLY

OIL & GAS

CONSTRUCTION

WATER TREATMENT

SPORT & RECREATION

POWER PLANT

TELECOMMUNICATIONS

INDUSTRY

### BACKUP STANDBY POWER SUPPLY

DATA CENTER

HEALTHCARE

POWER PLANT BACKUP

INDUSTRY

COMMERCIAL & RETAIL

SPORT & RECREATION

TELECOMMUNICATIONS

WATER TREATMENT

TRANSPORT

PRAMAC WITH YOU



# CONTINUOUS & PRIME POWER SUPPLY



TUSCANY (ITALY)

## OIL & GAS

#### PROJECT

Drillmec, an international company leader in the field of drilling and workover rigs for onshore/offshore applications, asked PRAMAC to develop a special genset in a trailer capable to work in difficult and dusty environment. To face such a critical situation, PRAMAC provided the rig with 3 generator sets equipped not only with desert environment cooling and tropicalized radiator, but also with special heavy duty air filters for engine and alternator. The generators were designed to work in parallel with other gensets.

#### KEY FEATURES

GCW1500

- Power PRP 1500 kVA
- Frequency 50 Hz
- Tension 600 V
- Power factor 0,7
- Engine MTU 12V4000G23
- Alternator LEROY SOMER LSA51.2 L70
- Container 40' noise level 85 +/-3 dB(A) @ 1 m
- Heavy duty air filters
- Pneumatic starter
- Parallel panel
- Road trailer





# CONTINUOUS & PRIME POWER SUPPLY



BLACKPOOL (UNITED KINGDOM)

## OIL & GAS

## OIL & GAS BLACKPOOL (UNITED KINGDOM)

KW 3.600

### PROJECT

Drillmec, an international company leader in the field of drilling and workover rigs for onshore/offshore applications, asked PRAMAC to develop gensets ensuring the mobility of the system within a certain working site. The solution by PRAMAC was made of 3 gensets supported by 2 fuel storage tanks of 10.000 liters each for a long-running autonomy; in case of failures in the external loading system, the integrated tank inside the container assured a 3 hours more endurance. The trailer solution was to allow facility in moving the gensets where necessary, according to the on-site conditions.

### KEY FEATURES

GCW1500

- Power PRP 1500 kVA
- Frequency 50 Hz
- Tension 600 V
- Power factor 0,7
- Engine MTU 12V4000G23
- Alternator LEROY SOMER LSA51.2 L70
- Container 40' noise level 85 +/- 3 dB(A) @ 1 m
- Heavy duty air filters
- Pneumatic starter
- Parallel panel



# CONTINUOUS & PRIME POWER SUPPLY



NORWAY

## OIL & GAS



#### PROJECT

PRAMAC has been selected by STATOIL, an integrated worldwide oil and gas company, to support a project in Norway, with the supply of a generating set operating at very low temperatures. The genset has been placed inside a 25' container, equipped with motorized louvers and electric fans to extract residual hot air generated by the engine, as a self-standing heating system. The engine has been equipped with water and oil pre-heaters, and an electric fan radiator installed in the external container space. The pre-heated fuel, supplied from an external tank, through insulated pipes, has made the installation suitable to work in -20° C environments.

#### KEY FEATURES

GCW1500

- Power LTP 1630 kVA
- Power PRP 1557 kVA
- Frequency 50 Hz
- Tension 690 V
- Power factor 0,8
- Engine MTU 12V4000G61
- Alternator STAMFORD HC17F
- Electrical radiator
- Container 25' noise level 85 +/-3 dB(A) @7 m
- Motorized louvers
- Genset suitable for low temperature (-20°C)
- Engine water and oil preheating systems
- Parallel panel



# CONTINUOUS & PRIME POWER SUPPLY



PLOIESTI (ROMANIA)

## OIL & GAS

#### PROJECT

Prime Power Supply in Ploiesti: PRAMAC has been selected by one of the biggest oil and gas exploiters in Romania to supply 3 parallel working generators able to provide 4400 kVA in PRP.

#### KEY FEATURES

##### GCW1850

- Power LTP 2030 kVA
- Power PRP 1846 kVA
- Frequency 50 Hz
- Tension 400 V
- Power factor 0,8
- Engine PERKINS 4016TAG1A
- Alternator STAMFORD PI7E
- Container 40' noise level 75 +/-3 dB(A) @7 m
- Parallel panel

##### GCW1750

- Power LTP 1770 kVA
- Power PRP 1720 kVA
- Frequency 50 Hz
- Tension 400 V
- Power factor 0,8
- Engine MITSUBISHI S16R-PTA
- Alternator STAMFORD PI7D
- Container 40' noise level 75 +/-3 dB(A) @7 m
- Parallel panel

##### GCW1250

- Power LTP 1385 kVA
- Power PRP 1253 kVA
- Frequency 50 Hz
- Tension 400 V
- Power factor 0,8
- Engine PERKINS 4012TWG2
- Alternator MECCALTE ECO43 2L
- Container 25' noise level 75 +/-3 dB(A) @7 m
- Parallel panel



# CONTINUOUS & PRIME POWER SUPPLY



BATA (EQUATORIAL GUINEA)

## WATER TREATMENT

### PROJECT

PRAMAC has been selected by a global company operating in the field of water treatment to join in the project of the construction of a new plant, located in Equatorial Guinea and formed by 3 stations each one consisting of 2 generators in continuous production.

### KEY FEATURES

#### GCW1250

- Power LTP 1350 kVA
- Power PRP 1250 kVA
- Frequency 50 Hz
- Tension 400 V
- Engine PERKINS 4012-46TAG2A
- Alternator STAMFORD PI7A
- Sound attenuators 70 +/-3 dB(A) @7 m
- Parallel panel
- Dummy load
- Installation kit

#### GCW1500

- Power LTP 1500 kVA
- Power PRP 1650 kVA
- Frequency 50 Hz
- Tension 400 V
- Engine PERKINS 4012-46TAG2A
- Alternator STAMFORD PI7C
- Sound attenuators 70 +/-3 dB(A) @7 m
- Parallel panel
- Dummy load
- Installation kit

#### GCW1700

- Power LTP 1770 kVA
- Power PRP 1707 kVA
- Frequency 50 Hz
- Tension 400 V
- Engine PERKINS 4012-46TAG3A
- Alternator STAMFORD PI7D
- Sound attenuators 70 +/-3 dB(A) @7 m
- Parallel panel
- Dummy load
- Installation kit





CONTINUOUS & PRIME POWER SUPPLY



SAINT LOUIS (SENEGAL)

CONSTRUCTION



# CONSTRUCTION

## SAINT LOUIS (SENEGAL)

### PROJECT

One of the most important construction companies present in Africa selected PRAMAC to take part to an important project: the Senegal river bridge rehabilitation in St Louis.

Two Pramac 100 kVA prime power soundproofed generating sets have been placed in floating barge to power the water pumps necessary to the construction works. The project has a particular historical and cultural value - being the bridge the landmark of the city of St Louis- and belongs to the UNESCO heritage program.

