

Case Study



Dunlop Tyre Plant CHP



Client	Capacity	Location	Operational
Dunlop Nigeria PLC	1MW	Ikeja, Lagos, Nigeria	2002

Manufacturer	Packager	Type	Primary fuel
GE Jenbacher	Clarke Energy Ltd, UK	1 x 1MW JMS 320 GS-N.L	Natural Gas

SITE DESCRIPTION:

In 2002 the board and management of Dunlop Nigeria PLC made a major policy decision to ensure they have reliable electrical power for their tyre manufacturing facility in Ikeja, Lagos. With the confidence gained during the past 12 years of Clarke Energy Ltd providing an unblemished service in the supply of spare parts and engineers for their aging Diesel Generators, Dunlop became the first company in Nigeria to own and operate a GE Jenbacher gas powered generator.

The gas powered GE Jenbacher reciprocating engine generator is the worldwide market leader in its class, well proven in the Indian Subcontinent where they experience similar climatic conditions as Nigeria.

From the GE Jenbacher Type 320 generator, in addition to obtaining 1006 kW continuous reliable electricity supply to their Ikeja factory, Dunlop are also utilising 576kW heat from the cooling and lubrication systems to increase the temperature of feed water to their gas boilers.

With the low cost of high quality natural gas, coupled to low maintenance costs, achieved through minimal maintenance requirements and lubricating oil changes every 2,000 hours compared to every 500 hours on similar diesel generators, and medium overhauls every 30,000 hours (so not applicable until the fourth year of operation), Dunlop calculate their GE Jenbacher generator will give them a pay back in just 15 months.

Clarke Energy, through the GE Jenbacher gas generator, now offer the industries of Nigeria the ultimate in power generation, electricity, heat and cooling through absorption chillers.



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