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ENERGY AND MATERIAL SECURITY IN EU COUNTRIES

INTERNATIONAL CONFERENCE

22. 9. 2022

RECENT SHOCKS FOR CIRCULAR ECONOMY

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DRAMATIC INCREASE IN ENERGY PRICES

(FAVORS LANDFILLS, HARMS WASTE RECYCLING AND CIRCULAR ECONOMY!!!)

RISING PRICES OF ESSENTIAL FUELS

(COAL, GAS, BIOMASS) – HARM BUYERS OF SECONDARY RAW MATERIALS
(E.G. PAPER MILLS, PLASTIC RECYCLERS)

HIGH FUEL PRICES

(CAN SUPPORT SECONDARY PLASTICS ON THE CONTRARY)

EXTREMELY HIGH PRICES FOR EMISSION ALLOWANCES IN THE EU (EU ETS)

SPECIFICS OF CEE REGION?

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- **MISSING INFRASTRUCTURE FOR "WASTE TO ENERGY" & "RDF TO ENERGY"** (LANDFILLING IS STILL DOMINANT TREATMENT FOR MSW)
- HIGHLY ADVANCED PRIMARY SORTING OF COMMUNAL WASTE, **WEAK CAPACITIES OF „AUTOMATED SORTING" AND „REAL RECYCLING"**.
- **RELATIVELY GREATER BUDGET CONSTRAINTS OF CITIZENS**
- **MISSING FUNDS FOR WASTE TO ENERGY DEVELOPMENT** (UNAVAILABLE SUBSIDIES, UNCERTAIN LEGISLATIVE PREREQUISITES)

Our biggest challenge should be now to stop wasting calorific value of residual waste on landfills!!!