### KEY FEATURES

GSW 110 P

- Power LTP 114 kVA
- Power PRP 104 kVA
- Frequency 50Hz
- Voltage 400 V
- Engine PERKINS 1104C-44TAG2
- Alternator MECCALTE ECP34-2S/4
- Soundproof canopy noise level 67 dBA@7 metres



# CONTINUOUS & PRIME POWER SUPPLY



CARAGUATATUBA (BRAZIL)

# CONSTRUCTION

# CONSTRUCTION CARAGUATATUBA (BRAZIL)

KW 5.352

## PROJECT

PRAMAC has been selected by a company of primary importance in the large public works sector to support the construction project of Petrobras' GASTAU pipeline in the eastern part of the southern state of São Paulo in Brazil.

The supply consists of 6 generators of 1000 kVA, 20" Container version, with parallel modular panel.

## KEY FEATURES

GCW1015

- Power LTP 1115 kVA
- Power PRP 1013 kVA
- Frequency 50 Hz
- Tension 400 V
- Engine MTU 16V2000G65
- Alternator MECCALTE ECO43 1L
- Container 20' noise level 75 +/-3 dB(A) @ 7 m
- Parallel panel



# CONTINUOUS & PRIME POWER SUPPLY



GIJON (SPAIN)

# CONSTRUCTION

# CONSTRUCTION GIJON (SPAIN)

KW 8.880

## PROJECT

The company responsible of the extension works of the harbor of Gijon asked PRAMAC to provide a 1MW power plant made of 10 gensets of 1.000 kVA each, running in parallel.

The generators have been used to supply energy to all the construction and industrial machinery involved.

## KEY FEATURES

GCW1030-50S

- Power LTP 1110 kVA
- Power PRP 1021 kVA
- Frequency 50 Hz
- Tension 400 V
- Engine CUMMINS QST30 G4
- Alternator STAMFORD HCI6J
- Soundproof enclosure noise level 70 +/-3 dB(A) @7 m
- Parallel panel
- Anticondensation heaters
- Incorporated fuel tank of 1000 liters
- Automatic fuel transfer pump
- Engine water preheating system





CONTINUOUS & **PRIME POWER SUPPLY**

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DOHA (QATAR)

**SPORT & RECREATION**



#### PROJECT

PRAMAC has been called to supply energy on site for the floodlight system of Moto GP night races. 44 PRAMAC generators have been installed with a total capacity of around 11MW. Each generator, provided with sand trap air filters, supplied 315 kVA power.

#### KEY FEATURES

GSW330V

- Power LTP 330 kVA
- Power PRP 315 kVA
- Frequency 50 Hz
- Tension 400 V
- Engine VOLVO TAD941GE
- Alternator MECCALTE ECO38 2L
- Soundproof enclosure noise level 68 dB(A) @7 m
- Sand trap air filter on enclosure
- Automatic panel
- Manual battery switch
- Remote control by GSM



# CONTINUOUS & PRIME POWER SUPPLY



SINGAPORE

## SPORT & RECREATION

#### PROJECT

PRAMAC has been selected to support the 1st Formula 1 racing held at night in Singapore city circuit. The impressive floodlight system has been powered by 25 generators all along the circuit track. In a complete black scenario, every two generators have shared common load, operating in parallel mode. The installation, running independently to the electric grid, has been supplying energy during all the event with a total capacity of 405 kilowatt, the power used to light up 140 lights.

#### KEY FEATURES

GSW560V

- Power LTP 546 kVA
- Power PRP 505 kVA
- Frequency 50 Hz
- Tension 400 V
- Engine VOLVO TAD1641GE
- Alternator MECCALTE ECO40 3S
- Soundproof enclosure noise level 75 dB(A) @ 7 m
- Parallel panel
- Manual battery switch





ABU DHABI (UNITED ARAB EMIRATES)

## SPORT & RECREATION

## SPORT & RECREATION ABU DHABI (UNITED ARAB EMIRATES)

KW 13.315

### PROJECT

PRAMAC has been selected to power the F1 Grand Prix of Abu Dhabi, held at night, with generators installed all along the circuit, operating in parallel mode and running independently of the mains electric system. Total capacity of the gensets up to 9.7 MW.

### KEY FEATURES

#### GSW510V

- Power LTP 507 kVA
- Power PRP 461 kVA
- Frequency 50 Hz
- Tension 400 V
- Engine VOLVO TAD1640GE
- Alternator MECCALTE ECO40 3S
- Soundproof enclosure noise level 73 dB(A) @7 m
- Sand trap air filters on enclosure
- Parallel panel
- Manual battery switch
- Additional tank under baseframe of 2000 liters

#### GSW330V

- Power LTP 330 kVA
- Power PRP 315 kVA
- Frequency 50 Hz
- Tension 400 V
- Engine VOLVO TAD941GE
- Alternator MECCALTE ECO38 2L
- Soundproof enclosure noise level 72 dB(A) @7 m
- Sand trap air filters on enclosure
- Parallel panel
- Manual battery switch
- Additional tank under baseframe of 1300 liters





CONTINUOUS & **PRIME POWER SUPPLY**



AEOLIAN ISLANDS (ITALY)

POWER PLANT



# POWER PLANT AEOLIAN ISLANDS (ITALY)

KW 12.800

## PROJECT

ENEL, Italian energy utility, is running several power plants in the Aeolian Islands (Sicily) independent to the grid.

PRAMAC has been awarded for the revamping of these power plants including old gensets dismantling and new gensets installation.

The full project lifetime has been of almost 2 years and it involved 6 sub-power plants (placed in 5 different islands) which supply power locally (electricity in the island comes only from the genset's power plants).

## KEY FEATURES

The power plants list is composed of:

Stromboli

n°3 x GCW1120M (1000kVA) + 1 x 400 KW = 2.800 KW (2,8 MW)

Panarea

n°1 x GCW1120M (1000kVA) + n°2 x GCW570M (500kVA)

Salina

Malfa: n°1 GCW2270 (2000kVA)

S.Marina: n°2 GCW1120M (1000kVA) + n°1 GCW2270 (2000kVA)

Vulcano

n°1 x GCW1770 (1500kVA) + n° 2 x GCW1120M (1000kVA)

Filicudi

n°2 x GCW570M (500kVA)



# CONTINUOUS & PRIME POWER SUPPLY



FORMENTERA (SPAIN)

# POWER PLANT

## POWER PLANT FORMENTERA (SPAIN)

KW 9.632

### PROJECT

PRAMAC has been selected by ENDESA to supply 8MW power plant in Formentera in summer time, working since then for 16 hours a day, 7 days per week. This project was made of 7 Gensets of 1.720 kVA running in parallel and connected to the national electricity grid.

### KEY FEATURES

- 7 units generating sets of prime power each 1.720 kVA
- Simple transportation and installation
- High soundproof level in a 40' feet container each
- Low pollution level
- Simple synchronization operation
- Low fuel consumptions



# CONTINUOUS & PRIME POWER SUPPLY



ADDIS ABEBA (ETHIOPIA)

# POWER PLANT

## POWER PLANT ADDIS ABEBA (ETHIOPIA)

KW 32.896

### PROJECT

An important industrial group specialized in the construction of major works asked PRAMAC to join in the Grand Ethiopian Renaissance dam construction, Africa's biggest dam, to be completed in 2017 generating up to 15,000 gigawatt hours per year.

