

## STMP - Abu Dhabi Metro & Light Rail Transport (LRT) [UIS142]

### In Brief

Address	Abu Dhabi, United Arab Emirates
Industry	Infrastructure, Rail
Project Status	On Hold
Project Value (USD Million)	3000 (Est.)
Client Type	Government

### Location



### Dates

Project Add Date	2007-10-16
Last Update	2023-10-10

### Scope

The project calls for the development of a metro rail system in Abu Dhabi city. The proposed system is expected to circle the city and cover all the important areas. The project would be linked to Dubai Metro as well as to other cities in the UAE and to other GCC states. Project is understood to include a rail link connecting Airport Road onto the Abu Dhabi island before terminating at the Hamdan Street intersection. However, the route is not yet finalized, with an alternative option of coming into the city from the north also being considered. Initial plans were for 15 two-coach trains to commute every 5 minutes. Abu Dhabi wants to build most of the network underground connecting the city's downtown areas with the international airport. The light rail system will include eight stations, including the high-speed rail terminus, along Hamdan Street, five stations along Airport Road, five along Khalifa Street, seven more in the Mina area, one station each at Marina mall and on Suwwa island, five stations on Reem island and two on Saadiyat island. The rail system will also serve developments off Abu Dhabi island, including the proposed capital core development that will be located between Mohammed bin Zayed City and Khalifa City, Al Raha Beach, and, Yas island. The light rails stations will be at the center of urban communities that will be the building blocks of Abu Dhabi's urban planning. The blocks will provide all basic amenities, together with a transportation hub, within 400-meter radius. Project will consist of 2 lines. The first line will run from Saadiyat Island to Grand Mosque District and Al Raha Beach, and the second will link Al Reem Island with Al Suwwah Island and Marina Mall. The 131 km Metro Rail plans include 53 metro stations with a possible rail link to Qatar. Lines also pass through the Capital City, Mohammed Bin

Zayed City, Mafrq, New Wathba, Al Falah and Masdar City developments, all of which are proposed or under construction. The 3 areas proposed to be covered by personal rapid transit include Masdar City, Capital City and, Lulu Island. The final route of the Metro that will also be known as the Red Line, will link Zayed Sports City and Mina Zayed and will pass through the following areas: Central, Saraya, Energy Center, Zayed First, Al Falah, Mohammad Bin Khalifa, Al Jazeera, Mushrif, Rehhan and Adnec Area. It will also include a 40 km long monorail track with 15 two coach trains and stations with a capacity of around 1,000 passengers. Considerations to be included in the LRT/Tram network design include: The latest proven, cutting edge technologies, and the specific characteristics of the region; for example, high temperatures throughout the year (which can reach more than 45°C during the summer season), and the presence of sand and dust (due to proximity to the desert). To meet such requirements, all LRT/Tram equipment and facilities will be specified and prepared for high performance in extreme conditions. Furthermore, to provide passengers with high levels of comfort at all times during their travel, it is envisaged that both LRT/Tram vehicles and shelters at stops will be air conditioned. The study will also identify an Initial Operating Network situated in the north of the city "an area with high population density" that will be the first LRT/Tram line to be constructed. The length of this network might be about 30 miles. SENER is responsible for the project management. This stage has comprised the study of alternatives for the light rail network in the metropolitan area of Abu Dhabi and the conceptual design of the chosen alternative. Phase 2 covers the preliminary design of the first section of the network and is located in the center of the island, giving service to consolidated areas and the most important urban developments which have been carried out up until this date. Phase 3 includes preparation of contractual and commercial documentation for the Tenderers to implement the Initial Operating Segment, including operation and maintenance plans. Phases 4 and 5 will be for detailed design revision and construction supervision and one year monitoring operations (liability period).

## Timeline

Sep 2023	The Project status remains the same.
Jun 2023	The Project status remains the same.
Dec 2022	The Project status remains the same.
Sep 2022	The Project status remains the same.
Oct 2021	The project is on hold due to unknown reasons.
Jul 2021	The project is on hold due to unknown reasons.

