



# SPECIAL SESSION IN 8<sup>th</sup> International Conference on Sustainable Energy and Environment (SEE2022)



## ON "Waste Recycle and Waste Utilization - Covid 19 Aftermath"

Hosted by Collaborative Research Laboratory  
(NIES-KU-KMUTT)

As part of the Strengthening Network Program on  
Enabling waste management scheme in response to disaster and climate change

Supported by PMU-B



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## INTRODUCTION

The global spread of Covid-19 has created a global health emergency and effect behavior changes in humankind. Although national and local regulatory interventions are primarily focused on ensuring human well-being and economic prosperity, implementing effective and sustainable waste management strategies is of utmost importance to limit the potential for secondary environmental impacts. The lack of waste management can lead to social, environmental, and health consequences, including Covid-19. Controlling the spread of infectious diseases requires properly managing municipal solid waste and solid medical waste.

During the pandemic, the increased use of single-use plastics had detrimental effects on MSW management and created unintended environmental concerns. The environmental impacts could be mitigated if the proper waste management procedures, such as energy recovery, are implemented. The energy recovery depends on waste type, embodied energy, energy recovery efficiency, and incinerator parameters. However, for plastic waste, the best waste management technology is plastic recycled and thus improving the sustainability of waste management systems. The key to minimizing the environmental impacts of solid waste management is determined to be waste segregation and separate processing of waste streams according to their characteristics and the utilization of MSW. Furthermore, the appropriate waste management strategies for mitigating the environmental impact of MSW and SMW during a pandemic scenario should be concerned in line with the circular economy

The Collaborative Research Laboratory, with joint activities from the National Institute on Environmental Study (NIES) Japan, Kasetsart University, and King Mongkut's University of Technology, Thailand, have recognized this importance. In order to disseminate this important message and exchange academic experiences as well as create a starting point of waste management forum in the aftermath of COVID 19 in Asia, we host this special session in the 8th International Conference on Sustainable Energy and Environment (SEE 2022) on the Waste Recycle and Waste Utilization - Covid 19 Aftermath as a part of the Strengthening Network Program on Enabling Waste Management Scheme in Response to Disaster and Climate Change supported by Program Management Unit B: Brain and Manpower, Thailand.

## OBJECTIVE

This special session aims to serve as a forum for presenting recent progress, the status of a global solid waste generation changed by the Covid-19 crisis, the challenges, opportunities, and strategies toward sustainable waste management practices to overcome similar challenges in future pandemics, and promote waste recycling and utilization towards a circular economy.

## EXPECTED OUTCOMES

It is expected that all participants perceive technical information, policies, waste management situation, an innovation that addresses energy, environment, and climate change issues, and exchange of ideas and networking.