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## BISASAR ROAD LANDFILL GAS TO ELECTRICITY – OFFICIAL LAUNCH

The eThekweni Municipality landfill gas-to-electricity project was officially launched on 28<sup>th</sup> January 2010 with a ceremony held at the Bisasar Road gas to electricity compound. Among those present were Energy Minister Ms. Dipuo Peters, Deputy Minister of Trade Ms. Maria Ntuli and eThekweni acting Mayor Logie Naidoo. The launch follows the second phase of the project with the addition and commissioning of two new Jenbacher 320 series engines in July / August 2009.



*Minister's viewing containerised GE Jenbacher gas engines installed at Bisasar Road*



*A presentation of the Hofstetter flare and gas extraction system*

Bisasar Road remains the iconic landfill gas-to-electricity project due to its scale and UNFCCC registered CDM project under the Kyoto Protocol for climate change. This means that income can be derived from selling electricity as well as Carbon Emission Reductions (CERs) gained from combusting harmful methane gas (methane is classed 21 times higher than CO<sub>2</sub> in terms of greenhouse gas Global Warming Potential).

Bisasar road gas-to-electricity project comprises:

- A 2000 Nm<sup>3</sup>/hr Hofstetter flare and gas extraction equipment.
- Six GE Jenbacher JGC 320 GS - LL series engines (1 MW el each)
- One GE Jenbacher JGC 312 GS - LL series engine (0.5 MW el)

This enables Bisasar Road Landfill to potentially generate 6.5 MW el/hr (over 4000 MWh per month), and combust roughly 4200 Nm<sup>3</sup>/hr of harmful landfill gas (over 3 million Nm<sup>3</sup> per month).



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