



# CASE STUDY

## REPOWERING PRAMAC FACTORY IN CHINA



### Location

Shunde, Foshan  
Guangdong Province, China



### Product & Application

GGW300 natural gas genset  
for emergency backup power



### End user/Contractor

PRAMAC Fu Lee Foshan

## SUMMARY

Our PRAMAC Fu Lee Foshan factory in China has been using two 400kW, 400V diesel generators as backup power for its operations. Both generators were installed in 2004 and have been in use for over 16 years.

As the two old diesel units had reached their end of useful life and needed to be replaced, considering the innovative technology that PRAMAC has developed in these years in alternative-fuel backup power generation, the factory has decided to replace the standby generator set, with a more environmentally-friendly one.



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## FEATURES

The GGW300 gas generator set adopts a powerful Generac 14.2-liter natural gas engine, rated Emergency-Standby Power (ESP) 300KVA /240KW, optimized to run on a stoichiometric (oxygen-enriched) combustion to meet ISO8528 G2 performance-class standards. Thanks to a quick-starting system and combustion optimization, this gaseous generator-set is capable to withstand a single-step loading of 50% within 10-seconds and to restore emergency power within 10-seconds from a mains-power outage, which can meet the requirements of the factory with providing the initial power to an air compressor first and rapidly increasing its clean power to 240kW.

The powerful GENERAC Power Zone Pro Synch™ controller has a Gen-set to Gen-Set synchronization function to allow for integrated modular parallel, without the need of an external switchgear which This function is particularly useful when planning for future expansion of the power backup capacity with the addition of additional generating units.



## FUEL SUPPLY

The generator set has been connected to the municipal gas pipeline near the factory, providing a stable and reliable fuel supply. With a natural gas gen-set there are no concerns about fuel storage, supply and possible degradation like with diesel. Natural gas fuel consumption is very low: GGW300G unit needs a maximum of 66.25m³/h natural gas for full-load operation, which reduces considerably the operating costs compared to traditional diesel.



## BENEFITS

With outstanding performance, the new backup gas generator set is extremely reliable and meets the demanding requirements of the company's emergency backup power. The two old diesel generators, installed previously, have been transferred to an electric power leasing company.

