



Algae Control in Wastewater Lagoons

- ✔ Eliminate up to 70-90% of the algae
- ✔ Improve water quality
- ✔ Reduce pH, TSS and BOD

Algae Control in Wastewater Lagoons

The MPC-Grid is a floating platform that combines real-time water quality monitoring and ultrasonic sound waves to control algae effectively.

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Control Algae with Ultrasound

Specific ultrasonic sound waves based on real-time water quality data can be used to control algae in wastewater lagoons.



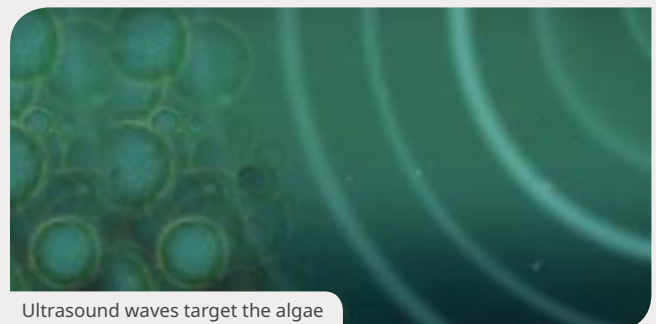
Improve water quality and reduce pH, TSS and BOD

How Ultrasound Targets Algae

Specific ultrasonic frequencies, waveforms and amplitudes can be utilised to directly target algae.

1. Ultrasound waves create a sound layer in the top layer of the water
2. The sound layer has a direct impact on the buoyancy of the algae
3. The algae cells sink to the bottom where they are unable to photosynthesize and eventually die due to a lack of light

LG Sonic products have been tested by various universities and are proven to be safe for fish, plants, zooplankton, and insects.



Ultrasound waves target the algae

[Learn more about ultrasound](#) 

LG Sonic Algae Control Products

MPC-Grid

The MPC-Grid is a floating platform that provides continuous online water quality monitoring, using ultrasound technology to control algae. The solution is to anchor one or multiple systems that transmit specific ultrasonic parameters depending on the type of algae.

- ✔ Sensor package provides real-time insight in the water quality
- ✔ The real-time water quality data is automatically transferred to online software



Real-time Water Quality Monitoring Software

Real-time water quality monitoring combined with web-based software allows to have a clear overview of the water quality in a drinking water reservoir.



- ✔ Real-time insight in the water quality
- ✔ Data transfer through radio, GPRS, 3G
- ✔ Ultrasonic program based on received data

The MPC-Grid provides a complete overview of the water quality by collecting the following parameters every ten minutes: Chlorophyll α (green algae), Phycocyanin (blue-green algae), pH, Turbidity, Dissolved Oxygen, and Temperature.

Based on the received data an algorithm determines the most effective ultrasonic parameters.

[Learn more about water quality monitoring](#) 

The customer can visually monitor the water quality, progress of the treatment, and technical status of the devices