

#### **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.

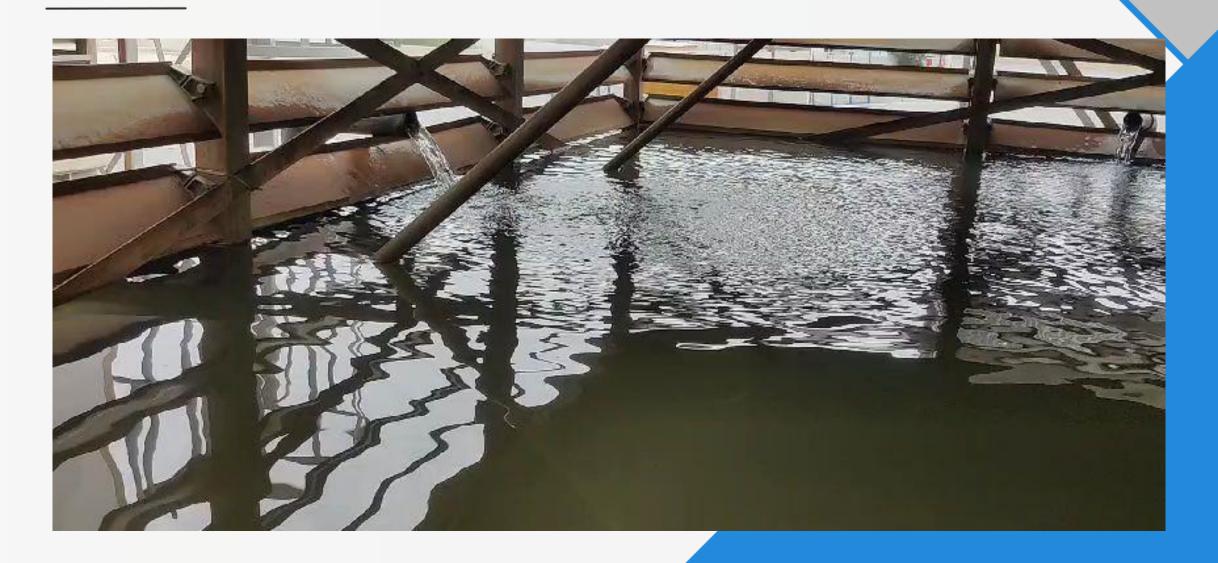
SBR works on principle of Electrolysis removing Scaling and producing strong oxidizers to eliminate Biological fouling & Algae in Cooling Towers.

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

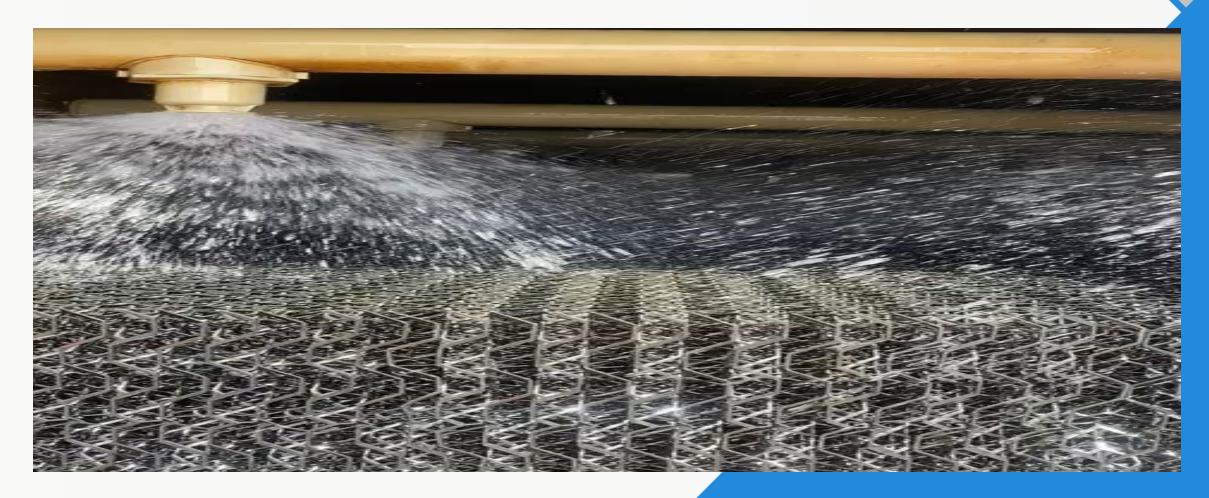
(Cooling Tower Sump)



#### 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





