

# Kunststoff Recycling Grünstadt GmbH

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**Yes we do! Every Day for the Future!**

Grünstadt, März 2022



Kunststoff Recycling  
Grünstadt GmbH





# Agenda

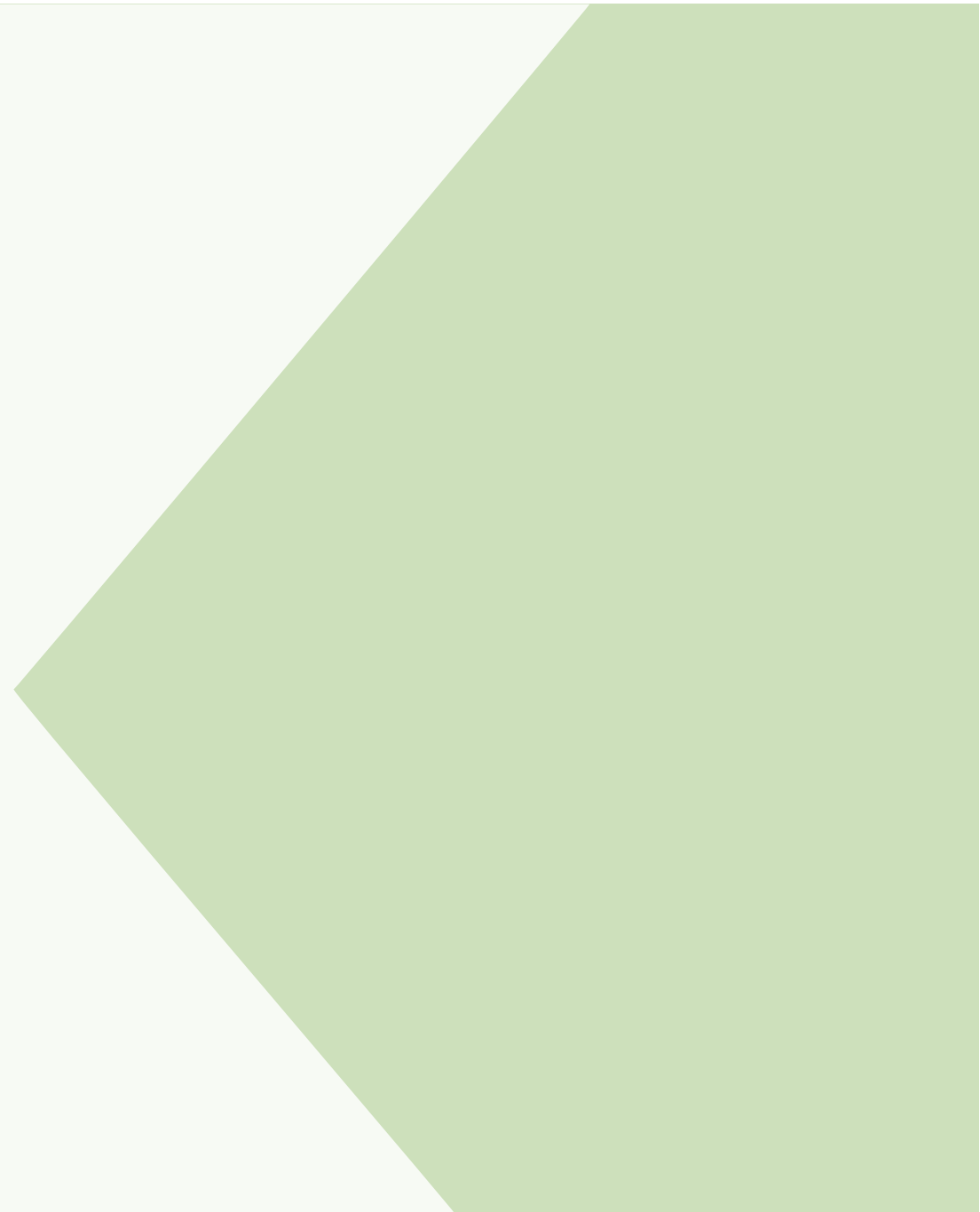
1. Successful joint venture  
Our shareholders - strong players, great synergy
2. Kunststoff Recycling Grünstadt  
The company
3. RecyPrime  
Our high-quality granulates



# 01

## Successful Joint Venture

Our shareholders –  
strong players, great synergy.



