

Brief: Swanbank Power Station Cooling Tower Water Reservoir

Client: CS Energy

Storage: Swanbank Lake

Location: Ipswich Southeast Queensland

WEARS was commissioned to design, supply and install a vertical axis impeller to destratify the Swanbank lake. This water body is the cooling tower water supply for the power station. Prior to the unit being installed severe manganese build-up within the cooling system caused high efficiency losses which have now been overcome. The initial and ongoing results have shown that the SMDI-3 achieved a huge turnaround in water quality, reduced the risk associated with the management of the facility and improved production.



A secondary, yet no less important achievement has been the elimination of Cyanobacteria (Blue Green Algae) in the lake and therefore the perceived health risk to power station staff to airborne toxins around the cooling tower.