

Urban Mining: Recovering Critical Materials for a Clean Supply Chain



This Photo by Unknown Author is licensed under CC BY-SA-NC

- At Ziehl Abegg, we are addressing the significant environmental and operational challenges associated with traditional e-scraping methods. Our innovation, an advanced heating solution, uses precise temperature control to efficiently detach Printed Circuit Board Assemblies (PCBAs) from aluminum stators. This process reduces the need for manual labor and overcomes the limitations of existing equipment, which cannot reach the necessary temperatures for effective potting material removal.
- Our solution not only streamlines the separation process, reducing labor costs and processing time, but also enables the recovery of valuable materials such as gold, silver, and copper. This contributes to a more sustainable and efficient recycling value chain, lowering environmental degradation and carbon emissions. By reintegrating recovered materials into our supply chain, we provide a reliable source of conflict-free materials, enhancing economic viability and supporting community growth through job creation and training programs.