The client was responsible of the entire building project and needed to guarantee a continuous power supply, as economical as possible. To ensure power, PRAMAC has supplied 16 diesel generators to run for up to 18 hours a day during the building process and supply more than 40 megawatts of electricity for the remote construction site extending over several kilometers. Each of the PRAMAC gensets has been provided to supply close to 2.600 kilovolt-amperes for the construction machinery and other electrical equipment.

### KEY FEATURES

GCW2600

- Power LTP 2570 kVA
- Power PRP 2310 kVA
- Frequency 50 Hz
- Tension 400 V
- Engine MTU 16V4000G63
- Alternator MARELLI MJB500LA4
- Open version
- Parallel panel





# CONTINUOUS & PRIME POWER SUPPLY



COPIAPÒ (CHILE)

# POWER PLANT



## POWER PLANT COPIAPÒ (CHILE)

KW 3.494

### PROJECT

PRAMAC has been selected by a company specialized in mining and mineral transportation, located in Chile, to take part to a project based in the middle of the Atacama desert, approximately 1000 km north of Santiago.

The request was for a modular power operating with low maintenance costs, optimized fuel consumption and with standard protection against dust produced in the operation.

To ensure power, PRAMAC has supplied 8 diesel generators running for up to 18 hours a day during mining operations, and producing more than 4,5 megawatts of electricity. Each of the PRAMAC gensets has been provided to supply close to 600 kilovolt-amperes for the mining machinery and the other electrical equipment.

### KEY FEATURES

GSW560V

- Power LTP 546 kVA
- Power PRP 505 kVA
- Frequency 50 Hz
- Tension 400 V
- Engine VOLVO TAD1641GE
- Alternator MECCALTE ECO40 3S
- Soundproof enclosure noise level 75 dB(A) @ 7 m
- Sand trap air filters on enclosure
- Parallel panel
- Oversized automatic fuel transfer pump



CONTINUOUS & **PRIME POWER SUPPLY**



COPIAPÒ (CHILE)

POWER PLANT

## POWER PLANT COPIAPÒ (CHILE)

KW 4.368

### PROJECT

PRAMAC has been selected by a private group specialized in mining and mineral transportation, located in Copiapó, Chile to join in a project installed at approximately 800 km north of Santiago, in the middle of the Atacama desert.

The request was for a modular power operating with low maintenance costs, optimized fuel consumption and with standard protection against dust produced in the operation. To ensure power, PRAMAC has supplied 10 diesel generators running for up to 24 hours a day, during mining operations and supplying more than 5 megawatts of electricity. Each of the PRAMAC gensets has been provided to supply close to 600 kilovolt-amperes for the mining machinery and the other electrical equipment. All the generators were built with special sand trap filters to ensure extra protection against dust.

### KEY FEATURES

GSW560V

- Power LTP 546 kVA
- Power PRP 505 kVA
- Frequency 50 Hz
- Tension 400 V
- Engine VOLVO TAD1641GE
- Alternator MECCALTE ECO40 3S
- Soundproof enclosure noise level 75 dB(A) @ 7 m
- Sand trap air filters on enclosure
- Parallel panel
- Oversized automatic fuel transfer pump



# CONTINUOUS & PRIME POWER SUPPLY



QATAR

# TELECOMMUNICATIONS

# TELECOMMUNICATIONS

## QATAR

### PROJECT

PRAMAC has been selected by Ooredoo, one of the world's largest multinational telecommunication Companies, to supply backup generators, integrated in special trailers, for the mobile Ooredoo GSM base stations.

### KEY FEATURES

#### GENERATING SET GBL42D

- Stand-By 33KW / Prime Power 31,4KW
- Frequency 50 Hz
- Tension 400V
- Deutz Engine
- Oil Cooled Genset
- Soundproof Gense





CONTINUOUS & **PRIME POWER SUPPLY**



SENEGAL

TELECOMMUNICATIONS

# TELECOMMUNICATIONS

## SENEGAL

### PROJECT

PRAMAC has been selected by one of the biggest Telecom operator in Africa, to power all its telecom base stations with 20 kVA soundproof generators. In case of Grid failure, the gensets can supply power with no interruption for 7 days without diesel refuelling (7 days tank enclosed) or oil filling (automatic oil filling system enclosed). A dummy load is provided with the generator in order to stabilise the load and increase the life span of the engine. All generators are remotely monitored by GSM.

### KEY FEATURES

GSW 22 P

- Power LTP 21.5 kVA
- Power PRP 20.1 kVA
- Frequency 50Hz
- Voltage 400 V
- Engine PERKINS 404D-22G
- Alternator MECCALTE ECP28-M/4
- Soundproof canopy noise level 61 dBA@7 metres
- Automatic oil refilling system
- 7 days fuel tank
- 5 kW dummy load



CONTINUOUS & PRIME POWER SUPPLY



ANGOLA

TELECOMMUNICATIONS

# TELECOMMUNICATIONS

## ANGOLA

### PROJECT

UNITEL, one of the ☐st TELECOM companies in Angola, selected PRAMAC to provide generators supplying energy to the Angolan mobile telephone network, relying on its reliability and on its product durability.

### KEY FEATURES

GBW22Y + STAMFORD, Change over contactors mounted on Control Panel

- Hours counter
- Special Socket kit: 5 pin 32 Amps 400V & 3 pin 16 Amps 230V.
- 1000 L Sub base extended fuel tank
- Special super silencer: 65 @7m
- Kit GSM
- Fuel ☐ter with water separator



# CONTINUOUS & PRIME POWER SUPPLY



LUSAKA (ZAMBIA)

# TELECOMMUNICATIONS



# TELECOMMUNICATIONS

## LUSAKA (ZAMBIA)

### PROJECT

MTN, a multinational telecommunications group, operating in 22 countries in Africa, Asia and the Middle East selected PRAMAC to supply stand by generators for the new communication towers of the Lusaka GSM infrastructure.

### KEY FEATURES

- 84 X generating set GBW10Y (automatic control panel)
- Generators are 10 kVA
- YANMAR engine
- LINZ alternator
- Customized control panel
- Load transfer switch
- Extended fuel tank



# CONTINUOUS & PRIME POWER SUPPLY



ŁAGÓW NEAR TO KIELCE (POLAND)

## INDUSTRY

## INDUSTRY

### ŁAGÓW NEAR TO KIELCE (POLAND)

KW 1.058

#### PROJECT

PRAMAC has been selected by a company which main activity is stone mining and production of aggregates for the construction of roads, to provide generators for one of their stone pits. The generators were necessary since the mains connection was too expensive, especially when considering limited time of pit exploitation. The gensets installed are in a special anti-dust container and with synchronized panel.

