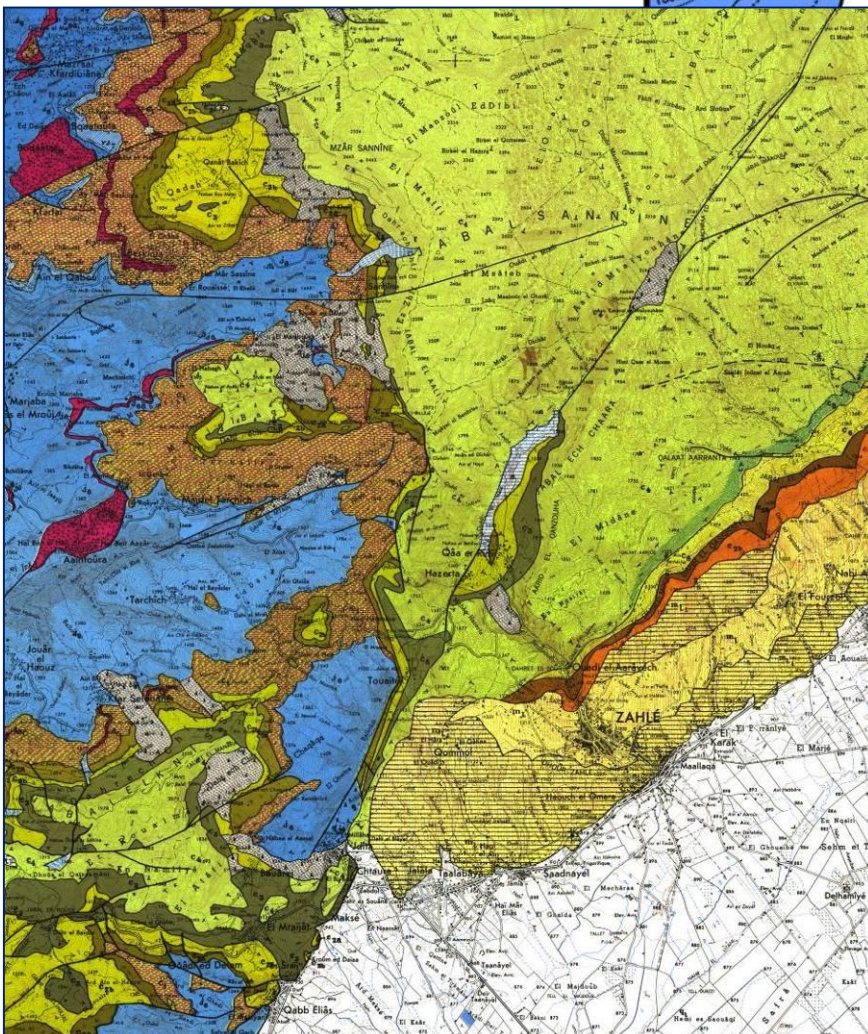
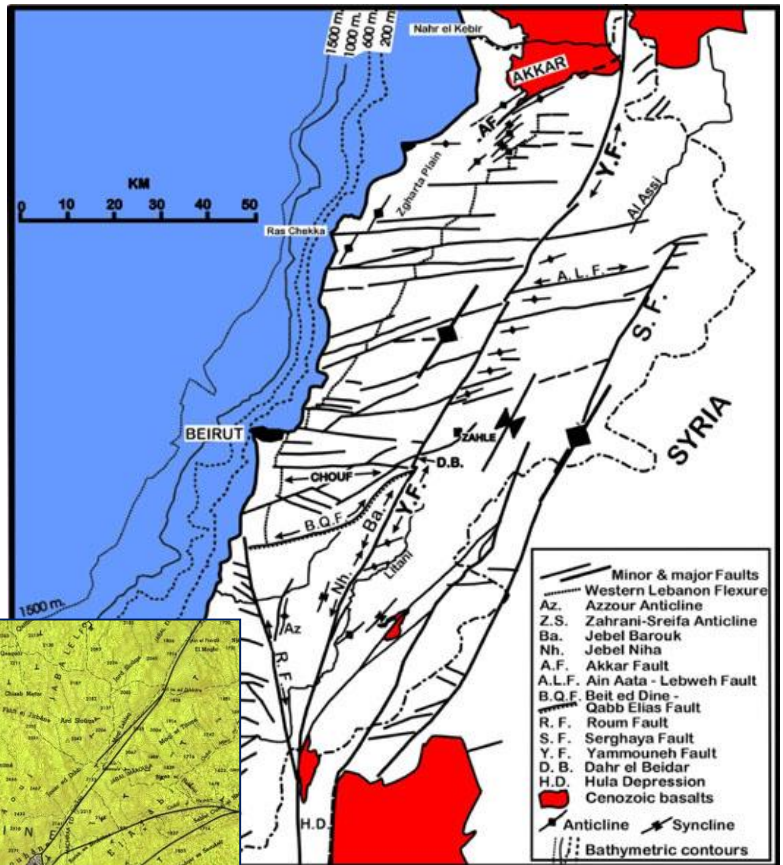


Geological Assessment of Lebanon

As part of our study conducted for the Ministry of Energy and Water (MEW) for the location of optimal pipeline routes between the power plants of Beddaoui and Sour and the power plants of Zahrani and Baalbeck, EDESSA had to prepare a comprehensive assessment of the topography and geology of a very large area of Lebanon.

Our work included field surveys as well as desk studies to present in a succinct way to the team conducting the feasibility study of the project the geological and topographical constraints that they would have to incorporate in the financial model of the project.

A number of steep valleys had to be crossed by the pipeline. The need to rely on microtunneling techniques had to be considered for such valley crossings.



In the case of the shoreline route, EDESSA also investigated the marine geology and bathymetry in order to provide the required data should setting the pipeline at sea be the preferred option.

The pipeline route crossed a number of major and minor or secondary seismic faults including the Roum and the Yammouneh faults. Safety and structural features would have to be incorporated in the design of the pipelines at such critical locations.