

Circular Economy at the EBRD

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Energy Efficiency and Climate Change



European Bank
for Reconstruction and Development

What is the EBRD?



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Who we are

1991 established
to foster transition to
market economies

65 owner countries,
and the EU and the EIB

36 countries of
operations in Central
and Eastern Europe,
Central Asia and the
Southern and Eastern
Mediterranean

Our experience

€ 30 billion
capital base

€ 41 billion
portfolio

€ 9.2 billion
average annual
business volume in the
past three years

Key principles

Sound Banking

**Transition
Impact**

**Environmental
Sustainability**

Mainstreaming green financing EBRD cross-sectoral strategies



Green
Economy
Transition

Sustainable Resource
Initiative

Sustainable Energy
Initiative

Energy Efficiency
Banking Team

Green Economy Transition (GET) Results in 2006 – H1 2017



FINANCED

1,300+

Green projects

1,000+ directly
financed projects

290 through local FIs

SIGNED

€23 billion

of green financing

36%

of total business

REDUCED

85 million

tonnes of CO₂/year

200 mil m³/y

since 2013

Circular Economy



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What the EBRD is doing in the Circular Economy space



Finance

Projects supporting a circular economy and an annual review of EBRD investments with CE components



Policies

Contribution to the development of policies promoting CE in the EBRD countries of operations (e.g. Ecodesign directive in Ukraine)



Innovation

Development of Innovation Vouchers Scheme in Ukraine and Serbia



Partnerships

Development of a Material marketplace in Turkey, in cooperation with BCSD



Network

Member of the FinanCE group, a spin-off of the Ellen MacArthur Foundation, and an EU expert working group on Financing the CE

ASSESSED EBRD PROJECTS TO DETERMINE:

- Use of circular measures
- Potential for use of circular measures

DEFINED CIRCULAR AS:

- Operational activities which take advantage of existing energetic or material flows for additional utility or improve the material efficiency of products

EXCLUDED:

- Renewable energy
- Water input reduction measures not including water recycling

Review of Historic CE Performance (2/4)

368 investments **37** countries from **2014** to **2016**





Review of Historic CE Performance (3/4)



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CATEGORISE EACH PROJECT BASED ON:

- (1) Use or potential use of circular measures
- (2) Public or private
- (3) Industry sector
- (4) Geography