# Kunststoff Recycling Grünstadt

## Our shareholder structure



50%

50%

**Kunststoff Recycling**  
Grünstadt GmbH





# Meinhardt Städtereinigung GmbH

Family business in 2nd generation



Sorting



Recycling



Disposal



Services

**1964** founded

**300 Millionen** Euro Turnover

**13** Locations

**950** Employees

**22** Shareholdings



# Meinhardt Städtereinigung GmbH

## Our locations - regional strength



- Meinhardt Städtereinigung GmbH & Co. KG
- Meinhardt Rückbau GmbH
- RVE Reiner Verwertung und Entsorgung GmbH
- Containerservice Frankfurt GmbH
- B+M Recycling GmbH
- Greiner GmbH

- ESO Offenbacher Dienstleistungs GmbH
- KKM Wertstoff-sortiergesellschaft mbH
- Urbanminers GmbH
- Meinhardt Städtereinigung GmbH & Co. KG
- Holzcontor Bischofsheim GmbH

- Meinhardt Städtereinigung GmbH & Co. KG
- MAMMUT Deutschland GmbH & Co. KG
- EMDE APEV Altpapier-Erfassung und -Verwertung GmbH
- bioLog GmbH
- SAVAG Südheissische Abfall-Verwertungs GmbH
- DRZ Darmstädter Recycling Zentrum GmbH
- Meinhardt Städtereinigung GmbH & Co. KG
- SUEDE Umwelt- und Entsorgungsdienste Südheissische GmbH
- awaTech GmbH
- MEILO Gesellschaft zur Rückgewinnung sortierter Werkstoffe mbH & Co. KG
- WENTURO Entsorgungs GmbH
- Kunststoff Recycling Grünstadt GmbH



# Schwarz Gruppe

From production to recycling



Production



Retail



Environmental Services

**125,3 Mrd.** Euro Turnover

**über 12.900** Branches

**500.000** Employees

**33** Countries

Alle Zahlen: Geschäftsjahr 2020



# PreZero – Together for a clean tomorrow

## We rethink the circular economy

**Unique in the trade -  
Unique within a group of companies**

**With PreZero, the Schwarz Group is the first group of companies in the retail sector with the clear goal of closing loops.**

In ihren Sortieranlagen sortiert PreZero jedes Jahr  
**465.000 t** Leichtverpackungen in Europa.

PreZero already recycles 205,000 t of recyclates in Europe and the USA.





# Business Unit Polymers

## State-of-the-art recycling sites



Haimburg, Austria

capacity: 55.000 t/year



Fonte, Italy

capacity: 40.000 t/year



Grünstadt, Germany

capacity: 54.800 t/year \*



PreZero is one of the leading recyclers of post-consumer plastic waste in Europe.

# 230.000 tons

Plastic can be recycled every year at our sites in Europe and the USA.



