

Are lithium ion batteries a good choice for construction sites?

There has been a "huge increase" in the use of Lithium-ion (Li-ion) batteries on construction sites, the speakers said. The batteries come in all shapes and sizes and are used in a range of equipment, such as drills, dumpers and excavators.

Are lithium-ion batteries dangerous for construction sites?

Speaking at the High Rise Construction Fire Safety Conference held alongside FIREX in London last month, Matthew Pearce and Andy Lack from Skanska outlined the hazards of Lithium-ion batteries on construction sites. There has been a "huge increase" in the use of Lithium-ion (Li-ion) batteries on construction sites, the speakers said.

Are Li-ion batteries a fire risk?

Industry guidance has recognised the risk of Li-ion batteries, and there are new provisions on them in both Fire Safety in Construction (HSG 68) and the Joint Code of Practice on the Protection from Fire of Construction Sites and Buildings Undergoing Renovation.

Is it illegal to put a lithium-ion battery on the market?

It is an offence to place a lithium-ion battery on the market if it is not a safe product. The Office for Product Safety and Standards (OPSS), as the UK's national product regulator, and Local Authority Trading Standards, have powers to enforce the GPSR and there are sanctions, including criminal sanctions, for those that do not comply.

What is a lithium-ion battery?

1.3 'Lithium-ion battery' should be taken to mean lithium-ion battery packs supplied for use with e-bikes or e-bike conversion kits, incorporating individual cells and protective measures that are intended to be charged either with the e-bike or separately.

Are batteries causing fires in construction & waste industries?

Fires caused by these types of batteries are becoming more frequent in the construction and waste industries, with 46% of fires in the waste industry attributed to them. There can be several hundred to a thousand Li-ion batteries on site, not to mention e-bikes and scooters.

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September 22, 2022: UK legislators have been urged to back draft legislative proposals that could see lithium ion battery storage sites designated as "hazardous" -- and subject to tough new fire safety and planning controls.

They are extremely sensitive to high temperatures. Heat causes lithium-ion battery packs to degrade much faster than they normally would. If you completely discharge a lithium-ion battery, it is ruined. A lithium-ion battery pack must have an on-board computer to manage the battery. This makes them even more expensive than they already are.

The increasing use of lithium-ion batteries on construction sites necessitates a proactive and informed approach to fire safety. By adhering to current safety standards, implementing specialised lithium-ion battery fire ...

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Li-ion batteries are the fastest growing rechargeable battery segment; it is estimated that global output is set to increase from just below 200GWh in 2019 to between 1,100GWh and 2,000GWh by 2030. The availability of sufficient ...

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