Reliance Industries Becomes First in India to Use Chemical Recycling for Circular Polymers

The new innovation is a testimony to the company’s commitment in reducing plastic waste and supporting Circular Economy in India

Reliance Industries Limited (RIL), operator of the world's largest integrated refining and petrochemical complex, has become the first Indian company to chemically recycle plastic waste-based pyrolysis oil into International Sustainability & Carbon Certification (ISCC)-Plus certified Circular Polymers. This new innovation is a testimony to RIL's commitment in reducing plastic waste and supporting Circular Economy in India.

RIL shipped its first batch of ISCC-Plus certified Circular Polymers, named CircuRepol™ (Polypropylene) and CircuRelene™ (Polyethylene).

RIL paves the way in India by using new technology to recycle plastic by converting plastic waste into special Circular Polymers, thereby making a positive impact on the environment. RIL’s commitment to sustainability is demonstrated through its innovative methods like chemical recycling which help create a Circular Economy. The company firmly believes in finding smart solutions to reduce plastic waste and inspire others to join in this journey towards a greener future.

CircuRepol™ and CircuRelene™ have been designed to lead the way in Circular Economy practices. RIL's Jamnagar refinery became the first refinery to get the important ISCC-Plus certification, proving that it can produce Circular Polymers through chemical recycling. The ISCC-Plus certification guarantees that traceability and rules are followed in making Circular Polymers.

RIL has developed a technology that turns different types of plastic waste, including single-use and multi-layered plastics, into pyrolysis oil. The company is working with trusted partners to increase the production of this oil and turn the yield into Circular Polymers.

Chemical recycling has many benefits, including turning plastic waste into high-quality materials for new plastic. These materials can be used for packaging that comes into contact with food.