California

capacity: 40.000 t/year



South Carolina

capacity: 40.000 t/year

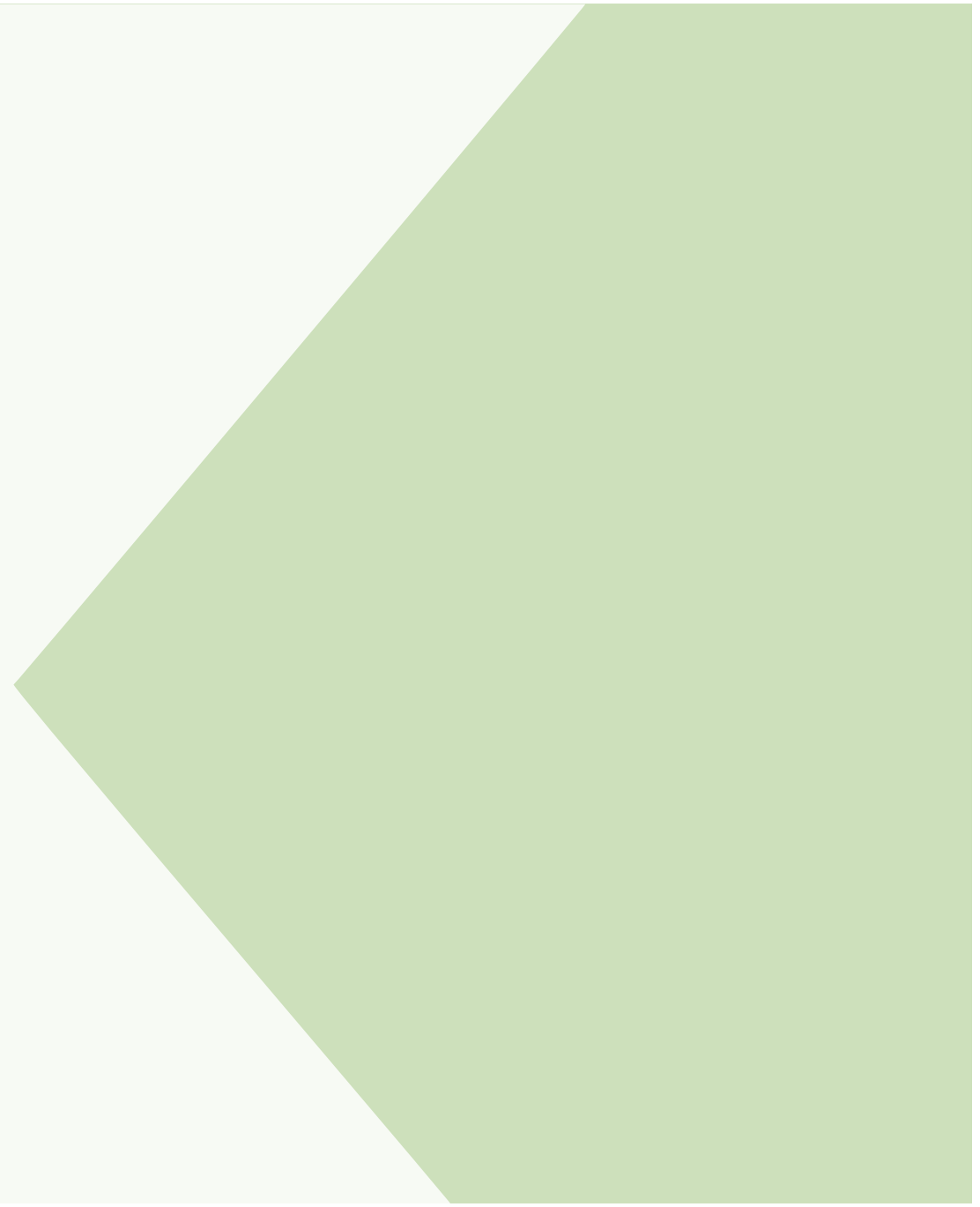


\* Produktionskapazität ab 2022

02

# Kunststoff Recycling Grünstadt

The company



# Our market environment

Dynamic, fragmented & fast growing





# Kunststoff Recycling Grünstadt

## The Company

Over 30 years of experience in recycling

- Experts in plastics processing
- Turnover 2020: 5.9 million EUR
- Employees: 48 (60 by Q1/ 2022)

Fully integrated site with

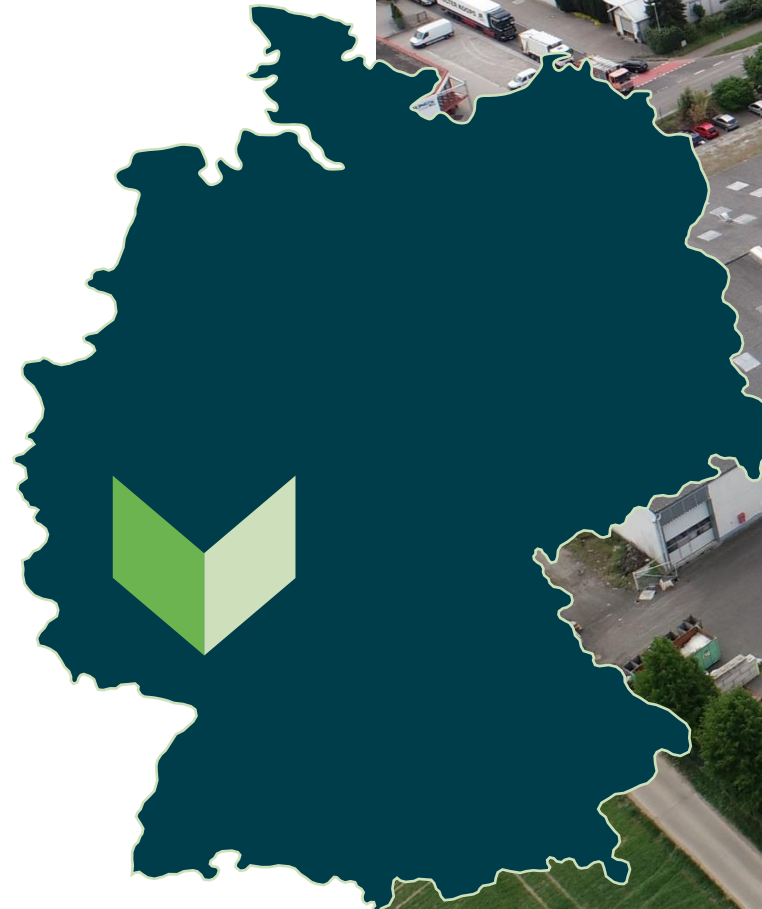
- Production halls
- Indoor and outdoor storage
- Laboratory
- Office and administration buildings
- Vehicle fleet

