

LIBOLON

LIBOLON
come along with LIBOLON



ECO-family

Protection of the environment and natural ecosystem

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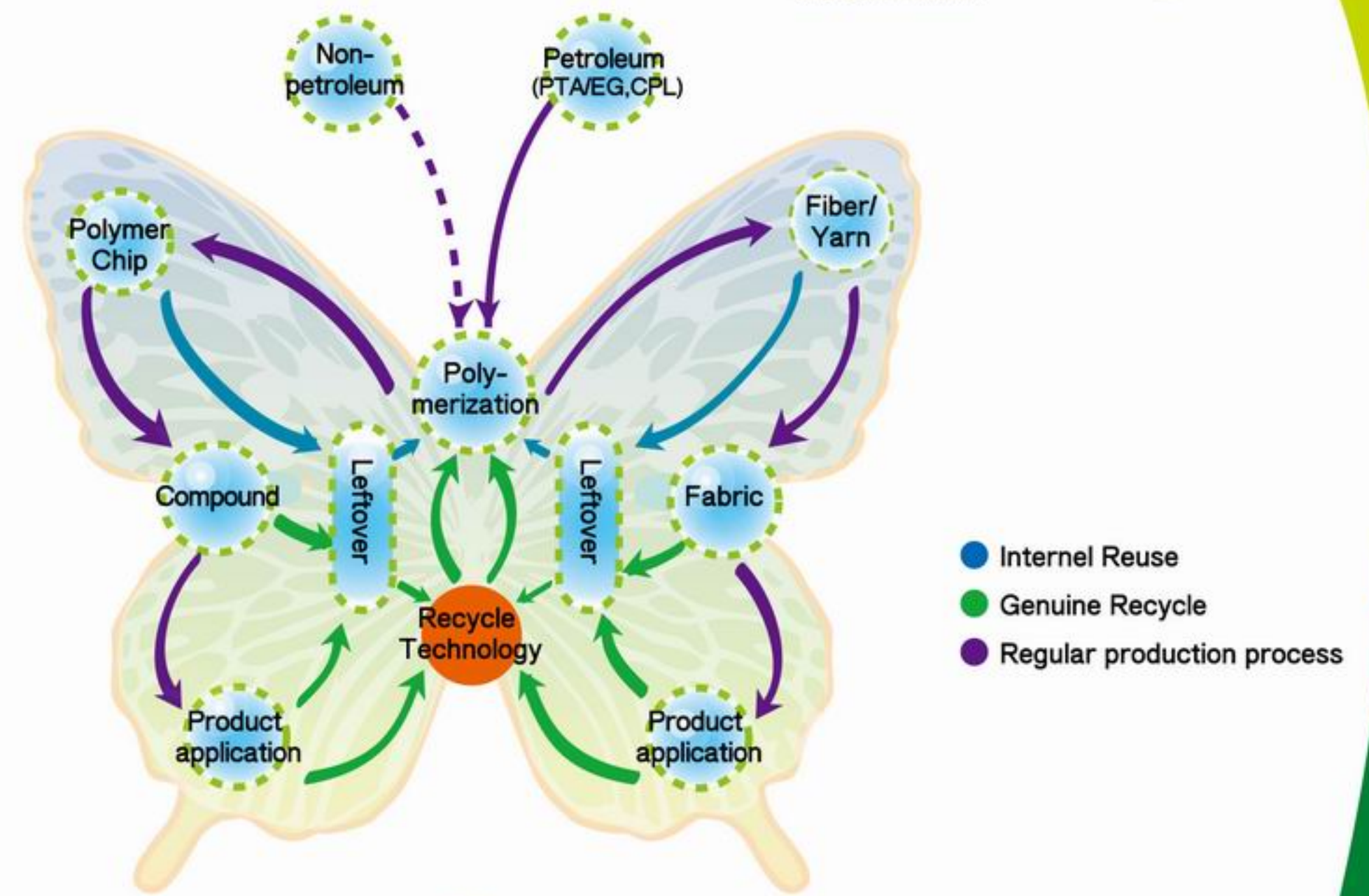


LIBOLON

To fulfill the concept "cradle to cradle"

From 2008, for further pursues the product Design for Environment and achieve the Concept of Product Life Circle, after environmental protection product RePET® and Ecoya®, we have planned "EcoFlying Plan", the final goal is realizes the Concept of "Cradle to Cradle".

