

Innovative Emergence for Sustainable Developments

What is Tuas Port Development?

To maintain Singapore's position as a global hub port and an international maritime centre, Singapore has been investing in its port capacity and capabilities ahead of demand. Over the years, the port capacity has expanded from the first container terminal at Tanjong Pagar to also include Keppel Terminal, Brani Terminal and Pasir Panjang Terminal. Going forward, the next stage of Singapore's port infrastructure development will be our next generation port – Tuas Port. First announced in 2012, Singapore's plan is to consolidate container port operations from the current terminals to a single location at Tuas. Relocation of the container port from City Terminals and Pasir Panjang Terminal to Tuas will free up valuable waterfront land re-development as well as meet future growth of container throughput. Consolidating all container-handling facilities at Tuas will significantly reduce inter-terminal haulage operations and greenhouse gas (GHG) emissions while achieving greater economies of scale. The vision for Tuas Port is to build a smart, next-generation port that increases productivity, optimises land use, improves safety and security, and enhances sustainability.

Development of Tuas Port will consolidate all container operations in Singapore at Tuas. It is being progressively developed in 4 phases. When fully completed in the 2040s, Tuas Port will be capable of handling up to 65 million Twenty-foot Equivalent Unit (TEUs) annually. The master planning for Tuas Port includes the planning of the port layout, water depth, navigation channel and anchorages to serve the port and the port ecosystem and other objectives. The reclamation work in Phases 1 and 2 of the Tuas Port project involves the creation of 681 hectares (ha) of reclaimed land, fabrication of 448 caissons and the dredging of the Temasek Fairway and Tuas Basins to a depth of -23 m at Chart Datum (CD). Finger-piers with caisson quay walls were adopted to maximise limited land and sea space. Coupled with long linear berths and a design depth of -23 m at CD, the Tuas Port will be able to accommodate mega container ships exceeding 450 m in length. The land reclamation work under Phase 1 commenced in March 2015 and MPA is on track to complete Phase 1 land reclamation works by end of 2021. Phase 2 reclamation works of Tuas Port are ongoing as scheduled.

