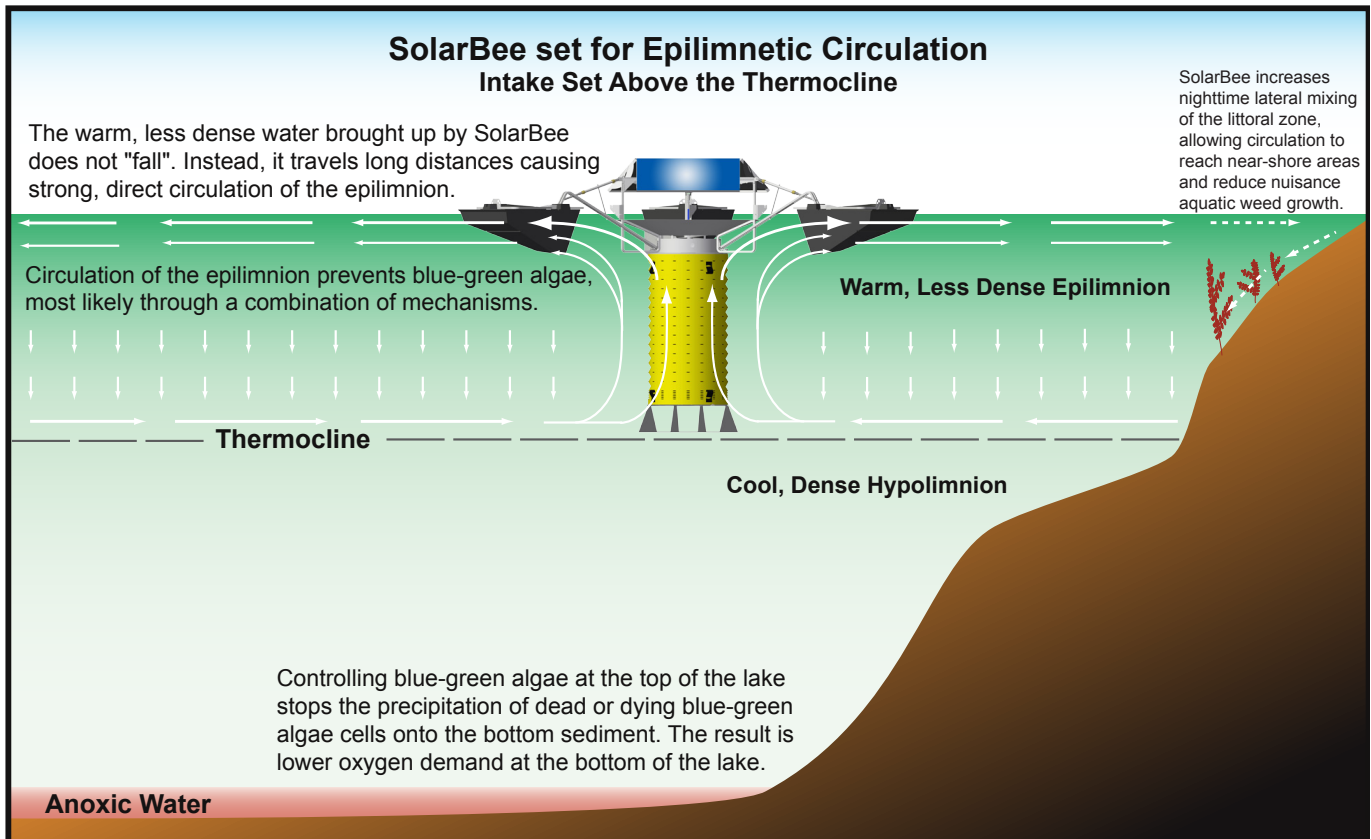


Circulation Mechanisms For Cyanobacteria Control

SolarBee® Lake Circulators are a leading solution in the fight against harmful algal blooms.



SolarBee® Lake Circulators are controlling cyanobacteria (blue-green algae) in over 400 waterbodies (and counting) across the United States, Canada, & the world. About 50% of these reservoirs provide source water for drinking water plants and many of these projects are now five to ten years old demonstrating the permanency of the active circulation solution.

While the beneficial results are undisputable, the exact mechanism(s) by which cyanobacteria control occurs with active circulation has been the subject of much discussion both inside and outside of our company. The answer likely involves one or more of the following four mechanisms either acting alone or together in varying degrees from one waterbody to another.

1. SolarBee® active circulation helps "good" green algae and beneficial bacteria stay in the light which are then kept cropped down by zooplankton. The lake stays clear and green algae is never out of control.
2. SolarBee® active circulation helps the zooplankton population increase substantially. As good green algae declines from predation, larger zooplankton will feed on cyanobacteria if they have to.
3. SolarBee® active circulation continually brings cyanobacteria to the surface where they may become trapped in the surface film and die from UV exposure.
4. SolarBee® active circulation may distribute cyanophages (viruses and bacteriophages) more evenly throughout the lake killing more cyanobacteria.