

Ocean Plastic Turned into an Opportunity in Circular Economy - OPTOCE



Regional Forum, 27-28 October 2022

Hotel Radisson Blu Plaza, Bangkok

Physical or Virtual Participation



The Regional Forum takes place in Bangkok time zone (GMT+7)

Programme Day 1 – 27 October 2022

1. Thematic focus: Results and impacts of the OPTOCE-project up to now

- 12:00-13:00 Registration / Refreshments and light lunch
- 13:00-13:15 Opening address by the Norwegian Embassy, Bangkok
Opening address by Norad, Norway
Opening address by the Ministry of Environment, Thailand (TBC)
Opening address by SINTEF, Norway
- 13:15-13:40 Keynote on the Ocean Plastic Turned into an Opportunity in Circular Economy project - OPTOCE. Dr Kare Helge Karstensen, Programme manager and Chief scientist, SINTEF, Norway.
- 13:40-14:00 Media session / Group photo
- 14:00-14:20 Experiences with Co-processing of plastic containing wastes in Vietnam. Mr. Bruno Fux, Director, Ecocycle Vietnam.
- 14:20-14:40 Experiences with Co-processing of plastic containing wastes in China. Mr Shi Li, Sustainability Director, Huaxin Cambodia.
- 14:40-15:00 Experiences with Co-processing of plastic containing wastes in Thailand. Ms. Suchintana Viraratt, Director, Ecocycle, Thailand.
- 15:00-15:20 Experiences with Co-processing of plastic containing wastes in India. Ms. Moumita Chakraborty, Director, Geocycle, India.
- 15:20-15:40 Panel Discussion and Questions
- 15:40-16:00 Coffee break

2. Thematic focus: Academic collaboration and research

- 16:00-16:10 Introduction to the OPTOCE Academic Collaboration
- 16:10-16:25 OPTOCE supported research conducted at the Asian Institute of Technology, Bangkok. Professor Chettiyappan Visvanathan, AIT, Thailand.
- 16:25-16:40 OPTOCE supported research conducted at Vietnam National University, Hanoi. Professor Trinh Tran, VNU, Vietnam.
- 16:40-16:55 OPTOCE supported research conducted at Jadavpur University, Kolkata. Professor Sadhan Ghosh, Jadavpur University, India.
- 16:55-17:10 Panel Discussion and Questions
- 17:10-17:15 Wrap up / Practical information

Programme Day 2 – 28 October 2022

3. Thematic focus: View of Stakeholders on co-processing of wastes in the cement industry

- 09:00-09:05 Welcome / Practical information
- 09:05-09:20 View on co-processing of plastic waste in the cement industry. Dr. Trinh Thi Long, Project Manager WWF Viet Nam.
- 09:20-09:35 Myanmar's waste management system and plans to initiate co-processing to tackle plastic wastes seen from a private company. Mr. Hideki Yomo, Managing Director, Golden DOWA Eco-System, Yangon, Myanmar.
- 09:35-09:50 Start-up make use of co-processing and plastic credits for plastic waste removal in Vietnam and Cambodia. Mr. Barak Ekhstein, CEO of TONTOTON.
- 09:50-10:05 UNEPs view on co-processing of plastic waste in the cement industry. Dr. Sumit Sharma, Programme officer, UNEP India, Delhi.
- 10:05-10:20 Current status on plastic waste generation and management in India; plans and programmes to prevent Marine Litter. Ms. Divya Sinha, Scientist-E & Divisional Head, Central Pollution Control Board, India. (TBC)
- 10:20-10:40 Panel Discussion and Questions
- 10:40-11:00 Coffee break

4. Thematic focus: Importance of co-processing to prevent marine littering and to achieve net-zero in the cement industry

- 11:00-11:15 Importance of co-processing for the INSEE group. Mr. Aidan John Lynam, CEO and President, Siam City Cement, Bangkok.
- 11:15-11:30 Roadmap for the Chinese cement industry to become net-zero. Mr. Wang Jiajun, Vice President of Huaxin Cement, Wuhan, China.
- 11:30-11:45 Status of Co-processing of waste in the Thai cement industry. Mr. Visut Chongcharoenkit, Member of Climate Change & Carbon Credit Committee, The Federation of Thai Industries and Director of Green Circularity Business, SCG Cement, Bangkok.
- 11:45-12:00 Status of Co-processing of waste in Vietnam's cement industry. Ms. Cham Trinh, Senior researcher, Vietnam Institute of Building Materials, Hanoi.
- 12:00-12:15 Large scale co-processing of non-recyclable plastic and RDF from legacy waste in Indian cement industry. Mr. Nagesh Prabhu Chinivartha Co-Founder, Zigma Global Environ Solutions Private Limited, Mumbai, India.

