

What and how much is being made in New Zealand?

The table below sets out some brief details of the key biogas generation sites in New Zealand and the party that owns/operates them. They are listed in terms of the type of biogas, i.e., landfill, rural waste (farm or food waste), wastewater, co-digestion, etc.

Project Name	Type of Biogas	Application	Owner	Location	Power Rating kW	Gas Rating kW (or specify)	Gas Potential kW	Year of Commissioning
Landfills:								
Greenmount	landfill	Power Generation	Envirowaste Services	Auckland	1,200.0			1992
Rosedale	landfill	Power Generation	Envirowaste Services	Auckland	500.0			1992
Redvale	landfill	Power Generation	Transpacific Industries	Auckland	12,000.			
Whitford	landfill	Power Generation	Transpacific Industries	Auckland	3,000.0			
Hamilton	landfill	Power Generation	Decommissioned	Hamilton				
Palmerston North	landfill			Palmerston North	1,000.0			
Tirohia (Hauraki)	Landfill	Power Generation	HG Leach	Tirohia	1,000.0			
Nelson	landfill	Heating	Nelson City Council	Nelson		300		
Hampton Downs	landfill	Power Generation	Envirowaste Services	Waikato	4,000.0			
Happy Valley	landfill	Power Generation	Nova Energy	Wellington	1000			2008
Silverstream	landfill	Power Generation	Pioneer Generation	Lower Hutt	2700			1993
Spicer Landfill	landfill	Flaring	Porirua City Council	Porirua / Wellington			1,000	2009
Burwood Landfill (1)	landfill	Cogeneration	Decommissioned	Christchurch			4,000	2007
Burwood Landfill (2)	landfill	Cogeneration	Christchurch City Council	Christchurch	475			2010
Subtotal - Landfills					26,875.0	300	5,000	

Waste Water Treatment Plants:								
Tauranga WWTP	sewage	cogeneration	Tauranga City Council		230			2005
Christchurch Bromley WWTP	sewage	cogeneration	Christchurch City Council	Christchurch	2400			1996/2013
Mangare WWTP	sewage	cogeneration	Watercare	Auckland	7400			2001
Northshore	sewage	cogeneration	Northshore City Council	Auckland	800	230		2001
Hamilton WWTP	sewage	cogeneration	Hamilton City Council	Hamilton	1000			2010
Piggery Waste	rural waste	research	NIWA	Waikato	20			2008
Tirau Dairy	industrial waste	boilers	Fonterra	Tirau		4,000		1990
FORTEX Silverstream	wastewater biosolids	boilers	Decommissioned	Mosgiel			1,000	1992
PNCC digester upgrade (Totara rd)	codigestion	cogeneration	Palmerston North City Council	Palmerston North	750			2008/2010
Green Island digester	thermophilic biosolids	cogeneration	Dunedin City Council	Dunedin	625	625		2012
Hamilton CC digester upgrade	codigestion	cogeneration	Hamilton City Council	Hamilton	1000			projected
Subtotal - Waste Water Treatment Plants					14,225	4,855	1,000	
Industrial Digester:								
Piggery waste	rural waste	study	Department of Corrections	Canterbury				2009
Beef feedlot manure	feedlot waste	study	Industry	Canterbury			1,000	2008
Piggery feedlot manure	feedlot waste	study	Industry	Waikato			2,000	2008
Kiwifruit waste	rural waste	study	Zespri	Tauranga			500	2008
Chicken waste	industrial waste	study/research	Inghams	Waikato			500	2008
Piggery waste	rural waste	study	PIC	Canterbury			500	2008
Subtotal - Industrial Digester					0	0	4,500	
Total - Biogas capacity currently planned								
Total - Biogas capacity already installed in NZ in kW					41,100	5,155	10,500	46,255 installed
Total - Biogas capacity already installed in NZ in mW					41	5		10,500 projected

The current estimate of total biogas capacity (including potential generation) in NZ is around 57 MWth. The majority of this is used for electricity generation.

If you have a project planned or an operation that is not represented in table - we would be keen to hear from you. Please [Contact Us](#).