**Total area:** 32.000 m<sup>2</sup>

**Hall area:** 15.000 m<sup>2</sup>

Production capacity: 54.800 t / Jahr

- Dry grinding: 16.800 t
- Regranulation: 38.000 t





# Kunststoff Recycling Grünstadt

Our business units

**Kunststoff Recycling**  
Grünstadt GmbH



## Trading

Through our pan-European trading in bales, regrinds and regranulates, we act as an important link between players in the recycling industry.

## Dry Grinding

From a wide variety of plastics from industry, trade and commerce, we produce high-quality regrinds and customized compounds.

## RecyPrime

Using state-of-the-art processing technology, we produce regranulates in virgin material quality for packaging manufacturers and other plastics processors - this is how we close loops.





# Dry Grinding

## Production of regrind

**Processing capacity: 16,800 t / year**

### Setup

- 2 Shredders
- 5 Mills
- 1 Screening plants

### Our main focus is on the following materials:

- Standard plastics Focus: HDPE, PP, PS
- Engineering plastics Focus: PA, ABS
- No PVC



Sorting

Pre-Shredding

Metal separation

Mill

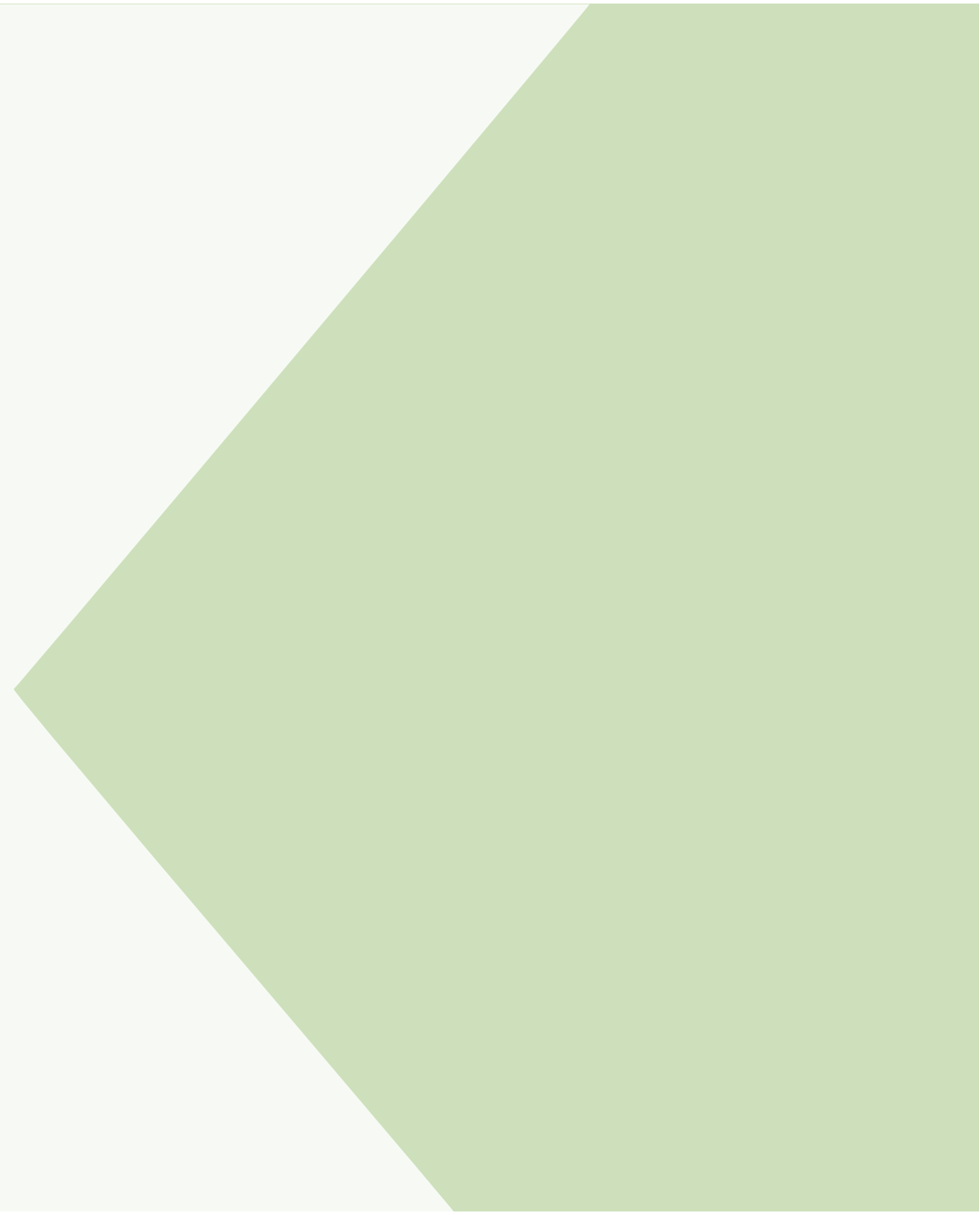
Grinding material



# 03

## RecyPrime

Our high quality granules.



# KRG RecyPrime

State-of-the-art technology for high-quality granules



1. Input material

2. Sorting

3. Washing

4. Extrusion

5. Product



# RecyPrime Value Chain

## 1. Input Material

Up to 38,000 t of plastics are processed into high-quality regranulate at the Grünstadt site.

- Target fraction: High Density Polyethylene (HDPE).
- Input materials:
  - pre-sorted fractions of European sorting plants
  - Mixed fractions (e.g. HDPE/ PS, etc.)





# RecyPrime Value Chain

## 2. Sorting

Good sorting is the basis for any further use of the material streams.

