

RNS Reach

April 3, 2024

Spectra Systems Corporation

("Spectra Systems" or the "Company")

Spectra Systems Commercializes the World's First Certified Circular Polymer Banknote Substrate: Guaranteeing the world's central banks and the public that their currency is part of an audited mass-balanced recycled plastics supply chain.

Over the last several decades many central banks have utilized polymer substrates rather than paper to manufacture their banknotes, a shift that started in Australia in 1988. Currently, over 60 countries utilize polypropylene as a substrate, with roughly 30% of them using polymer across all denominations.

In 2019, Spectra Systems (SPSY.L on London Stock Exchange) was the first to introduce the world's first high-speed machine-readable polymer substrate with covert signatures within the polymer to include the substrate in the security chain of polymer banknotes (Currency News,17 (8),2019 and Currency News, 20 (9) 2022).

Spectra Systems is again changing the landscape of polymer banknotes by announcing the world's first polymer banknote substrate that is part of a mass-balanced recycling supply chain certified by the International Sustainability and Carbon Certification (ISCC) PLUS process. Spectra Systems, through its security printing subsidiary, Cartor Security Printers in the United Kingdom, has recently obtained ISCC PLUS certification. The ISCC PLUS certification allows Spectra Systems to maintain a fully audited mass-balance supply chain using polymer sourced and produced by our exclusive partners, Toray Plastics America to provide print-ready substrates for banknote production.

Our commercially available FUSIONTM Circular Polymer banknote substrate ensures that for every kilogram of polymer utilized in the substrate, an equal amount of polymer was recycled and repurposed as part of a sustainable supply chain.

The use of Certified-Circular Polymer based on advanced recycling of plastics, has many points of environmental impact. These include:

- Using plastic waste as an alternative to fossil fuels
- Additional end of life options for plastic waste
- Diversion of significant amounts of plastic waste from landfills or incineration
- Expanding the range of plastic waste that can be recycled

Spectra Systems will be presenting this newly commercialized substrate and its impact on the industry and the environment at the upcoming Banknote 2024 conference in Fort Worth, Texas from May 13 to 16 2024.

Commenting, Dr. Nabil Lawandy, Chief Executive Officer, said: "Spectra Systems, as an engaged corporate citizen supporting a sustainable global environment, is proud to bring this product to the banknote industry. This undertaking is yet another demonstration of how Spectra Systems is always innovating and bringing new technology and capabilities to our customers to meet their needs."

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