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INDUSTRIAL DEVELOPMENT ORGANIZATION



# The EIP concept, its benefits, and advantages; The results of the GEIPP I in Ukraine



Industrial clusters  
represent

c. **15-20%**

of global

**CO<sub>2</sub>**  
emissions

# What is an Eco-Industrial Park?

“An EIP can be defined as a **managed industrial area that promotes cross-industry and community collaboration for common benefits related to economic, social and environmental performance.**”

The EIP concept has evolved to address **interrelated aspects**, including, for example: resource efficient and cleaner production, industrial symbiosis, climate change, pollution, social standards, shared infrastructure, improved management of risks and shared resources, including land and ecosystem services. **An interdisciplinary approach** is required to optimally realise EIPs.”

*International Framework for Eco-industrial parks (UNIDO, IFC, GIZ)*



**In short, the EIP concept is about creating more resource-efficient and cost-effective industrial parks which are more competitive, attractive for investment and risk resilient.**

# Different terminologies are used internationally

## But all based on same principles and concept

Combinations of related EIP terminology used internationally		
Eco	Industrial	Park
Sustainable	Manufacturing	Zone
Low carbon	Investment	Area
Green	(Special) Economic	Cluster
Circular		Estate



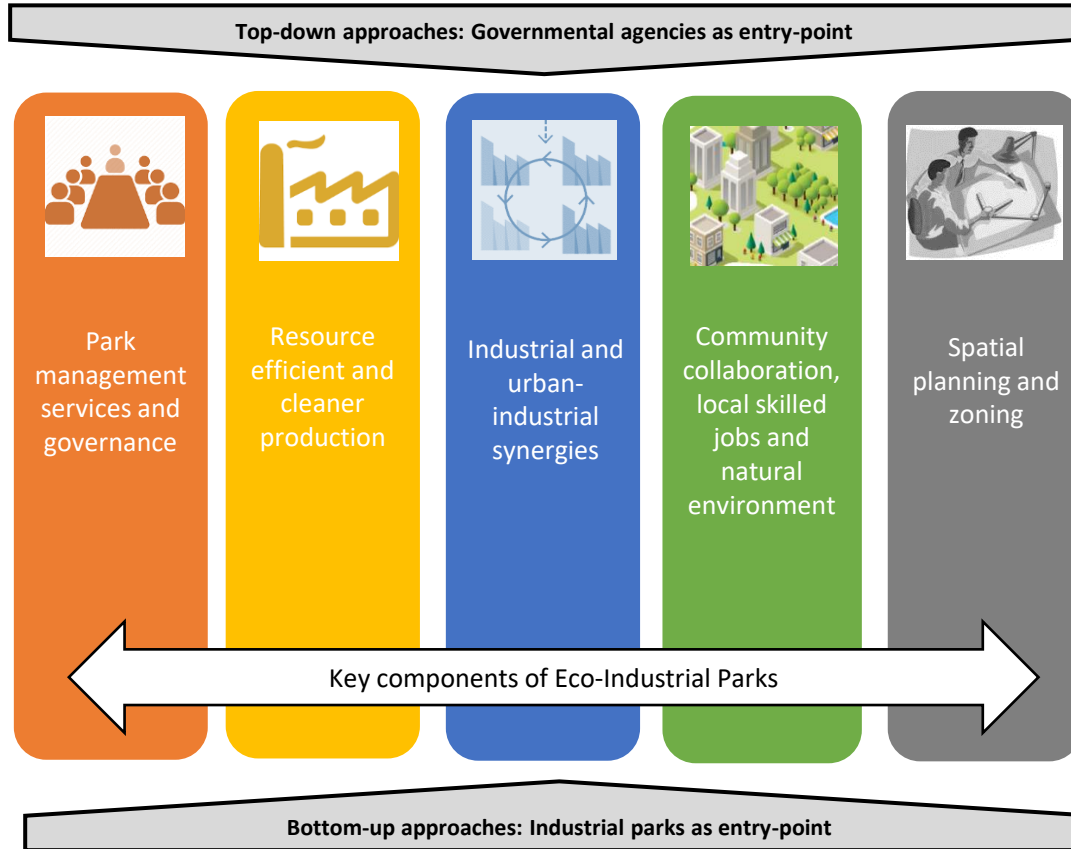
## Reduce:

