

Press Release  
November 2021

## CHINESE AND AUSTRALIAN PROJECTS SHORTLISTED FOR “THE PROJECT OF THE YEAR UNDER 50 M€ INCL. RENOVATION” CATEGORY

*7<sup>th</sup> edition of the ITA Tunnelling Awards  
From the 29<sup>th</sup> of November to the 2<sup>nd</sup> of December*

Since 2015, the international competition "ITA Tunnelling and Underground Space Awards" aims to reward the most ground-breaking innovations and outstanding projects in underground construction. Due to the recent global pandemic which impacted international travels, this edition will be held online through a dedicated platform, from the 29<sup>th</sup> of November to the 2<sup>nd</sup> of December, where the winner will be elected.

Through 8 categories, this competition aims to identify the most important ongoing underground works and technologies that help cities change and enable habits and ways of life to evolve in order to build smart and sustainable urban areas. One of the categories of the competition is focused on rewarding the **Project of the Year including Renovation (under 50 M€)**. Amongst all of the projects submitted for this category, the panel of judges identified **3 finalists** that seem to pursue one common goal: **re-building and re-thinking existing underground infrastructures while integrating sustainable elements.**

Aging underground infrastructures can cause issues around the world leading to sanitation and water problems. As cities continue to grow, there is an ever-growing need to renew buried pipelines, tunnels and sewage systems. Though, these renovations work are often at high cost, and they have large impact on surroundings and disturb local activities. These 3 finalists embody the importance of building or repairing infrastructures with a sustainable long-term approach.

### PROJET OF THE YEAR INCL. RENOVATION (UNDER 50 M€) CATEGORY AND ITS FINALISTS

- **Hong Kong's relocation of Sha Tin Sewage Treatment Works into Caverns in China**



The urban areas in Sha Tin have been developed with limited land for further development. The complicated urban fabric evolved over the past decades has imposed many constraints on improving the built environment and limited the growth potential of that areas.

Hong Kong's topographical setting with steep natural hillsides also limits the extent for further urban expansion. The majority of the tunnels and caverns

are in rock with more than half span of rock cover above the tunnel crown and will be formed using the drill and blast method. The proposed STSTW is located at the fringe of the Sha Tin

urban area and therefore the site is surrounded by numbers of sensitive receivers including utilities, features and structures such as residential buildings, schools, etc.

The key success of the project is led by fully compliance of the mutual trust and cooperation between project participants and the project team. They worked together with a common goal of bringing a modern and efficient project for the industry.

**Engineering firm(s) :** AECOM Asia Company Limited

**Cost :** 27 EUR million

- **Long Term Recycled Water Release Plan Stage 1 – Gold Coast Seaway in Australia**

As the population increases, so does the amount of excess recycled water the city generates. The existing infrastructure capacity is nearing its limit. To cater for future growth requirements, the country has developed a sound & affordable long-term solution for the city's excess recycled water.



Originally the Broadwater section was planned as a dredged crossing ; however, this approach had considerable environmental impacts on the Moreton Bay Marine Park waterways. With involvement from Bothar Boring & Tunnelling (BBT), JH worked with COGC to change the methodology to a pipe- jack, improving environmental outcomes.

Due to the success of the Broadwater Crossing, COGC awarded a variation for an additional 618m pipejack under Biggera Creek.

**Engineering firm(s) :**

- Golder Associates
- Bonacci Infrastructure
- McMillen Jacobs Associates
- Independent Civil Solutions

**Cost:** 23 EUR million

- **Tangjiawan Dananshan Emergency Shelter Project in China**



The Tangjiawan Dananshan Emergency Shelter Project (the Cave Laboratory for "Tianqin Project" at Zhuhai Campus of Sun Yat-sen University) has been built to improve the emergency protection capability of High-tech Zone, perfect the protection system of the Emergency Shelter project, and meet the needs of "Tianqin Project", the national major scientific research program.

The construction of the large emergency shelter, which Zhuhai had previously lacked, enhanced the emergency rescue capacity of the city proper, effectively improved their ability to respond to natural disasters, and further improved its civil air defense response capability. It is a major initiative to implement the plans of Guangdong and Zhuhai on improving the disaster relief management system.

**Engineering firm(s) :** Guangdong Zhonggong Project Management Co., Ltd.

**Cost:** 15.3 EUR million

## 8 CATEGORIES AND THEIR FINALISTS :

- **MAJOR PROJET OF THE YEAR (OVER 500 M€)**
  - Klang Valley Mass Rapid Transit (KVMRT) Putrajaya Line Tunnels and Underground Station Works in Malaysia
  - Ismailia Tunnels under Suez Canal in Egypt
  - Shantou Bay Tunnel Project in China
- **PROJET OF THE YEAR (BETWEEN 50 AND 500 M€)**
  - Large-diameter shield tunnel engineering project in karst strata of sea area in China;
  - Ping'an Tunnel on Chengdu Lanzhou Railway in China
  - South extension of the metro Line 14 in Paris - GC02 contract in France
- **PROJET OF THE YEAR INCL. RENOVATION ( -50 M€)**
  - Long Term Recycled Water Release Plan Stage 1 – Gold Coast Seaway in Australia
  - Relocation of Sha Tin Sewage Treatment Works into Caverns Hong Kong in China
  - Tangjiawan Dananshan Emergency Shelter Project in China
- **TECHNICAL INNOVATION OF THE YEAR**
  - A cloud based intelligent system for fully automated realtime design of tunnel supporting system in China
  - MISSIONOS for the Shaft & Tunnel Excavation Monitoring System for the DTSS2 Project in Singapore
  - O'Dive PRO services: decompression procedures monitoring in France
  - Riachuelo Lote 3 – Innovative method for the construction of sea outfall projects - The Risers Concept in Argentina
  - Virtual Master Rings, Replacing a tradition in Germany
- **BEYOND ENGINEERING – MAKING UNDERGROUNG WORKS PROJETS EVEN BETTER**
  - Is shield tunneling spoil a waste? A novel solution says no. in China
  - Xueshan No.1 Tunnel Project of Huashixia- Dawu Highway in China
- **INNOVATIVE AND CONTRIBUTING UNDERGROUND SPACES**
  - Fuxin Parking Lot of Shenzhen Rail Transit Line 14 in China
  - Lefdal Mine Data Center The Norwegian Solution where scale and flexibility meet resiliency in Norway

- **YOUNG TUNNELLER OF THE YEAR**

- **Chiranjib Sarkar** in India
- **Gianluca Comin** in Italy
- **Keith Bannerman** in Australia
- **Michael Mains** in Canada
- **Nick Hatzibousios** in Australia
- **Zhuanzhuan Zhang** in China

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