

## ELECTRICITY – 2

# MTN reduces reliance on national electricity grid

WASTE heat recovery has started at two major sites owned by telecommunications group MTN, with more sites to be converted during the remainder of the year, power solutions provider Master Power Technologies says.

MTN makes use of trigeneration, with gas used to produce electricity to power its operations, while engine waste heat is used to either generate hot water or take the hot water through a heat absorption process to produce chilled water for use in the company's buildings.

The group's facilities consume large amounts of electricity for lighting, heating and ventilation

and transmission equipment and, by using gas as an energy source, the group is able to run independently of municipal power and is unaffected by rolling blackouts and load-shedding.

Master Power senior sales engineer **Dave Warren** says MTN is in the fortunate position where, by increasing its power generating efficiency from 40% to about 90% through the recovery of waste heat, it will be able to reduce the cents per kilo-watt-hour cost of that electricity by over 50%, as the complete trigeneration package delivers cheaper power than the local municipality. 