

SUEZ Desalination & DBFO

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Suez
Treatment Infrastructure

TEXAS DESAL 2018

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SUEZ Desalination Plants

PIONEERS: OVER 45 YEARS EXPERIENCE FOR SUSTAINABLE DESALINATION

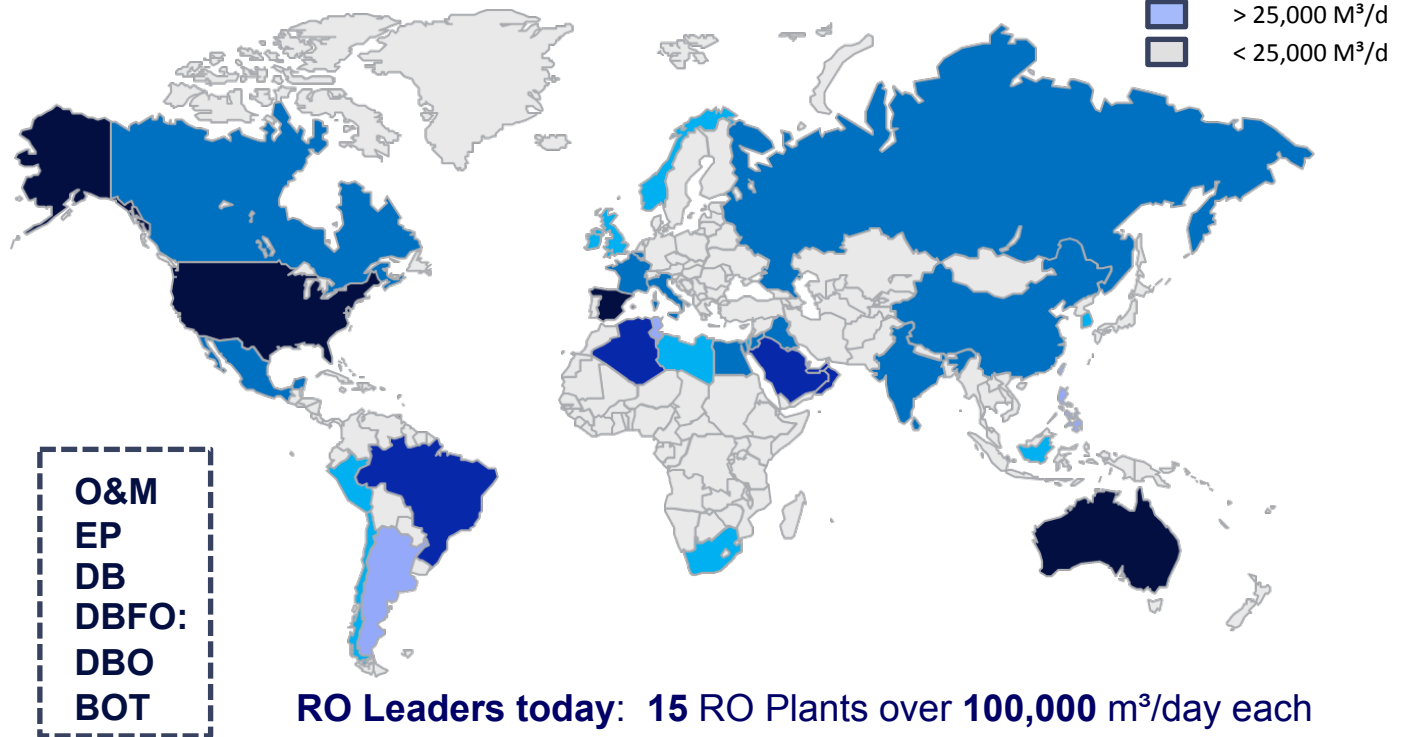
World Desalination :

Around **20,000** plants
built or under
construction
Able to supply
99,500,000 m³/day
In **150** Countries

