



Activity Report

New Urban Mining Alliance formed in Taiwan

Taiwan long known for the creation of electronics is now home to a new industry network dedicated to eliminating all kinds of electronic waste. Unlike traditional forms of waste, e-waste combines many kinds of materials and mixes highly valuable metals, especially rare earth metals, with less economic plastics. Each year we throw away over 40 million tons of e-waste, wasting an estimated US\$ 50 billion in economic value. This massive waste come from an inability for global markets to develop effective supply chains for the precious metals trapped inside circuit boards and plastic.

Taiwan has ample experience turning trash into treasure. From 1998 to 2015 Taiwan increased its recycling rate from 5% to more than 60%, generating billions of dollars in revenue every year. During that same period waste production went down 1.14kg per person per day to 0.43, a massive improvement. This success came from government support, industry innovation, and the creation of an entire recycling supply chain.

Now, the Urban Mining Alliance wants to replicate the success of traditional waste management in the world of electronic waste. Composed of a number of companies, this alliance aims to reduce costs in their supply chain and identify strategic opportunities to benefit the entire network. From source to disposal, the network has members at every stage of the supply chain.

Production – Hydroionic Waste Water Treatment

You may not be aware but the production of computers contaminates water with various metals. The Hydroponic waste water treatment system collects metals from the waste water, reducing disposal costs and salvaging material to be re-used. Stopping pollution at its source nets huge benefits for the public and business.

Collection and Sorting - Dafong smart recycling

Collecting e-waste and managing its transfer and proper disposal challenges many countries. Dafong's smart recycling centers aims to professionalize and stream line recycling services. In many countries, the elderly have the burden of recycling waste, these smart recycling centers aim to provide the support structure they need to support incomes without harming human health. Taiwan earned high marks in recycling from community support, empowering communities yet again to tackle e-waste will help unlock higher value from waste streams.

Material Recovery – U Win

Collecting the precious metals from e-waste can be costly, polluting and energy intensive. The new U-Win disposal technology uses a liquid to strip away any valuable metals without using acids or high temperatures. Reducing the costs of recycling, both environmental and financial, increase the benefits of metal recovery and helps close the loop on e-waste recycling.

Waste disposal - Great Asian Machinery Corporation

Plastic helps computers remain light and functional. Unfortunately, it's very difficult to recycle this plastic into other products. However, GAMs technology refines this waste plastic into cleaner burning diesel fuel. In industrial clusters this means disposal and energy production can happen at the same place!