

# 13/WSD/17

Design, Build and Operate First Stage of

## Tseung Kwan O Desalination Plant

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HAPPY  
NEW YEAR

2023  
兔  
新年快樂







# Topping-out Ceremony of TKODP

## Reaching the Highest Point in Our Site!

by Manson Law - RE Binnies



In less than three years after the ground was broken for the Project in 2020, the last pour of concrete for the Administration Building – the tallest building of the Tseung Kwan O Desalination Plant - had been placed, marked an important milestone for the Project in topping-out all the buildings. To celebrate, all project team members were invited to participate in the **Topping-out Ceremony on 20 October 2022**. We were honored to have the top management, **Ir. Kelvin LO, the Director of WSD, Ir. Andy KWOK, the Managing Director of Binnies Hong Kong Limited, Mr. Noky Wong, the Chief Executive of the Jardine Engineering Corporation Limited and Ir. Danny Hung, the Chairman and President of China State Construction Engineering (HK) Limited** to attend the ceremony and share this joyful moment with us!

However, this is not the end. In fact, we still have a lot to accomplish. Together, let us make strenuous efforts to strive for a smooth start and **successful plant operation in 2023!**



恭賀  
新禧

2023

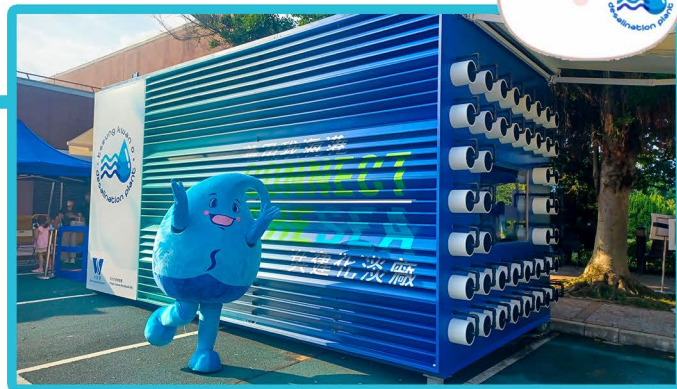


# WSD Open Day at MOSWTW

by Michelle Cheung - RE Binnies



In celebrating the 25th anniversary of the establishment of the Hong Kong Special Administrative Region, the Water Supplies Department (WSD) organized two-day Ma On Shan Water Treatment Works Open Day on 8 and 9 October 2022. The activity was successfully held and attracted near **2,700 members of public to visit**, including students and professional groups.



WSD established two special exhibitions in the Open Day. "Dongjiang Water Supply" exhibition displayed the precious historical photos showing the situation of water rationing in 1960's and Dongjiang Water Supply Scheme. The "**Drive for Excellence – The Innovation Milestones for the 21st Century**" exhibition introduced the overview of water supply in Hong Kong and showcased a number of development projects, including the TKODP project, in recent years echoing with the long-term city development as well as building Hong Kong as a green and sustainable smart city.

Our TKODP CAVE (Cave Automatic Virtual Environment) in Modular Integrated Construction (MiC) structure, named "**My Cup of 'Sea'**" had its first launch on the Open Day to provide an **immersive VR experience to visitors** and deliver the key message that TKODP is one of the strategic infrastructures by WSD in its mission to **provide reliable and adequate supply of wholesome potable water which is not susceptible to climate change**.



WSD's senior management visited "My Cup of 'Sea'"



Community groups visited "My Cup of 'Sea'"



Numerous visitors were paying attention to the video - Seawater Reverse Osmosis Treatment



Primary school students were having fun at "My Cup of 'Sea'"



# 4<sup>th</sup> Greater Bay Area Water Forum

by Ting Ting Lu, SRE Binnies



The 4th Guangdong-Hong Kong-Macao Greater Bay Area Water Forum cum the 14th Shenzhen-Hong Kong-Zhuhai-Macao Water Supply Seminar, co-organised by the Water Supplies Department (WSD) of the Hong Kong Special Administrative Region (HKSAR) and the Shenzhen Water and Environment Group Company Limited, was held from 16 to 18 November 2022.

