

REACT (Recycling E-Scrap with Adaptive Capacity Technology)

The **overarching goal** of REACT is to pilot and demonstrate our patented process for the selective recovery of critical and valuable materials including *ferrous* (Fe, Co, Ni, Mn), *Al*, *Cu*, *PM* (Au, Ag, and Pd), and *plastic*.



Phase I – Incubate



Unit process optimization



Preliminary TEA-LCA



Conceptual process flowsheet

Phase II – Prototype



Design fabrication and testing



Refined TEA-LCA



Unit selection
Turnkey process engineering
& mechanical design

Phase III – Demonstrate



Equipment procurement and installation



Demonstration testing



Product validation
Detailed TEA-LCA
Permitting plan

The increasing volume of e-scrap, coupled with evolving regulations, heightened environmental awareness, and the economic potential of critical material recovery, presents a timely opportunity for innovative and scalable solutions.

Our approach will enable recyclers to target the recovery of both critical and valuable elements, beyond just bulk metals, and unlocking new revenue streams, as well as creating new market opportunities for high-quality plastics.