- 12:15-12:30 Importance of co-processing to achieve net-zero for the cement industry
Mr. Thomas Guillot, CEO and President of the Global Cement and Concrete Association (GCCA), London.
- 12:30-13:00 Discussion / Summary / Wrap-up / Group photo / Closure
- 13:00-14:00 Light lunch

Location and registration

The OPTOCE Regional Forum is arranged by the Norwegian Research Institute SINTEF and takes place at Hotel Radisson Blu Plaza, 489 Sukhumvit Rd, Klongtoey, Watthana, Bangkok, +66 2 302 3333 on 27-28 October 2022. The presentations will be in English. Participation in the Regional Forum is free-of-charge, but travel and accommodation must be made at own cost.

We welcome everyone to join us physically in Bangkok to meet colleagues working within the field of co-processing and plastic waste management. It will also be possible to attend the Regional Forum virtually. A link to join will be shared with registered participants before the event.

If you wish to register, please sign up at <https://optoce.no/registration/>. E-mail Regional Forum Coordinator aneli.paulsen@sintef.no if you have any questions.

Read more and see the agenda online at <https://optoce.no/regional-forum>

Ocean Plastic Turned into an Opportunity in Circular Economy - OPTOCE

The OPTOCE project is part of the Norwegian Development Programme to Combat Marine Litter and Microplastics. The programme is intended to contribute to Sustainable Development Goal (SDG) 14.1 which states that the world should prevent and significantly reduce marine pollution of all kinds by 2025.

An estimated amount of 13 million tonnes of plastic waste leak into our oceans every year, harming biodiversity, economies, and our own health. If nothing is done, the amount is expected to triple by 2040. An estimated 9.3 billion tons of virgin plastics was produced globally up to 2019. Out of this, around 6.3 billion tonnes have ended up being plastic waste; of this, only 9% has been recycled, 12% incinerated and 79% dumped. If current production and waste management trends continue, roughly 12 billion tonnes of plastic waste will be in landfills or in the natural environment by 2050.

International action is key to tackle the most significant sources of plastics litter in the oceans, i.e., insufficient waste management in developing countries and emerging economies, especially connected to major world river basins, dumpsites/landfills, and industrial hotspots. It is estimated that more than 80% of marine debris comes from land-based sources and Asian countries are among the top contributors to marine litter and microplastics.

The regional project Ocean Plastic Turned into an Opportunity in Circular Economy, OPTOCE, aims to investigate if and how the cement industry can be involved and increase the treatment capacity for Non-Recyclable Plastic Wastes in China, India, Myanmar, Thailand, and Vietnam and thereby contribute to reduce the release of plastics to the Sea.

These countries are producing an estimated 217 000 tonnes of plastic waste every day, or 79 million tonnes/year, and have some of the highest releases of Plastics to the Sea. Relatively small quantities are handled in an environmentally sound way. But they also have the highest industrial production of cement, steel, and electric power, using huge amounts of coal and contribute with a large chunk of the world's CO2 emissions.

Replacing parts of the coal with non-recyclable plastic waste may constitute a win-win opportunity, preventing the plastic from ending up in the ocean, reducing the need for large amounts of fossil coal and indirectly reducing greenhouse gas emissions by avoiding building new incinerators or landfills. This is called Co-processing or Integrated waste management. Additional objectives and synergies of the OPTOCE-project will be the following:

- Reduce marine debris from land-based activities.
- Enhance multi-stakeholder coordination and partnerships.
- Promote private sector engagement.
- Strengthen research to support science-based policy and decision making.

The Regional Forum of the OPTOCE-project aims to present results achieved up to now and to discuss opportunities and drawbacks of involving the cement industry in plastic waste management. We hope to see you in Bangkok on October 27-28, 2022!

The OPTOCE Team