CARBON FOOTPRINT

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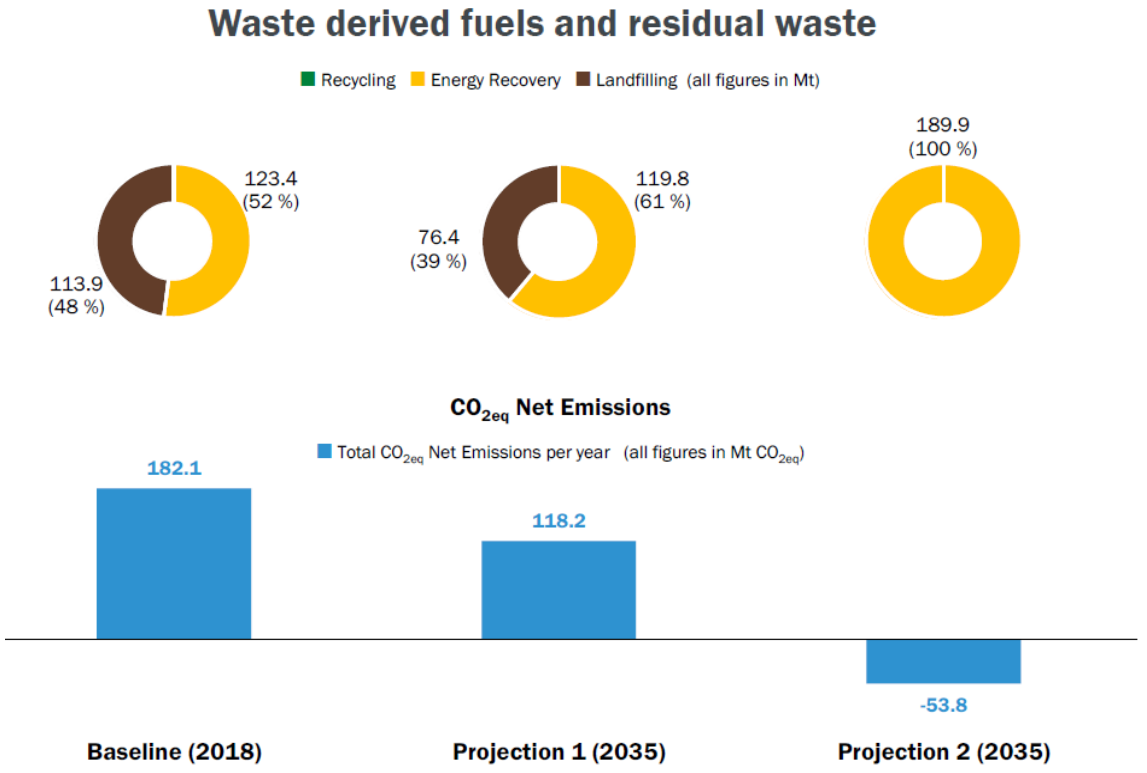
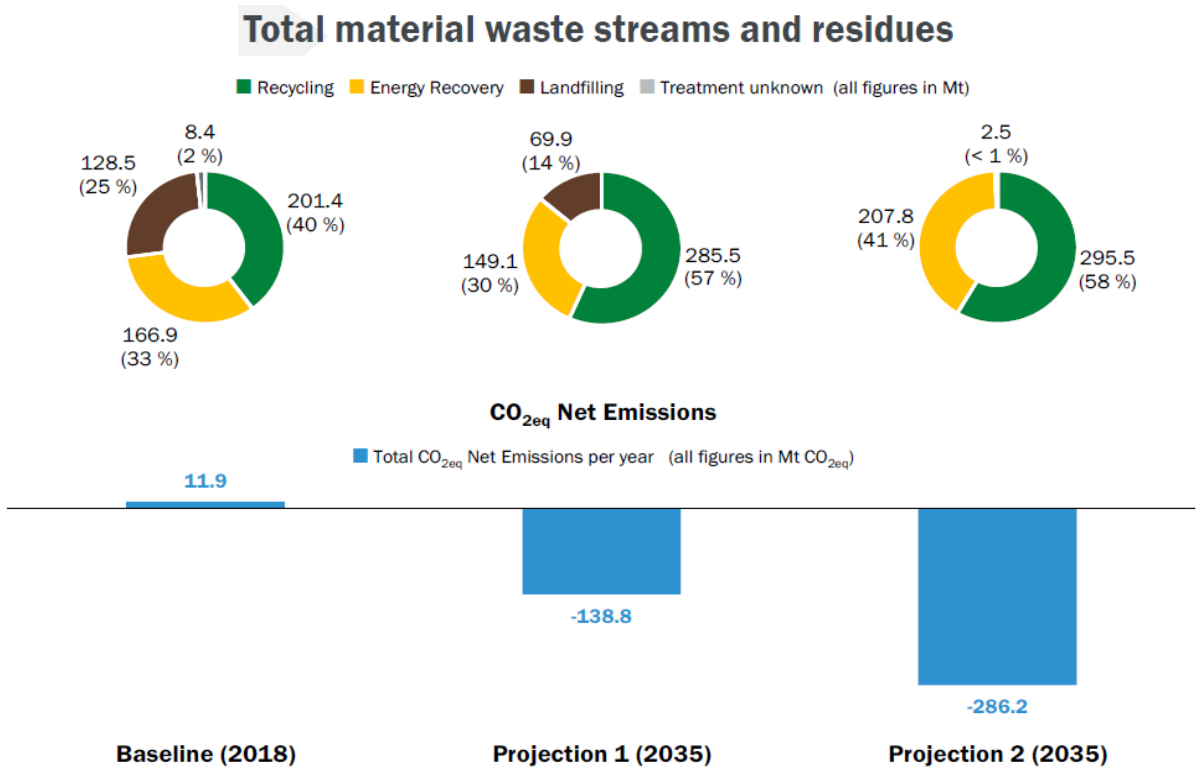
Why should CEE countries postpone involvement of EfW in EU ETS?





Resource „Resource savings and CO2 reduction potential in European waste management“, Prognos 2021

OUR MAIN TOPICS

for Circular Economy

- **WILL CIRCULAR ECONOMY GO ON** DEVELOPING IN CEE COUNTRIES UNDER CURRENT OBSTACLES?
- **HOW TO ADAPT EU POLICIES** TO THE NEW SITUATION (EU ETS FOR EFW, RECYCLING TARGETS, ETC.)
- **HOW TO TREAT CONFLICTING GOALS**? (CO2 EMISSIONS AND/OR HIERARCHY?)
- **WHAT IS REAL CARBON FOOTPRINT** OF PARTICULAR WASTE TREATMENT?
- **HOW CAN WASTE CONTRIBUTE** TO HIGHER ENERGY AND MATERIAL SECURITY?

