



## DRINKING WATER RESERVOIR

LG Sonic successfully installed eight MPC Buoy systems in the Salve Faccha reservoir to monitor and control algal blooms. The reservoir, located in a far-off area, is one of the main providers of drinking water to the city of Quito, Ecuador.



### Eight MPC-Buoy systems installed at 4000m height

To lower the algae levels and improve the water quality in the Salve Faccha drinking water reservoir, eight solar-powered algae control systems were installed. Two weeks after the installation of the MPC-Buoy systems, significant improvements were made in the water quality.

### Importance of real-time water quality monitoring

Salve Faccha reservoir is a water reservoir located in the highlands of Quito, Ecuador. The reservoir is used as a drinking water source and provides approximately 40% of the drinking water to the city of Quito. To challenge algae problems in the reservoir, eight **MPC-Buoy systems** were installed to control algae effectively. Because of the location of the reservoir, at 4000 meters height, the online water quality software of LG Sonic, **MPC-View** is significant. Thanks to the software, the water quality of the reservoir can be monitored easily.



## Ultrasound technology as an environmentally friendly solution



The MPC-Buoy system controls algae in large water surfaces, using real-time water quality monitoring and **remote sensing** to analyse current algae and to predict algal blooms. The technology is based on ultrasound, which can effectively control algae by **specific frequencies and amplitudes**. The technology is environmentally friendly and safe for fish, plants, and zooplankton.

**At the moment, the LG Sonic MPC-Buoy is installed in lakes and water reservoirs in the United States, Canada, United Kingdom, and Malaysia among other countries.**