

## **مؤتمر تحلية المياه** في الدول العربية

12:01971

19-18 شعبان 1440 | 23-24 ابریل 2019

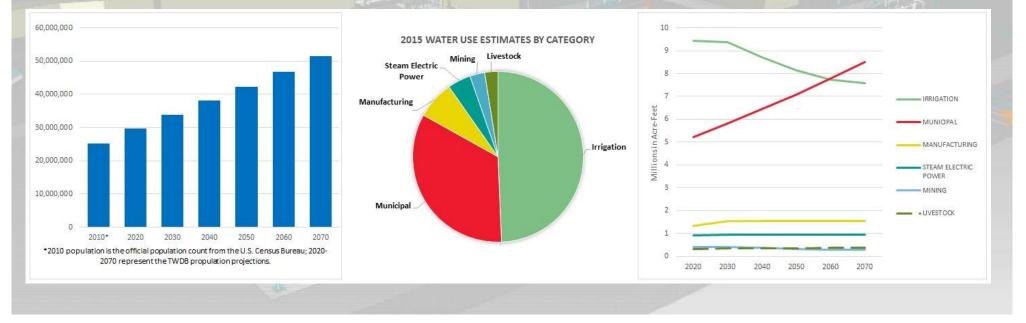
فندق انتركونتيننتال سيتي ستارز، القاهرة، جمهورية مصر العربية

## Challenge for better desalination technology

(Install a Large Desalination Unit MED - Case Study)

Engr. Mohammed A. Al-Thubaiti President, Sasakura Middle East Company Saudi Arabia