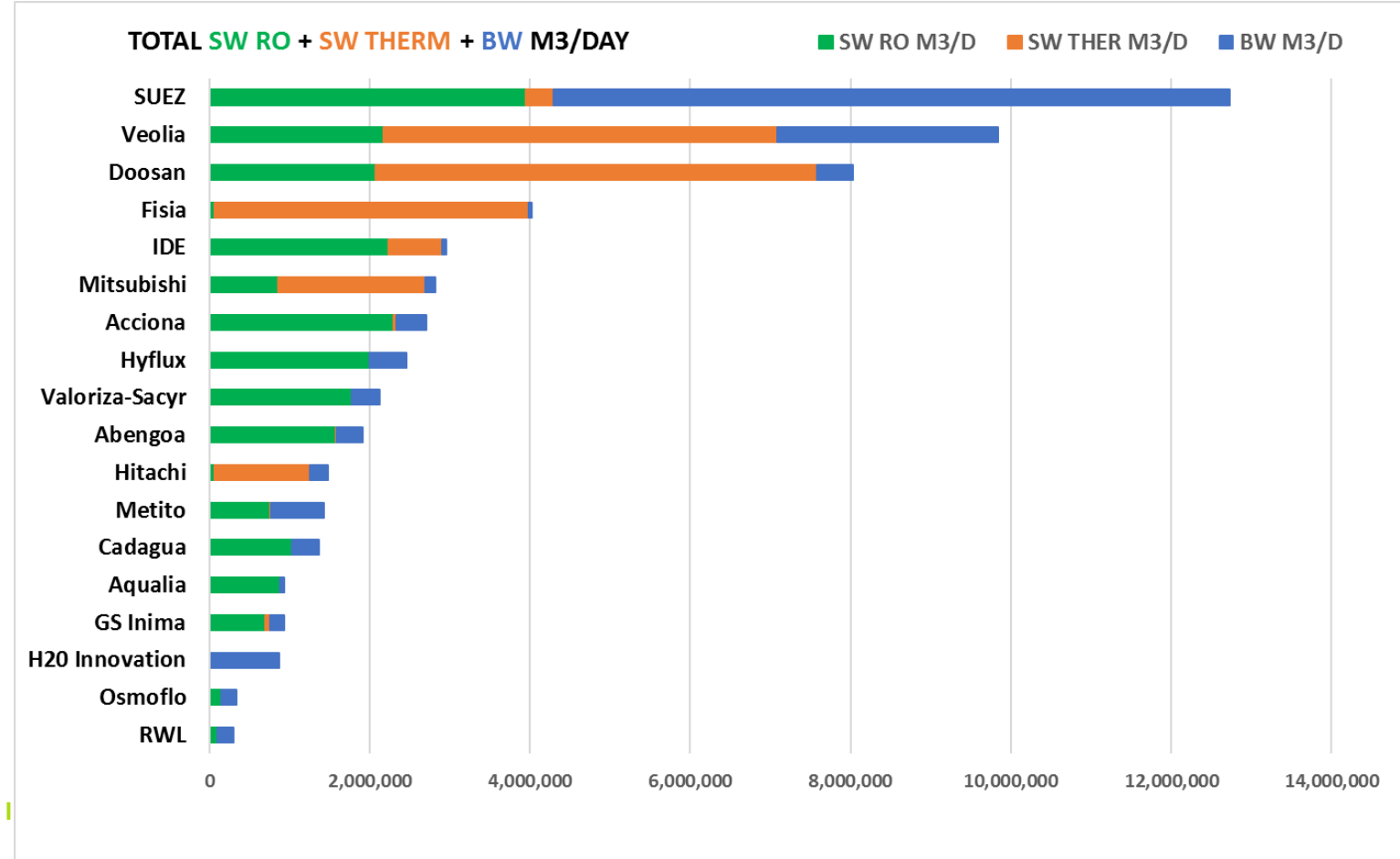
SUEZ's Desalination:

More than **3300** plants
Built or under
construction
Able to supply over
12,700,000 m³/day.
Including over
3,300,000 m³/day
under SUEZ **O&M**

O&M
EP
DB
DBFO:
DBO
BOT



SUEZ (TI & WTS) Desalination References



Some Desalination and Water Reuse Projects. DBO & DBFO



Barcelona (Spain) - DBO
Desalination – 200 mld



Sant Joan Despi (Spain) - DBO
Desalination – 150 mld



Bahía de Palma (Spain) - DBO
Desalination – 70 mld



Andratx (Spain) - BOT
Desalination – 15 mld



Mutxamel (Spain) - DBO
Desalination – 50 mld



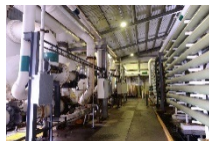
Al Dur (Bahrein) – BOT/DB
Desalination – 218 mld