CE USE

22% or 80

EBRD green investments

Include a circular component

3/4

of EBRD CE projects

Implemented in the private sector

**Agribusiness, Manufacturing &
Services, & Municipal**

Sectors where most circular projects
have been implemented

CE USE & POTENTIAL

42% or 153

EBRD green investments

Could or do have a circular
component

2/3

of CE projects & potential

Are in the private sector

**Turkey and
Ukraine**

Countries where most circular
projects have been implemented

Case Studies



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Sisecam glass recycling



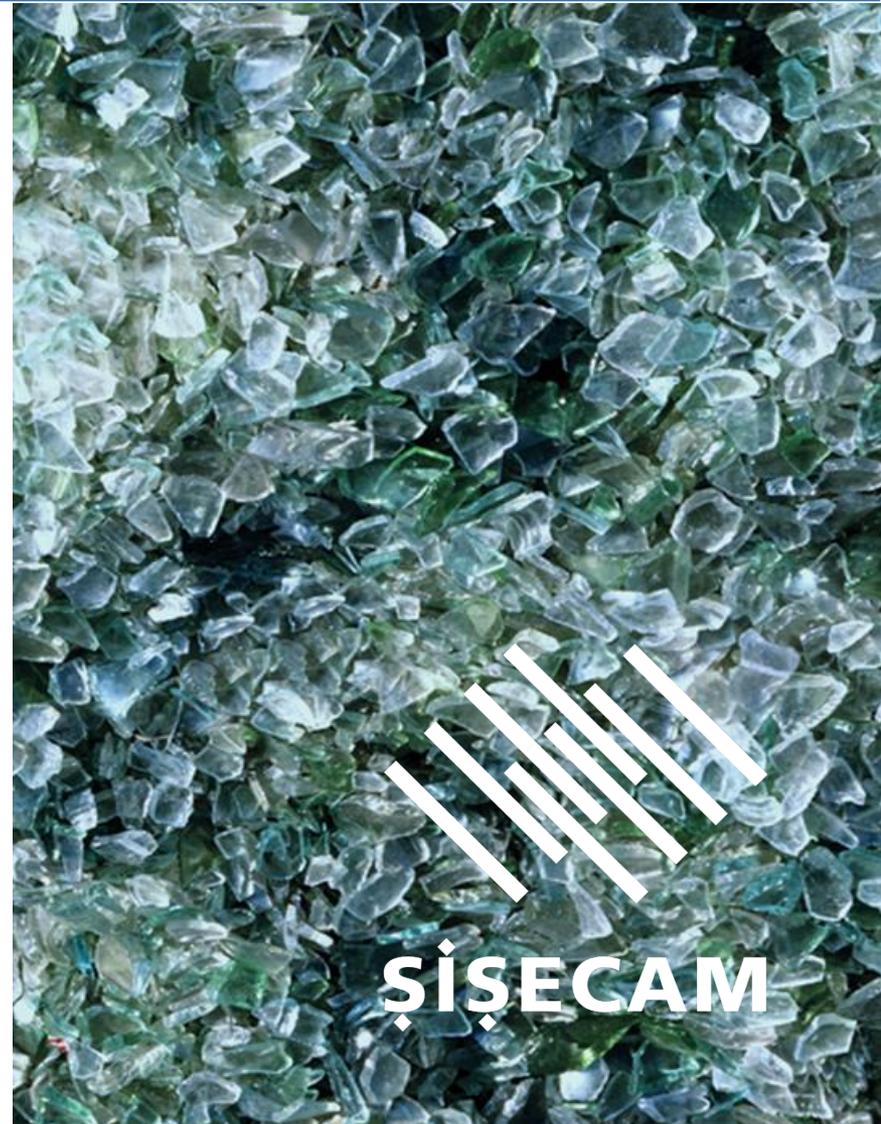
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EBRD Finance € 44 million

GHG Reduced >100,000
ton CO₂ eq / yr

Supported Turkey's largest glass producer to procure machinery and equipment for glass recycling and high-quality cullet production.

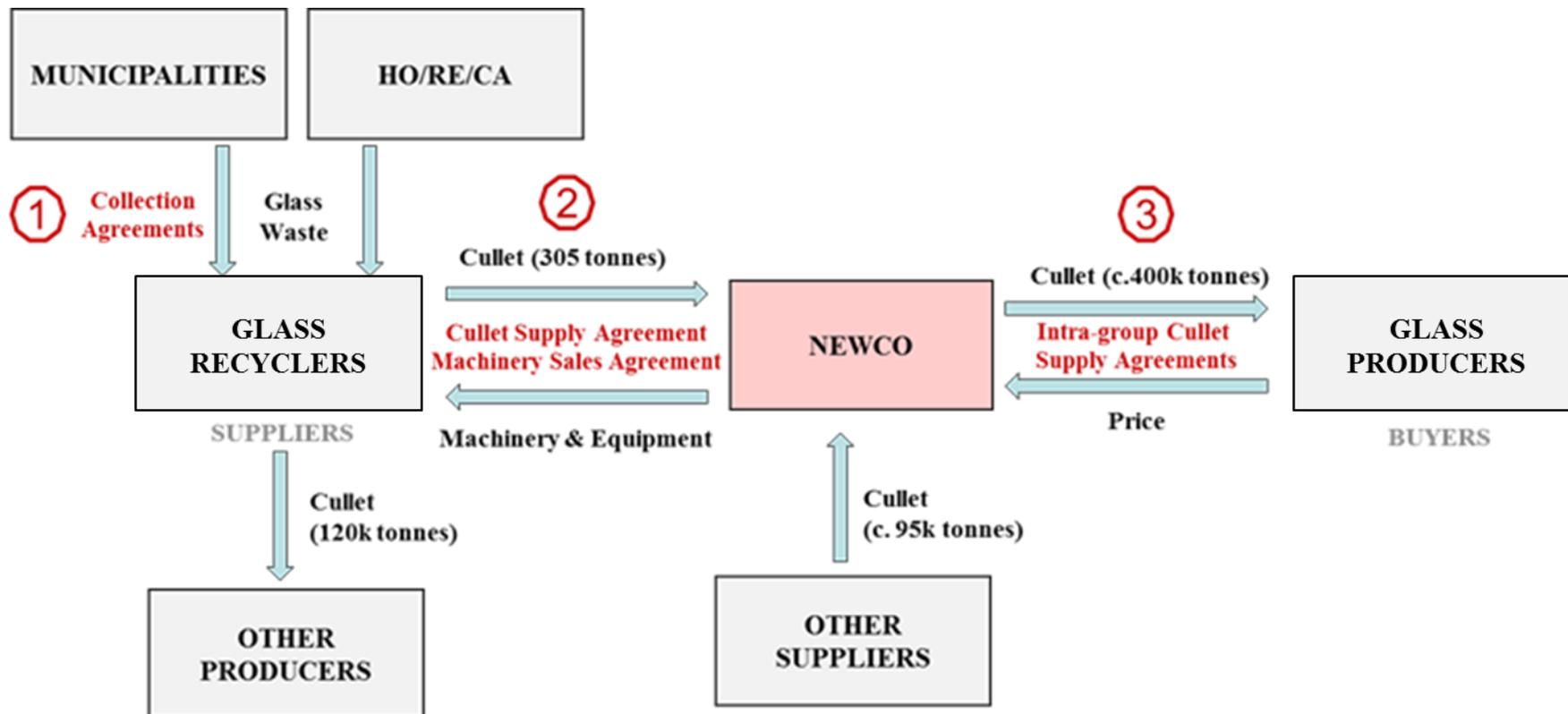
- Sublease state-of-the-art glass recycling to cullet producers to:
 - Increase recycling rates
 - Improve cullet quality