- Procurement costs
- Environmental, economic and social risks
- Use of materials, water, energy
- Waste
- Greenhouse gases
- Pollutants

## Increase:

- Competitiveness and profitability
- Attract investment
- Security of resources
- Good-quality jobs
- Workers health and safety
- Access to technologies and finances
- Resilience and business continuity
- Quality of life for communities





## Development of new eco-industrial parks

- + Optimise design of park from start - “empty canvas”
- + Allow for strategic planning of parks across country
- Uncertainties about industry mix and needs
- Upfront investments



## Optimising existing industrial parks

- + Build upon existing industry initiatives
- + Certainty about industry mix and needs
- Retrofitting existing infrastructure
- Dealing with “historical legacies”





**EcoPlus' extended park management services to 17 industrial parks in Austria**

e.g. Investor service hub, industry network creation, research and innovation centres



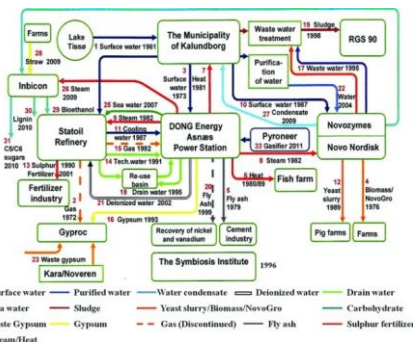
**Community development initiatives in the Kwinana Industrial Area, Australia**



