PROTECT OUR ENVIRONMENT

TUPACK 2020 Corporate Sustainability Report

Reporting Period 01.01.2019 – 31.12.2019

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Projects & Partners

OFI

HTP Cyclos

Ellen Mac Arthur Founda-tion

APR/PTI recycla-bility

Terra Steward-ship

SCS global services

MORE Recycling

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Sustainability

- Study about an installation of a 1000kWp photovoltaic unit at Mareto plant.
- Study the investment of a wind mill
- > 80% of energy is generated by sustainable sources
- Electricity is 100% green (water, wind, solar and biomass)
- We work with transport companies acting for CO2 reduction – Euro 6 norm trucks
- Target 2025: carbon neutral production at Mareto plant (Zero emission) → milestone project

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Sustainability

We take our responsibility to future generations seriously. This drives us to continually optimize our products to ensure they are as sustainable as possible. We achieve this by:

- Using recycled materials PCR and PIR for our tubes and closures
- Reducing the amount of plastic used to produce our tubes and closures, e.g., thinner tube walls (eco design).
- Facilitating recycling by ensuring that the tubes and closure materials are standardized so that each part is only made of one type of plastic, if possible.
- Using bio-based plastics
- Focusing on the achievement of UN Sustainable Development Goals.

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Sustainability

A key element of our corporate policy is our drive to produce our products in the most resource-efficient and environmentally friendly ways possible. This is why we are involved in global environmental initiatives such as CDP, EcoVadis and the Ellen MacArthur New Plastics Economy campaign.

When designing our production facilities at Tupack, we focus heavily on minimizing energy consumption and reducing our environmental impact without limiting what is technically possible.

- We capture cold air from the environment during the winter season for our cooling and ventilation systems. We also use evaporative cooling systems in the summer and harness waste heat when generating compressed air for cooling and heating purposes.

- Waste heat that is generated through catalytic afterburning to eliminate pollutants on the production lines is recovered to heat our drying ovens.

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Our Sustainability Journey

2008

Participation in Carbon Disclosure Project

Increase scoring in 2019:

Climate B
Water B

2012

Participation in EcoVadis

Silver award since 2015.

2019

Membership in Ellen MacArthur Foundation

Goal by 2025 is to reduce the weight by ~20%.

2019

Sustainability Project with Terra Stewardship.

Sustainability Assessment by an external company.

2020

Planned project with SCS global services.

Project:

Zero emission plant Mareto.

ICC certification

today

Sustainability Vision

Increase

- The weight reduction of products
- The usage of PCR material
- The percentage of mono material products
- CDP scoring
- EcoVadis points
- The use of UV varnish
- ICC certification

Reduction actions

- Reduce the use of virgin material
- Less waste during production
- Decrease the use of energy
- Trim down the CO_2 emission
- Shrink the water consumption

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Product Sustainability

Aligned with the Ellen MacArthur New Plastics Economy Global Commitment for 2025, Tupack is actively working to:

- Elimination of problematic or unnecessary plastic packaging
- Moving from single-use to reuse models
- 100% reusable, recyclable or compostable by design
- Reuse, recycling or composting in practice
- Decoupling from the consumption of finite resources
- Transparency

NEW PLASTICS ECONOMY Global Commitment

Tupack has been using since 2008 recycled materials. Furthermore we have been working on a sustainable product solution across all our type of articles.

All our products are already up to 100% recyclable. We design and produce products having always our people and our planet in mind.

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Innovative production roots

- Chemical recycling
- Biobased materials
- Compostable material → running project
- Mono material PE & PP
- Weight reduction
- PCR use
- Replace POM, SAN & PS

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Innovations

Overall possible material savings (weight reduction)

predicted for 2030 ~2.400 t/a (~17%)

- Based on our proposed actions on sleeve – head – cap
  for all diameters on best-case-study

- ~92 trucks/a → ~105t CO_2 reduction
  equals - 5% of annual CO_2 emission

- If virgin material is replaced by 50% PCR, Tupack can reduce the use of virgin material by 5.000 t/a (in addition to the safe of virgin material due to the weight reduction).

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Progress on Post-Consumer Recycling Resin

The International Standards Organization defines post-consumer material as “waste material generated by end-users of the product, which can no longer be used for its intended purpose.” Post-consumer recycled (PCR) resin is the recycled product of this waste that can no longer be used and would otherwise end up at a landfill. Tupack has been using convenient PCR sources since 2008 and participates in the Ellen MacArthur Foundation, EcoVadis and CDP as well.

