



Partnerships For Circularity



SERVICES

FPS Recycling Hub

At FPS Flexible Packaging Solutions, we remain committed to improving the sustainability of our products by making conscious and positive steps towards our Environmental, Social, and Governance (ESG) ambitions. We have taken another step towards a circular economy future by investing in a **one-of-a-kind Recycling Hub in Romania** with the sole purpose of recovering and reprocessing used FIBCs back into usable Post-Consumer Recycled (PCR) resin. This material is then used in the new production of **FlexiGreen by FPS**.

Why FPS invested in the Recycling Hub

As a leading company in flexible industrial packaging with operations in over 16 countries, we transition to a circular economy in our own operations while helping our customers, suppliers, and other stakeholders identify opportunities for collaboration and innovation.

As market leaders in **reducing**, **reusing**, & **recycling** FIBC products, we made an investment in a one-of-a-kind recycling hub in Romania, Europe in 2022.

Circular Economy of FIBCs

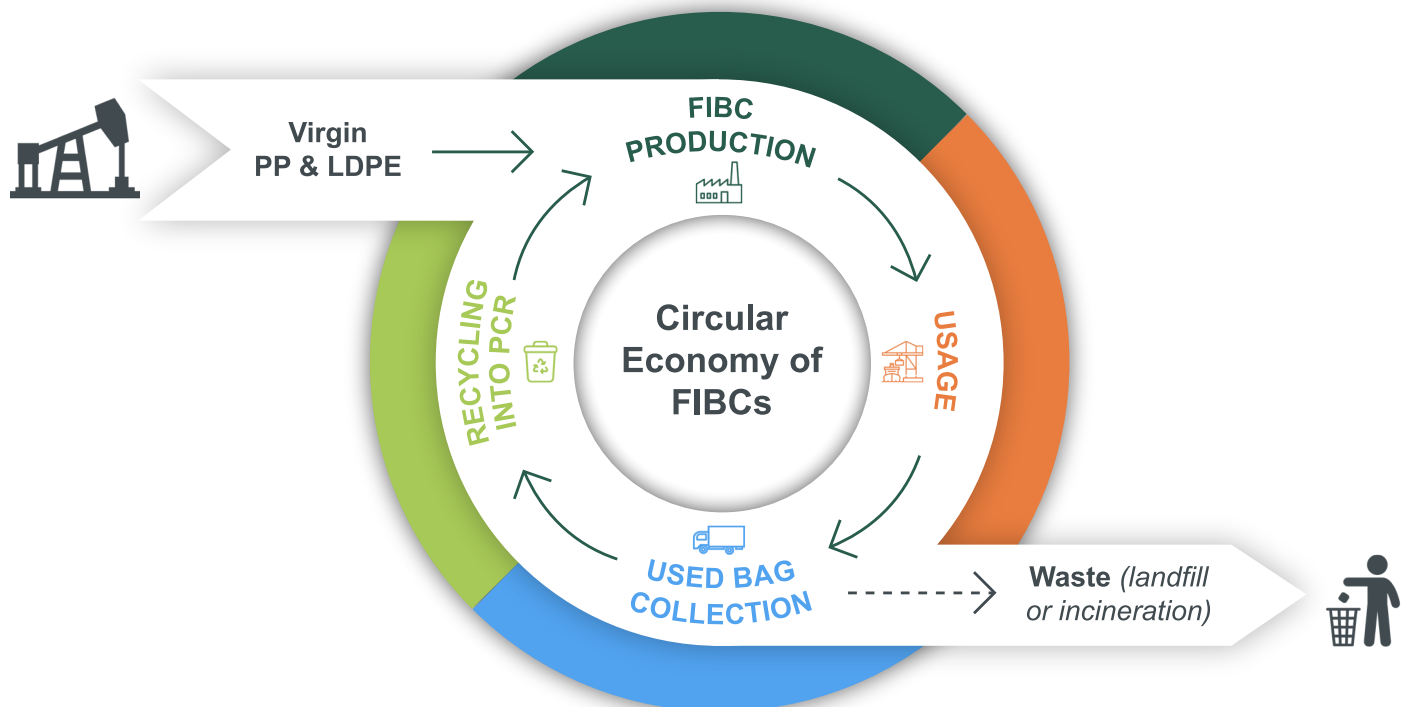
FIBCs are made from PP and PE, which are fully recyclable. However, even today a significant portion ends up in landfill or incineration plants.

Over the last 30 years, we made investments to maximize internal recycling and have operated our REBU reconditioning business since 1993.