**RECP assessments with companies in many countries since 1980-90s**



**EIP concept planning of Parque Industrial Malambo, Colombia**

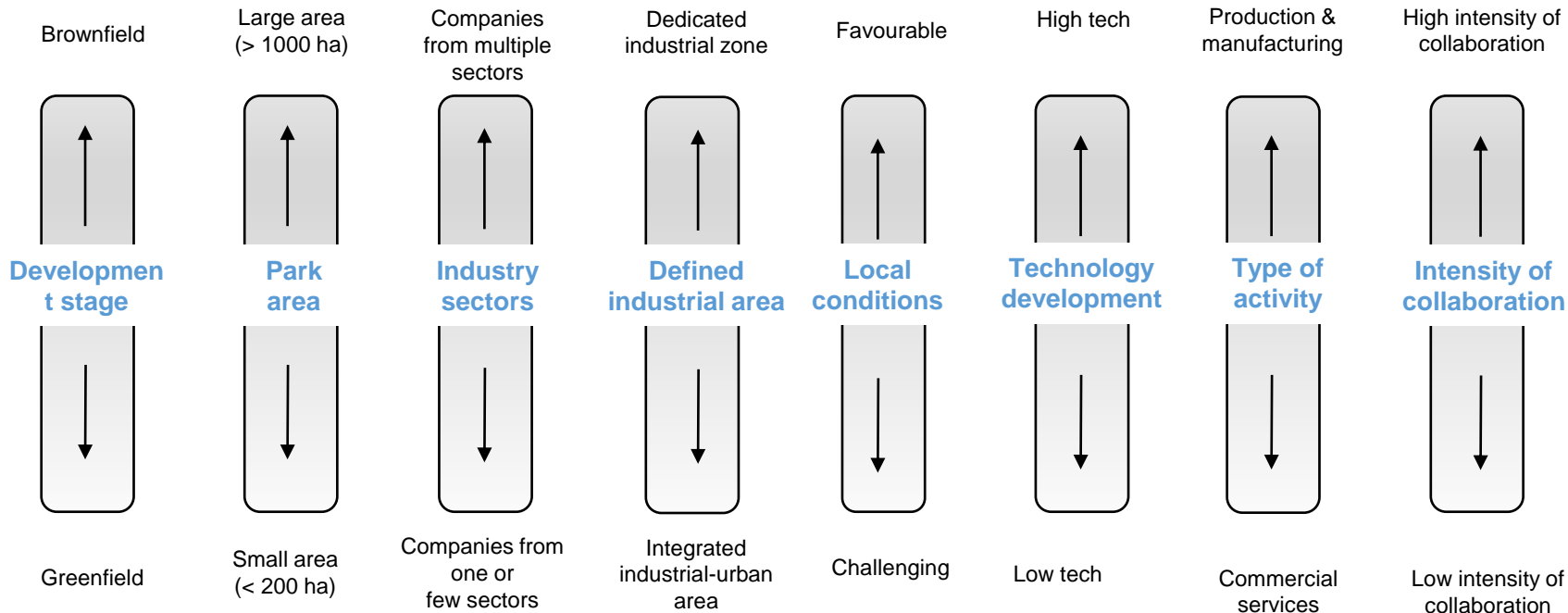


**Industrial synergies Kalundborg, Denmark**

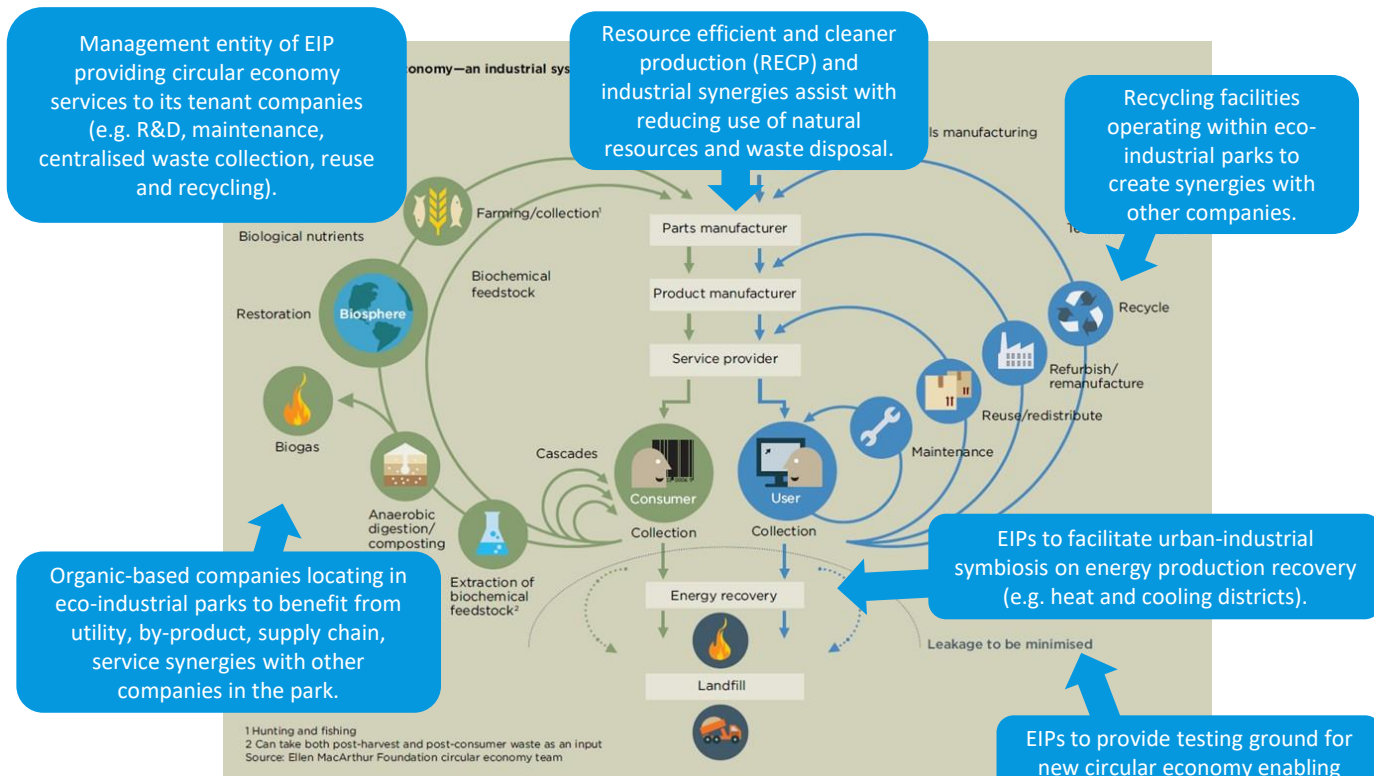


**Use of waste plastics by Clariter in the East London Industrial Development Zone (ELIDZ) to produce solvents, oils and waxes**

## Need for customised solutions to reap the benefits of eco-industrial parks



A circular economy is based on the principles of designing out waste and pollution, keeping products and materials in use, and regenerating natural systems.



Source: Expanded from <https://www.ellenmacarthurfoundation.org/circular-economy>

# Creating a common understanding and implementation methods

Why?

