

'CYCLUS' is SK geo centric's eco-friendly materials that virtuously cycles 'Using waste plastic as a resource and turning back to new possibilities' for the Earth of tomorrow. SK geo centric presents eco-friendly solutions for a sustainable future.

Solve plastic pollution by recycling and enrich human life by expanding eco-friendly product portfolio. CYCLUS implies the expression of 'CYCLE + US' meaning 'create a virtuous circle together' and 'CYCLE + EARTH' meaning 'make the Earth a virtuous circle'. The indications of three colors in the Earth symbol are Recycle / Bio / Technique, which symbolizes the three axes of eco-friendly products. The world's largest Advanced Recycling Cluster (targeted for completion in 2025) built by SK geo centric in South Korea will be a stepping stone to accomplish CYCLUS.



Recycle

Advanced Recycling (Mechanical)

● CYCLUS MR-PE/PP/PET

The waste plastic discharged cleanly from a single material is mechanically reprocessed (PCR) and combined with SK geo centric new material in an optimal ratio to ensure excellent physical properties and processability. Also, it can be produced in various colors, so it can be used for all applications.

● CYCLUS CR Materials

Composite or contaminated waste fiber/ waste plastic can be recycled indefinitely with products equivalent to new products by applying pyrolysis, and depolymerization (w/ Loop Industries, brand is under discussion) and high-purity PP extraction (w/ Pure Cycle Technologies, align with Pure Cycle Technologies Brand-PureFive™), which are chemical recycling methods of innovation.



Bio

Sustainable Feedstock and Biodegradable Materials

● CYCLUS RN-PE/PP

Renewable feedstock is produced from waste and residue source such as UCO, used as a petrochemical feedstock, and applied Mass Balance Approach to grant International Sustainability and Carbon Certification (ISCC) plus.

● CYCLUS Bio-D PBAT/PBAT Comp'd

SK geo centric produces various biodegradable products that are made of high-quality, certified PBAT resins and biobased materials. CYCLUS Bio-D Products can be applied to disposable bags, agriculture mulching film and various packaging area. By replacing traditional plastics with our biodegradable product, we can contribute to greener future together.



Technique

3R Functional Materials

● CYCLUS Technique Recyclable

In collaboration with food and distribution companies, we are working on a single-material packaging product design and technology development project that is easy to recycle

● CYCLUS Technique Reduce

We want to reduce plastic usage by developing products that can achieve equivalent performance but reduce usage. High-crystal-line plastic (HCPP) can be lightweight up to 10Kg based on medium-sized vehicles and has proven to improve fuel efficiency and reduce air pollutant emissions.

● CYCLUS Technique Replace

We are converting environmental pollution and human harmful products into eco-friendly products such as non-recyclable PVC Wrap has been developed into PE wrap and expanding its application.



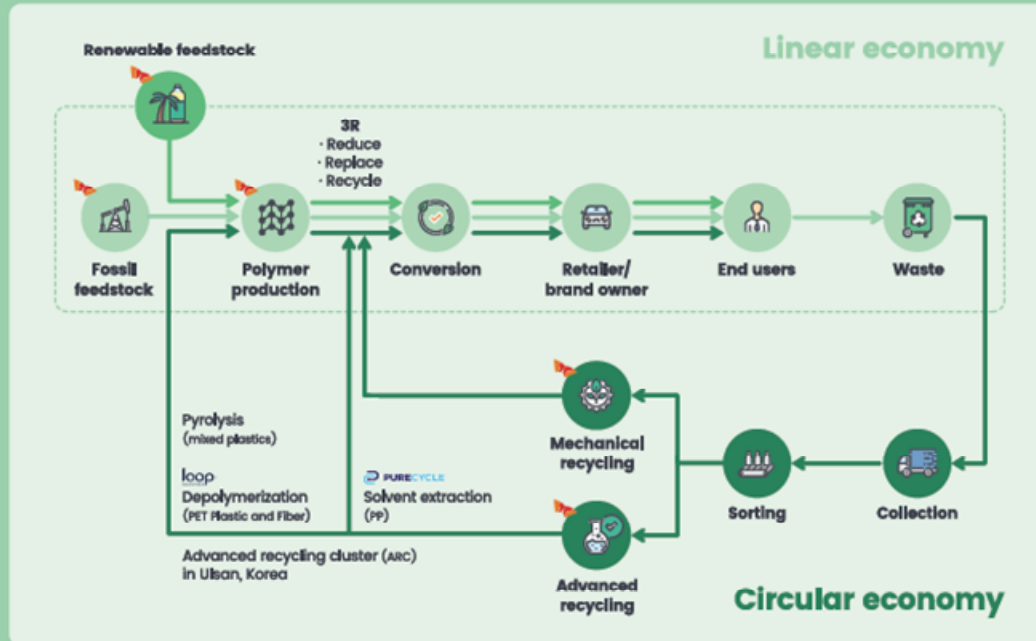
World EXPO 2030
BUSAN, KOREA

SK proudly supports the bid for **World EXPO 2030 in Busan, Korea**



Transforming from a linear economy to a “circular economy”

we have been driven by passion and innovation, converting waste into new materials through Advanced Recycling Cluster in Ulsan, South Korea.



Advanced recycling cluster in Ulsan, South Korea

Under design process for optimizing three different key advanced recycling technologies to maximize synergy

Site area : 215,000m²

Located near **Ulsan petrochemical complex**
(synergy with SK Ulsan petroleum & chemical complex)

Scheduled : ~ '25. 2H

3 key technologies of advanced recycling

- Depolymerization (with Loop Industries)
- Solvent extraction (with Pure Cycle Technologies)
- Pyrolysis (with tech. company)



Recycle	Dahye Ha	+82-10-2128-0452	dahye.ha@sk.com
Bio	Youngkuk Bae	+82-10-4784-2475	kook7@sk.com
Technique	Kyuyoung Lee	+82-10-4110-0927	kylee26@sk.com

