



Recowatt Co. Ltd.

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## **SUCCESS STORY ANTI-SCALE**

Date: March 2011

Project Name: Bella Vista Complex Ref: 0111.

Client: Mr. Ray Formosa

Objective: Address scale issues in cold and hot water systems.

Equipment to be protected: Hotel cold and hot water pipes, fixtures and valves.

Calorifier used for heating water to a storage temperature of 65 °C.

Water quality data:

18 grains per gallon of hardness. Iron and manganese not detected. 7.7 pH units,  
0.44ppm free chlorine.

Evaluation period or test duration: 8 months and continuing.

Parameters:

The complex has a unique point of entry, whereby chlorinated ground water is pumped throughout the premises from a ground reservoir. The cold water enters a Calorifier where the temperature is raised to 65 °C. The heat exchanger is de-scaled every three months due to excessive scale build-up. The pipes feeding numerous cold and hot points of use were always blocked with scale build-up. All the problematic areas were cleaned from the scale build-up before the anti-scale media was installed.

Results:

The system has operated continuously for eight months as of the date of this report. There have not been any service requirements. The system does not use any chemicals. It does not require electricity and it does not waste any water. The previous scale issues have not occurred since the installation.

Photos of the plant before and after installation.

The following two photos were taken prior to the cleaning of both calorifier tanks and heat exchanger so as to have a clear comparison for anti scale treatment success.





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The above two photos were taken following 8 months of service with the anti scale system.





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#### Conclusion:

The anti-scale system is working as intended eliminating water related scale issues in the cold and hot water systems and saving the customer money in both maintenance and energy costs.

Furthermore the savings in replacing to previous system running costs in purchase of salt bags, waste of water in water back wash and discharge of brine are all issues resolved by the installation of Recowatt anti scale prevention system.

The return on investment is relatively short in the range of 26 months and calculated on consumables and energy efficiency only, all other benefits like reduced maintenance, extended equipment service are a complimentary to a successful implementation.

Mr. John Ciantar

Ing. Mario Xerri

Mr. Ray Formosa

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RECOWATT.

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