#### KEY FEATURES

GCW665

- Power LTP 661 kVA
- Power PRP 600 kVA
- Frequency 50 Hz
- Tension 400 V
- Engine MTU 12V1600G70F
- Alternator MECCALTE ECO40 1,5L
- Container 20' noise level 70 +/-3 @7 m
- Sand trap air filters on container
- Heavy duty air filter
- Parallel panel



# CONTINUOUS & PRIME POWER SUPPLY

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TABOGUILLA ISLAND (PANAMA)

## INDUSTRY

#### PROJECT

A company that offers storage and handling services for oil and petrochemical products selected PRAMAC to join in the project of 3MW power plant composed by 3 gensets of 1.260 kVA each at 60 Hz, 480 volts running in parallel 7/24 h, supplying energy to the island of Taboguilla, a service point for all the ships waiting for their turn to pass the Panama Canal. The required gensets had to be equipped with marine engines at 900 rpm to avoid rusting problems. PRAMAC offered an alternative standard 1.500 rpm gensets, but with a stainless steel radiator to avoid rusting problems.

#### KEY FEATURES

GCW1260

- Power LTP 1506 kVA
- Power PRP 1364 kVA
- Frequency 60 Hz
- Tension 480 V
- Engine MTU 18V2000G85
- Alternator STAMFORD HCI6K
- Radiator suitable for damp and salt ambient
- Open version
- Parallel panel





# CONTINUOUS & PRIME POWER SUPPLY



DAKAR (SENEGAL)

# INDUSTRY

## INDUSTRY DAKAR (SENEGAL)

KW 500

### PROJECT

PRAMAC has been selected by one of the most important construction company present in Senegal to join in the construction of the New Dakar Airport. PRAMAC has provided a 500 kW generator to supply continuously power to the concrete production plant at site. The generator runs continuously 12 hours a day.

### KEY FEATURES

GSW 590 V

- Power LTP 601 kVA
- Power PRP 571 kVA
- Frequency 50Hz
- Voltage 400 V
- Engine VOLVO TAD1642GE
- Alternator MECCALTE ECO40-1L/4
- Soundproof canopy noise level 75 dBA@7 metres



# CONTINUOUS & PRIME POWER SUPPLY



BARCELONA (SPAIN)

## INDUSTRY

#### PROJECT

PRAMAC has been selected by the biggest mining company located in Catalunya (Spain) to provide a generator that works as a power plant for a stone quarry. The genset supplies energy to all the machineries involved in the quarry. This is a special genset because it equips a Leroy Somer alternator at 5kV medium voltage.

#### KEY FEATURES

GCW1120M

- Power LTP 1100 kVA
- Power PRP 1000 kVA
- Frequency 50 Hz
- Tension 5000 V
- Power factor 0,8
- Engine MTU 16V2000G65
- Alternator LEROY SOMER LSA52.2 L45
- Container 40' noise level 70 +/-3 dB(A) @ 7 m
- Automatic control panel
- Medium voltage switchboard



# BACKUP **STANDBY** POWER SUPPLY



SEVILLE (SPAIN)

# DATA CENTER



## DATA CENTER SEVILLE (SPAIN)

KW 1.624

### PROJECT

PRAMAC has been selected to secure emergency power, in case of mains failure, to all the electrical components and computer systems controlling the registered data of the entire Andalucía region.

PRAMAC provided an emergency generator that includes the supplying and starting test for a genset of 2030 kVA as Limited time-running Power.

The genset was designed in canopy version to allow easier maintenance

### KEY FEATURES

GCW2030

- Power LTP 2030 kVA
- Power PRP 1846 kVA
- Frequency 50 Hz
- Tension 400 V
- Engine PERKINS 4016TAG1A
- Alternator STAMFORD PI7E
- Soundproof enclosure noise level 70 +/-3 dB(A) @7 m
- Automatic control panel



# BACKUP **STANDBY** POWER SUPPLY



SIENA (ITALY)

## DATA CENTER

## DATA CENTER SIENA (ITALY)

KW 1.678

### PROJECT

PRAMAC has developed a 40' container solution specifically dedicated to the data processing center of one of the most important Italian banks. The generator set has been equipped with increased alternator, framework of parallel network and special colors in order to minimize the overall architectural impact. AD HOC solutions have been studied specifically for cable connection and tie.

### KEY FEATURES

GCW1900

- Power LTP 2097 kVA
- Power PRP 1904 kVA
- Frequency 50 Hz
- Tension 400 V
- Engine MITSUBISHI S16R-PTA2
- Alternator MARELLI MJB500LA4
- Container 40' noise level 75 +/-3 dB(A) @ 7 m
- Parallel panel



# BACKUP **STANDBY** POWER SUPPLY



BERLIN (GERMANY)

# DATA CENTER

# DATA CENTER BERLIN (GERMANY)

KW 1.784

## PROJECT

PRAMAC has developed customized generating set with very low noise level. The genset has a power of 2000 kVA and has been placed inside a special canopy 75 dB(A) at 1 m. The total height of the canopy is around 7 meters and equipped with motorized louvers, fire detector system. The engine has redundant electric starting system (double electric engine, double battery pack, double battery charger) and the alternator is double bearing with thermistors.

## KEY FEATURES

GCW2060

- Power LTP 2230 kVA
- Power PRP 2064 kVA
- Frequency 50 Hz
- Tension 400 V
- Engine PERKINS 4016TAG2A
- Alternator STAMFORD PI7F
- Soundproof enclosure noise level 75 +/-3 dB(A) @1 m
- Motorized louvers at enclosure's openings
- Spark arrestor
- Prewired panel for existing parallel panel connection





# BACKUP **STANDBY** POWER SUPPLY



BUDAPEST (HUNGARY)

## DATA CENTER

# DATA CENTER BUDAPEST (HUNGARY)

KW 4.442

## PROJECT

PRAMAC has been selected by Telenor Hungary, the second mobile service provider in Hungary to develop three 2000kVA and 940kVA generating sets for a new data center in Budapest.

## KEY FEATURES

### GPW940

- Power LTP 1016 kVA
- Power PRP 937 kVA
- Frequency 50 Hz
- Tension 400 V
- Engine CUMMINS QST30-G3
- Alternator MECCALTE ECO43 2S
- Soundproof enclosure noise level 70 +/-3 dB(A) @7 m
- Automatic panel

### GPW2030

- Power LTP 2268 kVA
- Power PRP 2033 kVA
- Frequency 50 Hz
- Tension 400 V
- Engine MITSUBISHI S16R-PTAA2
- Alternator MECCALTE ECO46 1L
- Soundproof enclosure noise level 70 +/-3 dB(A) @7 m
- Automatic panel



# BACKUP **STANDBY** POWER SUPPLY



MILAN (ITALY)

## DATA CENTER

## DATA CENTER MILAN (ITALY)

KW 3.658

### PROJECT

PRAMAC has been selected by Ericsson to provide a double generating set, motorized with Mitsubishi Engine and equipped with automatic control panel, connected at two different lines, as emergency power supply for the data center of the IT company that designs and implements ICT Systems for the Regional Government located in the very centre of Milan.

