



Anti-Fouling Membranes for MBRs

Membrane Bioreactors (MBRs) are gaining popularity for the treatment of organic wastewater. However, biofouling – *the accumulation of waterborne organisms on wet membrane surfaces* – is a common occurrence during the treatment process. This decreases system efficiency and increases energy consumption. To resolve these issues, EWTCOI has created an anti-fouling coating that prevents biofouling on membrane surfaces in MBR systems.

Together with local water and environmental technology firm, *MattenPlant Pte Ltd*, we have developed a pilot MBR system to treat wastewater from the food and beverage industry. The system is able to manage high organic loads while requiring a much smaller energy footprint than that needed by conventional systems such as the activated sludge process.

We are also partnering other water and environmental technology companies to increase the efficiency of the MBR system in treating wastewater as well as to reduce energy consumption.

EWTCOI can help you develop high-performing, long-lasting and environmentally-friendly wastewater treatment systems.

Key Features & Benefits

- Lower energy consumption by 15-30% in laboratory studies
- Reduced biofouling to improve durability of systems
- Ability to manage unexpected load fluctuations

