



/// Revamping of the water production unit

Background

History of high tap water (public water) consumptions in the plant refrigeration systems, the main water consumer. Existence of a waste water treatment plant of the industrial hole with higs contents of iron and inefficient and hard to operate decantation system.

Implemented Solutions

- Installation of a filtration system - OFSY (Omnifiltration System);
- Reuse of the existing decanter for treatment of filter washing currents;
- Implementation of a programme for treatment of water concentration of the refrigeration towers;
- Automation of the entire facility in order to have the most efficient process.



Fig. 1 – OFSY filters system.

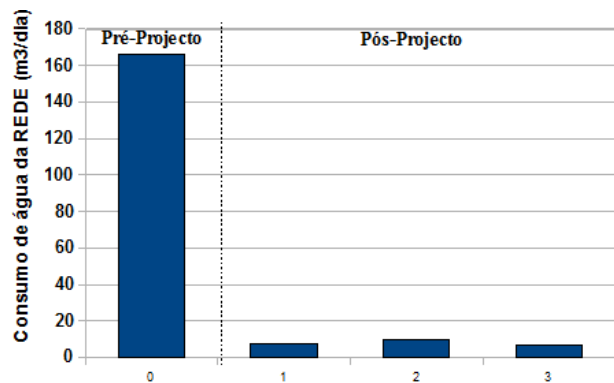


Fig. 2 – Actual water consumption and before the system implementation.

Results and Conclusions

- ✓ Cost reduction up to approximately **17.000 EUR/month**;
- ✓ Own collection optimization and production of quality water for the consumers, low iron contents;
- ✓ Operation costs reduction with the water treatment plant after revamping and automation, easy to operate facility;
- ✓ Best results at treatment level in terms of refrigeration and exchangers systems, even at a higher concentration index.

