

E-Waste Squad Launches Network to Manage AI-Driven Surge in Enterprise Electronics Recycling

E-Waste Squad expands hubs to recycle AI GPUs, servers & corporate IT—ensuring secure, sustainable end-of-life management.

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EINPresswire.com/ -- E-Waste Squad, a

Greenville, S.C.-based provider of

[enterprise electronics recycling](#) and

secure data destruction services, has

announced expanded logistical hubs across the Southeast and strategic partnerships to address the accelerating end-of-life cycle of AI infrastructure and traditional corporate IT assets.



E-Waste Squad Logo

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The rapid evolution of artificial intelligence is reshaping data center operations and, in turn, the volume and complexity of electronic waste entering the recycling stream. According to the United Nations Global E-waste Monitor 2024, only 13.8 million metric tons of the 62 million metric tons of e-waste generated globally each year is formally documented and recycled—a rate of just 22.3%. As AI adoption intensifies, high-performance computing hardware is reaching obsolescence faster than ever, creating new challenges for sustainability, data security, and supply chain resilience.

“AI is not just a software revolution—it’s a hardware revolution,” said Armen Vartanyan, Founder of E-Waste Squad. “The same GPUs and servers powering large language models and inference workloads are being cycled out in 12 to 36 months under extreme thermal and operational stress. Meanwhile, corporate IT refreshes, office downsizing, and regulatory compliance continue to drive demand for responsible [recycling of computers](#), laptops, and networking equipment. The convergence of these trends represents both an environmental imperative and a business

opportunity.”

The AI Hardware Lifecycle: A New Frontier in E-Waste

High-performance GPUs such as the NVIDIA H100, H200, and Blackwell series—critical for training and running foundation models—operate at power draws exceeding 700 watts per unit and utilization rates of 60–70% in production clusters. Industry reports indicate these components typically reach end-of-service in 1–3 years in AI environments, compared to 3–5 years for traditional rack-mounted servers from Dell, HPE, or Supermicro. [Recycling GPUs](#) will become one of the largest sustainability factors likely for the next 10 years or more.

A 2024 analysis from the Uptime Institute found that approximately 25% of data center operators replace server infrastructure annually, with another 25% cycling hardware every four to five years. However, AI workloads accelerate this timeline dramatically. Meta’s Llama 3 training cluster, for example, experienced nearly 30% GPU failure rates over a 54-day training run at moderate utilization. As hyperscalers and enterprises upgrade to next-generation silicon, decommissioned AI hardware enters the waste stream at unprecedented scale.

This surge compounds an already growing challenge: corporate and enterprise electronics recycling. Large-scale office cleanouts—driven by hybrid work policies, tech sector layoffs, and routine asset refresh cycles—are generating millions of obsolete laptops, monitors, printers, and peripherals annually. Sectors such as healthcare, finance, education, and manufacturing face strict compliance requirements under HIPAA, SOX, FERPA, and GDPR, necessitating verified data destruction and chain-of-custody documentation.

E-Waste Squad’s Integrated Response: From AI Clusters to Office IT



GPU & Server Racks



E-Waste Recycling

E-Waste Squad has positioned itself as a full-lifecycle partner for both AI infrastructure decommissioning and standard enterprise e-waste management. The company adheres to R2 (Responsible Recycling) guidelines through vetted downstream partnerships and maintains NAID AAA certification for data destruction services.

The company operates primary service hubs in Greenville, S.C., and Atlanta, Ga., with expansions into Charleston, S.C., Raleigh, N.C., Huntsville, Ala., and Miami, Fla.—strategically located near emerging AI and data center corridors. Nationwide coverage is enabled through partnerships, including Precision E-Cycle for Midwest operations.

“Location matters when you’re moving palletized server racks or truckloads of corporate laptops,” Armen noted. “By building regional hubs near tech growth centers, we reduce transport emissions, speed up response times, and ensure compliance at every step.”

Beyond AI: The Foundation of Enterprise E-Waste Recycling

While AI hardware garners headlines, the backbone of E-Waste Squad’s operation remains corporate and enterprise electronics recycling. Organizations undergoing digital transformations, mergers, or facility closures often face surplus inventories of functional but outdated equipment. Many qualify for no-cost removal when material volumes support downstream recovery value.

Services are tailored to industry-specific needs:

- Healthcare: HIPAA-compliant wiping and destruction of medical devices and EHR-connected hardware
- Finance: SOX and PCI DSS-aligned data sanitization with audit trails
- Education: FERPA-compliant disposal of student and staff devices
- Manufacturing: Secure retirement of industrial PCs, PLCs, and IoT sensors

A Closed-Loop Vision for the AI Era

E-Waste Squad advocates for a circular economy approach to AI infrastructure. Recovered metals from decommissioned GPUs and servers can re-enter semiconductor supply chains, reducing reliance on virgin mining. The company is exploring pilot programs with chip manufacturers and data center operators to establish take-back frameworks for end-of-life AI hardware.

“Most people see a retired GPU and think ‘waste’ - we see a resource. With proper handling, today’s H100 becomes tomorrow’s raw material for the next generation of computing.”

As global e-waste generation is projected to reach 82 million metric tons by 2030—growing five times faster than formal recycling capacity—companies like E-Waste Squad play a pivotal role in closing the loop between innovation and responsibility.

For organizations planning AI cluster upgrades, office relocations, or routine IT refreshes, E-Waste Squad offers complimentary consultations and customized recycling plans. Volume-based programs often include free pickup and processing for qualifying assets.

About E-Waste Squad

Headquartered in Greenville, South Carolina, E-Waste Squad provides compliant, secure, and sustainable electronics recycling and data destruction services to enterprises nationwide. The company follows R2 Responsible Recycling guidelines through certified downstream partners and holds NAID AAA certification for data sanitization. With expanding hubs in Atlanta, Charleston, Raleigh, Huntsville, and Miami, E-Waste Squad supports AI data centers, corporations, healthcare systems, financial institutions, and educational organizations in achieving zero-landfill outcomes and regulatory compliance.

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