

### 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

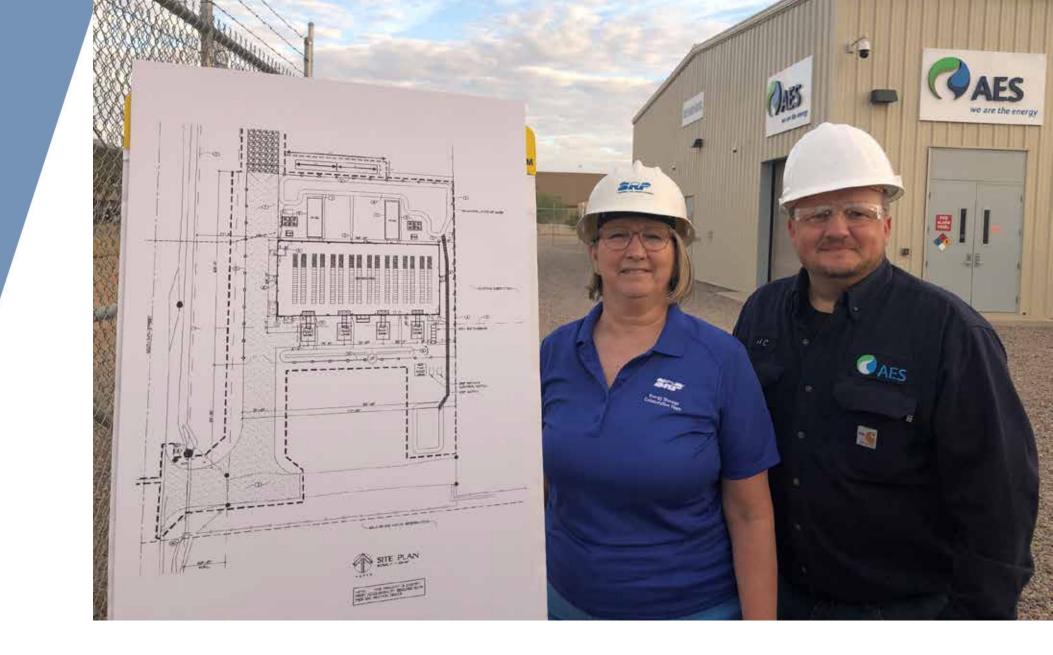
> Good Reference Document



**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







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#### 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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