The main characteristics of this project are: an engine starting system provided with a redundant double battery pack, with automatic selection in case of fault of a single pack; a fuel feeding with internal tank capacity of 120 lit, an automatic fuel transfer system with double pump for refuelling from storage tank and 15.000 lit. capacity for each gen-set.

Due to the city central location, two gen-sets have been provided with a special canopy with residual noise 55db(A) at 7 meters. The genset structure, made of tubular steel, is designed to support its own weight and at least a meter of snow on its roof.

### KEY FEATURES

GCW2260

- Power LTP 2286 kVA
- Power PRP 2031 kVA
- Frequency 50 Hz
- Tension 400 V
- Engine MITSUBISHI S16R-PTAA2
- Alternator MARELLI MJB500MB4
- Soundproof enclosure noise level 55 +/- 3 dB(A) @7 m
- Catalyst silencer
- Automatic oil refuelling system
- Automatic panel
- Double automatic fuel pump



# BACKUP **STANDBY** POWER SUPPLY



VIETNAM

# DATA CENTER



## DATA CENTER VIETNAM

KW 5.770

### PROJECT

PRAMAC has been selected to provide 5 units designed for running in parallel thanks to Modular Parallel Panels, complete with Comap Intelligent NT control unit suitable for load balance/load sharing/peak shaving/reverse power functions. All generators mounted in Soundproof Container ISO 40' with noise level 70 dB (A) 7 m have a CSC Certification suitable for sea freight approval.

### KEY FEATURES

GCW1500

- Power LTP 1443 kVA
- Power PRP 1379 kVA
- Frequency 50 Hz
- Tension 6,6 kV
- Engine MTU 12V4000G23R
- Alternator LEROY SOMER LSA52.2 L45
- Container 40' noise level 70 +/-3 dB(A) @ 7 m
- Step-down transformer for genset's auxiliaries
- Parallel panel



# BACKUP **STANDBY** POWER SUPPLY



MURCIA (SPAIN)

## HEALTHCARE

## HEALTHCARE MURCIA (SPAIN)

KW 2.464

### PROJECT

PRAMAC has been selected to provide the emergency plant of the University Hospital in Murcia with 2 generators running in parallel and with soundproof canopy. The project has been realized using 2 generators of 1.360 kVA each; the two units allow easy maintenance because one genset can be stopped while the other one remains connected.

### KEY FEATURES

GCW1360

- Power LTP 1540 kVA
- Power PRP 1396 kVA
- Frequency 50 Hz
- Tension 400 V
- Engine MITSUBISHI S12R-PTA2
- Alternator MARELLI MJB450MB4
- Soundproof enclosure noise level 70 +/-3 dB(A) @7 m
- Parallel panel



# BACKUP **STANDBY** POWER SUPPLY



TOULOUSE (FRANCE)

## HEALTHCARE

#### PROJECT

PRAMAC has been selected to serve Médipôle Garonne, an ambitious complex of 15500m<sup>2</sup> located in Toulouse, in the Southwest part of France, dedicated to the care and treatment of Athletes.

PRAMAC has provided the facility with a GCW1140M generator, securing all the backup power needed for the 14 operating rooms, the rehab center and the balneotherapy service, among others.

#### KEY FEATURES

GCW1140

- Power LTP 1262 kVA
- Power PRP 1142 kVA
- Frequency 50 Hz
- Tension 400 V
- Engine MTU 18V2000G65
- Alternator MECCALTE ECO43 2L
- Soundproof enclosure noise level 70 +/- 3 dB(A) @7 m
- Enclosure paint guaranteed for 10 years
- Automatic panel





# BACKUP **STANDBY** POWER SUPPLY



CASTRIES (ST. LUCIA ISLAND)

## HEALTHCARE

#### PROJECT

Selected by the European Union, founder of the project of the New National Hospital of Sain Lucia ( Lesser Antilles), PRAMAC has supplied a 1.400 kVA open version emergency generator and provided a full technical support during the installation and final commissioning of the project - part of the EuropeAid support programs in the ACP region.

#### KEY FEATURES

GCW1400

- Power LTP 1385 kVA
- Power PRP 1253 kVA
- Frequency 50 Hz
- Tension 400 kV
- Engine PERKINS 4012-46TWG2A
- Alternator MECCALTE ECO43 2L
- Sound attenuators noise level 70 +/-3 dB(A) @7 m
- Automatic panel



# BACKUP **STANDBY** POWER SUPPLY



GRENOBLE (FRANCE)

## HEALTHCARE

#### PROJECT

PRAMAC has been selected to provide a generating set to the EHPAD Reynes, a nursing home located in Grenoble, in the southeastern part of France. The high standard of the technical specifications required a very low noise level, due to the location of the building, close to condominiums. PRAMAC was the only company able to meet all of the requirements, with a GCW205 generator, assembled with a minimal dimensions canopy. The generator is able to provide backup power for the whole building.

#### KEY FEATURES

GCW205

- Power LTP 220 kVA
- Power PRP 205 kVA
- Frequency 50 Hz
- Tension 400 V
- Engine DEUTZ BF6M1013FC G3
- Alternator STAMFORD UCI274H
- Sound attenuators noise level 55 +/- 3 dB(A) @7 m
- Automatic panel



# BACKUP **STANDBY** POWER SUPPLY



FLORENCE (ITALY)

## HEALTHCARE



## HEALTHCARE FLORENCE (ITALY)

KW 1.534

### PROJECT

Working in partnership with one of the most important building companies in Italy, PRAMAC has provided a 1750kVA generating set, for the purpose of the reorganization and expansion of one of the wings of the Careggi Hospital in Florence.

The generating set is equipped with a silencer and canopy specifically developed to guarantee the requested acoustic performances, fitting in the restricted assigned location.

### KEY FEATURES

GCW1750

- Power LTP 1918 kVA
- Power PRP 1744 kVA
- Frequency 50 Hz
- Tension 400 kV
- Engine MITSUBISHI S16R-PTA
- Alternator STAMFORD HCI7G
- Soundproof enclosure with special dimension noise level 70 +/-3 dB(A) @ 7 m
- Automatic panel



# BACKUP **STANDBY** POWER SUPPLY

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ALLONNES (FRANCE)

## HEALTHCARE

#### PROJECT

PRAMAC has been selected to provide the hospital of Allonnes, a city of 11000 inhabitants located in the western part of France, with a generator to secure the building against a shutdown of the public electricity supply.