In our Sustainability presentation we put a spotlight on our progress with sustainable materials and our use of PCR within our products. During the last 10 years, we could expand our PCR sources and qualify new material mixes. Our main focus is placed on a mix of virgin HDPE with rHDPE and virgin PP with rPP. So Tupack has continued to replace virgin resin by additional PCR use. We will continue our research and will worked very close with our material suppliers to ensure a sustainable network.

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Progress on Post-Consumer Recycling Resin

Although, thousands of tons of recycled plastic would be available on the market, these quantities are not available for us as those do not meet the legislative and customer requirements especially for direct bulk contact. Tupack is searching for recycling partners who can offer high quality PCR in the desired quantities.

Our goal is to produce the product out of 100% recycled resins by 2030 the latest.

Technically it is possible and Tupack looks forward to handle this task in the upcoming years, because if someone can master this challenge then it is Tupack.

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Partnership for Circular Economy

Collaboration is integral achieving a more circular economy. To support our aspiration of a circular packaging industry with repeatable and positive effects on people, planet and product, a strong partnership is essential.

In an effort to support our work towards a circular economy, Tupack has joined New Plastics Economy Global Commitment, through the Ellen MacArthur Foundation. Working with this group will help us to connect with peer companies and other organizations to form a collective approach to work towards circular economy.

While Tupack has a specific interest in a circular system for plastics within the packaging industry, we are interested to learn about and support broader circular initiatives. We look forward to working with these organizations, and others, to tackle sustainability challenges, innovate our products to be designed for circularity and advocate for changes to plastics manufacturing and recycling.

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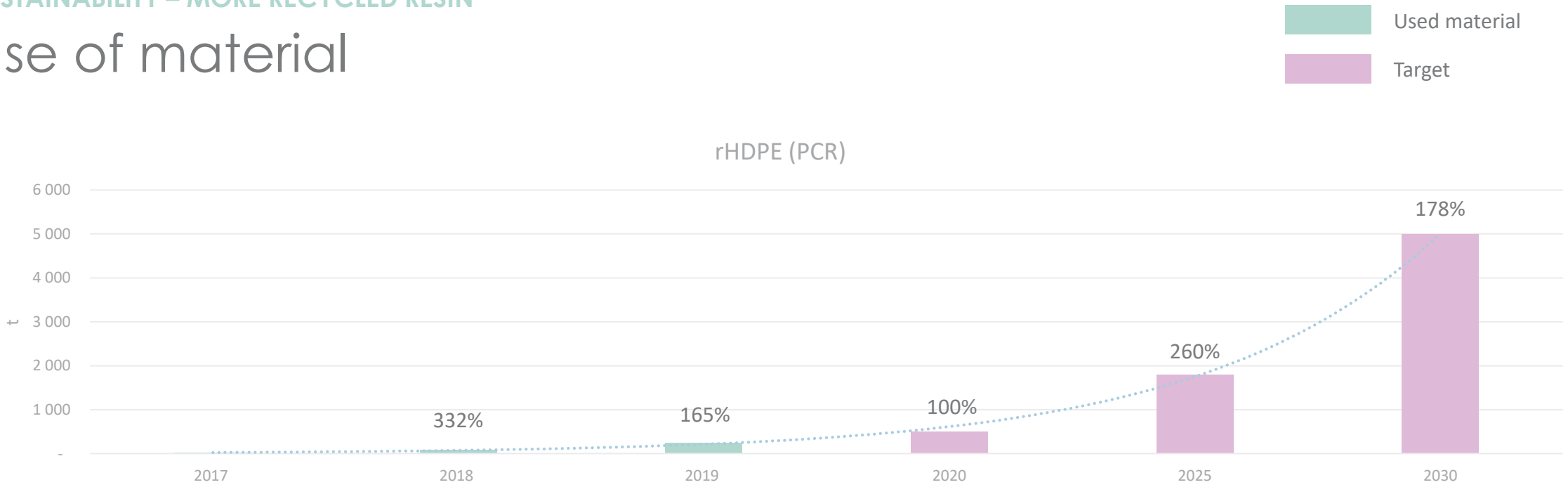
SUSTAINABILITY – MORE RECYCLED RESIN

Use of material



*Total amount of **rHDPE** resin in 2019 → **250 t/a** = 8% of used HDPE*
*Total amount of **rHDPE** resin in 2018 → **94 t/a** = 3% of used HDPE*

+ 165% of PCR

Total used material 2019 (all materials) → 12.000t
Total used material 2018 (all materials) → 10.000t

Target for 2025:

Increase the use of rHDPE *Use of rPP* *Replace PS, POM, SAN*

2030: use of 100% total recycled resins

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