


# INTRODUCTION TO SINGAPORE WATER ASSOCIATION'S YOUNG WATER PROFESSIONALS

“To develop Young Water  
Professionals to be future  
leaders of the Water Industry”

# AGENDA

- ▶ Introduction to Singapore Water Association
- ▶ Getting to know Singapore's water industry
- ▶ Sectors and career pathways for Engineering / Non-engineering students
- ▶ Roles of an Environmental/Civil professional
- ▶ Application Process

- ▶ The Singapore Water Association (SWA) was founded in 2004, and is a dynamic collaboration among private sector players intent on bringing a new vibrancy to Singapore's growing water industry.
- ▶ The association aspires to play a role in efforts to profile and promote Singapore as a one-stop centre for all water-related services and as a water technology hub.
- ▶ SWA Young Water Professionals (YWP) was founded in 2015 and aims to support efforts by SWA, by profiling and promoting the water industry as a viable and fulfilling career option to graduates and young professionals.



To Singapore Growing

**WATER INDUSTRY**

## Panels

- Sustainability
- Water Resources
- Water Supply and Quality
- Wastewater Management
- Air
- Waste Management

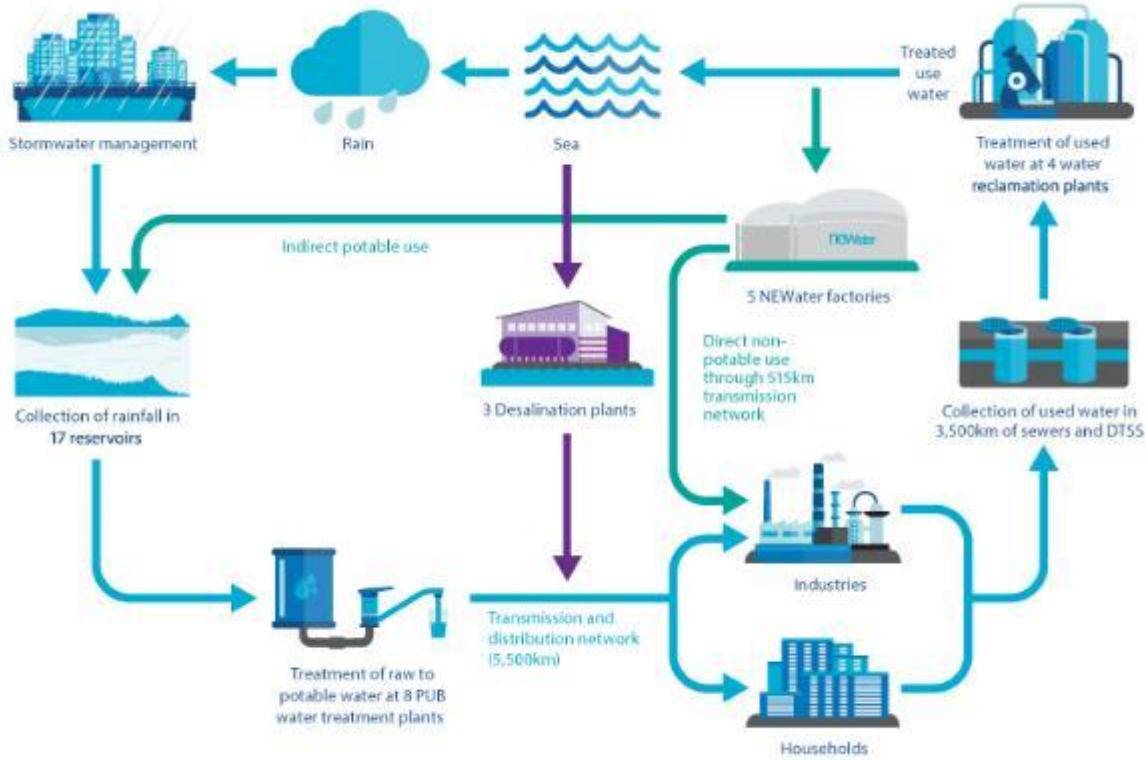
## Networks

- Natural Capital
- Climate Change
- Energy
- Faiths and the Environment
- Contaminated Land
- Future Prospects
- Environmental Education

