

ETIHAD RAIL FACTSHEET

ABOUT ETIHAD RAIL

Introduction | Pursuant to Federal Law no. 2 of 2009, Etihad Rail was formed with a mandate to manage the development, construction and operation of the UAE's national railway. The railway will be built to link the principal centres of population and industry of the UAE, as well as to form a vital part of the planned GCC railway network. Built to international standards, Etihad Rail's state-of-the art network will improve the way people and goods move, opening up new trade corridors and journey opportunities.

Principles | Etihad Rail adheres to three guiding principles:

- **Safety:** To ensure that safety is at the forefront of all it does – without exception
- **Connectivity and economic growth:** Etihad Rail, the developer and operator of the UAE's national railway, will connect the country's key centres of trade, industry and population, acting as a catalyst for economic growth and sustaining social development
- **Efficiency and sustainability:** Etihad Rail will offer cutting-edge benefits - faster, safer, more reliable, and more environmentally sustainable services than alternative transport systems

Development of the Etihad Rail network is in line with both the **Abu Dhabi Economic Vision 2030** and **UAE National Charter 2021**.

Clients | Etihad Rail's strategy is to build a railway network consistent with its clients' needs, phased over time with the end objective being a network serving the entire UAE.

ADNOC is Etihad Rail's first such customer, with a formal agreement signed in October 2011. They have decided to adopt a rail solution to transport sulphur from Shah and Habshan to Ruwais in the Western Region.

Etihad Rail has also signed Memorandums of Understanding (MoU's) with other national companies who are looking to use the railway network as a business solution. These companies include:

- **Arkan and Emirates Steel** - these leading manufacturers seek to use rail as the main method of transportation for their raw and finished materials

- **Al Dahra Agriculture Company** - plans to use rail as a more efficient means of transporting hay – the most commonly-used animal feed in the country – and is ready to switch to rail as soon as Etihad Rail's second stage is operational
- **du** and **Etisalat** - Etihad Rail will benefit from the expertise of both companies' leading telecommunications services, while the telecommunications companies will be able to have access to and make use of the railway infrastructure to magnify their growing network and customer base in the UAE

Service Providers | From project management to financing, Etihad Rail is collaborating and teaming up with some of the world's best consultants, including but not limited to:

ATKINS has been assigned as the Preliminary Engineering (PE) Services Consultant to oversee the execution of all stages of the network. For **Stage One** of the network specifically:

- **JV Parsons-Aecom** was assigned as the Project Management Consultant (PMC)
- **PCM Strescon Ventures Limited** was awarded the contract for the provision of railway sleepers in a purpose-built manufacturing facility
- **Electro-Motive Diesel** were assigned to deliver seven locomotives custom-built for desert conditions
- **CSR Corporation** was awarded the contract to supply 240 covered hopper wagons
- A consortium comprising **Italy's Saipem** and **Tecnimont** and **UAE-based Dodsai Engineering and Construction** was awarded the main Civil & Track Works contract

UBS Investment Bank is providing advice on developing a strategic financing plan for the construction and operation of the railway network and **McKinsey & Company** have assisted on a business strategy and operating model.

Stakeholders | Etihad Rail is working with key stakeholders with shared goals, aspirations and business objectives to deliver the railway professionally, efficiently and on schedule. Some of the notable current stakeholders include:

- **Abu Dhabi Ports Company, Dubai Ports** and **ZonesCorp** - Etihad Rail looks to effectively integrate the railway with key ports and industrial zones.
 - Etihad Rail has signed a MoU with DP World for the development of an intermodal rail terminal in Jebel Ali Port, which will enable the more efficient transfer of containerized freight arriving at the port to bring substantial benefits to logistics companies and the UAE economy as a whole-
- **DOT, RTA, NTA UPC** - Etihad Rail is working with these key entities to ensure that the benefits of the railway are felt by the entire UAE economy.