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SOLUTOINS TO BE DISCUSSED

- residual waste to energy
- higher use of biogas from waste
- higher use of organics from biowaste and sludge in agriculture
- new technologies (chemical recycling, recycled carbon fuels)

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How EU waste management addresses the climate, energy and resources challenges

- **22 September 2022**

A presentation by Peter Kurth

President of the European Federation of Waste Management and Environmental Services (FEAD)

FEAD
European Waste Management Association

Introduction

What our industry does for Europe

- FEAD is the EU private waste management association.
- Local, innovative, sustainable jobs: up to 400 000 jobs in the waste management sector (European Commission)
- **5 Bn EUR/**year investments in collection and waste management facilities
- Secondary raw materials provided to the manufacturing sector, energy recovered from residual waste to produce heat and electricity
- A key role in climate protection through prevention of GHG emissions

20
National Waste Management federations

3.000
Private waste management companies

320.000
Employees In total

2.400
Recycling and Sorting centres

900
Controlled landfills

1.100
Composting sites

260
Waste-to-energy Plants

5 billion
Euros in Investments per year

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Introduction

FEAD as the voice of the waste management industry in Europe

- FEAD represents 19 national associations from EU member states
- 5 expert comittees with 3 subcommitees discussing the whole range of european topics of interest for the waste management industry to form a strong unified voice

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FEAD Participation in EU Green Deal consultations:

- Circular Economy Action Plan, Sustainable Investment and Taxonomy
- 2030 Climate Target Plan
- Carbon Border Adjustment Mechanism
- POPs & Batteries & Hazardous Waste
- Waste Shipments
- Packaging Waste
- Consumers and Green Transition & Green Claims
- Packaging Waste, Textile
- Methane Strategy & Sewage Sludge Directive
- Energy Taxation Directive, Renewable Energy Directove
- Industrial Emissions Directive
- Renovation Wave & Construction Products, Constuction Products,
- & Resource Efficiency Directive

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What Circular Economy means to us in the EU Green Deal

- Strengthen recycling markets with an ambitious **product policy**, introduce **mandatory recycled content** rules on certain products
- Examine **recycling targets** on industrial and commercial waste
- Develop binding rules on **eco-design** and **eco-labelling**
- Build a balanced policy for **chemicals**
- **EU waste exports rules** to ensure exports of quality recyclates/waste for recycling and recovery while ensuring environmental protection.
- Recognise the role the **waste management** sector plays in climate mitigation, in securising **material resources** thanks to **recycling,** and playing a major role **in the energy transition /energy security by recovering energy from residual waste**
- Need for a strong signal to divert recyclable waste from landfill
- Need for **positive Taxonomy** rules for energy recovery from

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The EU waste management decisive contribution to the climate challenge...

The potential for CO2 reduction thanks to waste management, shown on 9 mate streams (Paper, Glass, Plastics, Ferroustals, Aluminium, Wood, Textiles, Waste f Biowaste) + Residual waste (non-separately collected waste and rejects from waste treatment/Waste Derived Fuels) accounting in total 505 Mt in 2018 (~ total waste generated in EU27+UK), is
with a baseline of 13, 2 Mt in 2018, is
150 Mt CO2 reduction in 2035 if the current legislation is currently implemented
296 Mt reduction in 2035 with some even more ambitious recycling performance that can be recycled or
recovered for energy purposes is not allocated to landfills

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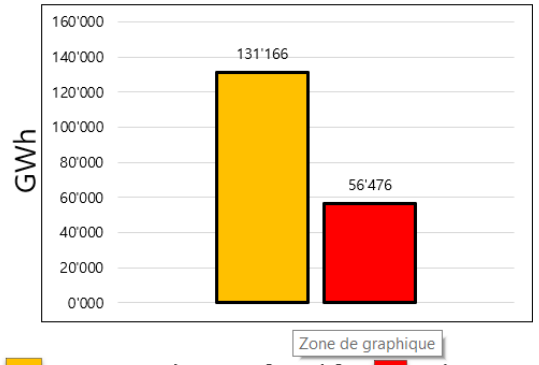
... the energy crisis,

If this residual waste would be safely treated in Waste-to-Energy plants:

Energy Production scenario



Heat production [GWh] Electricity production [GWh]

Supplying heat for 22 m people

Supplying power for almost 28 m people

CO_{2eq} Saving scenario

WtE could lead to a saving of **115'048'730** tonnes of CO_{2eq}

By diverting waste from landfills and substituting energy from fossil fuels

119% of the Belgian CO_{2eq} emissions from fossil fuel

A study by CEWEP, 2019 : Waste to Energy potential to suply heat for 22 M people and power for 28 M people in 2030