- Separation of plastics by grades and color.
- 800m conveyor belts
- State-of-the-art sorters (NIR, VIS, LOD, GAIN)
- Up to 97% purity of sorted output





# RecyPrime Value Chain

## 3. Washing

### Hot washing plant with two separate washing lines

Each washing line has the following components:

- Wet mills
- Friction washer
- Pre-washers
- Hot scrubber
- Floating-sink basin
- Post-wash
- Mechanical dryer
- Thermal post-drying
- Air sifting

### Re-sorting of the washed regrinds

- With flake sorter by grade and color





# RecyPrime Value Chain

## 4. Extrusion

### Two extrusion lines for the production of high-quality granules

Each line has the following components:

- Single screw extrusion line
- PCU (odor neutralization)
- Bagging station for big bags

Connection to a modern silo system

- Mixing silos
- Direct truck loading



# RecyPrime Value Chain

## 5. Products



**RecyPrime natural  
coloured**  
HDPE natural colour



**RecyPrime white**  
HDPE white



**RecyPrime coloured**  
HDPE coloured



**RecyPrime black**  
HDPE black





# RecyPrime product portfolio

## Our contribution to sustainability



1. our incoming goods



**RecyPrime natural coloured**  
HDPE natural coloured

**RecyPrime white**  
HDPE white

**RecyPrime coloured**  
HDPE coloured

**RecyPrime black**  
HDPE black

2. our granules



3. Products from our customers



# Quality management

## Our certificates



BImSchG Genehmigung (2021)



Entsorgungsfachbetrieb (2020)



Letztempfängeranlage (2021)



DIN EN ISO 14067:2018 (2021)



**2022**

DIN EN ISO 9001:2015



DIN EN ISO 14001:2015



DIN EN ISO 50001:2018





# Thank you!

**We are looking forward to your call.**

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Grünstadt GmbH



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