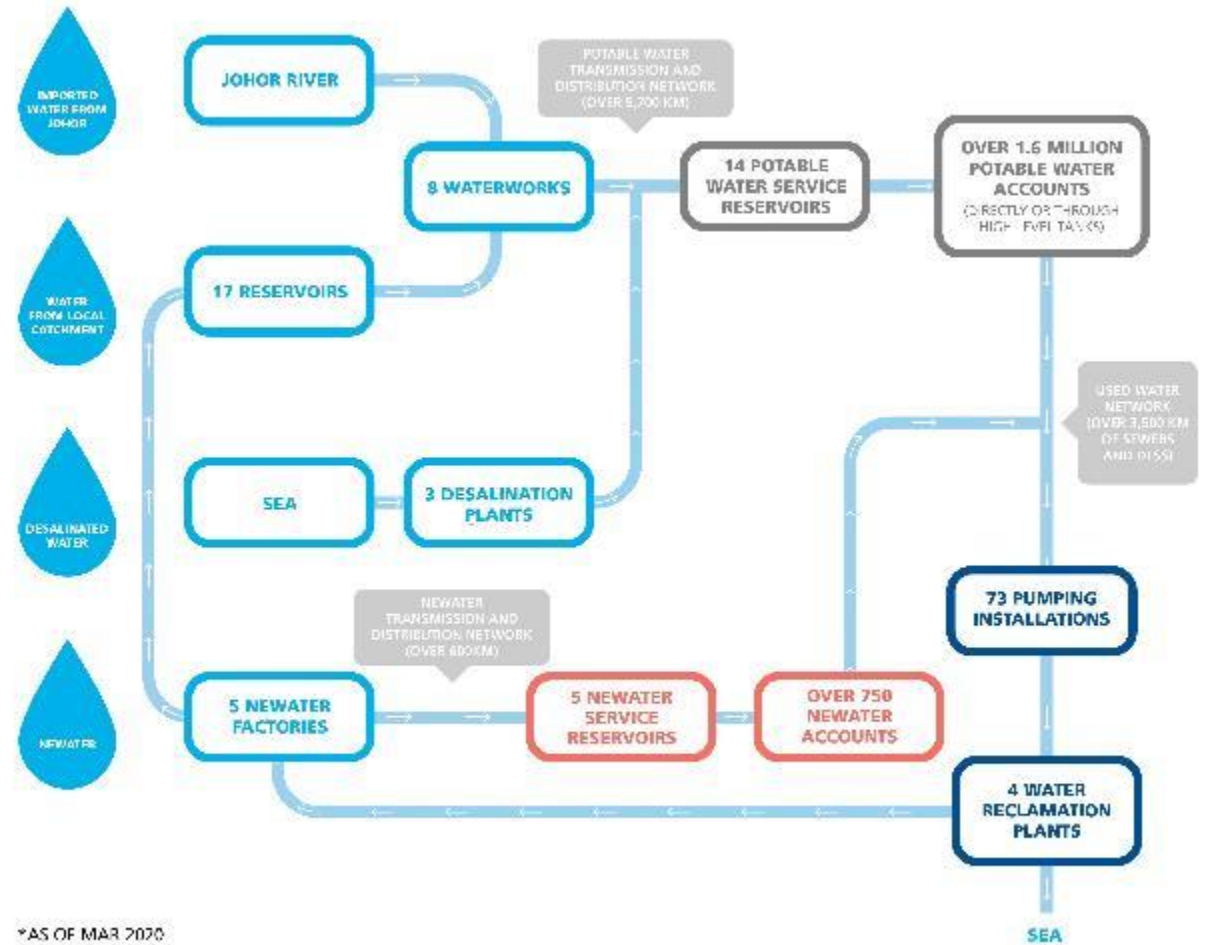
## Groups

- Rivers and Coastal Group
- Urban Drainage Group





<https://www.pub.gov.sg/>



\*AS OF MAR 2020

Water Demand in Singapore is currently about 430million gallons a day (MGD). That is enough to fill 782 Olympic –sized swimming pools, with homes consuming 45% and the non-domestic sector accounting for about 70%. By then, NEWATER and Desalination will meet up to 85% of Singapore’s future water demand.



