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# COMPANY PROFILE

# AGENDA

# ABOUT: ECONEST

Founded in 2022, Econest aspires to become the first Bottle-2-Bottle recycler in Jordan, setting ambitious standards for environmental sustainability and resource utilization. With a steadfast commitment to quality and innovation, Econest is poised to revolutionize the recycling process, converting post-consumer bottles into high-quality, food-grade rPET resin. Our upcoming operations in Al Mwaqqar, Amman, will be powered by cutting-edge European technology, ensuring efficiency and excellence in every step of the recycling journey. Econest is not merely a recycling solution in progress; it's a commitment to building a greener, cleaner world, one bottle at a time.

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# ABOUT:
# OUR FACTORY

**FACTORY CAPACITY**

**45,000**
Input Capacity

**LOCATION**

Al Mwaqqar,
Amman, Jordan

**QUALITY**

Delivering top notch quality bottle-2-bottle

**TECHNOLOGY**

Utilizing top-notch EU tech: **TOMRA** sorting, **Starlinger** pelletizing

# ABOUT:
# OUR NUMBERS

**+15 M€** INVESTMENT

**+3000** INDIRECT JOBS

**+100** DIRECT JOBS

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# OUR PURPOSE: REDEFINING RECYCLING

## MISSION

PIONEERING ECO-FRIENDLY SOLUTIONS, REVOLUTIONIZING RECYCLING FOR A GREENER, SUSTAINABLE FUTURE.

## VISION

ENVISION A CIRCULAR ECONOMY, SETTING NEW STANDARDS FOR RECYCLING EXCELLENCE, DRIVING ENVIRONMENTAL PRESERVATION.

# OUR PROCESS: WASHING LINE

## STEP 1

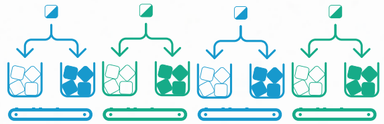
### BALES BREAKING & MECHANICAL SORTING

Involves breaking down compacted bales of materials and utilizing mechanical sorting methods to segregate recyclable components.

## STEP 2

### AUTOMATIC SORTING

Utilizes automated systems to further sort and separate materials based on predetermined criteria, enhancing efficiency and accuracy.



## STEP 3

### GRINDING & WASHING WITH STEAM

Involves grinding materials into smaller particles and subjecting them to steam washing for thorough cleaning and preparation.

## STEP 4

### FLAKES SORTING

Focuses on the meticulous sorting of processed materials into flakes, refining the recyclable components for subsequent stages in the recycling process.

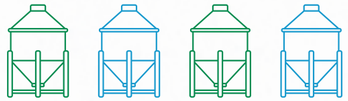
Technology Partners

# OUR PROCESS: UPGRADING LINE

## STEP 1

### MIXING SILO

Involves the blending or mixing of materials to achieve a homogeneous composition, crucial for subsequent processing stages.



## STEP 2

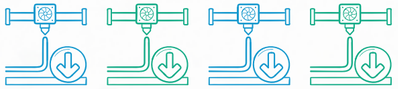
### DRYING

A process that eliminates moisture content from materials, enhancing their suitability for further processing and preventing degradation.

## STEP 3

### EXTRUDER WITH DEGASSING & DOUBLE PISTON BACKFLUSH

Utilizes an extrusion process with degassing capabilities and a double piston backflush system to refine materials, remove impurities, and ensure optimal quality.



## STEP 4

### SOLID STATE POLYCONDENSATION

A method that involves the conversion of materials from an amorphous state to a solid-state, enhancing their mechanical and thermal properties for improved performance in final products.

