

المركز الوطني للتخصيص
NATIONAL CENTER FOR PRIVATIZATION & PPP



Rabigh Independent Water Project Phase 3

A study issued by the Knowledge Portal
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برنامج التخصيص



الشركة السعودية لشركات المياه
Saudi Water Partnership Company

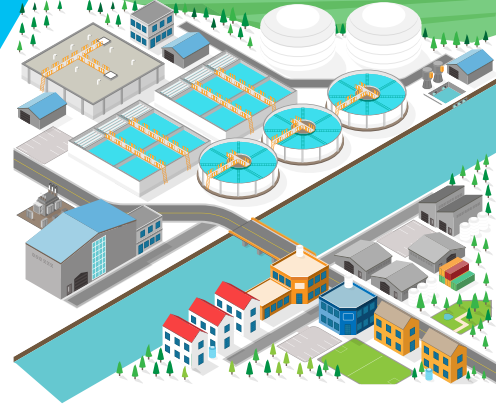


رؤية
2030
المملكة العربية السعودية
KINGDOM OF SAUDI ARABIA

المركز الوطني للتخصيص
NATIONAL CENTER FOR PRIVATIZATION & PPP

وزارة المالية
Ministry of Finance

وزارة البيئة والمياه والزراعة
Ministry of Environment Water & Agriculture
Kingdom of Saudi Arabia

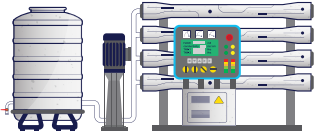


Project

Rabigh

Independent Water

Project - Phase 3



Sector

Environment, water
& agriculture



Project Location

It is located on the Red Sea Coast south of Rabigh city and it is 150 km north of Jeddah.



Production capacity

600,000
m³/day

Project Description

The project involves the construction of Rabigh 3 desalination plant with the capacity to produce 600,000 million cubic meters per day of water, and will be one of the largest of its kind globally.

Green field vs brown field

Green field

Type of Contract



BOO
Build Own Operate

CASE STUDY

Project benefits

► Will this project contribute to solving a problem in that sector?

Yes, the project contributes to meeting the increasing demand for desalinated water of Makkah al-Mukarramah and Jeddah. This will ensure consistent, reliable and steady water supply to the citizens of the two cities, especially during demand peak periods such as the Holy Month of Ramadan and Hajj seasons.

► Does this project use new techniques?

Rabigh 3 IWP will utilize reverse osmosis (RO) technology to yield a capacity of 600,000 cubic meters a-day. The reverse osmosis technology is based on membranes which allow fresh water to pass through while ions, the basic elements of salt, are retained (see below figure). In consequence, the feed water is divided into one stream of pure water (permeate) and one stream containing the rejected ions, called concentrate or brine, which is returned to the sea.

Is this project in line with the Kingdom Vision 2030?

Yes, this project in line with the Kingdom Vision 2030 by:

Promoting the contribution of the private sector in the economy



Improving quality of services provided in Saudi cities

Helping the Kingdom reach the highest levels of prosperity

CASE STUDY

Does this project contribute in supporting local content?

Yes, this project contribute in supporting local content as follows:

70%

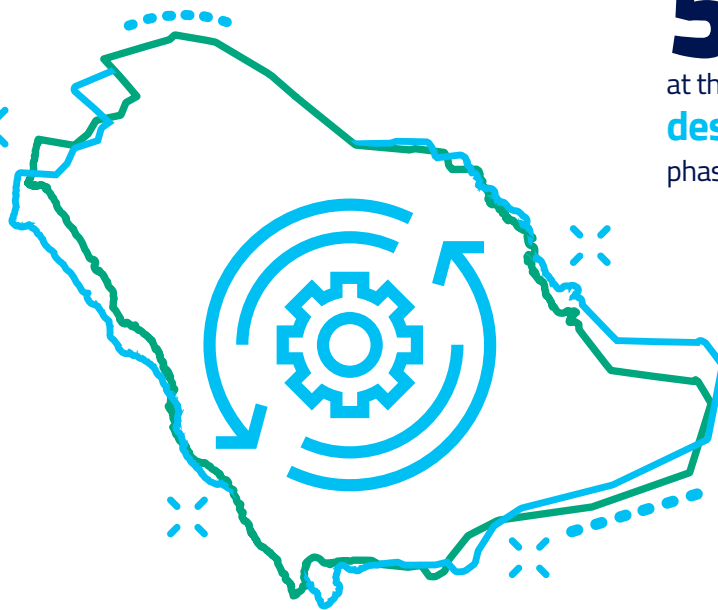
for the
**rest of contract
period**

50%

at the
**design-build
phase**

50%

at the
**5th year of
operation**



FDI vs local investment:



76%
of the

**financing was secured
Internationally**

24%

from local banks

What is the positive impact of this project on the following the economic, social, environmental? ?

Project benefits



Economic

Enhancing the local capabilities
in terms of local content



Social

Contributing to economic progress
and increased employment opportunities

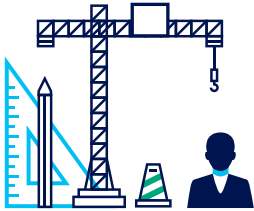


Environment

Ensuring reliable and stable water supplies for citizens of the two cities (Makkah Al-Mukarramah, Jeddah), especially during peak demand periods such as the holy month of Ramadan and the Hajj seasons.

CASE STUDY

Number of jobs created



300

jobs during the building and operating phase

Number of beneficiaries



The project will help meeting water demand in the Makkah region that has a population of around **8.8m**

Environmental impact (Greenhouse gas saving)



Reverse osmosis is cleaner and uses significantly less electricity than older technologies, and environmentally friendly

CASE STUDY

Project Timeline



Contract term



Construction period



Project status

2021

Expected start-up
and commissioning

Competition in numbers

➤ **55** expressions of interest were received

➤ **5** bidders were qualified

Contract value

Capex
(SAR2.625b)

Winning Bidders

