Press release

Award for Sorting Technology of Polysecure

Berlin, November 2017. Polysecure GmbH received the German StartGreen Award for their new sorting technology „Tracer Based Sorting". The new technology enables a significant step towards a real circular economy, especially for plastics, said the high caliber jury in the German environmental ministry in Berlin.

The StartGreen Award was granted for the third time in a row. The price recognizes innovative business concepts, start-ups and young enterprises which contribute to climate protection and sustainability with their services and products. Patroness of the StartGreen Award is the German minister for Environment, Dr. Barbara Hendricks. „The StartGreen Award strengthens the networks of the green start-up scene," emphasizes Prof. Dr. Klaus Fichter. He is the leader of the StartGreen Award and director of the Borderstep Institute for Innovation and Sustainability, which organizes the competition.

Accelerate Circular Economy on a global scale
Polysecure has won the reputed prize in the category of young enterprises. Laudator Dr. Bertram Dressel, managing director of TechnologieZentrum Dresden and also president of the German association for innovation, technology and start-up centers, positioned the new technology: „Polysecure has developed a sorting and marking technology which enables to sort materials

precisely and therefore really closes the recycling loops." Thus the circular economy, which is so desired by all stakeholders, can be catalyzed significantly and in a global dimension.

More Recycling Lowers CO2 Emissions and Reduces Plastic in the Environment

„This award is very valuable for our work. It underlines that we are on the good path. By our sorting technology, plastic waste can be sorted more efficiently and into more specifications than can be done to date", says Jochen Moesslein, CEO and founder of Polysecure GmbH. According to Moesslein, more specific and pure recyclates can thus be offered by the recyclers and employed for the production of new plastic products. Like this at least 25 million tons of plastic could be better recycled worldwide. This would reduce plastic waste in our seas and environment. In addition, it would save at least 50 million tons of CO2. „Our technology has the potential, to contribute significantly to the environment, the people and enterprises", says Moesslein.

High Innovation at first with PVC window profiles

As the first industry application, Polysecure has developed the new sorting technology together with REHAU for the separation of glass fiber containing PVC flakes from pure PVC flakes. By this, lighter, better insulating glass fiber reinforced PVC windows can be marketed while enabling a second loop for the recycling of PVC with glass fiber. According to Moesslein it is now about expanding the sorting technology into new applications as plastic packaging and likewise accelerating the development of a real circular economy.

Comprehensive Pilot Project with the German Green Dot, Werner & Mertz, KIT and University Pforzheim

Together with the German Green Dot, Werner & Mertz, Karlsruhe Institute of Technology and University Pforzheim, Polysecure presently works on the project „MaReK", co-financed by the German government under the political umbrella of „Plastic in the Environment". MaReK is all about the application of the new Polysecure sorting technology for plastic packaging. The new German packaging law requests that 63% of plastic packaging compounds are recycled by 2022. This represents a significant increase from today's level. The solutions developed by MaReK will be transferable to other parts of the world which usually suffer more under the environmental pollution by plastic waste. An important precondition for the efficient use of the new technology is that large brands and the recycling industry agree on certain standards.

On Polysecure:

Polysecure develops innovative material markers which are used for product authentication, together with own optical detectors (BRANDPROOF® series), and for material sorting (Tracer Based Sorting), together with own sorting machines (FLUOSORT®).

www.polysecure.eu

On StartGreen Award:

The StartGreen Award is an initiative of the Borderstep Institute for Innovation and Sustainability. The Competition is enabled by the support from main partners: GASAG AG, Wincubator, RKW Kompetenzzentrum, InnoEnergy, CleanTech Innovation Center Berlin und Technologiezentrum Dresden.

www.start-green.net/award

<u>On Borderstep:</u>

Borderstep researches as an independent and not for profit scientific institution on the future and analyses what will come (future) and what will remain (sustainability). The focus is to create solutions and strategies for a sustainable economy.

www.borderstep.de

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https://start-green.net/aktuelles/nachrichten/polysecure-im-interview/

https://start-green.net/netzwerk/unternehmen/polysecure-gmbh/

https://www.bmub.bund.de/pressemitteilung/startgreen-award-2017-gruene-gruendungen-weiter-im-aufwind/

Pictures:

Polysecure Tracer Based Sorting machine within an industrial production environment
Photo: © Polysecure GmbH

PVC flakes from window profiles marked with fluorescent tracer from Polysecure – fluorescent flakes are separated from non-fluorescent flakes.
Photo: © Polysecure GmbH

Jochen Moesslein (CEO) and Peter Hensle (COO) of Polysecure
GmbH with StartGreen-Award 2017
Photo: © Rolf Schulten / Borderstep

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