

GIVING GAZA HOPE

GAZA CENTRAL DESALINATION PLANT PROGRAMME PROVIDING WATER TO 2 MILLION PEOPLE

WHY?

THE AVAILABILITY OF FRESH WATER IN THE GAZA STRIP IS AMONGST THE LOWEST IN THE WORLD

2 million people rely for water on the overexploited Coastal Aquifer:



55-60

MILLION m³ / year

Total capacity of the aquifer

vs

180

MILLION m³ / year

Total current total water demand



97%

of total coastal Aquifer water is unfit for human consumption: serious health risk for the habitants



140

MILLION m³ in 2035



103

MILLION m³ in 2015

Household water demand will increase



2 Million

people

living in an area of 365 km²

Amongst most densely populated areas in the world



3.2%

per annum is the expected population growth rate

IMPACT

THE GAZA CENTRAL DESALINATION PLANT PROGRAMME WILL PROVIDE SELF-SUFFICIENT, EQUITABLE, AFFORDABLE AND SUSTAINABLE ACCESS TO SAFE WATER FOR ALL PALESTINIANS IN GAZA

Humanitarian

- ◆ Alleviating humanitarian crisis
- ◆ Improving living conditions and public health

Economic

- ◆ Creating new job opportunities
- ◆ Boosting economic growth, productivity (industry, agricultural, etc.) and revenue collection

Security

- ◆ Tackling water scarcity as a driver of conflict
- ◆ Creating better perspectives for young people, decreasing social tensions

Political

- ◆ Supporting Palestinian Authority in providing for the needs of Palestinians in Gaza
- ◆ Ensuring viability of two-State solution

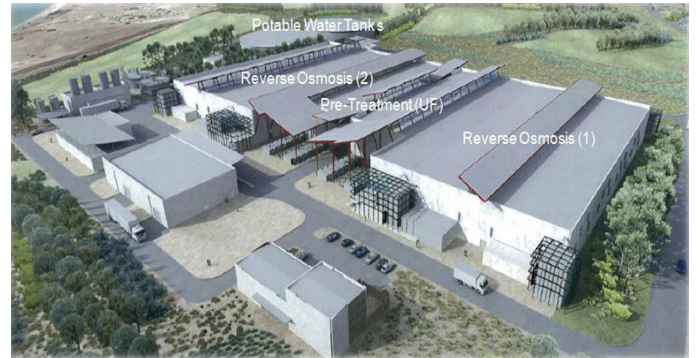
Environment

- ◆ Reducing pollution in the Eastern Mediterranean
- ◆ Lowering water losses through the development of better treatment and reuse of waste water

WHAT?

THE GAZA CENTRAL DESALINATION PLANT

- Initial capacity: **55 million m³ per year.**
- Maximum capacity: **110 million m³ per year.**



ENERGY SUPPLY TO POWER THE PLANT (15% RENEWABLE)

- On-site fossil plant and solar panels installed on the roofs of the buildings
- Off-site solar panel plant and two wind turbines

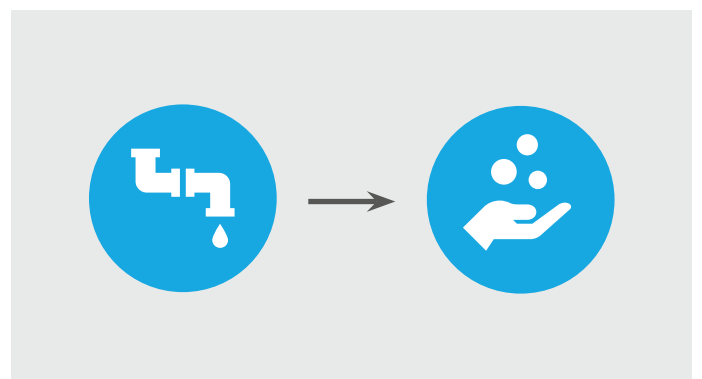


NORTH-SOUTH CARRIER TO DISTRIBUTE FRESH WATER THROUGHOUT THE GAZA STRIP

- Main carrier + North, Middle and Southern transmission main network for a total length of 110 km
- A pumping station
- 5 main booster stations
- Reconfiguration of water distribution system for all 25 municipalities in the Gaza Strip



A STRATEGIC PLAN TO REDUCE WATER LOSSES TO 20% AND TO INCREASE REVENUE COLLECTION



COSTS (estimated April 2019)

Desalination Plant	€215 million
Power plant	€87.5 million
North-south conveyer	€130 million
Plan to reduce water losses	€30 million
Other costs	€117.8 million
TOTAL	€580.3 million

Total pledges (estimated April 2019): €457 million