Other DBFO Projects:

+25 Solid Waste
+12 Waste Water
+5 Drinking Water



Rosarito Mexico- BOO
Desalination – 2 x 190 mld



Pemex Mexico- BOT
Desalination – 19 mld



Hamma, Algeria – BOT
Desalination - 200 mld



Sulaibiya, Kuwait - BOT
WWTP – Reuse 600 mld



Mirfa (U.A.E) – BOO/DBO
Desalination – 136 mld



SCIP (China) - BOT
Desalination – 30 mld



Barka 2 (Oman) - BOO
Desalination – 136 mld



Barka 4 (Oman) - BOO
Desalination – 280 mld



Perth (Australia) - DBO
Desalination – 143 mld

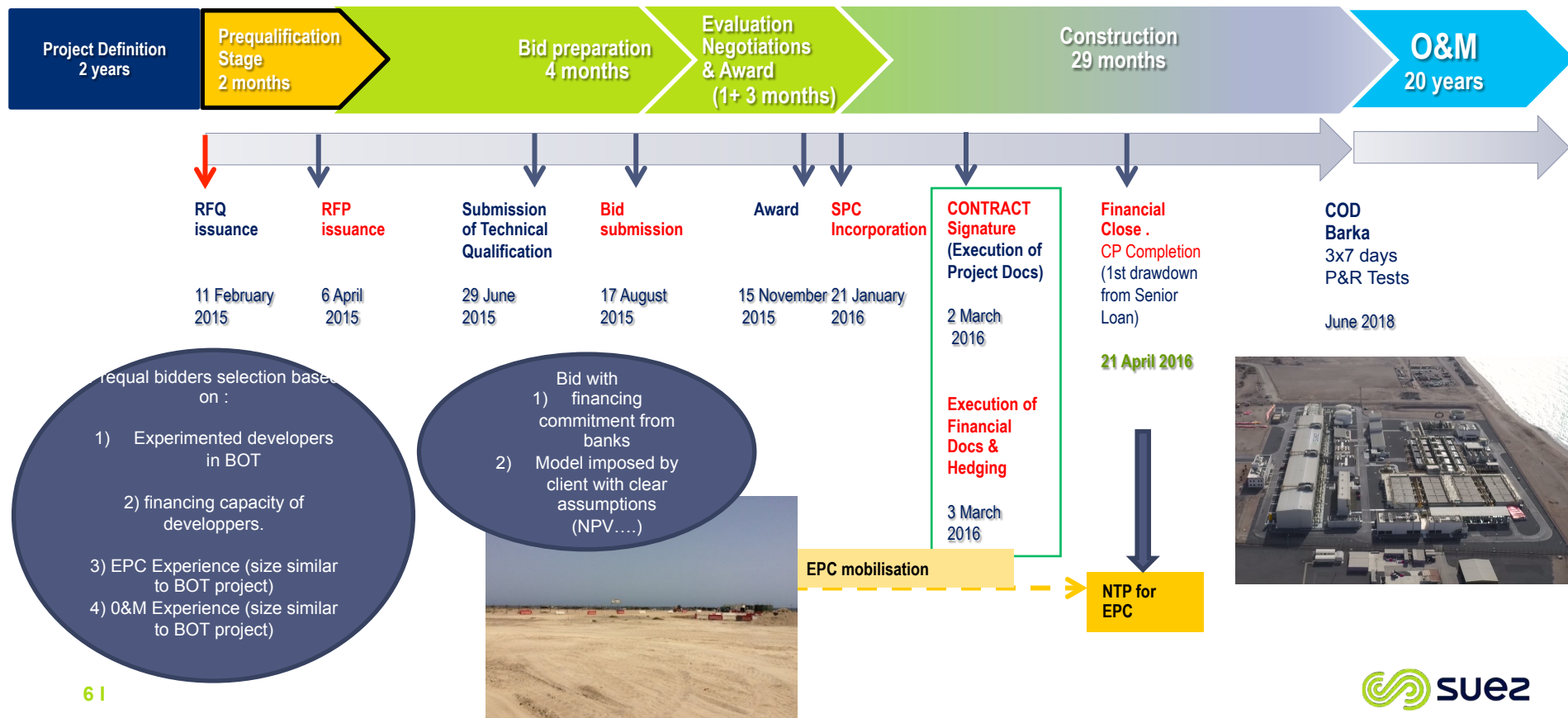


