

SUSTAINABLE WASTEWATER MANAGEMENT

A FREE WEBINAR



PRESENTED BY:

**& PHILIPPINE SOCIETY OF SANITARY ENGINEERS, INC.
ANTHROSERV**

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FREE WEBINAR ON SUSTAINABLE WASTEWATER MANAGEMENT by PSSE in partnership with ANTHROSERV

RATIONALE

Sustainable Development Goal 6 focuses on ensuring access to clean water and sanitation. While substantial progress has been made in increasing access to sanitation, the Philippines still has the long way to go to cover its sanitation targets. Currently, only 10% of the total wastewater generated is treated in the country. A major factor in these statistics is the high CAPEX and OPEX costs of putting up wastewater treatment plants to comply with the new DAO 2016-08 & DAO 2021-19 standards.

Wastewater management does not equate to wastewater treatment. Like any other waste management practice, wastewater management should go through the waste management hierarchy. In this manner, wastewater management becomes sustainable, even profitable. It should start with resource efficiency and cleaner production (RECP) principles to prevent wastewater discharge upstream. Wastewater treatment shall be the last option in wastewater management.

There is no wastewater treatment technology that fits all. You may hear from different technology providers that their technology is the best among the rest, but environmental engineering principles state otherwise. The end-of-pipe techniques for wastewater treatment are usually composed of various technologies classified under either preliminary, primary, secondary, or tertiary treatment. Arranging them in sequence depends on the type of wastewater and the desired effluent water quality. You can think of it as puzzle pieces that need to merge depending on the photo intended.

For business owners, pollution control officers and especially sanitary engineers, it is very important that they understand the step-by-step procedure on holistic wastewater management, from upstream analysis to technology selection, to prevent unnecessary investments.

The resource speakers are expected to train the participants in RECP principles, including water audit, to identify wastewater management saving strategies. Further, participants will be taught how to identify design parameters, such as capacity and quality, and decide on what wastewater treatment technology is suited for them given the constraints in their costs, space, and operations.

SPECIFIC OBJECTIVES:

This 8-hour webinar shall discuss the holistic determination of wastewater treatment strategies, covering topics from flow wastewater reduction, treatment plant design parameters and technologies. At the end of the webinar, the participants should be able to:

1. apply basic RECP principles in wastewater management,
2. identify design parameters (i.e., capacity and quality) of their wastewater treatment plant,
3. evaluate the suited wastewater treatment plant given their constraints, and
4. appreciate the economic benefits of putting up wastewater treatment plants.

1st Technical Session: (4 hours)

Sustainable Development Goal 6 (SDG6) and Resource Efficiency and Cleaner Production (RECP) in Wastewater Management

Outline:

- Introduction to Sustainable Development Goal 6 (SDG6)
- Introduction to Resource Efficiency and Cleaner Production (RECP)
- Wastewater Management Hierarchy
- Determination of Wastewater Treatment Plant design parameters
- Economics of Wastewater Management

2nd Technical Session: (4 hours)

Wastewater Treatment Technology Needs Analysis

Outline:

- Stages in Wastewater Treatment
- Wastewater Treatment Technologies
- Design and Operating Parameters in a Wastewater Treatment Plant

SPEAKERS



ENGR. JOSHUA BON A. ROCO

Associate ASEAN Engineer

Lead Chemical Engineer, Anthroserv

Topic: Sustainable Development Goal 6 (SDG6) and Resource Efficiency and Cleaner Production (RECP) in Wastewater Management



ENGR. KEVIN L. VALDERRAMA

Lead Civil and Sanitary Engineer, Anthroserv

2nd Placer, January 2018 SE Board Exam

Topic: Wastewater Treatment Technology Needs Analysis



FREE WEBINAR ON SUSTAINABLE WASTEWATER MANAGEMENT

Date: November 30, 2022



PROGRAM RUN-DOWN

Program Host: Engr. Manny Anthony M. Taguba

Time	Session/Activity	
7:50 AM	Preparatory Session - House Rule, Opening Prayer, and National Anthem	
8:00 AM	Opening & Welcome Remarks	Engr. Virginia T. Rocabo National President, PSSE
	Introduction to First Speaker	*Engr. Martim Stephen C. Corpuz National Director, PSSE
	Session 1 Sustainable Development Goal 6 (SDG6) and Resource Efficiency and Cleaner Production (RECP) in Wastewater Management In-between Biological Break / Activity Booster Followed by Q&A	Engr. Joshua Bon A. Roco Lead Chemical Engineer, AnthroServ *Moderator: Engr. Martim Stephen C. Corpuz
12:00 NN	Awarding of Certificate of Appreciation Zoom Meeting Photo-op	
12:00 NN	LUNCHBREAK	
1:00 PM	Activity Booster	Program Host
1:10 PM	Introduction to Second Speaker	*Engr. Frediswinda De Guzman National Treasurer, PSSE
	Session 2 Wastewater Treatment Technology Needs Analysis Followed by Q&A	Engr. Kevin L. Valderrama Lead Civil and Sanitary Engineer, AnthroServ *Moderator: Engr. Aida DC Calma
5:00 PM	Closing Remarks	Engr. Delino G. Cubacub National Vice President, PSSE
	Announcement	Engr. Franz Furby Ramos National MRO
	Zoom Meeting Photo-Op Adjournment	

* Moderator will Introduce the Resource Speaker, facilitate Q&A session, and will award the Certificate to Resource Speaker.

11/30/2021

