A super highway for used water management, the Deep Tunnel Sewerage System (DTSS) is a core water infrastructure which provides a cost-effective and sustainable solution to support Singapore’s long-term needs for used water collection and reclamation for reuse.

DTSS Phase 1, spanning the eastern part of Singapore, was completed in 2008. DTSS Phase 2, when completed in 2025, will extend the DTSS to the western part of Singapore, culminating at Tuas Water Reclamation Plant (Tuas WRP). The Tuas WRP will utilise advanced technologies and innovative designs to achieve enhanced energy and water recovery from used water.
LAUNCH OF FIRST TBM

The first tunnel boring machine, TBM Bahar officially launched by Mr Masagos Zulkifli, Minister for the Environment and Water Resources on 4 April 2019.

2.8-km drive along PIE from junction of Jalan Bahar to Nanyang Drive.

TBM Bahar

- Slurry type
- Cutterhead diameter 4.87 m
- TBM Weight 676 t

Muhd Syukri Fadhlullah
Engineer
DTSS 2, PUB

Chua Wei Rong
Senior Engineer
DTSS 2, PUB

Loh Swee Hui
Senior Engineer
DTSS 2, PUB

Darryl Tan
Senior Engineer
DTSS 2, PUB

PUB’s project team standing in front of TBM Bahar

Chua Wei Rong
Senior Engineer
DTSS 2, PUB

PUB’s project team standing in front of TBM Bahar

Muhteşem Üstü Yolculuk - İlk TBM'nin Açılışı

İlk tünel kazma makinası, TBM Bahar, 4 Nisan 2019 tarihinde Dışişleri ve Su Kaynakları Bakanı Murad Zülkiﬂi tarafından resmi olarak açıldı.

2.8 kmlik yol PIE'nin Jalan Bahar kesişi ile Nanyang Drive kesişi arasında.

TBM Bahar

- Slurvi tipli
- Kesikavcık çapı 4.87 m
- TBM Kilosu 676 t

Muhd Syukri Fadhlullah
Mühendis
DTSS 2, PUB

Chua Wei Rong
Senior Mühendis
DTSS 2, PUB

Loh Swee Hui
Senior Mühendis
DTSS 2, PUB

Darryl Tan
Senior Mühendis
DTSS 2, PUB

PUB’nin proje ekipleri TBM Bahar önünde poz verdi.
CONVEYANCE

**Link Sewer Contracts**
- 13 Contractors
- 4/13 Contracts Awarded
- 2.25% Construction Progress

**Tunnel Contracts**
- 5 Design & Build Contractors
- 2/50 Shafts Completed
- 4.66 million Manhours worked
- 18.5% Construction Progress
- Depths: From 35 to 55 m
- TBM Types: 18 slurry & 1 earth pressure balanced
- 2/19 TBM Delivered

**Photo:** Shaft O1 at Penjuru Road
Contract 1A
Site Development Works
McConnell Dowell is currently working on the grounds, preparing the site setup which includes overall site earthworks, setting up of the site office and temporary utilities.

Contract 2A
Influent Pumping Stations
Tender evaluation is in progress.

Contract 3A
Industrial Liquids Modules and NEWater Plant
Tender has been published in GeBIZ.

Contract 3C
Domestic Liquids Modules and NEWater Plant
Pre-tender qualification evaluation is in progress.

681,000 Manhours worked
2.8% Construction Progress

Photo: Tuas WRP Site