

Salt River Project Codes and Standards related to Energy Storage



Codes and Standards related to BESS

2019 wrapped up the latest editions of these documents:

<u>2021 IFC</u>

2021 IRC, IBC

2020 NFPA 855

Internation Fire Code

International Residential Code

Better alignment between the requirements in IFC, IRC and NFPA 855

Options for large scale fire test per UL9540A

More detailed requirements on where BESS can be placed in Residential Structures

Reference to items needing to be Listed to UL 9540 First Edition of the Standard was issued without scope due to questions regarding conflicts with NESC C2

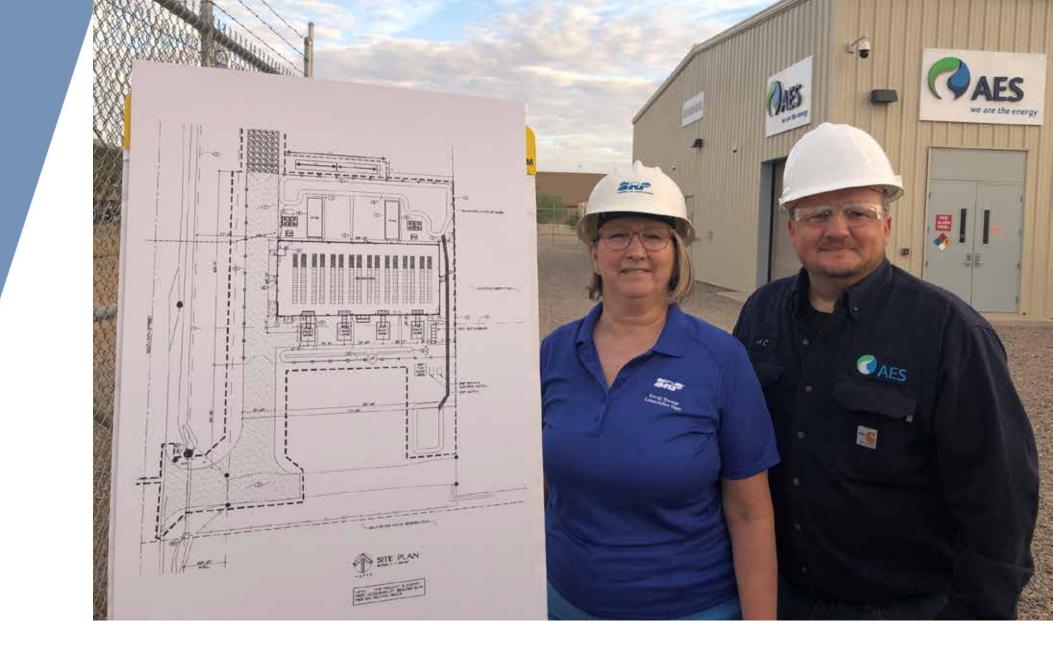
> Good Reference Document



Code Changes of Interest:

2021 IRC – Section 327 – Energy Storage Systems – Kept exception for "repurposed unlisted battery systems from electric vehicles" Kept UL 9540 listing and labeling requirements 2021 International Energy Conservation Code (IECC) – Added definitions of EV Supply Equipment (EVSE) EV Capable Space and EV Ready Space 2021 IECC Section 404.2 and 2021 IRC Section 1104.2 New construction shall facilitate future EVSE 1 and 2 family dwellings shall provide 1 EV Ready Space Complete with a branch circuit labeled EV Ready Multi-family units shall provide spaces: 2-10 units -> 2 EV Ready 11-15 units -> 2 EV Ready and 3 EV Capable 16-19 units -> 2 EV Ready and 4 EV Capable 20-25 units -> 2 EV Ready and 5 EV Capable 26 + units -> 2 EV Ready and 20% of total parking spaces EV Capable 3







LITHIUM ION BATTERY STORAGE FACILITY AES BATTERY ENERGY STORAGE FACILITY EMERGENCY CONTACT AES ROC 760-660-6435



Delivering water and power™

Pre Incident Planning – Training on Site



Understanding the hazards and planning the response

Is someone inside?

First action – Shut off the power? Do we have adequate signage to know what to shut off, and what will cut off our eyes and ears?

SME's Readily Available?



Partnering with local first responders



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