

NEW ZEALAND: PALMERSTON NORTH AWAPUNI LANDFILL GAS TO ELECTRICITY GENERATION PROJECT

Kyoto Mechanism:	Joint Implementation
Project Category (UNFCCC):	Waste Management
Location:	Palmerston North, New Zealand
Emission Reductions purchased:	149.006 t CO _{2e}

The Awapuni landfill-gas project consists of the construction of a landfill gas capture system and the installation of a 970-kW gas engine for electricity production. The landfill is owned by the city Palmerston North. Under the current legal situation in New Zealand („Resources Management Act – RMA“) such a landfill gas capture system is not mandatory and consequently landfill gas, containing about 50% methane is leaking into the atmosphere.



After project implementation about 590 m³ landfill gas per hour will be captured and will be used for electricity generation. Surplus landfill gas will be flared.



Between 2008 till 2012 the project will generate emission reductions of app. 241,605 tons CO_{2e} through the avoidance of methane emissions. 149,006 tons CO_{2e} have been sold to the Austrian JI/CDM Programme.

The surface of the landfill will be covered by humus and thereby will reduce the rain water entry into the landfill and the amount of seepage water.

The project started operation (gas engine) in April 2006.