The main forum, with the theme of "Precious Water, We Share; Smart Water, We Aspire", was held on 17 November at the Hong Kong Palace Museum and Crowne Plaza Shenzhen Longgang City Centre simultaneously with live streaming. Over 500 representatives of 11 water supply organisations in the area participated in the main forum of the event.

Our project participated in the forum's exhibition zone as well as in the seminars with a paper about Smart Construction and Digital Twin application. The highlights of the paper were selected to be shared via an online presentation by Mr. Lin Tang Tai, Chief Engineer, WSD.



## InnoCarnival 2022

by Karen Li, ARE Binnies

In October, we participated in the InnoCarnival 2022 that was organised by the Innovation and Technology Commission of the HKSAR at the Hong Kong Science Park. Themed "Innovation and Technology empower our dreams", it was an invaluable opportunity for us to showcase the Reverse Osmosis Desalination Plant - the first of its kind in Hong Kong and part of WSD's water conservation initiatives to the community. The major highlights were a 3D LED display wall and RO physical model to explain the sea water desalination process in detail. We were glad to learn that the information was well received by the public, including many primary school students.





# BIM Project 2022

by Vincent Wong, ARE Binnies

In September our project won the of BIM 2022 award for the second time! Organised by the Construction Industry Council, the award aimed to inspire the industry to continually be creative, innovative and transformative in bringing BIM to its full potential by sharing achievements among all stakeholders.

Our project has developed a wealth of BIM uses in the past years. During the construction stage, we have produced Construction Method Statement Simulation which transformed the textual method statements into videos that visually conveyed the construction sequence and constraints of major construction activities. Furthermore, the technology of Digital Fabrication had been applied in the construction of the Inspection Corridor. Utilising the principle of Modular Integrated Construction (MiC), the BIM model of the Inspection Corridor was detailed to fabrication level, thus the manufacturer was given highly accurate shop drawings that minimised reworks or remediation.

BIM is an essential part of our Project and the times to play a vital role in our industry. Join us in exploring its many usages!



# Common Data Environment (CDE) Award

by Vincent Wong, ARE Binnies

In addition to the above BIM award, our Project won the Special Mention Award in the Common Data Environment (CDE) Award as recognition of our efforts in the promotion and implementation of CDEs.

## What is CDE?

A CDE is a cloud-based space where information from construction projects is stored and accessible to project participants. Do you know that our project has implemented three main CDEs?

## Digital Works Supervision System (DWSS)

The DWSS is a web-based centralised portal of collecting construction works information and managing the workflows of site activities to enhance efficiency, safety and quality performance.

## Centralised Management Platform (CMP)

Our Project deploys a large number of smart devices to enhance the level of safety on site. These devices are linked and display via the CMP, which have been introduced early in the project cycle to provide a one-step hub to integrate and consolidate different data sources into one common platform. Combining with the control console at the site office, the CMP serves as a focal point for showing the collected data and issuing safety alerts/warning signals to the site supervisors.

## BIM 360

BIM 360 has been the primary data sharing platform where stakeholders at different stages of the project can organise, distribute and share files on a single, connected CDE. BIM 360 helps to keep designers from various disciplines in synchronisation and on-track, enabling the distribution of new versions of models and drawings to ensure all are working with the latest information and approved documents.





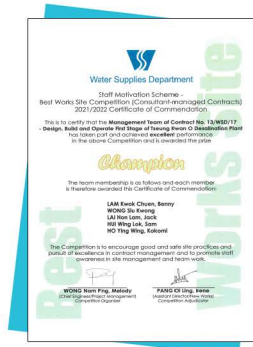


# Best Works Site Competition 2022 - A DOUBLE

by **William Tang, SRE Binnies**

This year, TKODP clinched the Best Works Site Competition (Consultant-managed Contracts) championship for the second consecutive year in a row since 2021. **Like some World Cup teams, we can put two stars above our project badge** (logo) which represents these great achievements for the Project.

This year, the Selection Panel, led by WSD CE/PM, visited our site on 9 November 2022. A 30-minute presentation followed by a site walk was given to the Selection Panel, **demonstrating our good site practices in particular the outstanding performance achieved in the aspects of site safety, improving WSD image and staff-coordination.** Thank you for everyone's continued efforts to make this a better Project. Regardless the success this year, be prepared for next year!



