



Green Banknote increases sustainability in the cash cycle

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Giesecke+Devrient

Giesecke+Devrient (G+D) is presenting a new type of banknote at the Global Currency Forum. The innovative "Green Banknote" acts as a blueprint for using ecological, resource-saving materials and production processes for banknotes. Coupled with durability and state-of-the-art security features, it makes a decisive contribution to a more environmentally friendly and efficient cash cycle.

The banknote industry is striving to act on its responsibilities for the environment and the sustainable development of the economy. One of the central questions at the [Global Currency Forum 2022](#) from 2 to 5 May in Tarragona, Spain, is therefore: How can the currency industry reduce its carbon footprint and contribute to sustainability? G+D is using the forum as an opportunity to present its new sample note, the "Green Banknote". It has been developed off the back of findings from a [study](#) by G+D subsidiary Louisenthal, which calculated the product-related carbon and water footprint of various substrates in the entire cash cycle. The result: natural fibre-based hybrid solutions best combine banknote durability, sustainability and security.

The "Green Banknote" is a sustainable product solution for banknotes. It reduces the ecological footprint of a banknote by using certified natural fibres, as little plastic as absolutely necessary and an optimised production process, thus making a real contribution to climate protection. There are four key aspects of the "Green Banknote":

- The core of the banknote paper is an emission-minimising fibre mix of organic cotton and FSC® (FSC-C138716) certified cellulose, which comes from European forestry. The material mix reduces carbon emissions by 63 per cent compared to fibres made from conventionally grown cotton. G+D is the first manufacturer to also offer cotton from regionally certified initiatives such as "Cotton made in Africa", which promotes fair working conditions in addition to ecological sustainability.
- The carrier film for the RollingStar i+ security thread and the varifeye ColourChange security patch comes from a certified recycling circuit with 70 per cent recycled polyester. This transforms recycled plastic waste into a high-quality security feature.
- For a greater durability in the cash cycle, the natural fibre substrate is wrapped with a PET film, which is thinner in the "Green Banknote" and therefore conserves resources. Taking these two measures reduces the plastic content by a total of 38 percent compared to the previous hybrid substrate.
- Finally, for the first time, inks for simultaneous printing based on vegetable oils and thus without mineral oils are used in the printing of the banknotes.

"In total, the production of a 'green' banknote results in 29 per cent less carbon dioxide emissions than typical competitor products made of polymer. Subsequently, this product innovation is the most sustainable solution on the market to date. It also strikes the optimal balance between sustainability, durability and maximum security", emphasises Bernd Kümmerle, Managing Director of the Banknote Solutions Division at G+D Currency Technology. "The development of this particularly environmentally friendly product solution is part of our recently established 'Green Banknote Initiative'. Together with our customers and partners, we want to use it to make the cash cycle greener."

Further information can be found at greenbanknote.gi-de.com

About Giesecke+Devrient

Giesecke+Devrient (G+D) is a global security technology group headquartered in Munich. As a trusted partner to customers with the highest demands, G+D secures the essential values of the world with its solutions. The company develops technology with passion and precision in four major playing fields: payment, connectivity, identities and digital infrastructures.

G+D was founded in 1852. In the fiscal year 2021, the company generated a turnover of 2.38 billion euros with around 11,800 employees. G+D is represented by 81 subsidiaries and joint ventures in 33 countries. Further information: www.gi-de.com