

# Etihad Rail DB



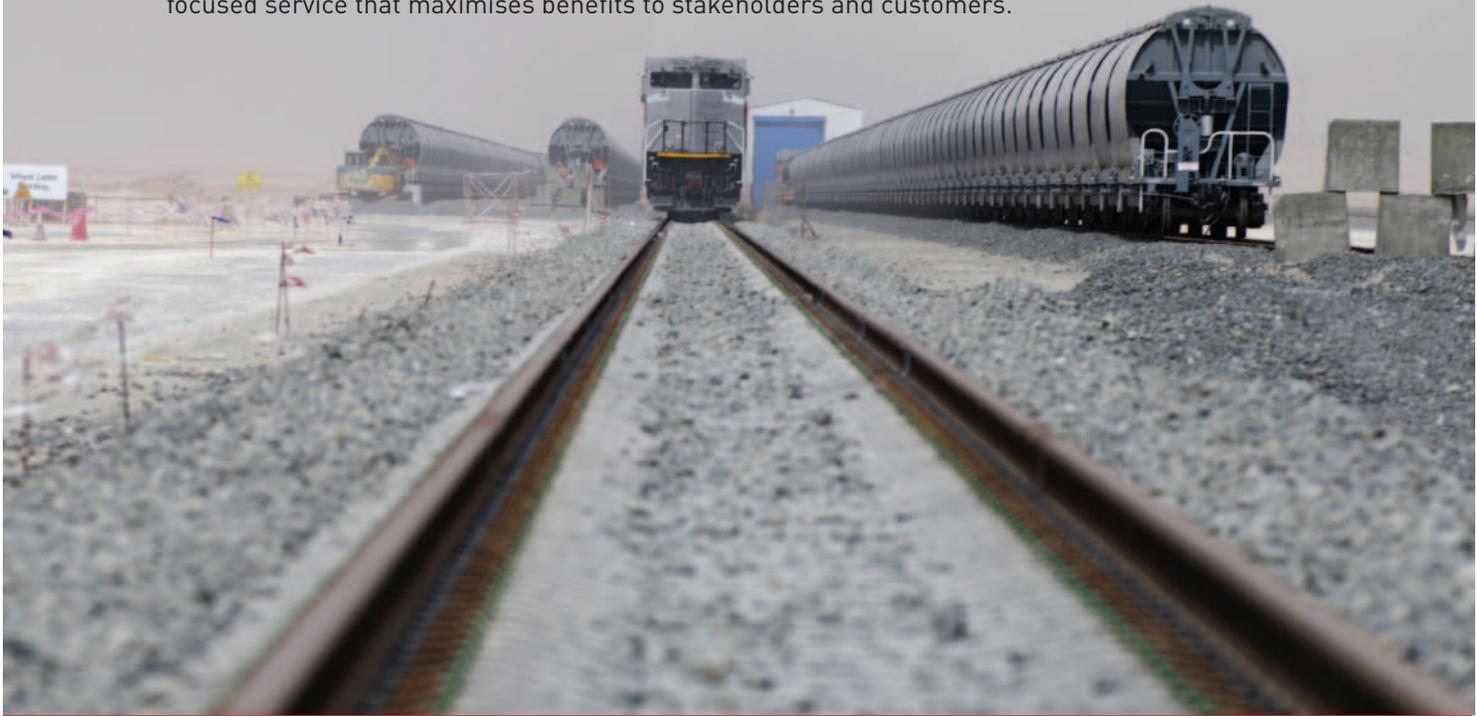
Factsheet

## 1. Introduction

Etihad Rail DB Operations is a joint venture company, one that combines the global best practice and international experience of German rail operator, Deutsche Bahn, and the local expertise of Etihad Rail.

Etihad Rail DB is responsible for the operation and maintenance of the **Stage One** of the UAE's national railway network.

Etihad Rail DB Operations will facilitate knowledge transfer and sharing of best practice, and develop a new transport and services sector that will boost **economic growth in the UAE**. Pioneering the UAE's railway operations, Etihad Rail DB has placed safe, reliable, and efficient services at the forefront of its operational plans, with a priority to deliver top quality, customer focused service that maximises benefits to stakeholders and customers.



## 2. Etihad Rail DB's Role

Etihad Rail DB is responsible for operating and maintaining the Etihad Rail network with the highest international standards of safety, security and efficiency.

- **Operating the railway:** Roles include everything from operating the trains to coordinating the sophisticated communications through the Operations Control Centre (OCC) – where experienced staff adjust and deliver service, manage signalling and train movements – to ensure smooth operations at the terminals.
- **Track and train maintenance:** Comprises caring for all aspects of the trains, tracks, buildings and rolling stock to enable decades of safe and efficient service. Maintenance ensures the essential upkeep of the trains through daily activities, such as fuelling and cleaning, as well as complete overhauls in the maintenance sheds. The track and rolling stock are also subject to regular inspections, and serviced in line with best international practice, following the standards of the UIC (the International Union of Railways) and the American Railway Engineering and Maintenance-of-Way Association (AREMA).
- **Efficient delivery of transported goods:** Includes the movement by train of granulated sulfur from inland sources at Shah and Habshan to the port of Ruwais for export – a coordinated effort between Etihad Rail DB's team of experts and Etihad Rail's primary Stage One customer, ADNOC. Precautions are in place to guarantee the safe transport of goods throughout the rail network.
- **Planning:** For Stage One of the network, Etihad Rail DB is responsible for planning and implementing all operational policies and procedures including timetables, resourcing and train movements. The Company will also act as a consultant for future stages of the network, which will connect the entire UAE and form a vital part of the planned GCC-wide railway network.



### 3. Stage One Facts

#### The Network

- **Length:** 264 km.
- **Specifications:** The network is mainly double track. It is designed for mixed-use traffic; equipped with an in-cab European signalling system (ETCS level 2) as well as being of standard gauge; and is being built to accommodate double-stack containers.
- **Bridges:** There are 18 over-bridges and under-bridges across Stage One of the railway network.

#### Locomotives

- **Model:** The locomotives are class (SD70) built by Electro Motive Diesel (EMD).
- **Energy:** Diesel traction, powered by a 4300-horsepower engine.
- **Speed:** Up to 120 kilometers per hour (kmph).
- **Weight and Length:** Each locomotive weighs 192 metric tonnes and is 23 metres long.
- A train of three locomotives can pull up to 110 wagons, making the overall length of the train 1.8 km.
- If the train's brakes are applied when running at 100 kmph, the train will travel 830 m before it comes to a stop – the equivalent distance of nine football pitches laid length to length.

#### Wagons

- **Build:** The wagons used for transporting sulfur are manufactured by China South Rolling Stock Corporation (CSR).
- **Capacity:** 100 tonnes of granulated sulfur per wagon.
- **Weight:** Each train can carry up to 11,000 tonnes – equivalent to the weight of 55 jumbo jets.

