

Cleargreen™

biological treatment of effluents with high concentrations of ammonia

o urban wastewater



eliminate nitrogen caused by anaerobic digestion of sludge

• performance and savings economic and effective treatment of returns with loads of ammonia

innovation

deammonification allows the treatment of concentrated ammonia caused by anaerobic digestion of sludge at the head of the station – limiting the impact of digestion on the water treatment line

CleargreenTM (for Cyclic Low Energy Ammonia Removal) augments anaerobic treatment of sludge (biological, primary, co-digestion) to remove the nitrogen overload.

key figure







Cleargreen[™] technology . . .

CleargreenTM is designed to work within a biological sequencing batch reactor (SBR) such as CyclorTM, a SUEZ reactor that allows the successive completion of all treatment phases in the same tank.

Feed, aeration and deammonification phases are divided into sub-cycles and adapt in duration and intensity according to the characteristics of the effluent to be treated. The deammonification process uses bacteria known as Anammox, naturally present in environment. CleargreenTM does not require the addition of a biomass to function.

A specific treatment after anaerobic sludge digestion: with CleargreenTM, the flow of nitrates does not return to the head of the water treatment line, but is treated in an effective manner.

The reactor is equipped with captors, continually monitoring the system to limit human intervention









- automatic regulation of air supply = control of consumption

among our references

Richmond, USA 14-month prototype **Creil-Montataire (60), France** 17-month prototype Ourense, Spain capacity: 300,000 PE