The sustainable development goals are the blueprint to achieve a better and more sustainable future for all. They address the global challenges we face, including poverty, inequality, climate change, environmental degradation, peace and justice. Learn more and take action.

<https://www.un.org/sustainabledevelopment/water-and-sanitation/>





## MEDIA – JOIN OUR CONVERSATIONS

- Professional Training
- SWA Webinar
- Events & Activities

<https://www.swa.org.sg/>



SWA YWP COMMITTEE (2020-2022)



SINGAPORE INTERNATIONAL WATER WEEK (SIWW)



SINGAPORE WATER INDUSTRY NITE

**7th July 2020**  
**SWA Webinar : Dialogue with World Bank & IFC**  
**(Assistance & Financing for the Water Cluster)**

Dialogue with World Bank and IFC  
**Assistance and Financing for the Water Sector**

7<sup>th</sup> JULY 2020, TUESDAY, 9:00am – 10:30am  
**COMPLIMENTARY WEBINAR (webex)**  
*Exclusive for SWA Members and SGP water stakeholders*

ONLINE WEBINAR WITH WORLD BANK & IFC



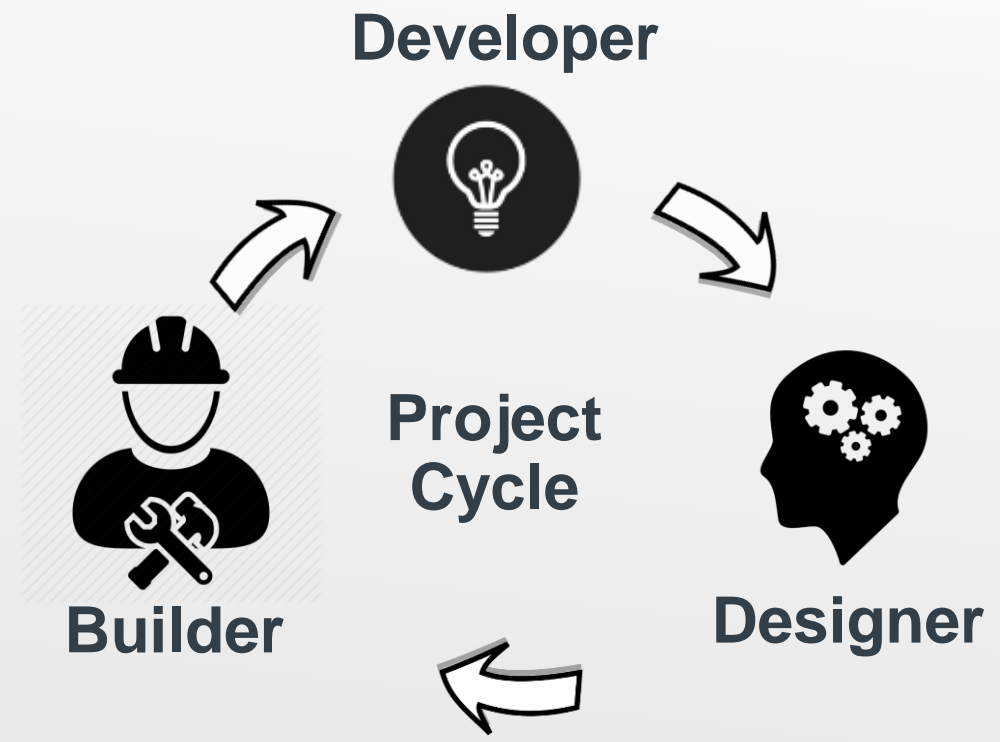
YOUNG WATER LEADERS SUMMIT

# CONFERENCES AND EVENTS



## CAREER PERSPECTIVE:

# WHAT DOES ENVIRONMENTAL/CIVIL PROFESSIONAL DO?



Getting to know water industry in Singapore...