## Outdoor Drawing Workshop

by **Michelle Cheung, RE Binnies**



Following the success of our indoor Team building – Yoga Workshop in the past few months, a two-hour-long Water-coloring Drawing Workshop was held in November to appreciate art and embrace the breeze of the cool winter season by painting at the roof of our site office.

We invited Mr. Alan Cheung to be our instructor because of his well-known art pieces made for other government departments such as mascots for Environmental Protection Department's T2 Park and souvenirs for Link REIT properties. As Mr. Cheung is particularly good at speed sketching in the landscape, thus, in this team-building event, the participants learned how to use different painting tools to quickly outline and then apply the watercolor in the correct order. Finally, **we were able to create an interesting view of the construction site including tower cranes and storage areas with a magical twist turn of using watercolors.**

There will be more upcoming team-building events to enhance good relationships among project stakeholders. Give it a try next time!



# Lifewire Run- Tung Chung 2022

## WELL DONE TO THE RUNNERS!

by William Tang, SRE Binnies



And that's a wrap! Well done to runners - Laurence, Bill, Toby, David and William who formed a team under the Project of TKODP to participate in the 5.5km Lifewire Run in Tung Chung on 11 December 2022. We are proud to announce that we achieved **2nd runner-up** in the Corporate Race Category.

**With the mission to spread love and positivity** across Hong Kong, Lifewire Run proceeds will be donated to help children with rare diseases access life-changing medical care. Together, we can run further for kids with rare diseases!" <sup>1</sup>



Running for a charity can be one of the most rewarding experiences you can have. You have the chance to support the people who are less fortunate than you by doing what you love like running! It is truly worthwhile, whether it is a 1km, 5km, 10km or even a marathon - it will give you inspiration to participate in the race as well as the chance to raise funds for the NGOs.

Our next event will be the CIC Happy Run in early 2023 organised by CISVP. What is yours? Find your next event and become a charity runner! Note 1: <https://run.lifewire.hk/>

# COMING 3-MONTH CHALLENGES



- Completion of Installation of Outfall Diffusers
- Energisation of all Process Buildings for Testing and Commissioning
- Completion of Installation of DfMA Wall Panel
- Completion of MiC Inspection Corridor



# The Value of Safety? 安全何價?

by Lawrence Lau, RE Binnies

Safety has always been the first priority and a core value of the construction industry. In recent year, the Government aimed to re-shape the site safety culture in collaboration with the industry stakeholders. In order to enhance construction safety and safety management culture, the Development Bureau (DEVB) has piloted the Smart Site Safety System (SSSS) in Tseung Kwan O Desalination Plant and other seven nos. of public works contract, to promote the use of smart devices for monitoring sites and preventing accidents.

Under the above background, our Project was delighted to be invited by the DEVB to participate in the video shooting by TVB News Magazine in order to promote the wider adoption of the SSSS in both public and private sectors.

Looking forward, innovative technologies will play vital roles in the construction industry for marching towards the golden era of infrastructure in the next decade. To achieve the goal of "zero accidents", the construction industry should continue to adopt innovative technologies and take multi-pronged approach for uplifting site safety.



## Shoreline Cleanup Day

by Derek Lai, ARE Binnies

The beach next to the TKODP construction site is a non-gazetted beach which is often plagued with rubbish and marine debris because it is not being cleaned regularly. In order to improve the cleanliness of this coastal area and to raise the awareness of our site personnel towards the severity of coastal pollution in Hong Kong, AJCJV and Binnies jointly held a "Shoreline Cleanup Day" event on 7 October 2022.

The event was warmly participated by 50 members of the Project Team, including RSS, AJCJV, Independent Environmental Checker (IEC) and Environmental Team Leader (ET). **In two hours along the beach, our cleaning team collected more than 100kg of litter.** It was observed that the rubbish on the beach was mostly comprised of plastic products such as bags, empty bottles and various utensils.

We did not leave the beach **until it was as clean as the one in Maldives!**

