

IMPORTANT NOTICE - NO TICKET, NO TOUR

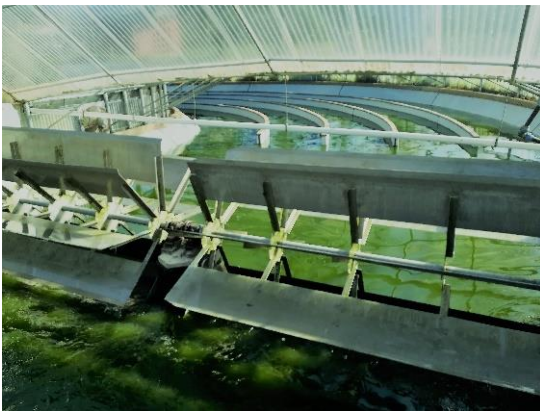
Delegates to collect **TECHNICAL TOUR TICKET** for their respective tour at Registration. Please take note that **NO WAITING LIST** will be kept for Technical Tours. For people who did not book online, leftover tickets will be available on a first come first served basis from Registration on Thursday morning.



Remix Plant at the Central Waste Water Treatment Works
Capacity: 50
Requirements: PPE/Closed shoes and reflector vest

In 2016, the eThekweni Municipality signed a Memorandum of Understanding with the New Energy and Development Organisation (NEDO) for the implementation of a Remix Water Demonstration Plant at the Municipality's Central Treatment Works. The implementing agent, Hitachi, is responsible for the design, construction and operation of the 6.25MLD Remix Demo Plant.

The main purpose of the Demo Plant is to demonstrate an energy efficient desalination technique as it can be an alternative water resource for the Municipality. The Demo Plant will be commissioned in November 2019 and will be operated for a period of 12 months.



Algae Biofuel Extraction
Capacity: 50
Requirements: Closed shoes and reflector vest

In 2008, the eThekweni Municipality in collaboration with Durban University of Technology (DUT) formed a partnership with the aim of carrying out research and trials to produce biodiesel from algae by constructing a raceway pond at the Kingsburgh WWTW. The research involved a new technique via the process of Dimethyl Ether (DME) extraction to separate the biofuel from the algae cells.

Since 2008, the DUT have been conducting numerous trials to bring the process up to full commercialization at various Wastewater treatment works across South Africa and are close to full optimization of the algal strains that they grow.



Durban Harbour: Impact on Municipal Infrastructure
Capacity: 45
Requirements: Closed shoes and reflector vest

Durban is the busiest port in South Africa and generates more than 60% of the country's revenue. It is the second largest container port in Africa and is the fourth largest container port in Southern Hemisphere. The distance around the port is 21 kilometres and has 302 kilometres of rail tracks.

There are 58 berths which are operated by more than 20 terminal operators. Over 4,500 commercial vessels call at the port each year. The tour includes a boat tour around the bay, identifying the various activities, and a presentation on their impact on municipal infrastructure.



Climate Change & Rising Sea Levels / Sharks Board

Capacity: 60

Requirements: Closed shoes and reflector vest

Since at least 1880 the average global sea level has been rising. Between 1900 and 2016 sea level rose by ± 16 to 21cm while more precise data from satellite radar measurements reveals an accelerating rise of 7.5cm from 1993 to 2017.

The acceleration is due mostly to global warming driving the thermal expansion of seawater while melting land-based ice sheets and

glaciers. The tour includes a visit to the KZN Sharks Board for an audio visual presentation followed by a shark dissection where the internal anatomy of the shark will be seen.



Go Durban IRPTN & N2 Umhlanga Interchange

Capacity: 50 / 60

Requirements: Closed shoes and reflector vest

Go Durban! is the name of the integrated rapid public transport network (IRPTN) that aims to provide a flexible, safe, cost effective, and seamless transport experience. It will see nine transport corridors linked by various modes of transport (bus, rail and taxi) across the municipality by 2027. The provision of transport is intrinsic to the creation of a vibrant, liveable and sustainable city.

Go Durban! is aimed at providing affordable and accessible public transport which connects different areas and provides transport services to areas previously not serviced.