## DIFFERENT ROLES

- **Designer:** Deliver professional services for design
- **Coordinator:**
  - External parties: Authority & agency, client, contractor, service provider,
  - Internal parties: Multiple disciplines such as M&E, QS, BIM, Planner,
- **Project Manager:** Contract administration, supervise work progress,
- **Drafter:** Autocad/ Microstation/ Revit
- **Process Engineer:** Water / wastewater / Desalination treatment
- **Sustainability Expert:** ABC WP, Green Mark, LEED AP,
- **Specialist:** Risk/Insurer, Investment advisor, Geotechnical, Modelling

# SECTOR SPECIFIC

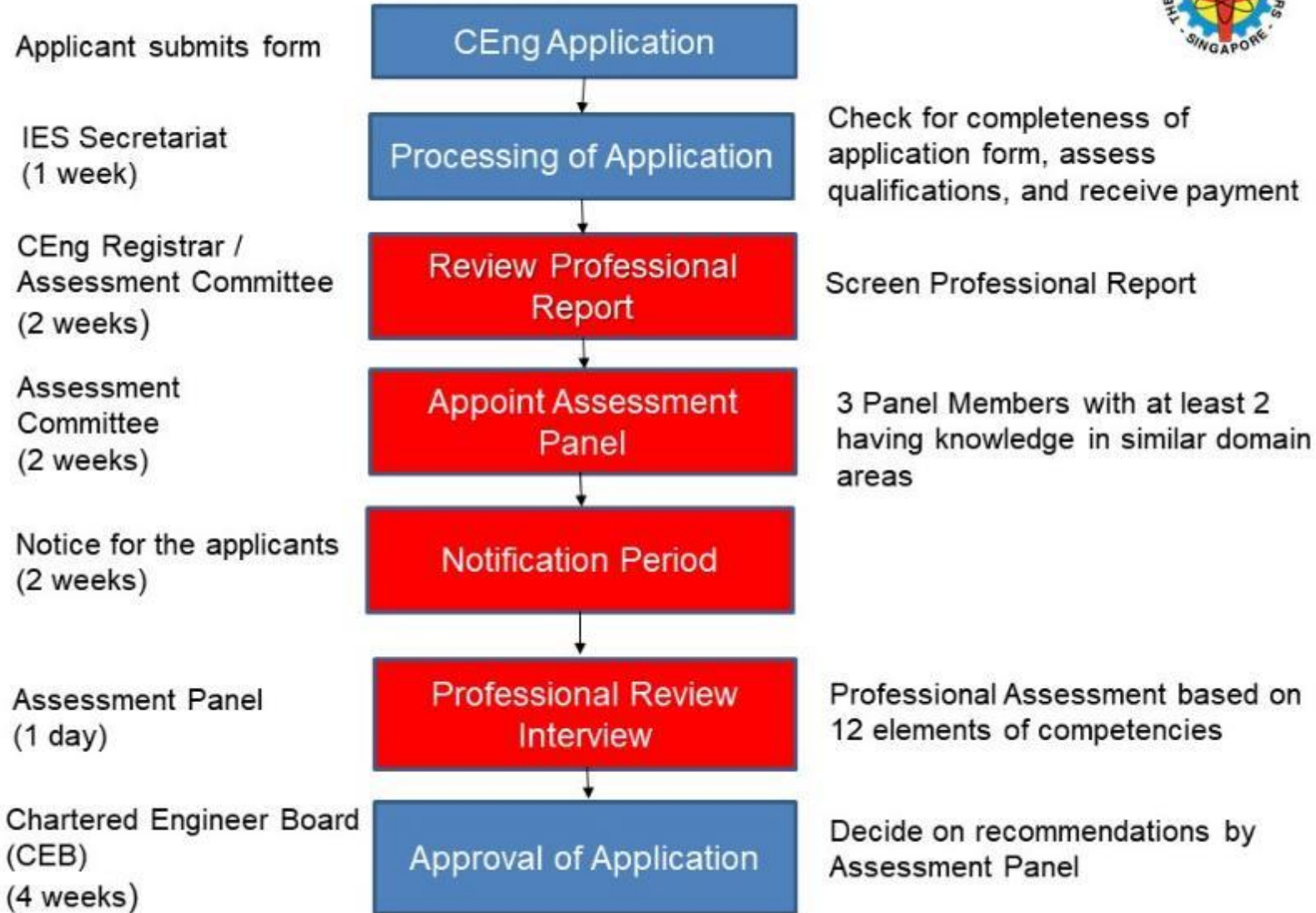
| Public Sector | Consultants    | Contractors | Developers | Research | Policy                  | Financial Institutions | Product Developers |
|---------------|----------------|-------------|------------|----------|-------------------------|------------------------|--------------------|
| PUB           | AECOM          | Chye Joo    | UOL        | NEWRI    | LKY SPP                 | World Bank             | Xylem              |
| LTA           | Surbana Jurong | Samwoh      | Keppel     | NUS      | World Bank              | DBS                    | Anaergia           |
| NParks        | Jacobs         | Zublin      | Capitaland | NTU      | ADB                     | ADB                    | Tritech            |
| MPA           | Black & Veatch | Hwa Seng    | CDL        | Deltares | Government of Singapore | Venture Capital        | Wateroam           |

