

WATER SECTOR

AIN DARA – AZOUNIEH DAM

GOVERNMENT ENTITY
Ministry of Energy and Water / Beirut - Mount Lebanon Water Establishment
PROJECT DESCRIPTION
<p>The project comprises two components:</p> <ul style="list-style-type: none"> - A central core rock fill dam for water supply of 4.1 MCM (static) / 5 MCM (dynamic) annual storage capacity, of a height of 53m, length of 300m, and crest level of 1106m and a fill volume of 0.74 MCM. Submerging an area of 28 Ha, it has low leakage risk with no housing or archeological issues but a moderate infrastructure impact. The supply from the dam would rely on gravity; and - The associated water treatment plant, transmission lines and reservoirs.
OBJECTIVES AND EXPECTED IMPACT
<ul style="list-style-type: none"> - Provide water supply for 225 thousand habitants in 66 villages in the Aley Caza of Mount Lebanon, where the deficit rate of water supply provision is estimated at 64%. - Improve hygienic conditions and social wellbeing. - Conserve and recharge groundwater ensuring sustainability of water resources. - Generate employment of 1.1 million labor-days.
EXPECTED ROLE OF THE GOVERNMENT
<ul style="list-style-type: none"> - Secure a financing source and enter into financing agreement with the Lender for CapEx. - Off-taker.
EXPECTED ROLE OF THE PRIVATE PARTNER
<ul style="list-style-type: none"> - Design, build, maintain and operate the dam and associated water treatment plant and transmission network. - Sell treated water to the Beirut - Mount Lebanon Water Establishment.
PROJECT LOCATION
<ul style="list-style-type: none"> - The project's water basin covers an area of 14.2 km² with an average discharge of 5 MCM. The geology of the site is impervious. - The land will require expropriations costing USD 5MM.
PROJECT TIMELINE
<ul style="list-style-type: none"> - Tender documents available for EPC construction. - Scoping for EIA was submitted to the Ministry of Environment in Nov. 2017. - Expected construction period of 4 years.
EXPECTED COST (USD)
CapEx and expropriation: USD 115MM
CONTACT
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