**WHY IS IT IMPORTANT TO WORK ON ECO-INDUSTRIAL PARKS?**

Eco-Industrial Parks: Creating Shared Prosperity  
and Safeguarding the Environment  
UNIDO (2016)



Where?

**WHERE DO WE STAND REGARDING INTERNATIONAL EIP PRACTICES?**

Global Assessment of Eco-Industrial Parks  
in Developing and Emerging Countries  
UNIDO (2016)



What?

**WHAT DO WE MEAN BY ECO-INDUSTRIAL PARKS?**

An International Framework for Eco-Industrial Parks  
UNIDO, WBG, GIZ (2017)



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How?

**HOW DO WE IMPLEMENT ECO-INDUSTRIAL PARKS?**

Implementation Handbook and Toolbox for Eco-Industrial Parks  
UNIDO (2017, 2018)

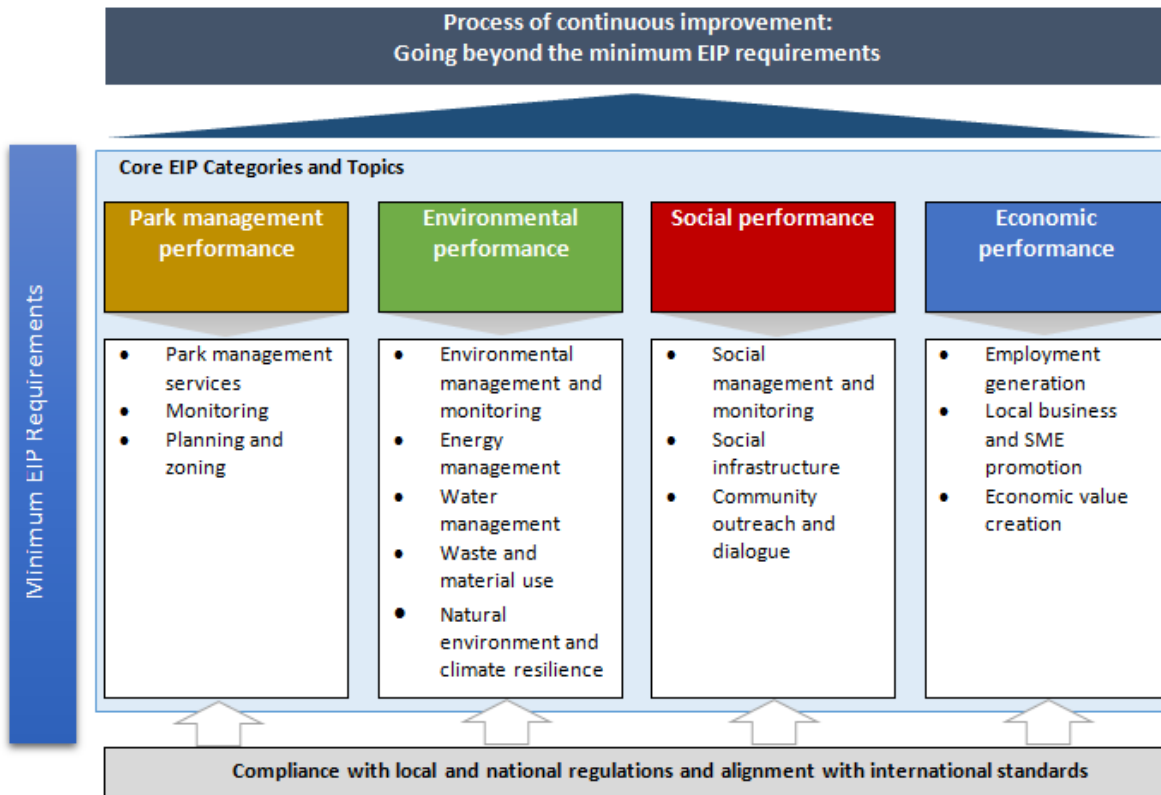
Practitioner's Handbook for Eco-Industrial Parks –  
Implementing the International Framework  
UNIDO, WBG, GIZ (2018)



