

Why is eSCO here?

- Subject matter expertise in sustainable handling of e-Waste
- Current program has proven unsustainable
- Desire to participate in crafting a statewide solution for Arkansas

Our Qualifications:

- eSCO currently processes over 2,000 tons of e-waste monthly
- Proven capacity to build solutions on a national or global level
- We have over a hundred years of combined experience managing e-Waste.
- Current footprint in Arkansas is scalable
- We create markets for the reuse of whole devices and components

Our Goals:

- Join 25 other states in adopting e-Waste legislation
- Build local circular economies
- Retain value of recycled materials within Arkansas
- Improve health and safety for Arkansans
- Create economically sustainable model

Why focus on e-Waste?

e-Waste is the fastest growing waste stream in the world.

- EPA estimates annual global generation of over 45,000,000 tons
- Includes every-day items and is ever changing:
 - Desktops
 - Laptops
 - Tablets
 - Keyboards/Mice
 - TVs/Monitors
 - Servers
 - Routers
 - Switches
 - UPS
 - Gaming Devices
 - Scanners
 - Phones
 - Printers
 - Copiers
 - Hard Drives
 - Speakers

DEQ Permits:

- Large Quantity Generator – Universal Waste
- Small Quantity Generator – Hazardous Waste
- No Exposure Stormwater Exemption Permit

Industry Certifications:

- e-Stewards Standard for Responsible Recycling and Reuse of Electronic Equipment Version 3.0:2017
- R2:2013 – The Responsible Recycling Standard for Electronics Recyclers
- ISO 14001:2015 (Environmental Management System)
- ISO 45001:2018 (Occupational Health and Safety Management System)

The Bad News:

- **Only an estimated 12% of the e-Waste stream is being recycled.**
 - E-waste represents 2% of landfill volume
 - 70% of hazardous material in landfills is linked to e-Waste
 - Lead, Mercury, Arsenic, Cadmium
 - Cathode Ray Tube TVs and Monitors are still in the waste stream
- Current state-funded programs collected 6,000 tons in 2018 for recycling
 - Approximately 46,000 tons entered our landfills/ecosystem

The Good News:

- Economic and environmental benefits outweigh the costs.
- Each 1,000,000 lbs. of e-waste:
 - Yields approximately 338,000 lbs. of high value recycled metals
 - Diverts 29,000 pounds of toxic metals
 - Reduces carbon emissions by 1,394,000 lbs.
 - EPA estimates that recycling 1 million laptops saves the electricity used in 3,657 homes each year
- CRT TVs and Monitors are eventually going away
 - Last CRT manufactured on June 27th, 2012

E-Waste is 100% Recyclable.

- Reuse and recycling of e-Waste can:
 - Provide affordable devices to schools
 - Quality refurbished laptops are 1/3 the cost of new
 - eSCO STEM Initiative leverages public-private partnerships to provide free computers to students
 - Create local jobs
 - eSCO employs over 70 Arkansans
 - Keep value of recycled devices in Arkansas

Why don't we do it?

- Inconvenience to consumer
- Public awareness is not aligned with severity of the problem
- Costs associated with lower value and hazardous materials
 - Cathode Ray Tubes, plastics, peripherals (keyboards, mice, etc.)
- Logistics
 - Collection and transportation of e-Waste is difficult

What's the solution?

- Statewide legislation to address growing problem
- Leverage Public/Private partnerships for collection and transportation
- Offset costs of collection with revenue from higher value material

ARKANSAS POPULATION MAP

(Arkansas 2017 population: 3,004,279)