Technological Partner

Starlinger RECYCLING TECHNOLOGY

Certificates & Compliance

FDA U.S. FOOD & DRUG ADMINISTRATION

efsa

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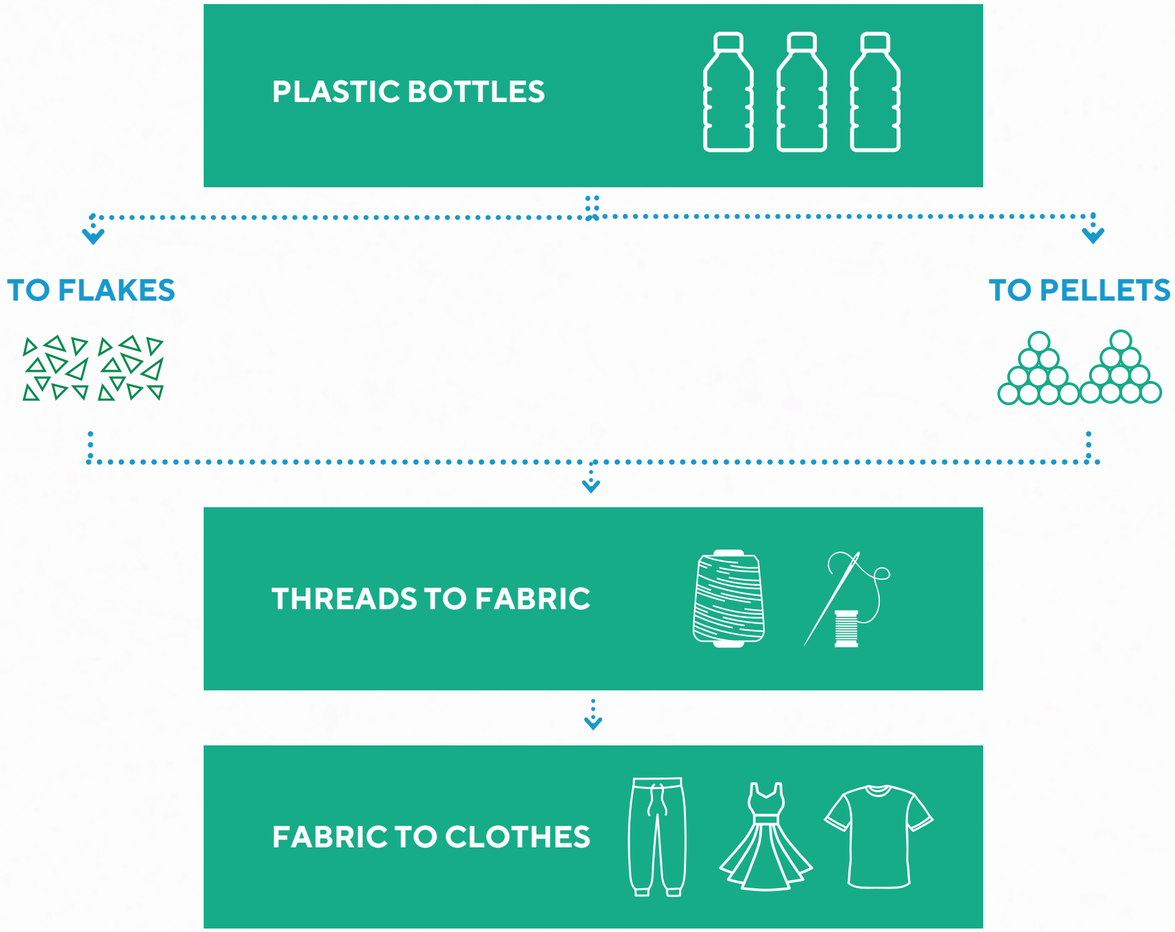
# OUR PRODUCTS