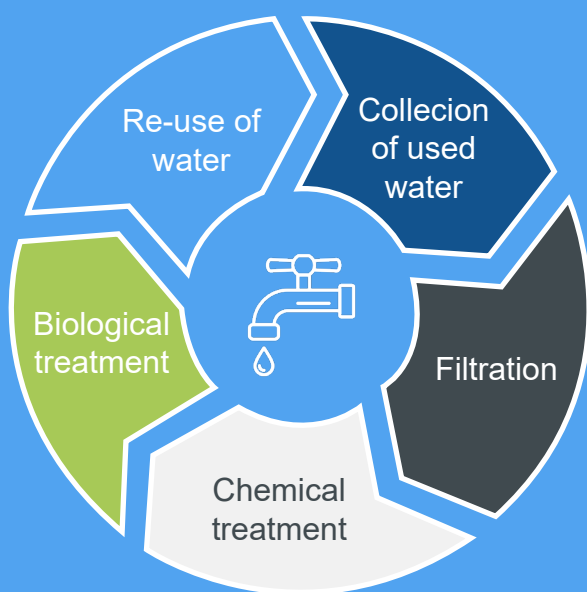


In our fully integrated Recycling Hub, we recycle FIBCs by reprocessing used bags into PCR resins. Then we produce FlexiGreen that contains a significant percentage of PCR, creating a genuine FIBC circular economy.

How the circular economy of FIBCs work



Why the FPS recycling is unique and efficient



To recycle 1 ton of FIBCs



60,000 liters (60 tons) of water is needed

Recycling 1 ton of plastic material requires approximately 60,000 liters of water. However, at our recycling hub in Romania, we have our own water treatment and recycling system in place to enable water to be reused.

Performance of FlexiGreen by FPS made with PCR

We provide our customers a sustainable solution while still maintaining high-quality standards.

We use recycled resin to produce the fabric for our FlexiGreen by FPS, which undergoes a rigorous quality control process. Our unique Recycling Plant allows us to create a recycled resin that is of high quality and purity, ensuring that our FlexiGreen has the same level of performance as FIBCs produced with virgin material.

FlexiGreen FIBCs with 30% recycled material are compliant with ISO 21898 and offer the same benefits of reusability and recyclability as FIBCs made from virgin resin and comparable technical performance, without increasing the material content.



TEST CRITERIA	CERTIFICATION	REQUIREMENT	FLEXIGREEN by FPS WITH 30% PCR
Cyclic Top Lift Test SF 5:1	ISO 21898 <i>Annex B</i>	$\geq 5 \times \text{SWL}$	PASS
Cyclic Top Lift Test SF 6:1	ISO 21898 <i>Annex B</i>	$\geq 6 \times \text{SWL}$	PASS
UV Resistance (200h, UVB-313 lamp)	ISO 21898 <i>Annex A</i> ASTM G154	Retain at least 50% of breaking force and elongation	PASS

How our Recycling Hub contributes to your Sustainability Goals

The ultimate stakeholder is always our planet. By using our Recycling Hub, we close the loop so you can have a positive impact and contribute to a more sustainable world. By opting for recycled bags, together we eliminate plastic waste and reduce CO₂ emissions, taking a major step towards a circular economy.

At FPS, we are eager to help you meet your sustainability goals. We support you to make the most responsible and environmentally-conscious decisions to promote your commitment to sustainability throughout your whole supply chain. FlexiGreen by FPS provides you with an easy choice to reduce the carbon footprint of your products and achieve your emission reduction goals.

Tax Benefits

Most European countries have introduced plastic taxes on single-use plastics, including packaging and disposable items, with varying rates and implementation methods. These taxes aim to decrease plastic waste and its impact on the environment and ultimately are going to be paid by the national budget or directly from manufacturers/users. Many more countries are expected to implement policy to reduce the usage of plastic.

Our FlexiGreen by FPS provides you with an economically beneficial solution to comply with the regulations and contribute to the circular economy.



As of April 2022, a Plastic Packaging Tax is in effect in the UK on all imported and domestically produced plastic packaging made from less than 30% recycled content.



In Italy, pushed to 2024, a plastic tax is being issued on the plastic material contained in products with the exclusion of the amount of recycled plastic content.



In Spain, as of 2023, a plastic tax is applied to non-reusable packaging products containing plastic material, excluding the content made from recycled plastic.





Impact of our Recycling Hub

Based on the analysis of different items, emissions can be reduced by 15% on average when a FIBC is produced with minimum 30% recycled material.

Approximately 1.3 kg of carbon di-oxide equivalent (kgCO₂eq) emissions can be avoided for every 1 kg of recycled material usage.

When our plant operates at maximum capacity, the output is 14,000 tons of FIBCs recycled and regranulated per year, the equivalent of 23 million FlexiGreen bags with a minimum of 30% PCR content. The next biggest recycling facility in the industry recycles less than 200 tons a year.

When 14,000 tons PCR is reused in FIBCs instead of virgin material approx. 18,000 tons of CO₂ emission will be saved annually.

18,000 tons of CO₂ reduction is equal to...



Considering the average European car usage, ca. 12,000 cars remaining off the streets



Saving the release of CO₂ equivalent of driving 145 million km in a new car (ca. 3627 times around the globe)



It takes ca. 1.4 million trees to sequester this amount of CO₂ per year

 For more information, reach out to our local sales representative or visit www.fps.com

