

CIRCULAR ECONOMY WEBINAR

*Experience from Finland & Thailand
Come Join the 3rd Expert Talk
in our Thai-Finnish Circular Economy Mini-Webinar series
hosted by the Embassy of Finland, The Asian Institute of Technology
and the Ministry of Industry of Thailand*

EP III: EV Battery Recycling
Tuesday 14 December 2021, 1.30 - 3.00 PM
on Zoom Meeting Platform

AGENDA

- *Thailand aims to be electric vehicle production hub, and the world largest EV battery factory is under construction here. What are the plans to develop EV battery recycling in Thailand?*
- *Finland has been involved in the development of EU-level for EV battery recycling strategies and technologies.*
- *How to recover the valuable metals, when hundreds of thousands of end of life Li-Ion batteries are on our hands in next 5-10 years time?*
- *What are the experience and learnings from Finland?*



Embassy of Finland
Bangkok



Circular Economy Webinar EP III: EV Battery Recycling **Tuesday 14 December 2021, 1.30 - 3.00 PM**

- 13:30 **Welcome remarks** by xx, Ministry of Industry of Thailand
- 13:40 **Management of EV batteries in Thailand and in the Region**
Prof. Weerakorn Ongsakul, Department of Energy, Engineering & Climate, Asian Institute of Technology
- 13:50 **Energy Absolute – Leading the EV Battery Development in Thailand**
Dr. Akarin Suwannarat, Executive VP – Special Projects, Energy Absolute
- 14:00 **Developing Strategic Partnerships to Recover Valuable EV Battery Metals**
Mr. Tero Holländer, Head of Business Line Batteries, Fortum Waste Solutions
- 14:10 **Leading the Technology Developments in EV Battery Recycling**
Ms. Liisa Haavanlammi, Director – Battery Chemicals, Metso Outotec Corporation
- 14:20 **Panel Discussion and Q&A**
- 15:00 **End of Discussion**



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Thai-Finnish Circular Economy Webinar

EP III: EV Battery Recycling

During the last 30-years **Thailand** has been one of the top 12 car manufacturing countries in the world, and she is aiming to be one of the **world's hub for Electric Vehicles manufacturing** as well. More than 10 international car manufacturers have started or are planning to start EV and hybrid vehicle assemblies in Thailand, and also some of the **world's largest EV battery factories are under construction here.**

Another 5-10 years from now, we can expect hundreds of thousands of '**end of life' Li-Ion batteries** to be in our hands. **How we can handle this hazardous waste stream?** How to recover these valuable and hard to get Lithium, Cobalt, Nickel metals?

Finland has had a mandate to develop EU level strategies for EV vehicle batteries recycling and management. **Fortum Waste Solutions** have been one of the leading companies in developing **battery recycling plants**, and is looking for **strategic partnerships** for future developments. **Metso-Outotec Group is a frontrunner** in end-to-end solutions for the aggregates, minerals processing, **metal refining and recycling industries globally.**

Likewise, **Energy Absolute** is leading the development in Thailand **is building one of the world's largest Li-Ion battery factory** at Chachoengsao. This is one of the several EV battery or energy storage projects in Thailand, so recovering and recycling valuable metals from the end of live batteries will be essential.

This Webinar with the leading experts from **Thailand and Finland** aims 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? Come Join us in afternoon session of **Tuesday, 14 December 2021 !!**



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