Melbourne (Australia) - BOT
Desalination – 450 mld



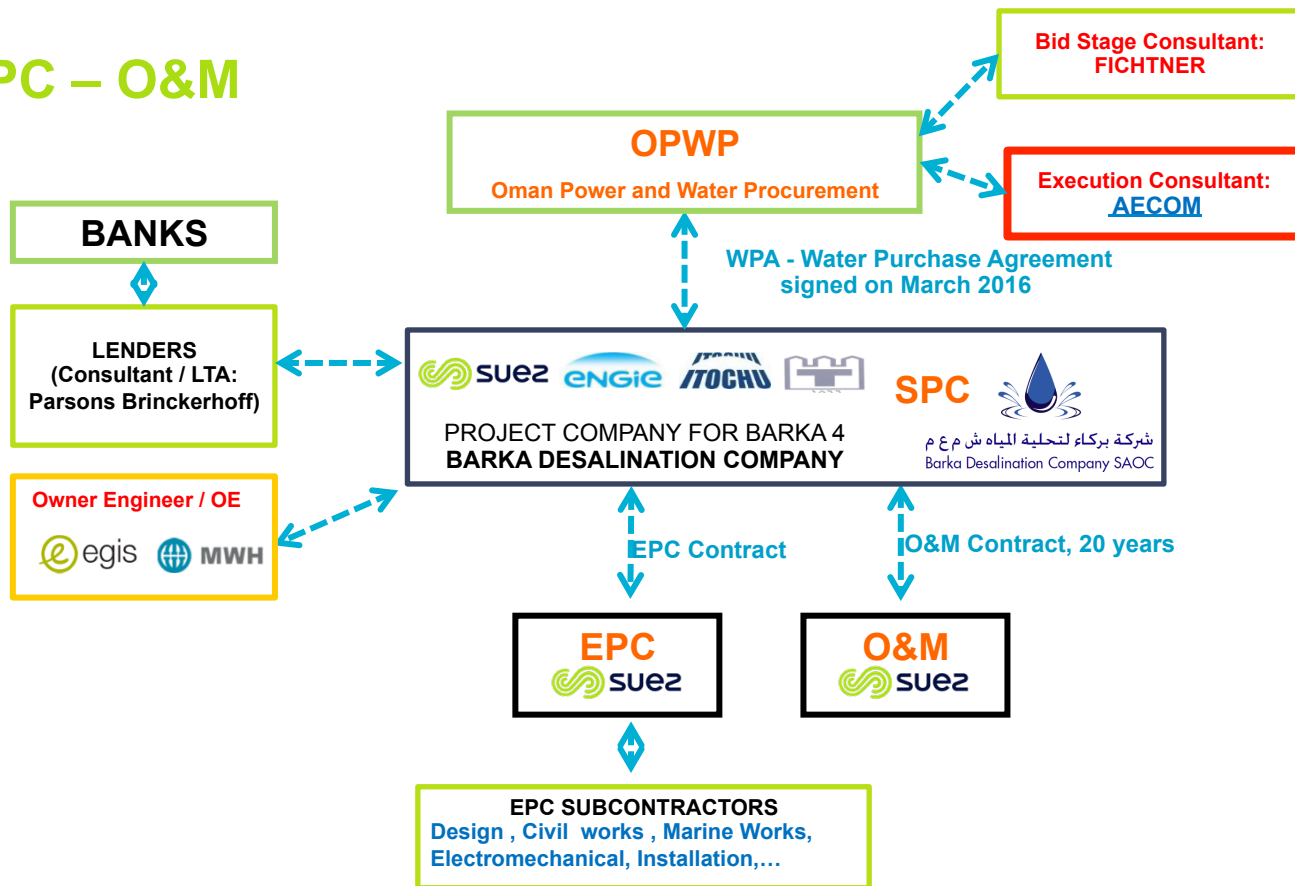
BARKA IV (OMAN) DESALINATION PROJECT

BARKA IWP/DBFO: Phases & Overall Project Timeline & Milestones



MAIN STAKEHOLDERS

SPC – EPC – O&M



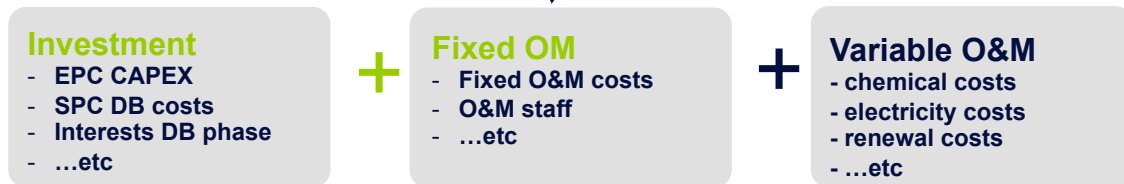
A stable whole-life tariff remunerating performance

Target: Lowest Water Tariff

1- The “TAKE-or-PAY” principle applies

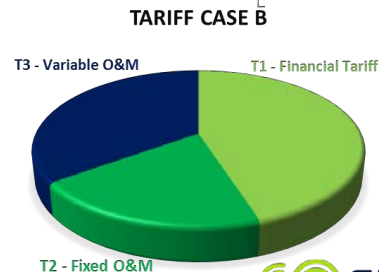
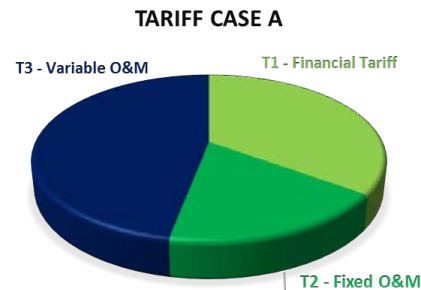
2- Tariff breakdown : **FIXED part** + **VARIABLE part**

