

EIGHTH INTERNATIONAL FORUM ON ENERGY FOR SUSTAINABLE DEVELOPMENT

MODERNIZING THE ENERGY INDUSTRY Track III



09:00-10:30 and 11:00-12:30 hrs, 14 June 2017



Track III

Workshop

waste matters

United Nations Economic Commission for Europe (UNECE) International Atomic Energy Agency (IAEA)



THE CHALLENGE

9.7.BILLON

GLOBAL POPULATION BY 2050 70% WILL BE LIVING IN CITIES

1 million new inhabitants will be added to cities every week

Will require 3 planets like earth to satisfy resources required for current life styles







5,000 km

MSW 1.2 billion tonnes/yr 2.2 billion tonnes/yr 2025

USD 400 billion/yr





WTE 90% vol \\

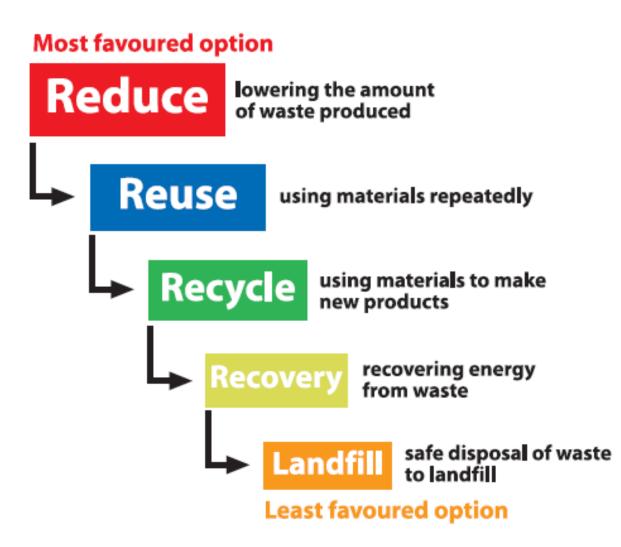
12 RESPONSIBLE CONSUMPTION AND PRODUCTION

12.5 By 2030, substantially reduce waste generation through prevention, reduction, recycling and reuse

UNECE PPP guidelines on WTE under development

Working group established in May Chaired by Mr. CHEN Xiaoping CEO, Everbright International

Waste management hierarchy





09:00-10:30 and 11:00-12:30 hrs, 14 June 2017

Workshop

Welcome Remarks

Mr. David MacDonald, Chair, UNECE Expert Group on Resource Classification Ms. Charlotte Griffiths, UNECE

 Workshop Objectives and Overview of UNFC as a Sustainable Management Tool for all Resources

Mr. David MacDonald, BP and Chair, UNECE Expert Group on Resource Classification

- The Role of Waste to Energy and Resources in a Circular Economy Society Prof. A. C. (Thanos) Bourtsalas, Earth Engineering Center, Columbia University
- Integrated Waste Water Treatment to Bio Energy and Organic Fertilizer Production Mr. Alan Lau, Anglo Euro Developers (S) Ltd
- Uranium and Other Valuable Material Recovery from Polymetallic Ores and Wastes Mr. Martin Fairclough, IAEA
- Waste to Energy and Social Acceptance
 Mr. SHAO Zheru, Everbright Environmental Protection Technology and Equipment (Changzhou) Ltd
- Possibilities of using waste water as an energy source
 Ms. Vera Mustafina, Association "Kazwaste" and Mr. Toktar Eskendirov, Association "Kazwaste"
- Managing Efficient Recovery of Materials and Energy from Wastes: UNFC Specifications and Guidelines

Mr. Hari Tulsidas, UNECE



09:10-09:30 hrs, 14 June 2017

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Workshop Objectives and Overview of UNFC as a Sustainable Management Tool for all Resources

Mr. David MacDonald,

BP and Chair, UNECE Expert Group on Resource Classification



09:30-09:50 hrs, 14 June 2017

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The Role of Waste to Energy and Resources in a Circular Economy Society

Prof. A. C. (Thanos) Bourtsalas, Earth Engineering Center, Columbia University



11:00-11:20 hrs, 14 June 2017

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Integrated Waste Water Treatment to Bio Energy and Organic Fertilizer Production

Mr. Alan Lau, Anglo Euro Developers (S) Ltd



10:10-10:30 hrs, 14 June 2017

Workshop

Track III

Open Discussion

- How are the waste hierarchy principles and SDG #12 relevant to the objective of waste generation?
- How can materials and energy that could be economically recovered from wastes be important for the sustainability of the planet?
- Are Waste to Energy (WTE) technologies and experiences important to meet the SDG #12 targets?
- What are the social acceptance and communications challenges in projects that recover energy and materials from wastes?
- How important are UNFC and its specifications for anthropogenic resources in meeting the challenges in achieving sustainable development?

09:00-10:30 and 11:00-12:30 hrs, 14 June 2017



United Nations Economic Commission for Europe (UNECE) International Atomic Energy Agency (IAEA)

Track III

Workshop



09:50-10:10 hrs, 14 June 2017

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Track III

Uranium and Other Valuable Material Recovery from Polymetallic Ores and Wastes

Mr. Martin Fairclough, IAEA



11:20-11:40 hrs, 14 June 2017

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Waste to Energy and Social Acceptance

Mr. SHAO Zheru, Everbright Environmental Protection Technology and Equipment (Changzhou) Ltd



11:40-11:50 hrs, 14 June 2017

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Possibilities for using waste water as an energy source

Ms. Vera Mustafina, Association "Kazwaste" Mr. Toktar Eskendirov, Association "Kazwaste"



11:50-12:10 hrs, 14 June 2017

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Managing Efficient Recovery of Materials and Energy from Wastes: UNFC Specifications and Guidelines

Mr. Hari Tulsidas, UNECE



12:10-12:30 hrs, 14 June 2017

Workshop

Track III

Open Discussion and Closing Remarks

- How are the waste hierarchy principles and SDG #12 relevant to the objective of waste generation?
- How can materials and energy that could be economically recovered from wastes be important for the sustainability of the planet?
- Are Waste to Energy (WTE) technologies and experiences important to meet the SDG #12 targets?
- What are the social acceptance and communications challenges in projects that recover energy and materials from wastes?
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