# Desalination is considered as main source of drinking water.

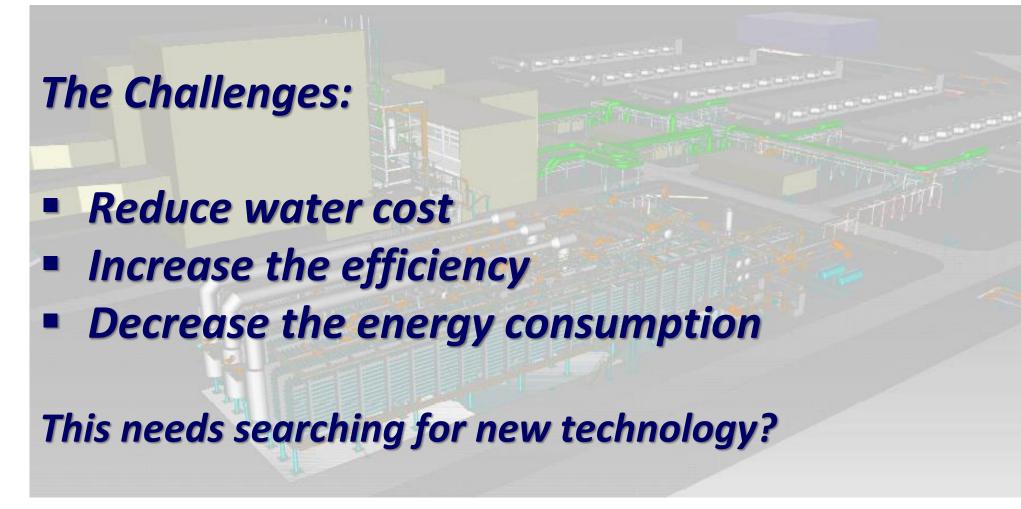


ARWADEX - 2

# Main existing desalination technologies :

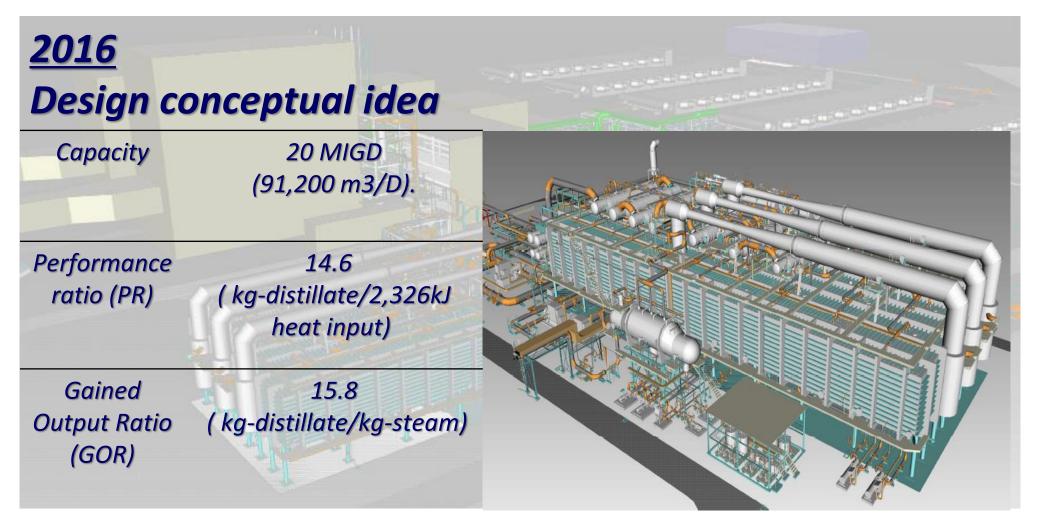
- Thermal processes (MSF, MED)

- Membrane process (SWRO)





# Shuaiba MED unit project : World's largest capacity World's highest performance

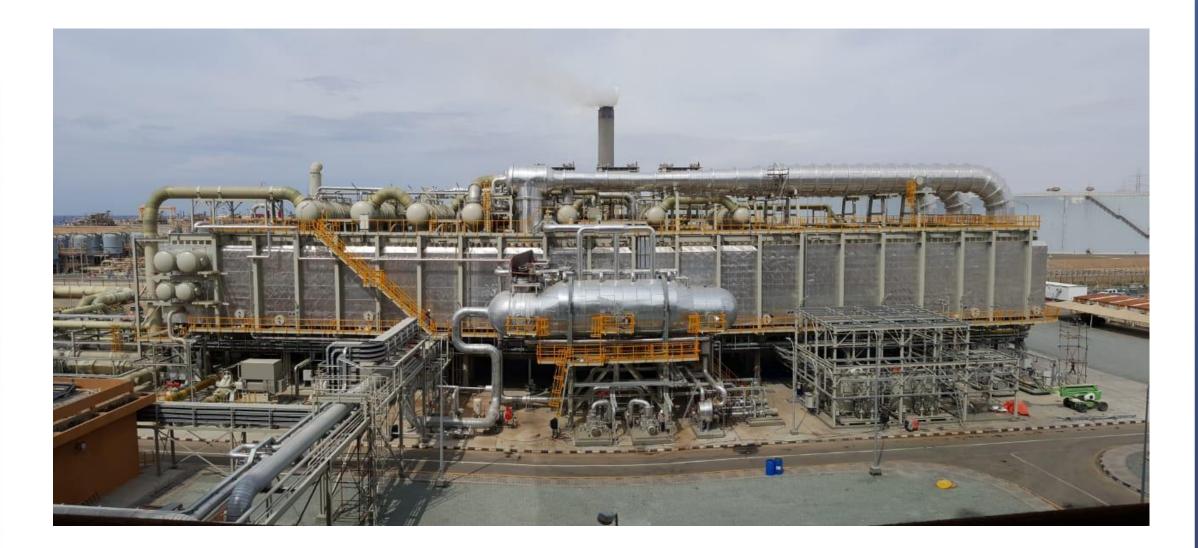


ARWADEX - 7

## <u>2018</u>

## The Challenge became reality :

- Actual Capacity : 92,568 m<sup>3</sup> / day
- Actual PR : 14.65 (kg-distillate/2,326kJ)
- Actual GOR : 15.95 (kg-distillate/kg-steam)



