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
- **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 vs 103 MILLION m³ in 2015** Household water demand will increase
- **2 Million people** living in an area of 365 km²
- **3.2% per annum** is the expected population growth rate

**IMPACT**

THE GAZA CENTRAL DESALINATION PLANT 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

**GIVING GAZA HOPE**

GAZA CENTRAL DESALINATION PLANT
PROVIDING WATER TO 2 MILLION PEOPLE
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

<table>
<thead>
<tr>
<th>Description</th>
<th>Cost</th>
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</thead>
<tbody>
<tr>
<td>Desalination Plant</td>
<td>€215 million</td>
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<tr>
<td>Power plant</td>
<td>€87.5 million</td>
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<tr>
<td>North-south conveyer</td>
<td>€130 million</td>
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<tr>
<td>Plan to reduce water losses</td>
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<tr>
<td>Other costs</td>
<td>€99.8 million</td>
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<td><strong>TOTAL</strong></td>
<td><strong>€562.3 million</strong></td>
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