Others include philanthropic institutions, NGO's, entrepreneurs, disaster relief, etc.



# APPLICATION PROCESS

## Target processing time for CEng application



# APPLICATION PROCESS

## Chartered Engineering Technologist and Technician Certification Scheme - Launched 22 January 2021

<https://www.straitstimes.com/singapore/parenting-education/new-skills-based-certification-scheme-to-help-budding-engineers-build>

<https://theoneworldnews.com/asia/new-skills-based-certification-scheme-launched-to-help-budding-engineers-build-careers/>

# COMPLETING YOUR SUBMISSION

- ▶ Always write in the first person
- ▶ Remember your step 1 submission forms the basis for the Interview
- ▶ Demonstrate experience for what you are applying for
- ▶ Try to find a Mentor
- ▶ Identify gaps in your knowledge and experience
- ▶ Find ways to fill these gaps – secondments, different projects etc.
- ▶ Keep your CPD record up to date
- ▶ Stay within the word limit
- ▶ Always write in the first person



# INTERVIEW

- ▶ **Introduction and Career Review:**
- ▶ Greeting, introduction, aims and structure of the interview
- ▶ Personal history relating to career progression – based on the Career Overview Report
  
- ▶ **The Technical Part:**
- ▶ 20+10 minute presentation / discussion
- ▶ You make a short introductory presentation which can be paper based but predominately verbal (about 10 minutes) to introduce a project/s or piece/s of work referenced in your Mandatory Competence Attainment Report

# INTERVIEW

- ▶ **General discussion, questioning and conclusions:**
- ▶ You will be expected to answer questions from the Interview Panel to ensure you have achieved all of the Mandatory Competences
- ▶ Current water / environmental issues
- ▶ Summing up questions
- ▶ Final opportunity to tell the Professional Review Interviewers about anything else in support of your application

## TAKEAWAYS

- ▶ Access to SWA community
- ▶ Learnings from senior water leaders
- ▶ Invite to key events
- ▶ Exchange of ideas with other youth members in the sector
- ▶ Career advise sharing



# THANK YOU

## Q&A