



# The Power To Save



The cost of running water transfer pump stations can be heavily reduced by simply applying a timeclock/demand system that utilises the most of Off Peak power at a cheaper rate than Peak Power.

Such systems can be easily incorporated (and should be considered) at the design stage, but can also be retro-fitted on existing transfer pump stations, if certain conditions are met...



The requirements to run Water Transfer Pump Stations primarily on Off Peak power are set out below.

- . Pump stations need to be able to deliver daily usage in approximately 8hrs or less
- . The storage needs to have adequate supply to handle an emergency break down.
- . The system needs to have automatic/time clock control.

## Hamilton/Dunkeld Transfer Pump Station Example



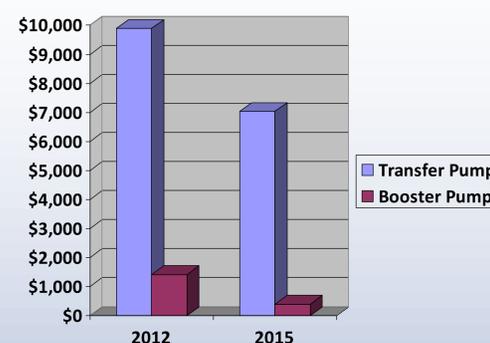
Dunkeld's water supply is held in a covered 5.5ML basin that is supplied from the Hamilton/Dunkeld transfer pump located on the Western end of the Hamilton reticulation system.

The transfer pump delivers 7 Lt/Sec through a 150mm main that is 30km long.

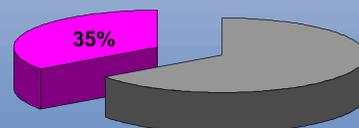
After commissioning in 2002 the basin relied on the level sensor to refill to a set point and this could be at any time of day and night.

This worked fine for supply but did not utilize cheaper Off Peak power.

With the money saved at this site through primarily running on Off Peak power it will more than cover the cost of pump replacement over a twenty year life span.



Cost Saving



The implementation of Time Clock/Off Peak running of Wannon Water's Hamilton to Dunkeld transfer station has resulted in a cost reduction of 28% annually.

This has also had a carry on effect as the transfer pumps are operating in during a low water demand time it has allowed for booster pumps within the system to be shut down and then creating an even bigger cost saving of 35% over all.

In dollars terms this site is saving around \$4000p/a.



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