**giz**

Deutsche Gesellschaft  
für Internationale  
Zusammenarbeit (GIZ) GmbH





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**giz** Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

UNIDO, World Bank Group, GIZ. An International Framework for Eco-Industrial Parks

<https://openknowledge.worldbank.org/handle/10986/35110>



# International Framework for Eco-Industrial Parks Objectives

- Create **common understanding** of Eco-Industrial Parks
- **Identify improvement opportunities**, optimise existing industrial parks
- **Monitor and assess operational performance** of existing industrial parks
- Inform **investment decisions, funding** and due diligence studies
- Gain recognition and build **market profile**
- Serve as a practical framework to **support decision making**



## Planning tools Park level

### EIP Concept Planning Tool

Assist in sustainable design of an industrial park

### Master Plan EIP Review Tool

Guide sustainability review of existing Master Plan

## Implementation support tools Park level

### EIP Assessment Tool

Assess park against International EIP Framework and identify EIP opportunities

### EIP Management Services Tool

Strengthen and advance services provided by park management to tenant companies

### Access to Finance Tool

Identify, review and access available financing options for feasible EIP initiatives

### Industrial Symbiosis Identification Tool

Support the identification of waste exchanges between companies

## Implementation support tools Country level

### EIP Selection Tool

Select parks with high potential for EIP development and successful EIP projects

### EIP Policy Support Tool

Support EIP policy development and implementation processes

## Monitoring tools Park level

### RECP Monitoring Tool

Monitor and report results of RECP assessments in industrial parks

### EIP Opportunities Monitoring Tool

monitor and report impacts from EIP opportunities in industrial parks

UNIDO's EIP Toolbox is available online:

<https://hub.unido.org/eco-industrial-parks-tools>



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UKRAINE

**GEIPP**

GLOBAL ECO-INDUSTRIAL PARKS PROGRAMME



Schweizerische Eidgenossenschaft  
Confédération suisse  
Confederazione Svizzera  
Confederaziun svizra

