



FOR IMMEDIATE RELEASE

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To Whom It May Concern:

Gloyd Recycling Solutions, LLC. (GRS) in partnership with Archimedes Industry Advisory and Investments (AIAI) are happy to release information on their Battery-In-Device-Shredder system, model 23 (BIDS23). The intent of the new system is to disrupt the recycling industry by addressing thermal incidents, down-time, and production value issues where it matters...in the warehouse.

A July 2021 EPA report found, "...that there were more than 240 fires caused by lithium-ion batteries at 64 facilities between 2013 and 2020. The most common sources identified were batteries from small consumer devices, including cell phones, tablets, laptops, hoverboards, and e-cigarettes." The actual number of thermal incidents far exceeds these reports. Many of these fires cause facility and vehicle damage, create operational down-time issues, and put staff safety at risk. Lost revenue and increased cost can easily add hundreds of thousands of dollars in expenses.

Currently, loose mixed batteries and batteries-in-devices are regularly managed by electronic scrap (e-scrap) recycling organizations. These facilities manually sort batteries by chemistry and regularly hand sort mixed devices in an attempt to find batteries inside of equipment. Once found, the batteries are removed by hand (sometimes at great difficulty), wrapped or taped, and stored in pails next to thousands of pounds of other batteries. Every step in the process is a production cost and adds to facility safety risks. Once a warehouse develops an inventory of ten to fifteen tons of batteries, they are shipped to large scale battery recycling operations. These operations often reject batteries-in-devices and prefer larger format batteries.

After over two years of research and engineering, GRS and AIAI have developed a system that solves warehouse production issues, production down-time, and risks of battery related fires. The BIDS23 systems is the first to market battery shredding unit designed for individual warehouse applications. It is compact, easy to install, simple to operate, and will manage the typical volume of hard-to-manage items received at most facilities. The system is delivered to your warehouse in a 'plug and play' configuration. Feed stock is mechanically separated into a plastic fraction, metal fraction, and black mass. A wet scrubber ensures zero emissions and no need for external emission permitting or water discharge.

BIDS23 System designed by GRS, LLC. Sales, implementation, and management provided by engineering firm AIAI, LLC. For more information, view our website [www.bidsgrp.com](http://www.bidsgrp.com) or contact [BIDS@aiaigrp.com](mailto:BIDS@aiaigrp.com)

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