






methane energy

on Dairy Farms in Southland



By capturing your cows effluent and manure you can create electricity to power your milking shed, produce hot water and run your electrical farming machines and tools.

current **pilot** project:

- Glenarlea – first successful retrofit methane to energy farm in NZ
- Proven viability of methane recovery in Southland 
- 930 cows milked TAD from August to May 
- Producing up to 480kw of power & 3,160l of hot water a day
- Avoidance of 19,320t of CO₂ over 25 years 
- Equivalent to 286 cars off the road per year 
- Excess electricity charges electric farm bikes 

further **benefits:**

- Significant reduction of methane and carbon emission
- Reduction in farm's operating cost, increase of farm profitability and efficiency
- Reliable power supply for farm, less reliance on electricity supply and back up generators
- Production of hot water to use for plant wash
- Dramatically reduces effluent pond odour
- Faster abortion of nutrients to soil from irrigation system, due to breakdown of organic matter in methane pond
- Reduction of effluent solids and provides fertiliser rich digested sludge
- New technology can provider further efficiencies, benefits and savings



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every **COW** counts....

- Have you got a large farm, around 900 or more cows? The average payback time forecast for a Methane Recovery system is 7 years
- The more time cows spend on concrete, e.g. stand off or feed pad, the more effluent will be captured and methane produced
- Price and payback time will vary according to the distance between the concrete catchments and pond site

Glenarlea farm success to date:

- 330 ha dairy farm in Southland, part of Fortuna Group
- Producing power since Nov 2016
- Feasibility study backing viability of methane recovery on Dairy Farms in Southland completed in 2013
- Testing of effluent samples and project support through the National Institute of Water and Atmospheric Research (NIWA)
- Venture Southland providing advice, funding support and guidance to project

Are you interested in energizing the Methane on your farm? We will provide you with the necessary information, assess your farm's outlay, provide you with a quote and the best people to get the job done.

For more information ring Isabel at
Venture Southland on 03 211 9102

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