NETWORK FACTS

COST:	The total investment is estimated at around AED 40 billion (for the core national mixed-traffic network)
DELIVERY:	To be delivered in multiple phases with the first commercial service to start in 2013
LENGTH:	The network is estimated to extend up to 1,200 km

NETWORK:	Will connect the Emirates and will link the UAE to Saudi Arabia via Ghweifat in the west and Oman via Al Ain in the east
ENERGY:	Diesel traction with the option to electrify
SPEED:	Freight trains at speeds of up to 120 km/h; passenger trains at speeds of up to 200 km/h
GOODS:	Bulk freight (quarry products, steel, cement, etc.) and containers for general freight
SPECIFICATIONS:	The network is mainly double track, designed for mixed-traffic, equipped with an in-cab European signaling system (ETCS level 2), is of standard gauge, and will be built to accommodate twin stack containers

RAIL ADVANTAGES

Etihad Rail intends to become not only a source of national pride but also the most trusted mode of transport across the Emirates – a safe, efficient and sustainable transport system forming a new logistics network. The network will also bring:

- **Strategic benefits:** Provide a secure transportation link between the UAE and its GCC neighbours and beyond
- **Environmental benefits:** One train can remove some 300 lorries from the road, thus improving safety and reducing congestion. A fully loaded train can produce 70-80% less of the CO2 emissions that lorries require to move the same tonnage
- **Social benefits:** The railway will connect rural areas to central cities enabling wider economic benefit for these areas
- **Economic benefits:** Cargoes, whether intermodal, bulk or break bulk, can often be carried on rail at rates which are competitive with other means of transport

PHASING & TIMELINES

Stages | The network will be developed and implemented in three main stages:

- **Stage One – Shah - Habshan - Ruwais**

The first stage is the 266km route for transporting sulphur from its sources at Shah and Habshan, in granulated form, to its point of export at Ruwais.

Timeline: Habshan to Ruwais link to be completed towards the end of 2013, Shah to Habshan during 2014. Construction is well underway.

- **Stage Two – Rest of the Abu Dhabi Emirate network and connection to Dubai**

Beyond the first stage, the next priority is connecting the railway to Mussafah, to the Gulf ports (Khalifa and Jebel Ali Ports) and the Saudi and Omani borders.

Timeline: The remainder of the mixed-traffic network in the Emirate of Abu Dhabi and the connection to Jebel Ali Port is safeguarded and Preliminary Engineering is complete. Tendering process is in progress.

- **Stage Three – Rest of the network in the Northern Emirates**

Etihad rail is working closely with each of the Emirates involved to define and safeguard the route. Preliminary engineering is well underway.

Surveys | Etihad Rail has conducted several studies and surveys to date as part of the feasibility phase of the project:

- **Geotechnical survey** for the entire Shah - Ruwais route
- **Topographical survey** for the route - aerial and ground surveys are complete
- **Environmental Impact Assessment** for the Shah-Habshan line has been completed and approved by Environmental Agency of Abu Dhabi
- **Preliminary Engineering** for the first stage has been completed
- **Etihad Rail traffic study**, a major piece of work to forecast passenger and freight rail demand throughout the UAE was completed end of 2010

BRAND IDENTITY

Etihad Rail's visual identity is an iconic and forward-thinking embodiment of the rail network for the UAE. Moving throughout the Emirates, the branding ultimately evokes the spirit of weaving prosperity for the nation. The streamlined and proud marque conveys a falcon's head in the shape of the locomotive, moving forward with speed and precision. Its elegant and contemporary design reflects the passion, accuracy and motion of the train. The extended line out to the falcon's head has been created to reinforce the strong forward movement the rail network offers. The primary colours are intrinsically UAE; red, green, white and black. They have been selected to reflect the pride of a nation that is undertaking an epic challenge in creating the new national railway network.

TEAM

- Etihad Rail's Board of Directors was appointed in 2009, and is led by Chairman H.E. Nasser Al Sowaidi and Vice Chairman H.E. Mattar Al Tayer
- Etihad Rail is a world-class organisation with more than 120 employees from 27 nations – a large proportion with experience of working on some of the most successful and famous rail projects or operating some of the most efficient and profitable railroads in the world
- Etihad Rail also has a large number of very talented UAE National employees who represent more than 30% of the company's workforce
- Training and development programs are currently being developed for UAE Nationals to equip them with the skills necessary to succeed in the rail sector

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