Sisecam glass recycling



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Low-Carbon Roadmap for the Egyptian Cement Industry



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Defining and implementing a low-carbon pathway for the sector including measures and investments that promote a circular economy.

Working with industry representatives to implement the roadmap's recommendations:

- significantly increase the use of alternative fuels
- promote the systematic reuse of industrial by-product
- institute adequate waste management legislation



Other initiatives



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The Near Zero Waste (NØW) Programme

General features



- EBRD strategic initiative in Turkey to promote waste minimisation and valorisation
- Funded by the EBRD and Clean Technology Fund (CTF)
- Technical assistance from the EU Instrument for Pre-accession Assistance 2013 (EU IPA 2013) funds



Financial Support



Technical Support



Policy Dialogue



Knowledge Dissemination

The Near Zero Waste (NØW) Programme

Turkish Materials Marketplace (1/4)



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<http://turkey.materialsmarketplace.org/>

Mainstreaming the concept of circular economy in Turkey through a Materials Marketplace:

Objective: facilitate cross-industry materials reuse among Turkish companies

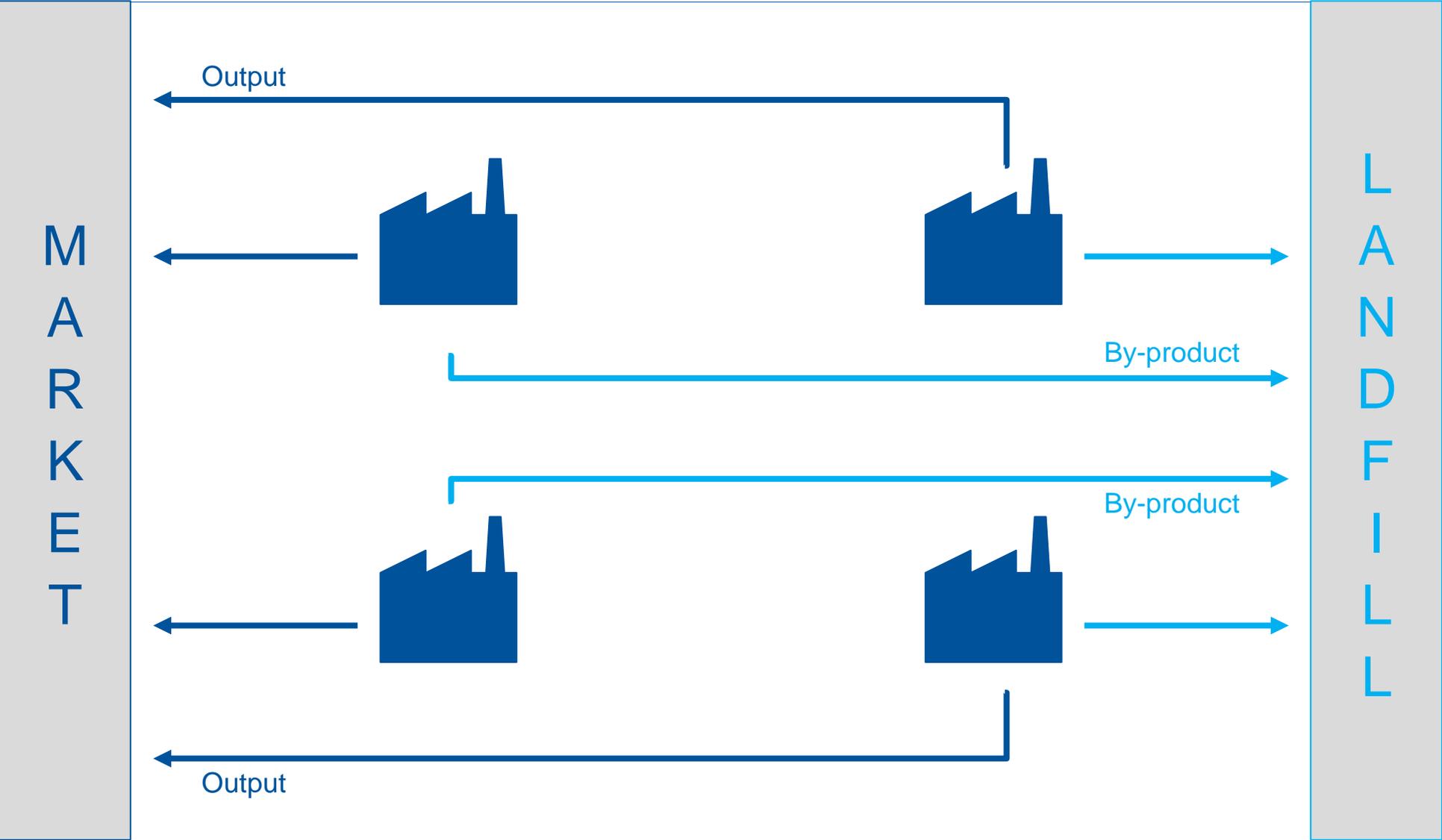
Commercially-based materials exchange platform

Create a collaborative business network

One company's waste and by-products become another's raw material

The Near Zero Waste (NØW) Programme

Turkish Materials Marketplace (2/4)