Mar 2021	The project is on hold due to unknown reasons.
Nov 2020	The project is on hold due to unknown reasons.
Sep 2020	Main Contractors have not been awarded yet.
Apr 2019	Market news indicate that the pre-tender consultancy (Study) services tender has been put on hold due to unknown reasons.
Jan 2019	Main Contractors have not been awarded yet.
Oct 2018	Main Contractors have not been awarded yet.
Jul 2018	DoT has issued tender for the Pre-tender Consultancy (Study) Services. The scope include: - Signage & Wayfinding, Common Components, Retail & Advertising guidelines - Guideline for park & ride facilities - Detouring & Construction lay down studies - Guidelines for Building Information Management (BIM) - Station Naming rights Bid submission is scheduled for mid September 2018. Tender No. DoT/T/PT/1469/18
Jun 2018	Date of release of construction tender is not yet announced.
May 2018	Design works for the project are still ongoing.
Nov 2017	Initial design works have been completed and submitted for verification and approval by the client.
Aug 2017	Tender for construction for the rail networks has been scheduled in 2018.
Sep 2016	Client DOT is awaiting approvals.
Oct 2013	Arup, Mott Macdonald and Aurecon were shortlisted for the contract to update Abu Dhabi's Surface Transport Master Plan that was completed by Mott MacDonald and Steer Davies Gleave. Arup is currently the master plan consultant. The 'Abu Dhabi Metro Study' is a result of the Surface Transport Master Plan (STMP), a major initiative taken by the DoT to develop the surface transportation of the emirate. The project will be planned and implemented in collaboration with municipal organizations of different areas of the emirate. The plan covers a comprehensive development of different modes for passenger and freight transport system such as new roads, metro and light rail transit(LRT) that will meet the mobility and the economic needs in the future, say beyond 10 years.
Mar 2013	Submission statements of interest for the 1st stage of Abu Dhabi metro and light rail network is June 2013. Siemens, Bechtel and Samsung Engineering are among the firms that are expected to participate.
Mar 2012	The fund allocation for the project has been approved. The first phase of the project will cover 18 km of the metro line.
Jul 2011	The feasibility study has been completed
Sep 2010	Feasibility study has started.
May 2010	Abu Dhabi Department of Transport (DoT) selected the SENER-TYPSA Joint Venture to develop the Abu Dhabi LRT/Tram study. The objectives of this study are to design and develop a world class and sustainable transportation system, to support residents' increasing demand for mobility (including demands arising from developments in all Abu Dhabi Metropolitan areas), to improve residents' quality of life, and to maximize social benefits.
Jan 2010	Fluor Corporation was awarded the Project Management Contract and they will oversee the implementation of the master plan.
Oct 2009	Department of Transport appointed the group of Aecom, Parsons Brinckerhoff and DB International to act as consultant. The contract included the feasibility study, concept design, preliminary engineering, tender documents preparation, award for construction contracts.

Aug 2009	The pre-qualifiers also include the consortium of: 1) Aecom (US), Parsons Brinckerhoff (US), and DB International (the international arm of Germany's Deutsche Bahn) 2) Dar al-Handasah (Shair & Partners) with Ineco Tifsa(Spain) 3) Hill International with STV(both US-based) 4) German team of Hochtief, Lahmeyer International, Dornier Consulting, Gauff Rail Engineering and Berliner Verkehrsbetriebe 5) Mace International (UK), Aurecon (Australia) with Davis Langdon (UK) 6) Morganti and DCK Worldwide (both US-based) 7) Scott Wilson and EC Harris(both UK-based) In July 2009, the Department of Transportation short-listed six consortium for the design consultancy contract, among which are: 1) Aecom (US), Parsons Brinckerhoff (US) and DB International (Germany) 2) Atkins (UK) and Bovis Lend Lease (Australia) 3) Dar Al Handasah - Shair&Partners (Lebanon), Egis (France), and two spanish firms, Gestisa and Ineco 4) Mott MacDonald(UK), Parsons International(US) and Halcrow(UK) 5) Coteba (France), Khatib & Alami (Lebanon), and four German firms, Obermeyer, ILF Consulting Engineers, Hamburg Consult and Dornier 6) Systra (France), Arup (UK), Cowi (Denmark) and Foster & Partners (UK).
Jul 2009	Companies submitted bids for the Project Management Consultancy (PMC) Contract. The awarded company for the PMC contract should oversee developments and construction of the metro and other transport links such as the proposed tram and water taxi networks. Among the prequalifiers for the PMC contract were: Abu Dhabi Holdings, Bechtel (US), Booz & Company (US), Bovis Lend Lease (Australia), Dessau-Soprin (Canada), Fluor Corporation (US), GHD (Australia),Orbit Geological Consultancy, Poyry Infra (Swiss) and WorleyParson (Australia).
May 2009	Consultants had submitted their bids and the award is expected in the 3rd quarter of 2009 with completion of study by the end of 2010 followed by ITB for EPC in 2011.
Apr 2009	The study results and the details of the project (such as its final routes and the project's timetable) are expected to be revealed.
Oct 2008	Abu Dhabi Department of Transport had issued an ITB for the consultancy contract. The deadline to submit bids is 13 April 2009. 72 companies had collected documents as there was no prequalification process before the contract was issued for tender in 2008. However, the AED2 m (\$545,000) tender bond had limited the number of actual bidders.
Dec 2007	Project was expected to be up and running within 7 years. A report, which was commissioned by the Department of Transport and the Urban Planning Council (UPC) last December 2007, is due by the end of 2008 that would detail the new system. Routes were yet to be decided as well as whether it would be overground, underground or both.
Dec 2007	Mott MacDonald and Steer Davies Greave were awarded the contract to create the transport strategy of Abu Dhabi in December 2007 as part of the Plan Abu Dhabi 2030.
Nov 2007	Abu Dhabi's Municipalities & Agriculture Department had received bids for an integrated public transport master plan in October 2007. The 15-20 month study covers the design of the public transport network for Abu Dhabi island and surrounding areas, and the preliminary design of the proposed mass transit/monorail system. Bidders include Maunsell Aecom (US), MVA Systra (France) with Parsons International (US), and Parsons Brinckerhoff (US).

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