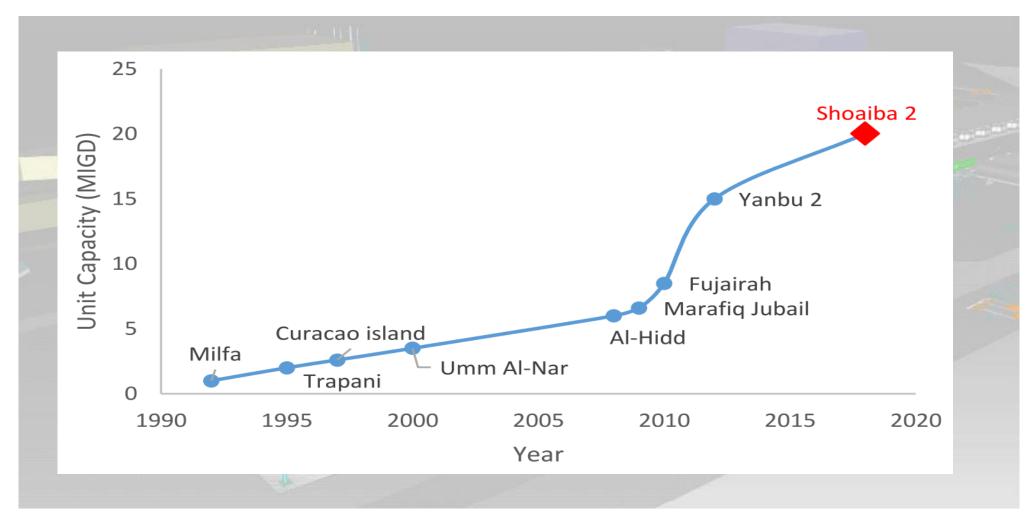
# **Project Achievement**

Completed all Manufacture and construction works and now its in service with,

High Quality and Efficiency.

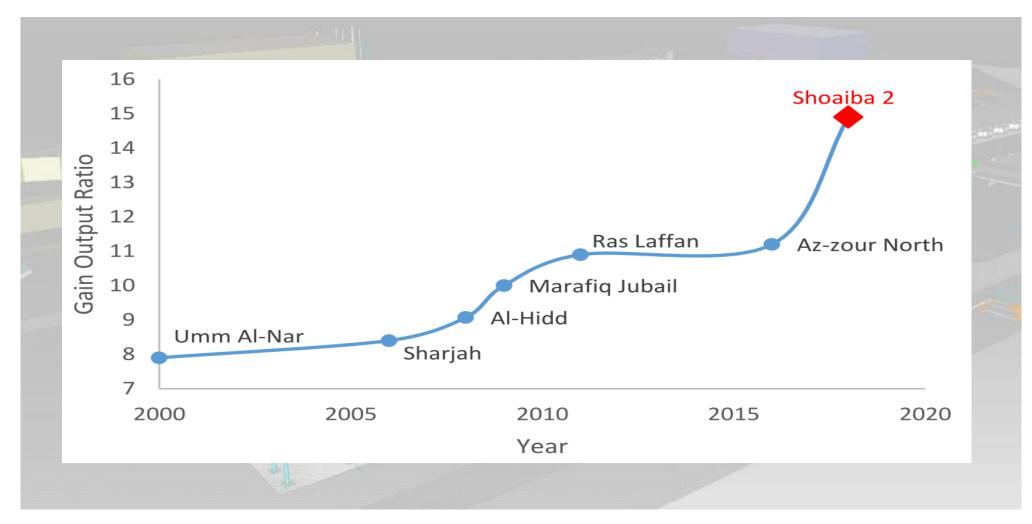
World's Records

### The increase of unit capacity of MED-TVC system



ARWADEX - 11

### The increase in gain output ratio of large-scale desalination plants



# Thanks for your attention

شكرو كمسن للاستماع

ARWADEX - 13