

Use this table to enter the details for your dairy shed. Then go online to genesisenergy.co.nz/dairysavings, enter your inputs from this chart, and our Genesis Energy Efficiency Calculator will work out your best opportunities to make energy savings. Genius really!

Farm and Electricity Account Inputs	Fill in your details here	Rates should be input GST exclusive
Number of cows being milked		
Milking days per year		
Day/Night metering	Yes/No	
If yes for day/night, percentage of night use	%	% = (night use / [night use + day use]) x 100
Do you have a specific Hot Water/Control meter	Yes/No	
Anytime/General tariff	cents/kWh	If time of use (TOU) meter, use average of variable (cents/kWh) energy and line rates
Day tariff	cents/kWh	
Night tariff	cents/kWh	
Hot Water/Control tariff	cents/kWh	
Prompt payment discount applicable	%	0%, 5%, 10%, 15%, 20%
Hot Water Inputs		
Equipment wash – hot water volume per wash	Litres	Convert gallons to litres by multiplying by 4.5
Number of equipment washes per week		
Vat wash – hot water volume per wash	Litres	
Number of vat washes per week		
Hot water temperature in cylinder	°C	Usually 85°C
Average water supply temperature to cylinders	°C	Temperature can vary between summer and winter
Refrigerant in milk refrigeration unit		Usually found on milk cooling refrigeration unit eg. R12 or R22
Output water temperature from pre-cooler	°C	
Milk cooling refrigeration motor size	kW or hp	
Milk Cooling Inputs		
Milk vat size	Litres	
Milk vat location	Inside or outside	
Is milk vat insulated	Yes/No	
Is there a milk pre-cooler	Yes/No	
Milk temperature into vat (usually after pre-cooler)	°C	Regulations are for 18°C
Target milk temperature in vat	°C	
Is milk cooled by an ice bank or a chilled water system	Yes/No	
Volume of milk per cow per day (average)	Litres	
Milk Vacuum Pump Inputs		
Time taken for morning milk	Minutes or hours	This is the average time milking equipment is switched on eg. vacuum pump
Time taken for evening milk	Minutes or hours	
Number of vacuum pumps		
Vacuum pump motor size	kW or hp	
Variable Speed Drive currently installed	Yes/No	This would be installed on the vacuum pump