

## Trends in waste water treatment and level monitoring

The traditional waste water treatment plant in the industrialized world relies on antiquated and overaged systems and networks for waste water treatment and uses standard methods for level monitoring to control the process. However in the waste water treatment industry new trends in waste water treatment and level monitoring appear, which may revolutionize how waste water is being handled and treated and may drastically improve the efficiency and effectiveness of this treatment process.



Very often developing countries are early adopters of new technologies and follow the trends in waste water treatment and level monitoring very quickly. They are able to combine existing systems and new technologies as they develop their waste water treatment network and build up modern infrastructure for their growing population and their increasing demand on clean water.

Modern sewage systems feature separation of the heavily contaminated black water from slightly contaminated grey water. They use grey water for flushing, constructed wetland for water treatment and irrigation as part of the system. The most modern systems will also separate rain and storm water from the regular sewage, harvesting rain as a cheaply available source of fresh water. Level monitoring of waste water plays an important part in each stage of the treatment process as even in the most modern systems, level monitoring solutions are a core component deciding on the overall efficiency.



One of the most innovative trends in waste water treatment and level monitoring is to use constructed wetland systems, that are being devised to mimic nature in the treatment of water and bacteria. Constructed wetland is flooded with waste water, to let nature biodegrade the contaminated water. As long as they are not overloaded they can consume organic matter and neutralize many pollutants. Where space permits, large lagoons or wetlands can ensure they are not overwhelmed by waste water and these areas will then be utilised to purify waste water.

The trends in waste water treatment and level monitoring go hand in hand to control these modern processes to treat waste water and to ensure waste water does not pollute the environment. The technology and trends in waste water treatment and level monitoring will continue to develop further as developing nations become aware of the dangers of untreated waste water and increase their need on clean and fresh water.

Today, waste water level is most often measured using submersible pressure transmitters in these developing treatment systems as they are simple to install and will work in environments that few other types of level probes will tolerate.

Please find further information on this topic on our information platform [www.wika.com/hydrostatic-level](http://www.wika.com/hydrostatic-level)



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