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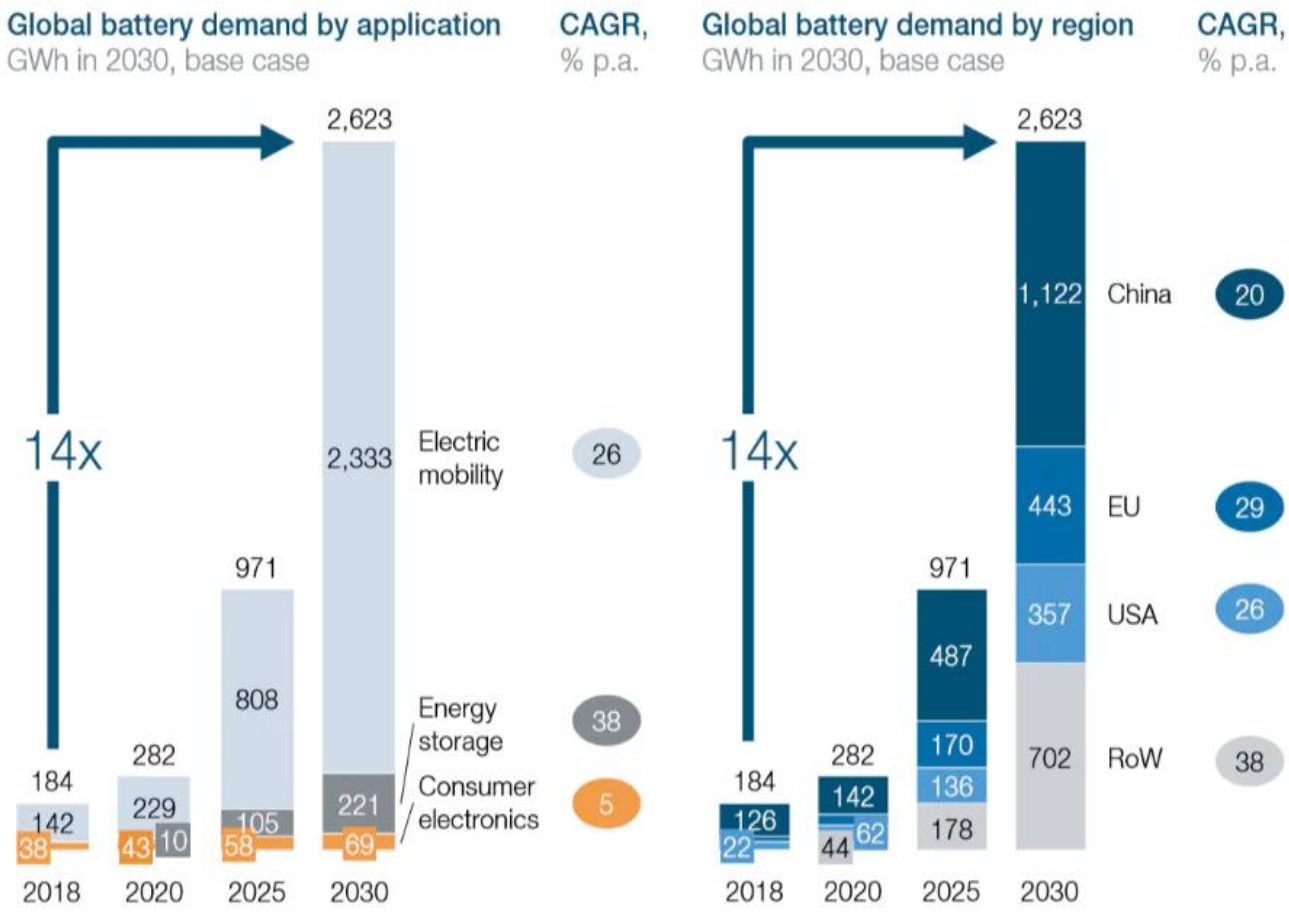
.... the supply of secondary raw materials