#### KEY FEATURES

GCW870M

- Power LTP 871 kVA
- Power PRP 788 kVA
- Frequency 50 Hz
- Tension 400 V
- Engine MTU 12V2000G65
- Alternator MECCALTE ECO43 1S
- Soundproof enclosure noise level 70 +/-3 dB(A) @7 m
- Parallel panel
- Engine water preheating system
- Automatic fuel transfer kit with double redundant electrical pump





# BACKUP **STANDBY** POWER SUPPLY



STRASBOURG (FRANCE)

## HEALTHCARE

#### PROJECT

PRAMAC has been selected to provide a clinic for disabled people located in Strasbourg with a GSW665M generator, which provides backup power to the whole new building extension ( elevators, ☐ le systems, etc.... )

#### KEY FEATURES

GSW665M

- Power LTP 661 kVA
- Power PRP 600 kVA
- Frequency 50 Hz
- Tension 400 V
- Engine MTU 12V1600G70F
- Alternator MECCALTE ECO40 1,5L
- Soundproof enclosure noise level 75 +/- 3 dB(A) @7 m
- Automatic panel
- Extended fuel tank for 48 hours of autonomy @75%PRP





# BACKUP **STANDBY** POWER SUPPLY



NDJAMENA (CHAD)

## HEALTHCARE

#### PROJECT

PRAMAC has been selected to provide the hospital of Ndjamená with an emergency power plant, realized with three 1031kVA soundproofed generators synchronized in parallel and equipped with a 5000 A ATS.

The emergency power plant secures power to the entire hospital electrical equipment in case of grid failure.

#### KEY FEATURES

GCW1130P

- Power LTP 1134 kVA
- Power PRP 1031 kVA
- Frequency 50 Hz
- Tension 400 V
- Engine PERKINS 4008- TAG2A
- Alternator MECCALTE ECO43 1L
- Soundproof enclosure noise level 75 +/-3 dB(A) @7 m
- Parallel panel
- Automatic transfer switch for all units of 5000 A



# BACKUP **STANDBY** POWER SUPPLY



MOHAMMEDIA (MOROCCO)

# POWER PLANT BACKUP

# POWER PLANT BACKUP MOHAMMEDIA (MOROCCO)

KW 2.160

## PROJECT

PRAMAC has been chosen to provide a generator with an emergency power of 2.588 kVA installed into a 40' container within a power plant in Mohammedia, Morocco. The container provides a noise level of 75 dB(A) at 7 meters, and it is designed with a proper lifting point for its transport.

## KEY FEATURES

GCW2600

- Power LTP 2700 kVA
- Power PRP 2588 kVA
- Frequency 50 Hz
- Tension 400 V
- Engine MTU 20V4000G23
- Alternator MECCALTE ECO46 2L
- Container 40' noise level 75 +/-3 dB(A) @7 m
- Electrical radiator in a separated room of the container
- Automatic fire extinguisher system with CO2 gas installed on the container
- Spark arrestor silencer
- Heavy duty air filters
- Synchronizing panel for black start



# BACKUP **STANDBY** POWER SUPPLY



UNITED KINGDOM

# POWER PLANT BACKUP



# POWER PLANT BACKUP UNITED KINGDOM

KW 2.642

## PROJECT

PRAMAC supported the construction of the LONDON ARRAY offshore Windmill Farm (UK), by providing 51 generators, placed offshore.

Due to this particular remote location, the genset units have been equipped with a double wall metal tank (500L) and extended oil tank (7L) together with an auto refilling system. The galvanized canopy and all the related elements, made in galvanized steel, secure excellent protection against rust and corrosion.

## KEY FEATURES

- Power LTP 63,6 kVA standby power
- Power PRP 61,3 kVA prime power
- Voltage: 690v.
- Frequency: 50 Hz.
- Engine: Deutz BF4M2011C with EMR11 electronic regulation.
- Alternator: ECP 32 1L
- Canopy: Galvanized canopy and baseframe,
- Control Panel: Automatic Control panel equipped with COMAP AC03 control unit.
- Special equipment: Remote control by means of GSM Kit, Painted on RAL 9016, All exhaust parts made in galvanized steel, Automatic Fuel Pump to connect genset to an external extended fuel tank, Dummy Load System, 8Kw, 7L Extended Oil Tank together with Oil refilling System, Extended Fuel tank 500L, special baseframe design in order to avoid any windmill platform damage.



# BACKUP **STANDBY** POWER SUPPLY



KIRKUK (IRAQ)

# POWER PLANT BACKUP

# POWER PLANT BACKUP KIRKUK (IRAQ)

KW 1.319

## PROJECT

PRAMAC has been selected for supporting the reengineering of the Kirkuk Water Treatment Plant in Iraq - capable nowadays of delivering 95 million gallons of potable water each day - by providing a power plant backup of 1319 KW.

## KEY FEATURES

### GCW2800M

- Power PRP 2584 kVA
- Frequency 50 Hz
- Tension 6600 V
- Engine MTU 20V4000G23
- Alternator LEROY SOMER LSA53.1 VL85
- Tropical radiator
- Open version
- Incorporated fuel tank 1000 liters
- Automatic panel

### GCW1650P

- Power LTP 1649 kVA
- Power PRP 1500 kVA
- Frequency 50 Hz
- Tension 400 V
- Engine PERKINS 4012-46TAG2A
- Alternator STAMFORD PI7C
- Tropical radiator
- Soundproof enclosure noise level 70 +/-3 dB(A) @ 7 m
- Incorporated fuel tank 1000 liters
- Automatic panel



# BACKUP **STANDBY** POWER SUPPLY



BRUZ (FRANCE)

# INDUSTRY



#### PROJECT

PRAMAC has been selected by a company located in the western part of France and specialized in the pharmaceutical industry, to provide a backup power and "EJP" generator, thanks to its unique solution: securing a 72 hours autonomy on this specific power.

#### KEY FEATURES

GCW630V

- Power LTP 632 kVA
- Power PRP 572 kVA
- Frequency 50 Hz
- Tension 400 V
- Engine VOLVO TAD1642GE
- Alternator MECCALTE ECO40 1,5L
- Soundproof enclosure noise level 70 +/-3 dB(A) @7 m with special color
- Parallel panel with mains
- Fuel tank for 72 hours of autonomy @75% of PRP
- Engine water preheating system
- Manual battery switch





# BACKUP **STANDBY** POWER SUPPLY



JAKARTA (INDONESIA)

## COMMERCIAL & RETAIL

## COMMERCIAL & RETAIL JAKARTA (INDONESIA)

KW 20.778

### PROJECT

Situated in the heart of Jakarta, next to busiest business area location, the St. Moritz is a 8 towers iconic complex centre.

PRAMAC, due to its quality standard and competitive price has been chosen to take part of this main project, by providing back-up and stand-by power supply generators for the shopping mall and the residential apartments.

### KEY FEATURES

#### GCW1650P

- Power LTP 1650 kVA
- Power PRP 1508 kVA
- Frequency 50 Hz
- Tension 400 V
- Engine PERKINS 4012-46TAG2A
- Alternator LEROY SOMER LSA 50.2 L8
- Open Version
- Automatic panel

#### GCW 550P

- Power LTP 563 kVA
- Power PRP 513 kVA
- Frequency 50 Hz
- Tension 400 V
- Engine PERKINS 2506A-E15TAG2
- Alternator LEROY SOMER LSA 47.2 M7
- Open Version
- Automatic panel

#### GCW 660P

- Power LTP 660 kVA
- Power PRP 616 kVA
- Frequency 50 Hz
- Tension 400 V
- Engine PERKINS 2502806A-E18TAG1A
- Alternator LEROY SOMER LSA A47.2 L9
- Open Version
- Automatic panel



# BACKUP **STANDBY** POWER SUPPLY



BUCHAREST (ROMANIA)

## COMMERCIAL & RETAIL

## COMMERCIAL & RETAIL BUCHAREST (ROMANIA)

KW 1.370

### PROJECT

PRAMAC has been selected to support the Pallady Shopping Centre, in the East side of Bucharest: a big complex covering an area of 100.000 sqm, with 800m outdoor exposure and about 3.000 parking spots.

