



الإمارات لألواح الزجاج المسطح
EMIRATES FLOAT GLASS



CET ENVIRO
COOLING EFFICIENCY TECHNOLOGIES



Johnson
Controls

Case Study

SBR Performance

Emirates Float Glass

Established in 2009, Emirates Float Glass, a wholly owned subsidiary of Dubai Investments, is a world-class, multi-award winning, first state-of-the-art integrated float glass facility in the UAE & winner of the "Emirates Award" by Zayed International foundation for the Environment. The hi-tech manufacturing unit currently holds a production capacity of over 190,000 tons of glass products per year.

Issues faced by customer



High operating costs
(Energy, Water & Chemical Costs)



Downtime



Depreciating life of Capital equipment



Mud, Algae & Frequent choking of heat exchangers

Solutions implemented by CET Enviro

September 2023
Installation of SBR completed



Site Pictures & Videos – Before SBR

(Cooling Tower Sump)



Site Pictures & Videos – Before SBR

(Fills Condition every quarter)



Fills Cleaning required frequently



Fills were full of Sand and sludge



SBR was implemented

(Scale & Bio-Removal)

**The SBR was installed
in September 2023.**

SBR works on principle of Electrolysis removing Scaling and producing strong oxidizers to eliminate Biological fouling & Algae in Cooling Towers.

SBR also comes with Side Stream Filtration Inbuilt which not also improves the water quality but keeps removing dust from Cooling Towers regularly.



Site Pictures & Videos – AFTER SBR

(Cooling Tower Sump)



Site Pictures & Videos – AFTER SBR

Fills Cleaning stopped & Fills were free from dirt, sludge & scaling.

Current Situation of Fills



AFTER SBR



Chemical Dosing stopped Completely.



Cooling Tower blowdown & Cleaning went up from every 15 days to 6 months once.



Fills Cleaning eliminated.



Water Quality improved.



Choking of Heat exchangers stopped.



SAVINGS ACHIEVED

Zero downtime

results in annual savings of

\$200,000 USD

Water Savings of

3,500 m³

every year.



SBR helped EMIRATES FLOAT GLASS achieve following ESG Goals

