

# Circular Economy Webinar EP I: Industrial Emission Monitoring

## Thursday 30<sup>th</sup> September 2021 from 13.30 to 15.00

- 13:30 **Welcome remarks** on behalf of the Asian Institute of Technology, by the President, Dr. Eden Woon
- 13:35 **Welcome remarks** on behalf of the Embassy of Finland, by the Ambassador, H.E. Jyri Järviaho
- 13:40 **Continuous Emission Monitoring Systems (CEMS) Implementation in Thailand**  
*Expert from Department of Industrial Works, Ministry of Industry, Thailand*
- 13:50 **Modern Technology for Industrial Air Pollution Monitoring**  
*Dr. Prapat Pongkiatkul , Head of Department, Faculty of Engineering, King Mongkut's University of Technology Thonburi, Thailand*
- 14:00 **Development Milestones and Learnings from Finland - Trusting the Emission Results: QA Process for CEMS in Finland & Case Study: Capacity Building for Emission Measurements in India**  
Dr. Tuula Pellikka, Principal Scientist, Emission Control, VTT Technical Research Center of Finland Ltd.
- 14:15 **Case Study: W2E plant – Fortum Waste Solutions Oy, Finland**  
Minna Kaila, R&D Manager (W2E, CE), Fortum Waste Solutions Oy
- 14:25 **Panel Discussion and Q&A**  
Dr. Prapat, Dr. Tuula, Ms. Minna, expert from DIW &  
Dr. Ekbordin Winijkul, Assistant Professor  
Environmental Engineering & Management, AIT (Moderator)



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## Introduction

**Air pollution** is said to be the world's largest single environmental risk. 90% of world's population breathes dirty air to some degree, and it causes more annual deaths than Covid19 pandemic has done so far. Main causes for air pollution are industrial, open burning and transportation.

Effective prevention and **control of industrial emission** is the way to reduce air pollution. But how to do it in practice? **Finland has an excellent track record** being among the least polluted countries in the world. **VTT Technical Research Center of Finland** has been one of the leading organizations in the development of industrial emission monitoring technologies, and has shared its experiences in capacity building projects in all continents. Also, **Fortum Waste Solutions** can show us a practical example, how one can dispose municipal-, industrial- and even hazardous waste in harmony with local environment and communities.

Likewise, the good air quality (or lack of it) has been a hot topic in Thailand during the last couple of years. Now, **Thai Ministry of Industry** has introduced new regulations requiring at least 600 factories to install **Continuous Emission Monitoring Systems (CEMS)** - monitored online by the Department of Industrial Works (DIW). DIW has now made its own roadmap to put these regulations in practice. This is very important step for effective enforcement of air pollution laws in Thailand.

**This Webinar** with the leading experts from **Thailand and Finland** aim to capture the robustness of these developments, sharing the **experiences and lessons learnt**. What are the major development challenges in the future and how we can tackle them? Join us on Thursday, September 30<sup>th</sup> !!



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