

**Solar Pump**- Major Overhaul every 10 years, replacement 30 years

Purchase	\$6,865	\$228.83 Per year
Supply and installation (excl cost above) 5% IRR	\$22,124	\$1,106.19 Per year
10,000hr overhaul		\$2,500 Per 10,000hrs

Total solar hours at Port Macquarie

Average annual useful daylight 10 hours per day

Average clear days 73%

Total available hours per year 2665

Typical Irrigation Hours needed per year 500

Hours to pump 12ML to storage 1333

**Total hours of operation per annum 1833** Less than available sunlight hours so achievable**Solar pump cost per annum (500hrs operation) \$1,460.02****Diesel Pump**- estimate replacement at 10,000hrs

\$ Per 1000hrs

Purchase	\$3,127	\$312.70
Diesel 1L/hr \$1.50 per hour		\$1,500.00
Oil filter \$40 every 100hrs		\$400
Engine Oil 1L/hr \$23 every 100hrs		\$230
Air Filter \$10 every 500hrs		\$20
Fuel Filter \$15 every 1000hrs		\$15
Overhaul \$500 every 1000hrs		\$500
		\$2,977.70 per 1000hrs

**Diesel pump cost per annum (500hrs operation) \$1,488.85****Mains Electric Pump**- Major overhaul every 10 years, replacement 30 years

Purchase \$3,000 \$100.00 per year

Power supply and installation, allow 5% IRR \$23,000 \$1,150.00 per year

per 1000 hrs

Mains electricity \$0.30 per kwh \$792.00

10,000hr overhaul \$2,000 every 10000hr \$200

\$2,242.00 per 1000hrs

**Mains electric pump cost per annum (1833hrs operation) \$2,371.00**