

SOLAR POWERED ULTRASONIC FLOWMETER INSTALLATION

BACKGROUND:

HMA Instrumentation were approached by a Victorian based maintenance and operations company that manages a Saline wastewater pipeline at one of Australia's prominent Power Stations. The infrastructure consists of more than 15 km's of 600mm asbestos cement pipe, laid from the station cooling towers and finishes off in a mixing tank at the ash pond.

The Pipeline consists of a pump station and 28 inspection pits. Along the pipeline the original Magnetic Flow Meters are installed underneath ground level in the pits to monitor the flow.

Issue: The installed Magnetic Flow Meters were installed more than 15 years ago and are working intermittently, producing erratic and unreliable readings. The output from the Magnetic Meters is sent via radio signal to the pump station.

APPLICATION CHALLENGES:

- Change out flow meters without shutting the line, as the next major shutdown was not planned for 5 years.
- Accessing pit requires confined space permit and licensed operator.
- Challenging access to current Mag Meter due to tight space in the pit, machine digging required.
- Challenge of working with asbestos cement pipes.

HMA SOLUTION:

AT600 Clamp on Ultrasonic Flow Meter with Solar Panel, Batteries & Radio Communication.

BENEFITS:

- No need to cut the pipe.
- Access & ease of installation.
- Stand alone, self-powered, radio communication. (No need to lay expensive power cable and signal cable)
- Ease of access for maintenance.

CUSTOMERS REMARKS:

"The Ultrasonic AT600 flowmeter and power supply is producing reliable, consistent, flow readings.

The support and assistance from Dan Hatfield and Rajeev Mistry from HMA have been very professional and available whenever required during the purchase, installation, and ongoing operation of the flowmeter. I would highly recommend the AT600 Ultrasonic Flowmeter and the team at HMA for their knowledge and assistance for the operation of the flowmeter for the monitoring of Saline wastewater."

