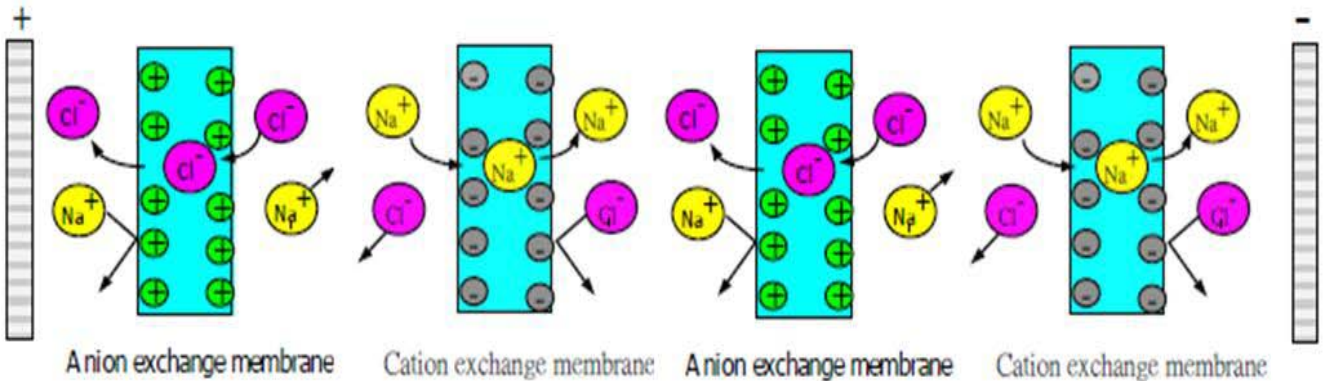


# DESALINATION TECHNOLOGY

## Electro Dialysis Reversal (EDR)



### Introduction

Electro Dialysis Reversal can successfully remove ions from water and wastewater by applying a direct current and reversing the polarity of electrodes periodically.

The electric charge drives the ions penetrating anion or cation exchange membranes. EDR reduces conductivity and dissolved solids in bulk solution.

### Features

- Soften hard water.
- Remove sodium chloride, calcium, magnesium, sulfate and nitrate.
- Capable of treating influent with SDI 10 times higher than RO.
- Flexible pre-treatment using normal, micro or ultra-filtration.

### Benefits

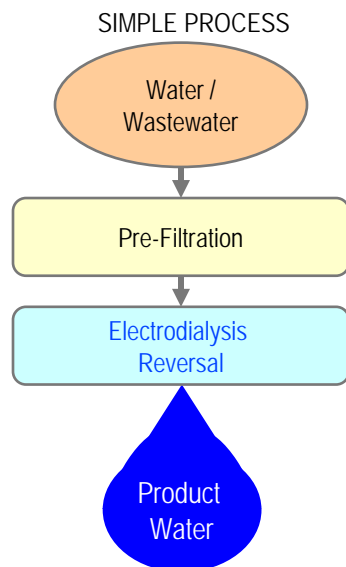
- High water recovery rate
- High desalination efficiency
- Easy process control of flow rate, voltage and current

### Applications

- Desalination of RO concentrate
- Cooling tower condensate
- Salty groundwater
- City water
- Wastewater treatment
- Reclaim/ recycle of wastewater

### Patents

- TW 232772



▲ EDR system in wastewater treatment plant