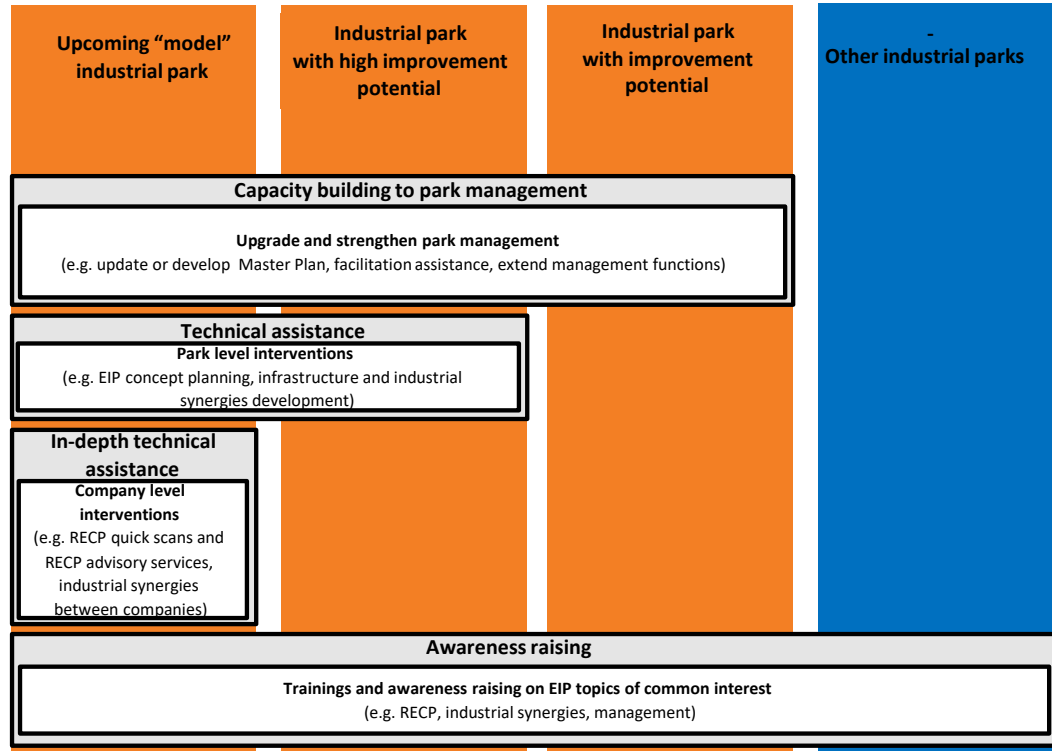
Swiss Confederation

Federal Department of Economic Affairs,  
Education and Research EAER  
State Secretariat for Economic Affairs SECO



