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Hazards of Lithium-Ion Batteries in BESS (Battery Energy Storage Systems)

The known difficulties of keeping Lithium-based BESS batteries from catching fire, exploding, & emitting dangerous toxic gasses as they burn, are well known & documented.

Though Lithium BESS contractors / installers claim protective improvements have been made, Lithium grid-scale batteries are still subject to thermal runaway (catching fire)â€”and for some stunningly simple, commonly-occurring reasonsâ€”battery aging; battery manufacturing defects; over-charging or over-discharging; mechanical abuses that may happen in packaging the batteries (e.g., cracked casing), assembling them into modules, and installing them; maintaining the batteries on racks; thermal abuse (overheating, overcooling).

We should NOT be using Lithium-ion batteries for BESS, but instead, use safe alternatives.

Source: Close, J., Barnard, J., et. al., â€œA Holistic Approach to Improving Safety for Battery Energy Storage Systems,â€ May, 2024, Journal of Energy Chemistry, Vol. 92, pp 422-439.