Webinar on Mechanical-Biological Treatment (MBT)

The CCET guideline series on intermediate municipal solid waste treatment technologies

17 February 2021, 13:00 – 14:30 (JST) / Free / English
Registration:

https://form.iges.or.jp/webapp/form/11205_zoq_394/index.do

Introduction

The IGES Centre Collaborating with UNEP on Environmental Technologies (CCET) and the International Environmental Technology Centre of the United Nations Environment Programme (UNEP IETC) developed a series of Waste Management Guidelines, in collaboration with the National Institute for Environmental Studies (NIES) and the Japan Society of Material Cycles and Waste Management (JSMCWM), and with financial support from the Ministry of the Environment, Japan (MOEJ). These guidelines aim to enable national and municipal-level policymakers and practitioners, in selecting appropriate intermediate technologies, to improve their waste management policies and practices.

MBT is a pre-treatment method using a combination of mechanical crushing and sorting processes and biological treatment (e.g. aerobic and anaerobic decomposition) before landfilling. The advantage of MBT within the integrated waste management system is that it can reduce the amount of waste disposed of in open dumps. For instance, residual waste can be used to produce Refuse Derived Fuel (RDF) or Solid Recovered Fuel (SRF) and the sorting process can recover recyclable resources, such as metals. Though MBT facilities are largely operating in Europe and the US, in recent years, especially in Southeast Asia where urban development has been remarkable, greater attention has been paid to the introduction of MBT as a technology to cope with the increase in waste volume.

In this webinar, the presentation and discussion will focus on the application of MBT in an integrated municipal solid waste management system, especially in developing countries, in addition to opportunities and challenges for the technologies and policy decisions on the ground level.

Programme

Time	Contents	Speakers
13:00 – 13:10	Introduction	Mr. Kazunobu Onogawa, Director, CCET
Moderator: Mr. Chart Chiemchaisri, Professor, Kasetsart University, Thailand, The Japan Society of Material Cycle and Waste Management		
13:10 – 13:30	Presentation by the lead author of the guidelines MBT for improving municipal solid waste management in developing countries	Mr. Tomonori ISHIGAKI, Senior Researcher, National Institute for Environmental Studies (NIES), Japan
13:30 – 14:00	Short presentations from key persons Presentation 1 Waste stabilization in different MBT systems: Case studies in Thailand Presentation 2 Opportunities and challenges for MBT technologies and policy decisions on the ground, the case of India Presentation 3 Technology adaptation for environmentally sound management of waste in developing countries	 Mr. Chart Chiemchaisri, Professor, Kasetsart University, Thailand, The Japan Society of Material Cycle and Waste Management Mr. N B Mazumdar, Honorary chairman, International Academy of Environmental Sanitation and Public Health, India Mr. Shunichi Honda, Programme Officer, UNEP IETC
14:00 – 14:30	Panel discussion	

- Q&A: For Q&A, the audience may provide questions through the registration form or the following email address in advance.
- IGES event page: https://www.iges.or.jp/en/events/20210217
- Organisers:
  - IGES Centre Collaborating with UNEP on Environmental Technologies
  - National Institute for Environmental Studies
  - The Japan Society of Material Cycles and Waste Management
  - The International Environmental Technology Centre of United Nations Environment Programme