



**ELECTRICAL SOLUTIONS**

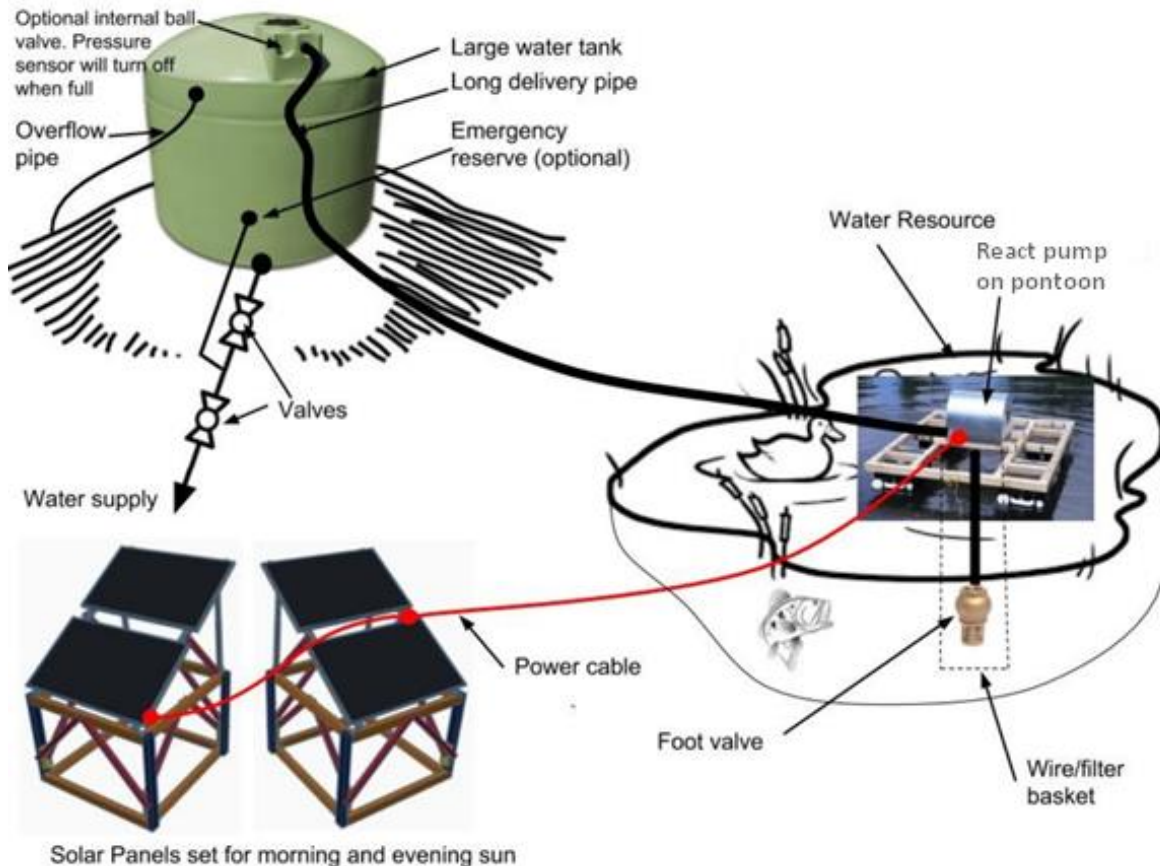
# Farm Water Pumping

*with the*

## React solar powered pump



The React pump is an ideal pump for filling livestock watering tanks. It is powered by solar panels and is clean, quiet, low maintenance and has a low cost of ownership long term—and it's made in New Zealand.



## Advantages of the React pump:

- Can pump higher and further than other pumps
- Far more cost effective than the competition
- World best in class efficiency
- Simply add 2-6 solar panels and pipe—**no batteries required**
- Pumps when the sun shines—**no ongoing diesel or electricity costs**
- Pumps to a set pressure (the point where the ball cock start to close)
- Pressure stop point is set via a simple push button
- Brushless motor design—no wearing parts in the motor
- Efficient Direct drive motor—no gearbox to fail
- Slow running (200 – 1200 rpm) makes it quiet and durable
- Motor speed controller MPPT tracker for maximum solar power
- Light at <20kg so can float on a pontoon on storage dams
- Can pump clean or dirty water (within reason)



## Pump performance Table

Expected litres per day in a typical New Zealand location

E.g., on a typical summer day will pump about 6,800 litres per day to a 150m dynamic head (120m vertical lift + 30m pipe friction head loss).

1080W solar PV installed (540W East and 540W West)						
Month	Head (m)					
	<50m	100	150	200	250	300
December	8439	7378	6390	5610	4918	4287
January	8985	7855	6804	5973	5236	4564
February	8879	7763	6724	5903	5174	4510
March	8054	7041	6099	5354	4694	4091
April	6093	5327	4614	4051	3551	3095
May	4816	4211	3647	3202	2807	2446
June	3955	3458	2995	2629	2305	2009
July	4835	4227	3662	3215	2818	2456
August	5838	5104	4421	3881	3402	2966
September	6745	5897	5108	4484	3931	3427
October	7602	6646	5756	5054	4430	3862
November	8287	7246	6276	5510	4830	4210



Contact McNae Electrical Solutions for your solar farm water pumping needs. We can supply and install the complete package with solar panels and pumps for every application.

We also install solar on houses, businesses, dairy sheds etc. Grid connected or off grid.



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