Bottle-2-Bottle rPET Flakes
Non-Food Grade rPET Pellets

Used In:
PET Fiber
PET Strapping

## PLASTIC TO FABRIC

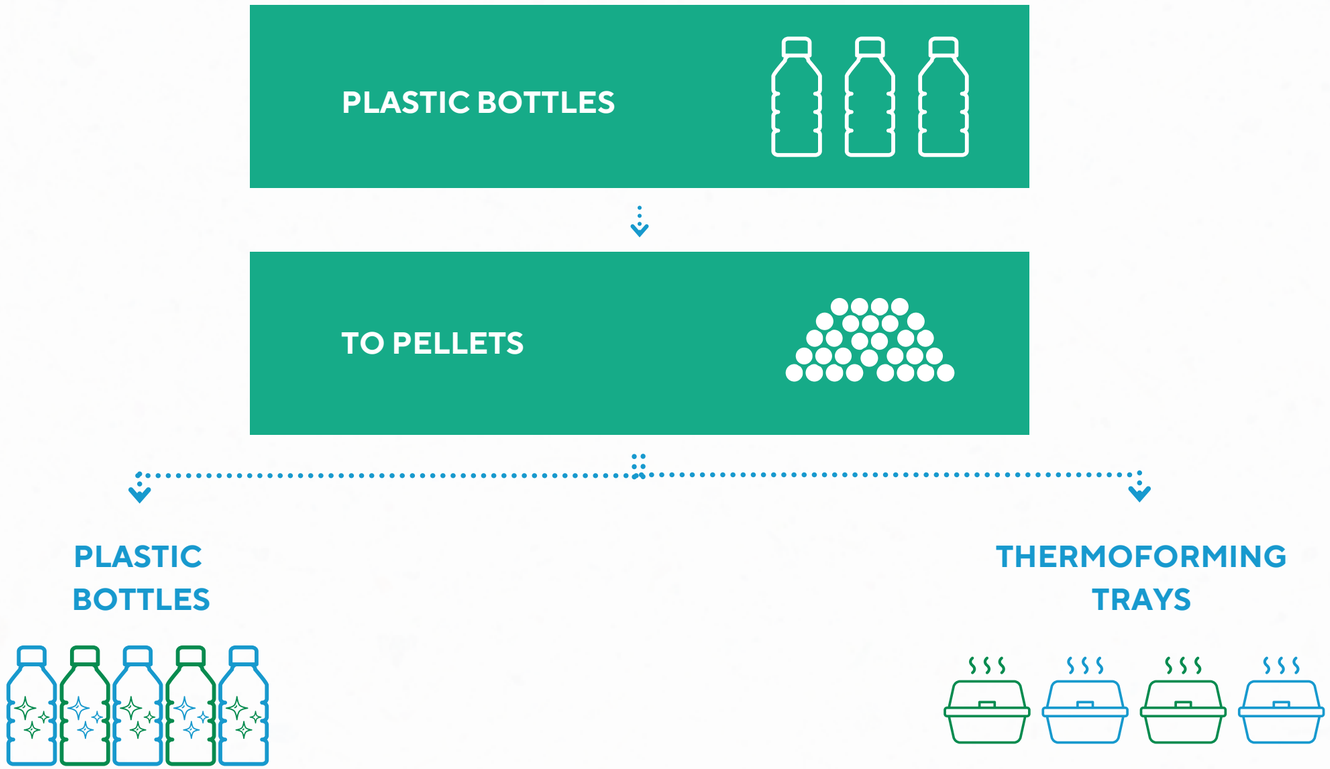


# OUR PRODUCTS

Food Grade rPET
Pellets

Used In:
PET Bottles
PET Thermoforming
Trays

# PLASTIC TO FOOD GRADE PACKAGING



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# QUALITY LABORATORY

Partners with

METTLER TOLEDO Agilent Dynisco AIMPLAS PLASTICS TECHNOLOGY CENTRE

## WET LABORATORY

- Testing washing  water quality
- Testing caustic soda concentration

## DRY laboratory

**PET Pellets & Flakes Mechanical Properties**

- Color
- Intrinsic viscosity
- Moisture content
- Size
- DSC
- FTIR

## FOOD CONTACT laboratory

- Testing AA and benzene with GC-MS/GC-FID
- Testing residual Terephthalic acid
- Overall migration
- Specific migration compound listed in EU 10/2011

# QUALITY MANAGEMENT COMPLIANCE

- ISO 9001 - Quality Management Systems
- ISO 14001 - Environmental Management Systems
- ISO 17025 - Testing and calibration laboratories
- ISO 22000 - Food Safety Management
- ISO 45000 - Occupational Health & Safety

TO BE OBTAINED
Q3 2024

# FOOD GRADE & PRODUCTION LINE COMPLIANCE

FDA U.S. FOOD & DRUG ADMINISTRATION

efsa

BRC FOOD CERTIFICATED

TO BE OBTAINED
Q1 2025

# SOCIAL & TRACEABILITY COMPLIANCE

Global Recycled Standard

RecyClass

Sedex

TO BE OBTAINED
Q1 2025

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# QUALITY ASSURANCE


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## AUG. 2022

STARTED RAW MATERIAL COLLECTION


## NOV. 2022

STARTED CONSTRUCTION


## MAR. 2024

STARTED OPERATION

# PRESERVING OUR OCEANS

TRANSFORMING PLASTIC BOTTLES THROUGH RECYCLING

eco nest

# CHAMPIONING GLOBAL GOALS: OUR IMPACT JOURNEY

Econest successfully achieves several Sustainable Development Goals (SDGs) through its operations


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$CO_2$ $CO_2$ $CO_2$

**2.2** TONS OF CO2 PER TON

ARE PRODUCED IN TACKLING CLIMATE CHANGE BY MANUFACTURING VPET.

**16-18** OIL BARRELS SAVINGS

TACKLING CLIMATE CHANGE BY PRODUCING RPET IT PRODUCES 0.33 TON CO2 PER TON

**85%**
**Saving**

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# LOCAL COLLECTION PROJECTS

NGO Partners

Collection Hotels Partners

## COMPREHENSIVE EDUCATION & COLLABORATIVE PET BOTTLE COLLECTION

- Conducted extensive awareness sessions and training at schools and universities. Facilitated direct PET bottle collection from educational institutions and partnered with local scavengers for efficient sourcing.

## ENHANCED PET BOTTLE COLLECTION & RECYCLING ADVOCACY

- Implemented strategies to boost PET bottle collection rates while emphasizing recycling's crucial role in Municipal Solid Waste (MSW) management.

## EMPOWERING PET BOTTLE COLLECTION INITIATIVES

- Collaborated with charity organizations for PET bottle collections in exchange for supplies. Conducted training sessions and hosted championships to encourage and enhance PET bottle collection efforts.



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# ECONEST'S SCHOOL PLASTIC BOTTLE COLLECTION INITIATIVE

**+1** TONS
BOTTLES COLLECTED

**+100** KIDS
EDUCATED ON RECYCLING

**+30** SCHOOLS
COLLECTING BOTTLES FOR ECONEST

**+50K** TOTAL
BOTTLES COLLECTED

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