Lithium ion battery is used in

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If you have equipment that cannot stop running, pick up a lithium-ion battery. This includes medical and life-support devices, computer systems, security systems, communications needed during natural and man-made...

Lithium-ion is the most popular rechargeable battery chemistry used today. Lithium-ion batteries power the devices we use every day, like our mobile phones and electric vehicles. Lithium-ion batteries consist of...

Electric vehicles and charging stations, uninterrupted power supplies, wind and solar energy storage, solar street lights, telecommunications systems, and aerospace and military equipment are just some of the use...

Lithium-ion (Li-ion) batteries are used in many products such as electronics, toys, wireless headphones, handheld power tools, small and large appliances, electric vehicles and electrical energy storage systems. If not properly managed at the end of their useful life, they can cause harm to human health or the environment.

The increased demand for Li-ion batteries in the marketplace can be traced largely to the high "energy density" of this battery chemistry. "Energy density" means the amount of energy that a system stores in an amount of space. Lithium batteries can be smaller and lighter than other types of batteries while holding the same amount of energy. This miniaturization has allowed for a rapid increase in the consumer adoption of smaller portable and cordless products.

There are two types of lithiumbatteries that the U.S. consumers use and need to manage at the end of their useful life: single-use, non-rechargeable lithium metal batteries and re-chargeable lithium-polymer cells (Li-ion, Li-ion cells).

Additionally, if the battery or electronic device that contains the battery is disposed of in the trash or placed in the municipal recycling bin with household recyclables such as plastic, paper or glass, it may become damaged or crushed in transport or from processing and sorting equipment, creatinga fire hazard.

Li-ion batteries, or those contained in electronic devices, should therefore be recycled at certified battery electronics recyclersthat accept batteries rather than being discarded in the trash or put in municipal recycling bins.

EPA recommendation: Find a location to recycle Li-ion batteries and products that contain Li-ion batteries using one of the suggested links; do not put them in the trash or municipal recycling bins.

Li-ion batteries in electronics:Send electronic devices containing Li-ion batteries to certified electronics recyclers, participating retailers and recyclers in electronics takeback services or contact your local solid waste

or household hazardous waste collection program for more options.

Li-ion batteries that are easily separated from the product (e.g., power tools):Find a recycling location near youto properly dispose of Li-ion batteries. Send individual batteriesto specialized battery recyclers or retailers that are participating in takeback services or contact your local solid waste or household hazardous waste program for more options.

Handling precautions: Place each battery or device containing a batteryin a separate plastic bag.Place non-conductive tape (e.g., electrical tape) over the battery"s terminals. If the Li-ion battery becomes damaged,contact the battery or device manufacturer for specific handling information.Even used batteries can have enough energy to injure or start fires. Not all batteries are removable or serviceable by the user. Heed battery and product markings regarding safety and use.

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