The results of the GEIPP I in Ukraine

# The implementation strategy for the Ukraine GEIPP project.



# Map of the areas where the project has activities

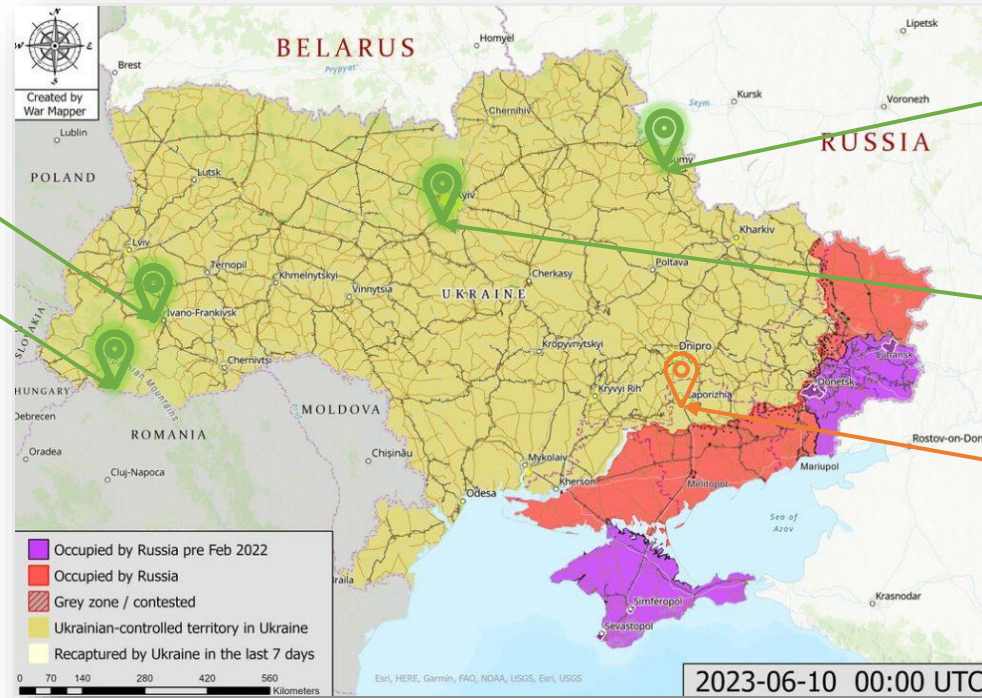
IP Kalush  
Selected in  
December 2022

IP Molfar  
Selected in  
December 2022

IP Patriot  
Selected in 2019

IP BVAK  
Selected in 2019

IP Agromash  
Selected in 2019  
Cooperation on hold  
since 2022



## Key achievements in EIP implementation

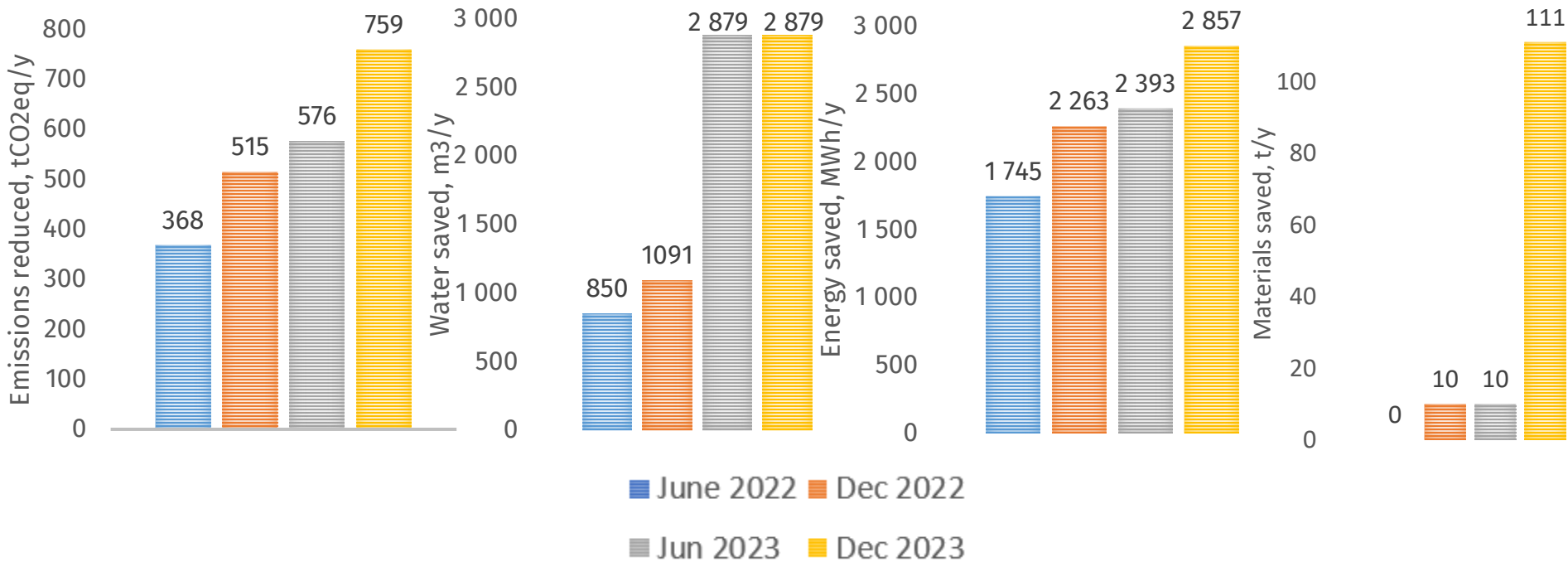
Overall EIP score			
Industrial Park	Baseline performance (2019)	Intended performance	Achieved performance so far (2023)
IP BVAK	32%	98%	66%
IP Patriot	32%	59%	41%
IP Agromash	27%	54%	30%

Overall EIP score			
Industrial Park	Baseline performance (2022)	Intended performance	Achieved performance so far (2023)
IP Molfar	20%	92%	21%
IP Kalush Industrial HUB	21%	94%	21%

