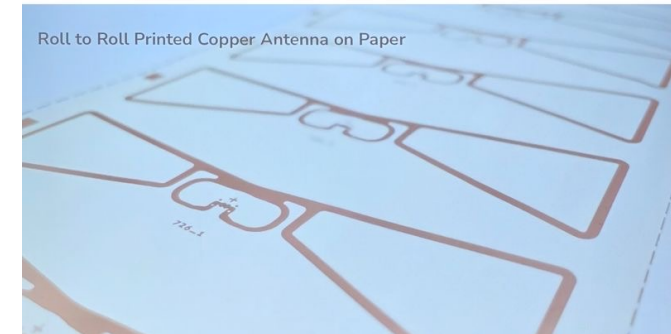


# Key benefit of printed antennas

- Local manufacturing: Made in USA / Made in EU antennas
- Biodegradable and Compostable
- Clean manufacturing process
- No Tariffs
- New and exciting marketing topic and differentiation.



# RFID's aluminum impact

NEWS

## RAIN Alliance Report Finds 2024 Tags Sales Approached 53 Billion

Published: March 4, 2025 Author: Claire Swedberg



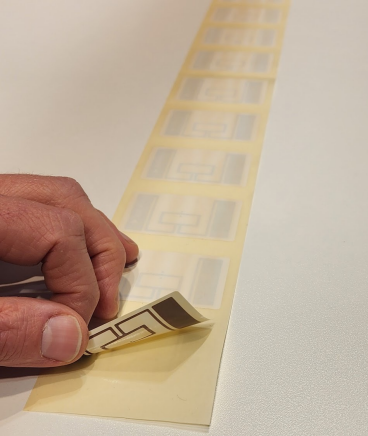
- 53 Billion Aluminum RFIDs are equivalent to >2000 Tons Aluminum/year
- And equivalent to trashing 150 Million aluminum soda cans!
- In less than 10 years, this will be equivalent to trashing **1 Billion aluminum soda cans.**

# Copprint – Non-AD RFID market traction

- Muhlbauer – the largest equipment provider for RFID chip attachment systems completed the development of the Antenna Printing Solution APS:
- Tailored for Copprint ink
- 10 meters/min ; >0.5B RFIDs per year
- FAT completed Oct 2024

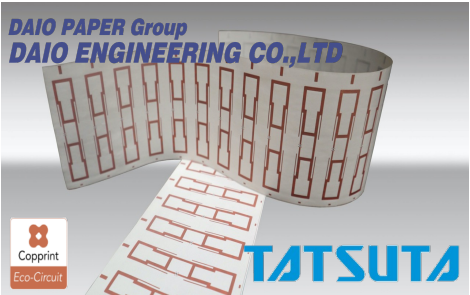


- 2024 - First 1M tags made by a Spanish company and delivered to their customer.
- Based on the Muhlbauer APS
- FAT completed Oct 2024
- Customer installation Q1 25

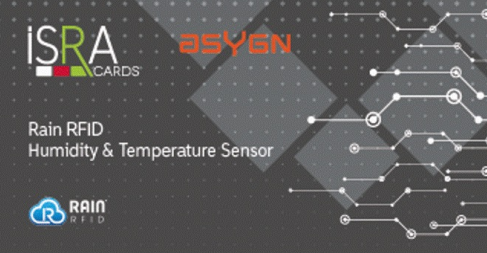


Q3 24

- Daio Engineering (subsidiary of the largest Japanese paper company) announced their Nano Cu RFIDs
- OSRFID from China announced eco RFIDs (based on Tatsuta relations).
- Major Japanese company demonstrated printed Cu RFID in Tokyo



- Q1 25 ISRA Cards (France) announce temperature & humidity RFIDs based on Copprint's ink Q1 2025



# RFID's aluminum impact

- Congratulations to [ISRA Cards](#) for announcing their first temperature and humidity "made in France" RFID sensors based on copper inks.

See: <https://lnkd.in/e7-2DVsd>

It is a credit card-size sensor that leverages the ASYGN chip and allows a standard RAID RFID (UHF) reader to monitor temperature and humidity.

See extra info at the [ISRA Cards](#) website: <https://lnkd.in/eMM7rvk8>

[hashtag#RFID](#) [hashtag#Sensor](#) [hashtag#industry4.0](#) [hashtag#Asygn](#) [OE-A \(Organic and Printed Electronics Association\)](#) [LOPEC](#)  
[TechBlick](#) [Copprint](#) [ASYGN](#)

- <https://www.linkedin.com/feed/update/urn:li:activity:7305486482432012288/>

# We make circuit board manufacturing GREEN



Transitioning polluting chemical etching processes in APAC to green additive manufacturing of electronics in EU/USA achieving a sustainable supply chain.

Reducing freshwater, waste, energy. Potential savings:

- 10-140M Tons CO<sub>2</sub>e ~0.1% of total world CO<sub>2</sub> emission.
- >1B Tons of fresh water.

First EPD – Q1 2025 – cutting >60% CO<sub>2</sub>e per PCB



Sustainable RFID antennas and green (compostable) electrical circuits. **Eliminating >50,000 tons of plastics/aluminum trash in 2030.**

E.g. disposing 35B RFIDs in 2022 is equivalent to **landfill of 1B aluminum cans/bottles to the ocean.** (and the market will grow 30X by 2030).



Replacing silver printed PV cells with Copper (**40X less kgCO<sub>2</sub>/kg**), **10-20% \$/watt cost reduction** per PV module.

Accelerating green energy adoption.

As silver for PV consumes ~12% of total mining capacity, it will be impossible to grow the world PV production without moving to Copper.



Copprint's NanoCu is made from 100% recycled Copper



Sustainability – Environmental impact



**Copprint** was selected for the prestigious 2025 Global Cleantech 100 list, out of 16,000 nominees. Since 2009, the Global Cleantech 100 List annually selects the most innovative and promising companies that will take humanity from commitments to actions in our efforts to reach net-zero.