The generators provided are for back-up purpose but they can also function in parallel with the Mains. The requested powers were: Real - 1000 kVA LTP, Metro and OBI - 700 kVA LTP and for the shopping area - 350 kVA.

### KEY FEATURES

#### GCW705V

- Power LTP 703 kVA
- Power PRP 632 kVA
- Frequency 50 Hz
- Tension 400 V
- Engine VOLVO TAD1643GE
- Alternator MECCALTE ECO40 2L
- Soundproof enclosure noise level 70 +/-3 dB(A) @7 m
- Parallel panel with mains
- Engine water preheating system

#### GCW1000M

- Power LTP 1009 kVA
- Power PRP 913 kVA
- Frequency 50 Hz
- Tension 400 V
- Engine MTU 16V2000G25
- Alternator MECCALTE ECO43 2S
- Soundproof enclosure noise level 70 +/-3 dB(A) @7 m
- Incorporated fuel tank 1500 liters
- Parallel panel with mains
- Engine water preheating system



# BACKUP **STANDBY** POWER SUPPLY



LILLE (FRANCE)

## COMMERCIAL & RETAIL



#### PROJECT

AUCHAN, the 10th largest food retailer in the world and the 2nd in France, selected PRAMAC to replace the 1770 kVA genset in its store "Petite Forêt", close to Lille, in the north of France.

The customized GCW1770M, installed in "Petite Forêt", replaced an old genset that had broken its engine.

#### KEY FEATURES

GCW1770M

- Power LTP 1658 kVA
- Power PRP 1506 kVA
- Frequency 50 Hz
- Tension 400 V
- Engine MTU 12V4000G23
- Alternator STAMFORD PI7D
- Remote electrical radiator
- Open version
- Incorporated fuel tank 1000 liters
- Automatic panel



# BACKUP **STANDBY** POWER SUPPLY



LIMOUX (FRANCE)

## COMMERCIAL & RETAIL

## COMMERCIAL & RETAIL LIMOUX (FRANCE)

KW 1.006

### PROJECT

Leclerc, the largest food retailer in France with 520 stores, in the context of a global remodeling, selected PRAMAC to provide the store of Limoux, in south-eastern France, with a new 1260 kVA generator, for backup power and "EJP" applications.

### KEY FEATURES

GCW1260M

- Power LTP 1257 kVA
- Power PRP 1138 kVA
- Frequency 50 Hz
- Tension 400 V
- Engine MTU 18V2000G65
- Alternator MARELLI MJB400LA4
- Soundproof enclosure noise level 70 +/- 3 dB(A) @ 7 m
- Parallel panel with mains
- Engine water preheating system



# BACKUP **STANDBY** POWER SUPPLY



BUCHAREST (ROMANIA)

## COMMERCIAL & RETAIL

#### PROJECT

Raiffeisen Bank, with a network of 540 outlets throughout Romania, asked PRAMAC to provide one of its office and logistic buildings located outside Bucharest with a 800 kVA LTP generating set, working as back-up for the Mains.

#### KEY FEATURES

GSW815M

- Power LTP 807 kVA
- Power PRP 731 kVA
- Frequency 50 Hz
- Tension 400 V
- Engine PERKINS 4006-23TAG2A
- Alternator STAMFORD HCI6G
- Soundproof enclosure noise level 70 +/-3 dB(A) @7 m
- Automatic panel
- Engine water preheating system
- Automatic fuel transfer pump





# BACKUP **STANDBY** POWER SUPPLY



SOUTH AFRICA

# TRANSPORT

#### PROJECT

Bouygues Construction, a world leader in the construction market, selected PRAMAC to join in an ambitious public transport project, the Gautrain Rapid Rail. PRAMAC provided four gensets, installed to provide backup power for the railway located in the Gauteng province in South Africa.

The four GSW1260M are open versions and with parallel panel.

#### KEY FEATURES

4x GSW1260M

- Power LTP 1260 kVA
- Power PRP 1140 kVA
- Frequency 50 Hz
- Tension 400 V
- Engine MTU 18V2000G65
- Alternator MECCALTE ECO43-2LN
- Open Version
- Parallel panel



# BACKUP **STANDBY** POWER SUPPLY



TASHKENT (UZBEKISTAN)

## SPORT & RECREATION

## SPORT & RECREATION TASHKENT (UZBEKISTAN)

KW 1.398

### PROJECT

PRAMAC has been selected to provide 875 kVA generators to the Bunyodkor Stadium in Tashkent, Uzbekistan. The multi-purpose arena, currently used mostly for football matches, is the home ground of the Bunyodkor Football club and holds 34.000 spectators.

### KEY FEATURES

GSW875M

- Power LTP 874 kVA
- Power PRP 807 kVA
- Frequency 50 Hz
- Tension 400 V
- Engine PERKINS 4006-23TAG3A
- Alternator MECCALTE ECO43 1S
- Soundproof enclosure noise level 70 +/-3 dB(A) @7 m
- Automatic panel
- Manual battery switch
- Engine water preheating system
- Automatic fuel transfer pump



# BACKUP **STANDBY POWER SUPPLY**



EQUATORIAL GUINEA

## SPORT & RECREATION



## SPORT & RECREATION EQUATORIAL GUINEA

KW 1.600

### PROJECT

One of the leading African companies in the marine projects sector, working in particular in Equatorial Guinea, selected PRAMAC to collaborate in the building of a hotel; PRAMAC provided two 1000kVA generating sets with a separated synchronization panel for the supply of sensitive loads in case of blackout.

### KEY FEATURES

GCW1000M

- Power LTP 1009 kVA
- Power PRP 931 kVA
- Frequency 50 Hz
- Tension 400 V
- Engine MTU 16V2000G25
- Alternator MECCALTE ECO43 2S
- Soundproof enclosure noise level 80 +/-3 dB(A) @ 1m
- External emergency synchronizing panel for N°2 gensets



# BACKUP **STANDBY** POWER SUPPLY



MADRID (SPAIN)

# TELECOMMUNICATIONS

**PROJECT**

Mediaset Spain, a Spanish national broadcasting TV channel, selected PRAMAC for providing a temporary/emergency generating set in Madrid.