Ecoflying
Change & Revalue



Nylon & Polyester Closed Recycle System



The First Stage During the first stage, 2008 ~ 2010, textile wastes from all the plants across the entire production sectors will be recovered and recycled into new yarn or even blended with waste wood to produce wooden plastic products.



The Second Stage The second stage is 2010 to 2012, the final product also will integrate at the appointed time the recycling regeneration system, faces thoroughly recycles completely makes great strides forward.





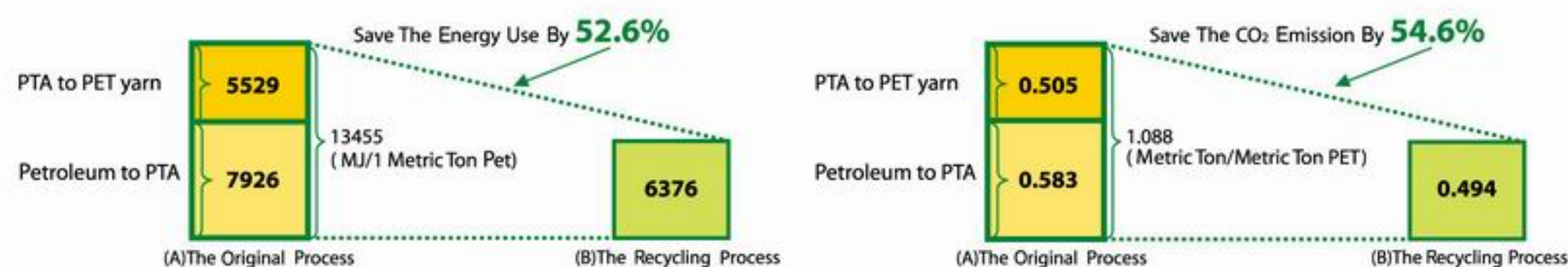
Recycle Polyester Yarn

RePET®

To protect our eco-system, our environment, and to leave a beautiful earth for future generations, LIBOLON® has developed RePET® and RePET®-solution dye.

RePET®

RePET® is the new recycling polyester yarns manufactured from the used PET bottles. Through environmentally-friendly recycle processes, RePET® does not depend on petroleum and thus effectively conserves natural resources and reduces environmental burden without compromising quality. RePET® is all-purpose and guaranteed to be environmentally friendly.

