

## WATER SECTOR

### MAASER EL CHOUF DAM AND LAKE

<b>GOVERNMENT ENTITY</b>
Ministry of Energy and Water / Beirut - Mount Lebanon Water Establishment
<b>PROJECT DESCRIPTION</b>
<p>The project comprises two components:</p> <ul style="list-style-type: none"> <li>- An asphalt concrete face rock fill dam for water supply of 2.2 MCM (static) / 2.2 MCM (dynamic) annual storage capacity, of a height of 51.5m, length of 253m, and crest level of 1131.5m and a fill volume of 0.5 MCM. Submerging an area of 13.5 Ha, it has high leakage risk with no housing, archeological or infrastructure impact, and no agricultural land loss. The supply from the dam would rely on gravity; and</li> <li>- The associated water treatment plant, transmission lines and reservoirs.</li> </ul>
<b>OBJECTIVES AND EXPECTED IMPACT</b>
<ul style="list-style-type: none"> <li>- Provide water supply for 70.43 thousand habitants in 25 villages in the Chouf Caza of Mount Lebanon, where the deficit rate of water supply provision is estimated at 55%.</li> <li>- Improve hygienic conditions and social wellbeing.</li> <li>- Conserve and recharge groundwater ensuring sustainability of water resources.</li> <li>- Generate employment of 0.85 million labor-days.</li> </ul>
<b>EXPECTED ROLE OF THE GOVERNMENT</b>
<ul style="list-style-type: none"> <li>- Secure a financing source and enter into financing agreement with the Lender for CapEx.</li> <li>- Off-taker.</li> </ul>
<b>EXPECTED ROLE OF THE PRIVATE PARTNER</b>
<ul style="list-style-type: none"> <li>- Design, build, maintain and operate the dam and associated water treatment plant and transmission network.</li> <li>- Sell treated water to the Beirut and Mount Lebanon Water Establishment.</li> </ul>
<b>PROJECT LOCATION</b>
<ul style="list-style-type: none"> <li>- The project's water basin consist of Wadi Hazirane (3.1 km<sup>2</sup>) and Wadi Bou Jerios (4.9km<sup>2</sup>) with an average discharge ranging between 1.1 and 1.3 MCM. The geology of the site is partially impervious.</li> <li>- The land will require expropriations costing USD 2MM.</li> </ul>
<b>PROJECT TIMELINE</b>
<ul style="list-style-type: none"> <li>- Tender documents available for EPC construction.</li> <li>- EIA is required.</li> <li>- Expected construction period of 4 years.</li> </ul>
<b>EXPECTED COST (USD)</b>
CapEx and expropriation: USD 87MM
<b>CONTACT</b>
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