## Cost of Ownership = Time Costs + Fuel Cost + Maintenance Cost + Capital Equipment Designed and copyright by Rod Ennor - Irrigation Warehouse Group Pty Ltd Phone 02 6732 6333

		L/Min @ 28m of head OR da		
	Charge to run power to s	Petrol price per litre Electricity per kW hour Diesel price per litre Time / labour cost per hour ite and install transformer	\$1.40 \$0.20 \$1.40 \$25.00 \$70,000.00	
	Deep Well Injector 2.2 kW Mains power	Submersible 240v 0.75 kW Mains power	Grundfos Solar 16 x GF70 Tracking	Diesel Generator & submersible pump 0.75 kW Pump
Fuel / Energy Costs				
Operating hours per Day	18	10	10	10
Litres of fuel per hour				1.85
Motor kW per hour	2.2	0.75	0	
Fuel / Energy cost \$ per hour	\$0.44	\$0.15	0	\$2.59
Fuel / Energy cost:Day	\$7.92	\$1.50	\$0.00	\$25.90
Fuel / Energy cost:Year	\$2,890.80	\$547.50	\$0.00	\$9,453.50
25-year fuel / energy cost	\$72,270.00	\$13,687.50	\$0.00	\$236,337.50
Operating Time start//fuel the unit/check				
Hours per month	2	1	1.5	15
Hours per year	24	12	18	180
25-year operating hours	600	300	450	4500
\$ Value of required time over 25 years	\$15,000.00	\$7,500.00	\$11,250.00	\$112,500.00
Maintenance Costs				
Litres of oil per year	0	0	0	52
Oil filters per year	0	0	0	6
Value of oil and filters pa	0	\$0.00	\$0.00	\$370.00
25-year maintenance cost	\$0.00	\$0.00	\$0.00	\$9,250.00
Total cost of energy & operation over 25-years	n \$87,270.00	\$21,187.50	\$11,250.00	\$358,087.50
Meg pumped in 25-years	456.25	456.25	456.25	456.25
Cost per Megalitre	\$191.28	\$46.44	\$24.66	\$784.85
Capital Equipment Costs				
Initial capital equipment excludes installation	\$2,500.00	\$3,500.00	\$36,000.00	\$10,500.00
Replacement cap equipment over 25-years	\$1,000.00	\$4,000.00	\$4,000.00	\$12,000.00
Mains power transformer	\$70,000.00	\$70,000.00		
Solar Pumping Rebate			\$9,100.00	
Total capital equipment costs	\$73,500.00	\$77,500.00	\$30,900.00	\$22,500.00
Energy / Fuel	\$72,270.00	\$13,687.50 \$7,500.00	\$0.00	\$236,337.50
Time Maintenance	\$15,000.00 \$0.00	\$7,500.00 \$0.00	\$11,250.00 \$0.00	\$112,500.00 \$9,250.00
Capital Equipment	\$73,500.00	\$77,500.00	\$30,900.00	\$22,500.00
Total Costs 25-years	\$160,770.00	\$98,687.50	\$42,150.00	\$380,587.50
Cost per Meg all up	\$352.37	\$216.30	\$92.38	\$834.16

The figures shown in this table are actuals worked out on a real project - "Branga Plains'

Electricity, petrol and diesel prices are calculated on the price today and not what they will be in 10-years

The monthly lease payment for this solar system would have been approximately \$700-00 per month over 5 years