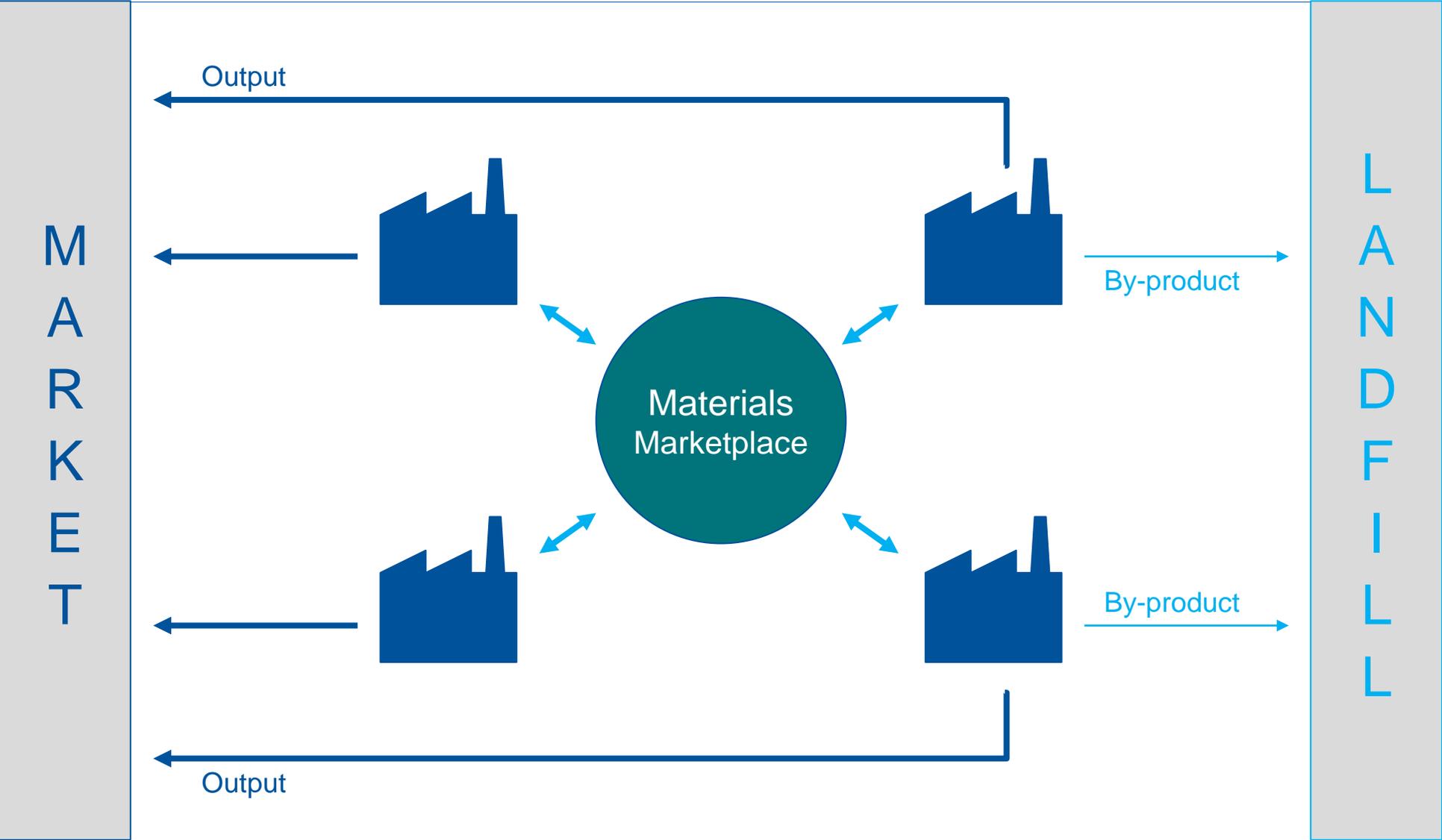


The Near Zero Waste (NØW) Programme

Turkish Materials Marketplace (3/4)



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The Near Zero Waste (NØW) Programme

Turkish Materials Marketplace (4/4)

Why initiate the Materials Marketplace in Turkey?

- Mature economy and business-enabling environment
- Transition to a circular economy and improving waste management are of strategic importance
- Accelerating harmonisation of Turkish waste legislation with the EU Directives
- Demonstration effect on other EBRD CoOs
- Project endorsed by the Ministry of Environment
- Launch study on end-of-waste criteria to help complete harmonisation of local waste regulation with that of the EU
- Link to new investments– R&D and innovation
- Bring in access to technical and legal support to help taking advantage of opportunities

Innovation vouchers scheme

Serbia and Ukraine

- An Innovation Voucher - a voucher provided to SMEs to co-fund development, testing, certification, deployment or other external services needed to improve competitiveness, market reach, or reduction in energy/GHG emissions of commercially available climate technologies that they are developing or utilizing
- Two schemes implemented, one in Ukraine and one in Serbia



- The ultimate objective is to promote the development of a R&D supply chain in the countries, and the access to resource efficient technologies.

THANK YOU

For more information:

<http://www.ebrd.com/what-we-do/get.html>

<http://turkey.materialsmarketplace.org/>



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