

Reliance Industries' Milestone Achievement: ISCC Plus Certification and Circular Polymers Production

(Reliance Industries achieves a historic milestone by becoming the first Indian company to secure the ISCC Plus certification, showcasing its commitment to sustainability and pioneering chemical recycling technologies for the production of ISCC-Plus certified circular polymers.)



(Source: Sustainable Plastics)

Reliance Industries Limited (RIL), under the visionary leadership of Mukesh Ambani, has achieved a groundbreaking milestone in sustainable practices by becoming the first Indian company to secure the International Sustainability and Carbon Certification Plus (ISCC Plus) certification. This certification, which holds global recognition, underlines Reliance's commitment to environmentally friendly operations. The recent announcement of shipping ISCC-Plus certified circular polymers further solidifies RIL's position as a pioneer in sustainable practices within the Indian corporate landscape.

Significance of ISCC Plus Certification:

Setting a Benchmark for Sustainability:

The attainment of the ISCC Plus certification by Reliance Industries is a significant benchmark for the Indian corporate sector. It not only underscores the company's dedication to sustainability but also sets a precedent for other entities to prioritize eco-friendly practices in their operations. In an era where environmental concerns are at the forefront of global discussions, RIL's proactive approach towards sustainability is commendable.

Global Recognition and Credibility:

The ISCC Plus certification provides international recognition, enhancing Reliance Industries' credibility on the global stage. This achievement showcases India's capabilities in adopting sustainable measures in its industrial processes, fostering a positive image internationally. As environmental consciousness grows, companies with a strong commitment to sustainability gain a competitive edge and attract environmentally conscious consumers and investors.

Historical Context:

To understand the significance of Reliance Industries achieving the ISCC Plus certification, it's crucial to

acknowledge the growing emphasis on sustainability in today's global business landscape. Over the years, environmental concerns and climate change have prompted organizations worldwide to reevaluate their practices. This has led to an increasing focus on sustainable and eco-friendly operations across various industries. RIL's move aligns with this global trend, positioning the company as a responsible player in the corporate world.

Chemical Recycling and Circular Polymers Production:



(Source: Toppost)

Breakthrough Announcement:

On December 29, 2023, Reliance Industries proudly declared a breakthrough achievement - the production of ISCC-Plus certified chemically recycled polymers. This accomplishment signifies RIL's commitment to sustainable practices and innovation in the petrochemical industry. The inaugural batch, named CircuRepol (polypropylene) and CircuRelene (polyethylene), was successfully shipped to an undisclosed client, marking a historic moment for the company.

ISCC-Plus Certification at Jamnagar Refinery:

The ISCC-Plus certification specifically applies to RIL's Jamnagar refinery in the state of Gujarat. This recognition is a testament to the company's dedication to meeting international standards for sustainable and environmentally friendly manufacturing processes. The Jamnagar refinery has implemented continuous catalytic pyrolysis technology, designed to convert various plastic wastes, including single-use and multi-layered plastics, into pyrolysis oil.

Advanced Pyrolysis Technology:

RIL's proprietary continuous catalytic pyrolysis technology is a breakthrough in the quest for sustainable plastic waste management. While specific performance values for the technology were not disclosed, the company emphasizes its ability to yield high-quality pyrolysis oil. The successful validation of this technology at a demonstration scale signifies a step forward in addressing the global issue of plastic waste. This innovation showcases RIL's commitment to investing in advanced technologies for a sustainable future.

Production Capacity and Future Plans:

The Jamnagar refinery boasts a capacity to output up to 600 tonnes of pyrolysis oil per month. In a statement, RIL outlined its long-term plans, which include the establishment of in-house technology

plants and a strategic scaling up of capacities. This ambitious vision aligns with the conglomerate's goal of making substantial contributions to a sustainable and circular economy. As the demand for circular polymers grows, RIL's commitment to expanding production capacity highlights its foresight in addressing future environmental challenges.

ISCC Plus: A Globally Recognized Certification:**International Recognition for Sustainable Feedstocks:**

ISCC Plus stands as the leading global certification system providing supply chain transparency and traceability for sustainable feedstocks used in the production of chemically recycled polymers. Companies obtaining ISCC Plus certification commit to ensuring that the sustainability of their raw materials can be transparently traced from the field to the store. This involves adhering to mass balance or material segregation chain of custody models, which track the amount of bio-based, circular, or renewable content across the entire value chain.

Reliance's Commitment to Sustainability:

Reliance Industries' achievement of chemically recycling plastic waste-based pyrolysis oil into ISCC-Plus certified circular polymers reinforces the company's commitment to sustainability. This innovative method of chemical recycling contributes to creating a Circular Economy, addressing the growing concern of plastic waste. RIL's dedication to finding smart solutions to reduce plastic waste sets a commendable example for the industry and inspires others to join in the journey towards a greener future.

Benefits of Chemical Recycling:

Chemical recycling, as demonstrated by RIL, has several benefits. It turns plastic waste into high-quality materials for new plastic, which can be used for packaging, including that which comes into contact with food. This approach aligns with the global shift towards more sustainable and responsible manufacturing processes. By focusing on chemical recycling, RIL not only addresses environmental concerns but also contributes to the development of a circular economy where resources are reused and waste is minimized.

Reliance Industries' recent achievements in obtaining the ISCC Plus certification and producing ISCC-Plus certified circular polymers mark a pivotal moment in India's corporate sustainability landscape. The company's dedication to adopting advanced technologies for sustainable practices not only sets an example for the industry but also strengthens India's position on the global stage. As environmental concerns continue to shape business practices, Reliance Industries' proactive approach positions it as a leader in the journey towards a more sustainable and circular economy. The combination of international recognition, innovative technologies, and a clear commitment to sustainability makes RIL a trailblazer in the quest for a greener future.