

CASE STUDY

50% reduction in monthly energy costs – remote offgrid site



NO ENVIRONMENTAL POLLUTANTS



ONE SITE SERVICE VISIT PER YEAR



35% REDUCTION IN FUEL COSTS

BACKGROUND

The 2nd largest mobile operator in South Africa wanted to reduce its dependency on traditional diesel gensets and reduce operational energy costs, fuel theft and exposure to load shedding by the electricity grid provider. This prompted to partner with Bladon Micro Turbine and its local service provider Abbott Technologies to deploy Bladon's Micro Turbine Gensets.

SOLUTION

A huge growth in demand prompted by a rise in the number of people working from home during the COVID-19 pandemic has led to a steady increase in the number of towers without ready access to grid power. Rather than installing diesel gensets powered by batteries and/or solar power, Abbott Technologies selected the Bladon Micro Turbine Genset to deliver reliable, cost-effective power to tower sites near residential areas. Compared to hybrid gensets, fuel cells, or solar hybrid solutions the Bladon solution is simpler, has lower site maintenance needs, more secure supply of fuels throughout the year.

BENEFIT

The Bladon Micro Turbine Genset slashed onsite operating and maintenance costs in half and eliminated engine oil/liquid coolant costs completely. It also virtually eliminated site service visits, paring them back to just one a year. The net result – ultra-low maintenance costs, lower fuel costs and low harmful emissions.

SUMMARY

- Eliminated all engine oil/liquid coolant costs
- Slashed operating and maintenance costs by 50 percent
- MTG can be fuelled with kerosene, diesel or a blend of the two
- Provides quiet, low-emissions operation
- Simple, scalable power solution
- Generates no complaints from neighbours

“With the quality of the grid in South Africa, all of our customers need reliable and essential backup power that must be delivered in a cost-effective way. We have, with the Bladon MTG, been able to reduce our customers' monthly operational costs by half!”

Andrew Edmondson, CEO, Abbott Technologies

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