

Evaporate your water headaches

Evaporation is a quicker and more cost-effective way to reverse osmosis, chemical dosing and desalination in wastewater treatment applications. I-Cat offers innovative evaporation solutions for all industrial applications, including the removal of excess tailing dam water.

According to I-Cat technical manager Morné van Wyk, the evaporation system design incorporates proprietary water purification systems and misting canon technology. "Our systems have been well received by the local market, and trials prove that the concept is feasible," he says.

Van Wyk explains that the evaporation process can be carried out naturally in solar evaporation ponds, a slow process that requires a large surface area, or by mechanical evaporation machines. "Natural solar evaporation is often limited by land availability, and the cost of constructing additional storage ponds, not to mention the added cost of clean-up and re-vegetation."

Evaporation machines can rapidly increase the evaporation process, with minimal footprint. "Space can be used up to 14 times more efficiently than ponds, as evaporation machines are compact, reliable and efficient, and can be transported to numerous sites," says Van Wyk.

The evaporation machines can also be used as a low-cost addition to enhance evaporation on existing containment ponds, or to minimise new pond surface area.