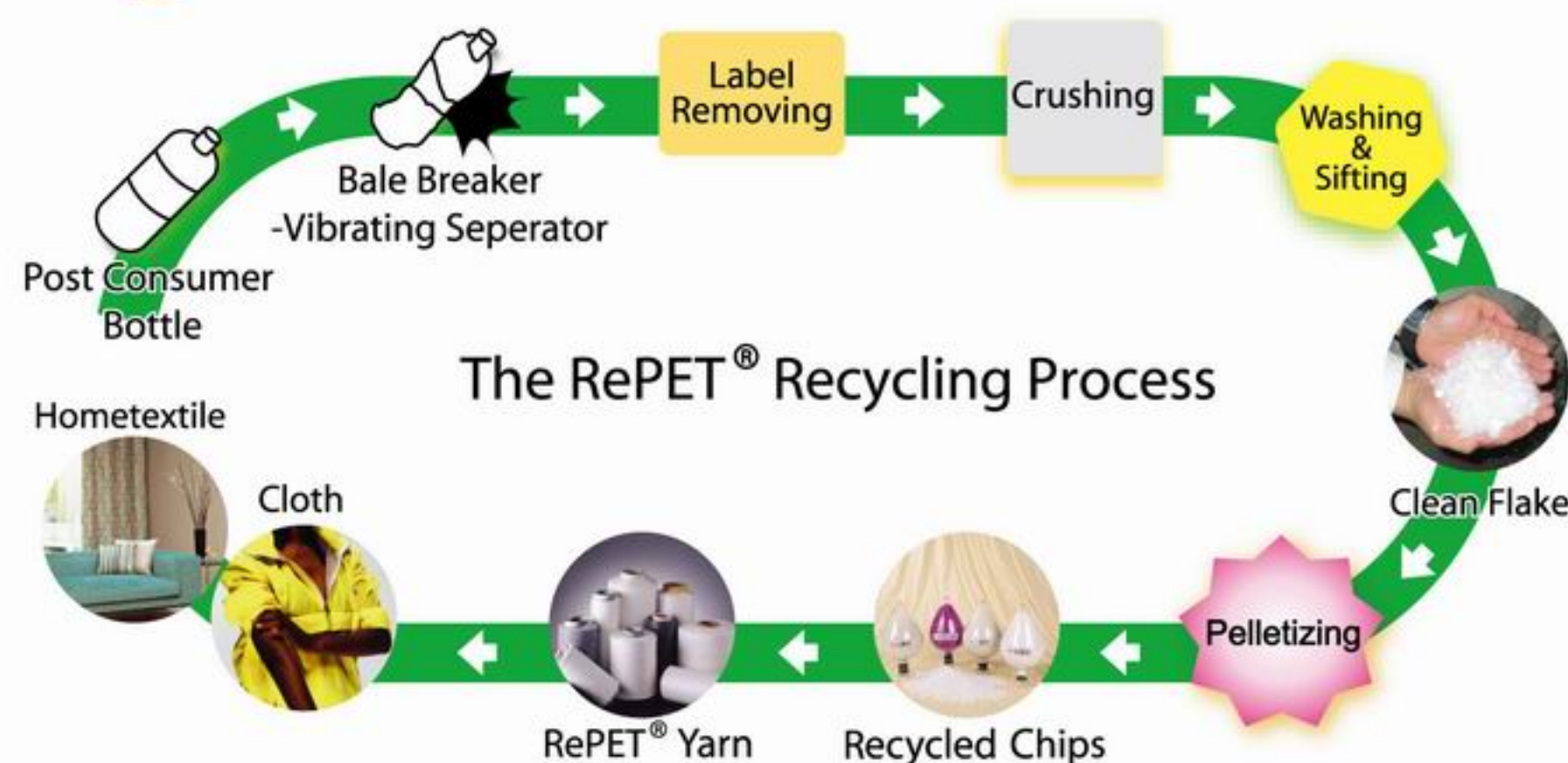


《 Comparison of The Energy and The CO₂ Emissions Use Between The Two Processes 》

RePET®-Solution Dye

No need for dyeing, RePET®-Solution Dye is even more environmentally friendly than RePET®. By using solution dyed yarns, RePET®-Solution Dye significantly reduces the release of green-house gases and waste of high chemical oxygen demand, as well as cuts down water and chemical consumption. RePET®-Solution Dye also has superior attributes, such as colorfastness to light, colorfastness to water, colorfastness to washing, and color reproducibility.

RePET® and RePET®-Solution Dye have got Taiwan Green Mark and GRS (Global Recycle Standard) certifications.



Product Application

Outerwear, Sportswear,
Industrial use,
Hometextile, Uniform



Solution Dyed Yarn



For the textile industry, dyeing is the procedure that generates the most pollutants. Severe pollution to the environment is caused by the burning of heavy oil during the procedure that releases a large amount of CO₂ – one of the green house gases that cause global warming, consumption of a large quantity of water and chemicals, and the release of waste water that is high in chemical oxygen demand (COD).

Ecoya® is a type of solution dyed yarn. Most of the dyeing process is omitted as the color masterbatch are added to the polymer melt before it is extruded into fiber. According to statistics, when generic textiles are replaced with Ecoya®, **the release of CO₂ and COD is greatly reduced and water and chemicals are also conserved.**

Ecoya® has superior attributes, such as **colorfastness to light, colorfastness to water, colorfastness to washing, and color reproducibility.**

Using Ecoya® is great for the environment and eco-system. In addition, the users also benefit from the superior quality that this line has to offer. Ecoya® will provide you with a wonderful experience.

Ecoya® vs regular fabric

	CO ₂ (Ton/10 ⁴ y)	Water (KL/10 ⁴ y)	Chemical (Kg/10 ⁴ y)	COD (Kg.COD/10 ⁴ y)	Energy use (KWH/10 ⁴ y)
Regular fabric	5.769	280	600	154	8825
Ecoya®	2.143	30	221	49.95	3245
Reduction	3.626 (62%)	250 (89%)	379 (63%)	104.05 (67%)	5580 (63%)



Product Application

Outerwear, Sportswear,
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Water for living, not for dyeing.