**KEY FEATURES**

GCW1650P

- Power LTP 1649 kVA
- Power PRP 1500 kVA
- Frequency 50 Hz
- Tension 400 V
- Engine PERKINS 4012-46TAG2A
- Alternator STAMFORD PI7C
- Soundproof enclosure noise level 70 +/-3 dB(A) @7 m
- Incorporated fuel tank 1000 liters
- Parallel panel
- Double electrical starting systems



# BACKUP **STANDBY** POWER SUPPLY



MURCIA (SPAIN)

# TELECOMMUNICATIONS

# TELECOMMUNICATIONS

## MURCIA (SPAIN)

KW 894

### PROJECT

PRAMAC has been selected by TELEFONICA, one of the largest private telecommunications companies in the world, to provide a Special Super Soundproof Genset. The generator, installed on the roof of a building located within its Headquarters in Murcia, is equipped with a customized control panel; a special canopy ensures that noise levels should not exceed 65 dB(A) at 7 meters.

### KEY FEATURES

GCW1120M

- Power LTP 1117 kVA
- Power PRP 1015 kVA
- Frequency 50 Hz
- Tension 400 V
- Engine MTU 16V2000G65
- Alternator MECCALTE ECO43 2L
- Container 20' noise level 65 +/-3 dB(A) @ 7 m
- Automatic panel as per Telefonica requirements
- Incorporated fuel tank 1000 liters
- Engine water preheating system





# BACKUP **STANDBY** POWER SUPPLY



CHISINAU (MOLDOVA)

# TELECOMMUNICATIONS

#### PROJECT

PRAMAC has been selected by Orange, the biggest mobile operator in Moldova, to provide a back-up genset of 1400 kVA in LTP for the Headquarters building in Chisinau.

The PRAMAC genset is now working as back-up for the Mains.

#### KEY FEATURES

GCW1400

- Power LTP 1382 kVA
- Power PRP 1250 kVA
- Frequency 50 Hz
- Tension 400 V
- Engine PERKINS 4012-46TWG2A
- Alternator MARELLI MJB400LB4
- Container 25' noise level 70 +/-3 dB(A) @7 m
- Automatic panel
- Incorporated fuel tank 1000 liters
- Engine water preheating system
- Automatic fuel transfer pump



# BACKUP **STANDBY** POWER SUPPLY



LOBITO (ANGOLA)

# TELECOMMUNICATIONS

# TELECOMMUNICATIONS

## LOBITO (ANGOLA)

### PROJECT

PRAMAC has been selected by UNITEL, one of most important TELECOM companies in ANGOLA, to provide gensets for emergency plants, supplying energy in case of mains failure to the mobile telephone network across the entire country. The project consist of 30 generators, between 150 and 170 kVA, running in parallel mode and providing each 113kWe, in standby.

### KEY FEATURES

- GSW150 DEUTZ + STAMFORD, soundproof version, modular
- Parallel Control Panel.
- Special design with Pre-Insulating Polyurethane Foam soundproof attenuation material.
- Accessory in control panel of protocol IB-NT (GPRS) for remote communication.
- 1000 L Sub base extended fuel tank.



# BACKUP **STANDBY** POWER SUPPLY



CHATELAILLON (FRANCE)

## WATER TREATMENT



## WATER TREATMENT CHATELAILLON (FRANCE)

KW 651

### PROJECT

OTV, world leader in environmental services, selected PRAMAC for a GCW815P generating set, thanks to the quality of its products and its price positioning. The GCW815P generator has been installed to provide a water treatment plant set in the west of France with an emergency power supply.

### KEY FEATURES

GCW815P

- Power LTP 814 kVA
- Power PRP 737 kVA
- Frequency 50 Hz
- Tension 400 V
- Engine PERKINS 4006-23 TAG2A
- Alternator MECCALTE ECO43-1SN
- Canopy Version



# BACKUP **STANDBY** POWER SUPPLY



BRITTANY (FRANCE)

# WATER TREATMENT

## WATER TREATMENT BRITTANY (FRANCE)

KW 983

### PROJECT

PRAMAC has been selected by a 50-years-experienced company managing water supply and wastewater services, to provide backup power to a drinking-water treatment plant located in Brittany in the west of France.

The two generators installed, one GCW1000M and one GCW220D, are both canopied and connected in load take over.

### KEY FEATURES

#### GCW1000M

- Power LTP 1009 kVA
- Power PRP 913 kVA
- Frequency 50 Hz
- Tension 400 V
- Engine MTU 16V2000G25
- Alternator MECCALTE ECO43 2S
- Soundproof enclosure noise level 70 +/-3 dB(A) @7 m
- Parallel panel
- Engine water preheating system

#### GCW220D

- Power LTP 220 kVA
- Power PRP 204 kVA
- Frequency 50 Hz
- Tension 400 V
- Engine DEUTZ BF6M1013FC
- Alternator MECCALTE ECO38 2S
- Soundproof enclosure noise level 70 +/-3 dB(A) @7 m
- Parallel panel
- Engine water preheating system



# BACKUP **STANDBY** POWER SUPPLY



FREJUS (FRANCE)

## WATER TREATMENT

## WATER TREATMENT FREJUS (FRANCE)

KW 2.216

### PROJECT

PRAMAC has been selected by a 40-years-experienced manufacturer of machinery and electrical equipment to provide a water treatment plant set in Fréjus, in the south of France, with an emergency power supply.

The two GCW1400P generators designed by PRAMAC, both open versions, are coupled with the EDF network and work in « EJP ».

### KEY FEATURES

2 x GCW1400 P

- Power LTP 1400 kVA
- Power PRP 1266 kVA
- Frequency 50 Hz
- Tension 400 V
- Engine PERKINS 4012-46 TWG2A
- Alternator MECCALTE ECO43-2L
- Open Version
- EDF connection network
- Working in EJP
- Double electrical start





# BACKUP **STANDBY** POWER SUPPLY



HOUSTON/TEXAS (USA)

# WATER TREATMENT

## WATER TREATMENT HOUSTON/TEXAS (USA)

KW 2.453

### PROJECT

PRAMAC has been chosen to join in this project promoted by the City of Houston ( Texas ) and consisting of 3 generators in a water treatment facility scheduled to be re-built. PRAMAC was able to offer a package consisting of a GSW870M installed on a 2000 gallon UL142 base fuel tank as a more cost effective solution than re-building the existing generators. Due to the importance of the project - part of the emergency management and hurricane preparedness plan of the City of Houston - PRAMAC provided also personnel on-site training on use, maintenance and initial start-up for each generator set.

### KEY FEATURES

GCW870M

- Power LTP 1022 kVA
- Power PRP 926 kVA
- Frequency 60 Hz
- Tension 480 V
- Power factor 0,8
- Engine MTU 12V2000G85
- Alternator STAMFORD HCI6G
- Canopy noise level 75 +/-3 dB(A) @7 m
- Baseframe suitable for bigger tank under genset
- Automatic panel



# PRAMAC WITH YOU

GIGLIO ISLAND (ITALY)



SIENA (ITALY)



SIENA (ITALY)



OKLAHOMA (USA)



# PRAMAC WITH YOU

SANTIAGO DI CAMPOSTELA (SPAIN)



DHAKA (BANGLADESH)



GRAZ (AUSTRIA)



MARANELLO (ITALY)





# PRAMAC WITH YOU

UNITED NATIONS (MALI)



DAKAR (SENEGAL)



PORTO CERVO (ITALY)



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