

# Do chemical energy storage batteries cause pollution

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Scientists have uncovered a new source of hazardous "forever chemical" pollution: the rechargeable lithium-ion batteries found in most electric ...

However, Duke professor Lee Ferguson and colleagues discovered the production and disposal of many of these batteries are a troubling source of toxic chemical contamination.

When paired with currently reported contaminants, the new generation of energy storage devices may prove a challenging case for the proper management of waste streams to ...

Rechargeable lithium-ion batteries in EVs, smartphones, laptops, and other devices could be a growing source of PFAS pollution, new research ...

Secondly, environmental impacts arise throughout the lifecycle of battery storage systems, from raw material extraction to end-of-life disposal. Key issues include resource depletion, greenhouse gas ...

Additionally, the energy-intensive nature of battery manufacturing exacerbates the environmental footprint of these essential energy storage devices. Beyond greenhouse gases, ...

Each year consumers dispose of billions of batteries, all containing toxic or corrosive materials. Some batteries contain toxic metals such as cadmium and mercury, lead ...

While they are a means of moving the world towards sustainable energy usage (such as wind and solar energy), there are associated environmental impacts of traditional lithium extraction ...

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