$$\text{Water Tariff} = T1 + T2 + T3$$



3- Tariff adjustment (formula) : Indexation / Inflation

4- Design and Tariff calculated in the future use

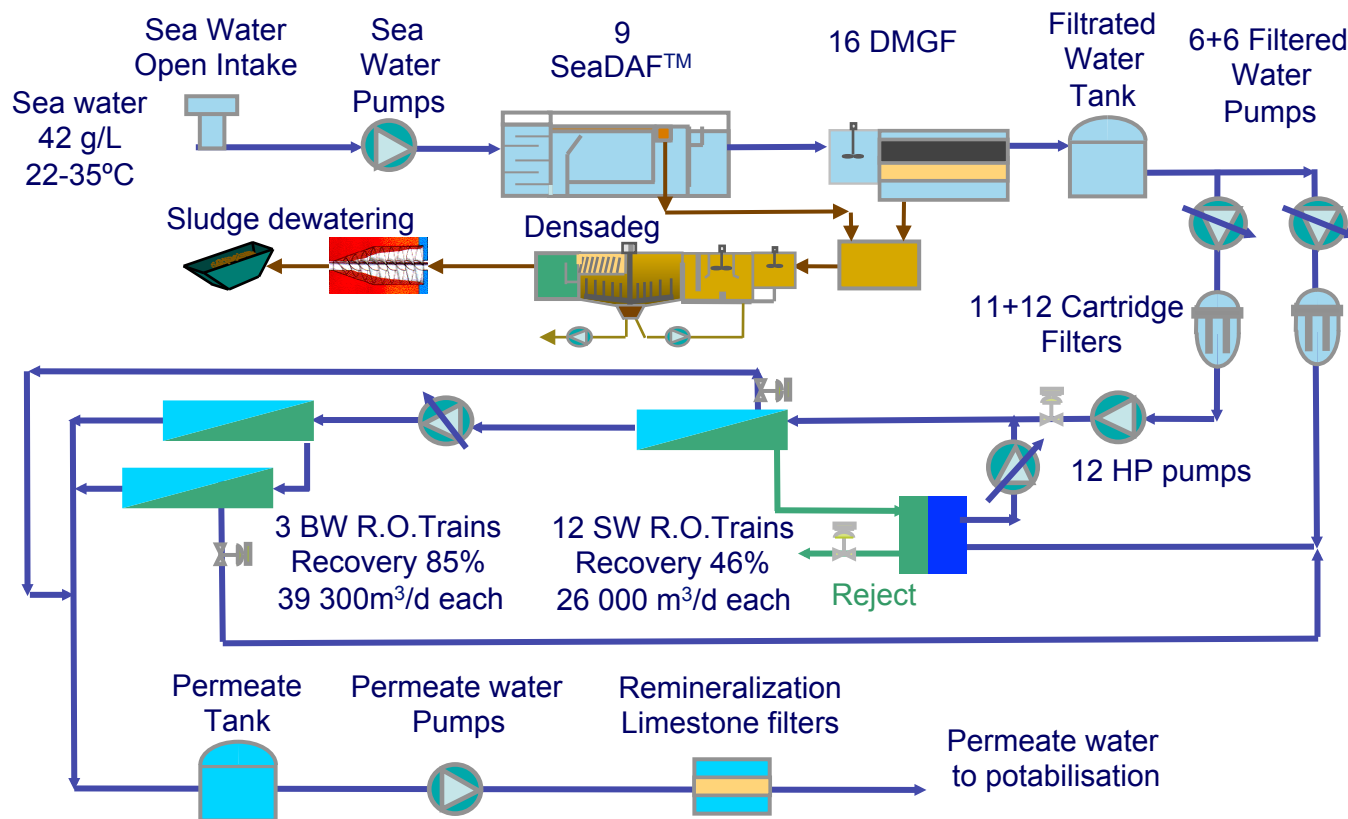


BARKA IV, OMAN – 280 000 m³/d



- 💧 **IWP-BOO, SPC: Itochu, Suez, Engie & Towell Eng.**
- 💧 **First Desal in Oman without Power Plant - IWPP**
- 💧 **The largest Desalination Plant in Oman**
- 💧 **Suez TI is the only EPC Contractor**
- 💧 **O&M by Suez for 20 years**

BARKA IV, OMAN – 280 000 m³/d







Global Water Awards:

- 2018 ○ **Desalination Company of the Year**
- Suez (Winner)
- **Water Plant of the Year**
- Mirfa Desalination Plant – Suez (Winner)

- 2016 ○ **Water Deal of the Year**
- Barka IV (Distinction)



- 2015 ○ **Water Company of the Year**
- Aqualogy (Distinction)
- **Desalination Company of the Year**
- SUEZ environnement (Distinction)

- 2014 ○ **Desalination Deal of the Year**
- Victorian Desalination Plant refinancing (Winner)
- **Water Project of the Year**
- Riyadh water supply enhancement (Winner)

- 2013 ○ **Desalination Plant of the Year**
- Victorian Desalination Plant (Winner)
- **Desalination Company of the Year**
- Degremont (Distinction)

- 2012 ○ **Water Company of the Year**
- Degremont (Distinction)
- **Desalination Plant of the Year**
- Al Dur (Highly commended)

- 2010 ○ **Desalination Company of the Year**
- Degremont (Winner)
- **Desalination Plant of the Year**
- Barcelona-Llobregat (Winner)
- **Desalination Deal of the Year**
- Victorian Desalination Plant (Winner)
- Al Dur (Highly commended)
- **Energy & Water Plant of the Year**
- Barka II (Distinction)
- 2009 ○ **Water Company of the Year**
- SUEZ environnement (Distinction)
- **Water Project of the Year**
- As Samra WWTP (Highly commended)
- 2008 ○ **Water Deal of the Year**
- Jumeirah Golf Estates (Winner)
- 2007 ○ **Desalination Plant of the Year**
- Kwinana, Perth (Winner)
- Wadi Ma'in (Highly commended)
- 2006 ○ **Water Project of the Year**
- Gabal El Asfar WWTP (Distinction)
- Milano San Rocco WWTP (Highly commended)