The way forward to more recycling: mandatory recycled contents



The global battery demand in Europe to increase 14x by **2030**

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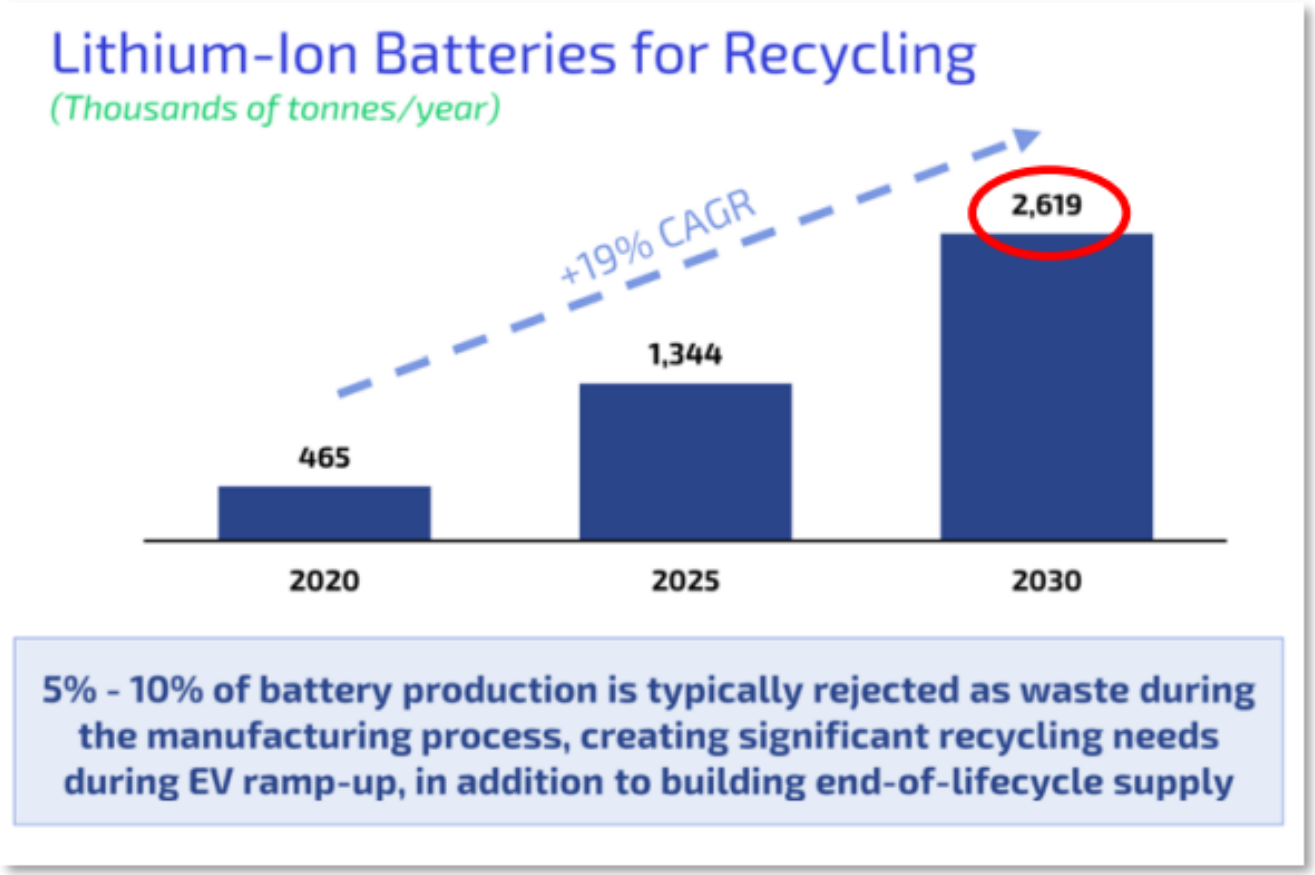
.... the supply of secondary raw materials



Lithium-Ion Batteries for Recycling worldwide in 2030: 2 619 000 t (Europe's share by 20 – 25%: 523 000 t)

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.... the supply of secondary raw materials

Name	Country	Operator	Battery type	Processable	Capacity
Redux Recycling GmbH	Germany	WEEE Ireland	Lithium Rechargeable	Yes	0 t
Umicore	Belgium	Bebat	Lithium Rechargeable	Yes	7000 t
ACCUREC Recycling GmbH	Germany	Stibat	Lithium Rechargeable	Yes	2500 t
Akkuser Oy	Finland	Recser	Lithium Rechargeable	Yes	1000 t
Euro Dieuze Industrie	France	Corepile	Lithium Rechargeable	Yes	2000 t
Nickelhütte	Germany	GRS Batterien	Lithium Rechargeable	Yes	1000 t
UTE VILOMARA	Spain	Ecopilas	Lithium Rechargeable	Yes	0 t
SNAM- St Quentin-Fallavier	France	ARN	Lithium Rechargeable	Yes	1500 t
SNAM- Viviez	France	ARN	Lithium Rechargeable	Yes	1500 t
Duesenfeld GmbH	Germany	ARN	Lithium Rechargeable	Yes	4380 t

Source: Eucobat 2021

Recycling capacity in the EU in 2020:
20 880 t

Lithium-Ion Batteries for Recycling in 2030:
500 000 t

→ Recycling capacity needs to be increased by 25x until 2030 to manage the flow of End-of-life batteries

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The way forward: very much needed EU regulatory tools

Mandatory recycled contents

Positive Taxonomy, under criteria, for energy recovery of residual waste

Open and competitive markets, safe and efficient waste shipment rules

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Thank you for your attention

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