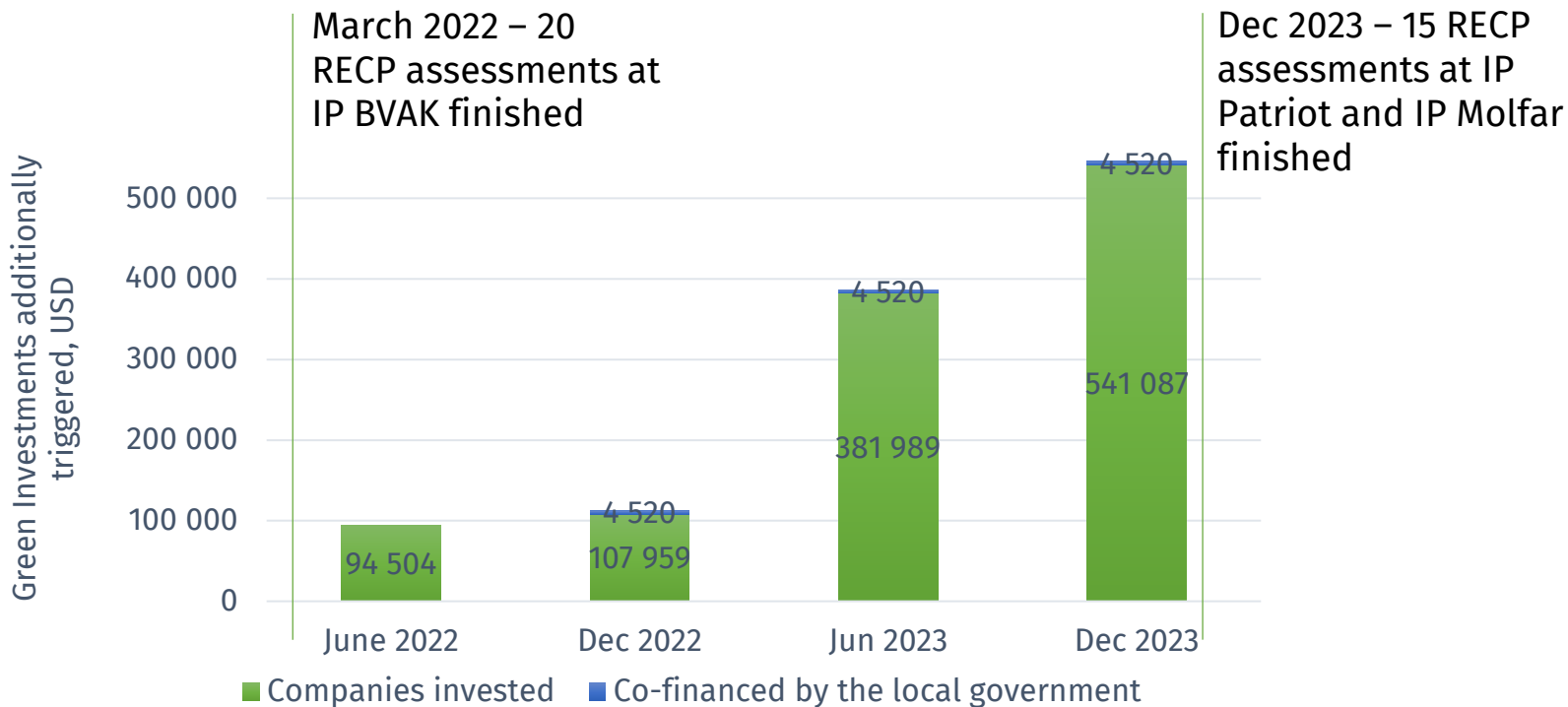
The following EIP pre-requisites are implemented by the management companies of the parks:

- Energy management system implementation at the tenant companies
- EIP monitoring system
- Risk management plan
- Circular economy is part of the obligations in the Code of conduct of the park
- Constant satisfactory monitoring
- Monitoring of the waste management

# Main trends in resource efficiency



# Direct investments





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**Thank you!**

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