

360° Recycling Strategy

PowerON Will Analyze Your Product, Identify Potential Sustainability Opportunities, and Implement Initiatives.



SAMPLE PROGRAM

Targeted Removal

PowerON's team targeted specific components from qualified BER mobile devices for removal. Functional testing was performed on the components to confirm condition, and readiness for reuse.

Repurpose

The tested components were then used to manufacture new products. This method of supplying the components avoids the challenges that are associated with sourcing required RREs and conflict metals.

Recycling

PowerON is a R2:2013 Responsible Recycling certified company. We work with trusted downstream partners to ensure the proper handling of all end of life material leaving our facility. We are committed to both the environment and our communities.

Mining, refining, and recycling of Rare Earths have serious environmental consequences if not properly managed.

Rare Earth Elements (REEs) are critical to the manufacturing of consumer electronics such as laptops, desktop computers, tablets, and mobile phones. The Chinese monopoly on the market and the challenges associated with mining REEs, has fueled interest in recycling the metals from used electronic devices as an alternative source. This approach comes with it's own unique set of challenges, as many devices contain less than one gram of valuable REEs, and are designed in such a way that the metals are difficult to separate from other components. Once they have been removed, the REEs have to be separated and purified and must be combined with other materials to create usable products.

Rare Earth Elements (REEs)

- Sc - Scandium
- La - Lanthanum
- Pr - Praseodymium
- Pm - Promethium
- Eu - Europium
- Tb - Terbium
- Ho - Holmium
- Tm - Thulium
- Lu - Lutetium
- Y - Yttrium
- Ce - Cerium
- Nd - Neodymium
- Sm - Samarium
- Gd - Gadolinium
- Dy - Dysprosium
- Er - Erbium
- Yb - Ytterbium

Conflict Metals

- Sn - Tin
- Au - Gold
- Ta - Tantalum
- W - Tungsten