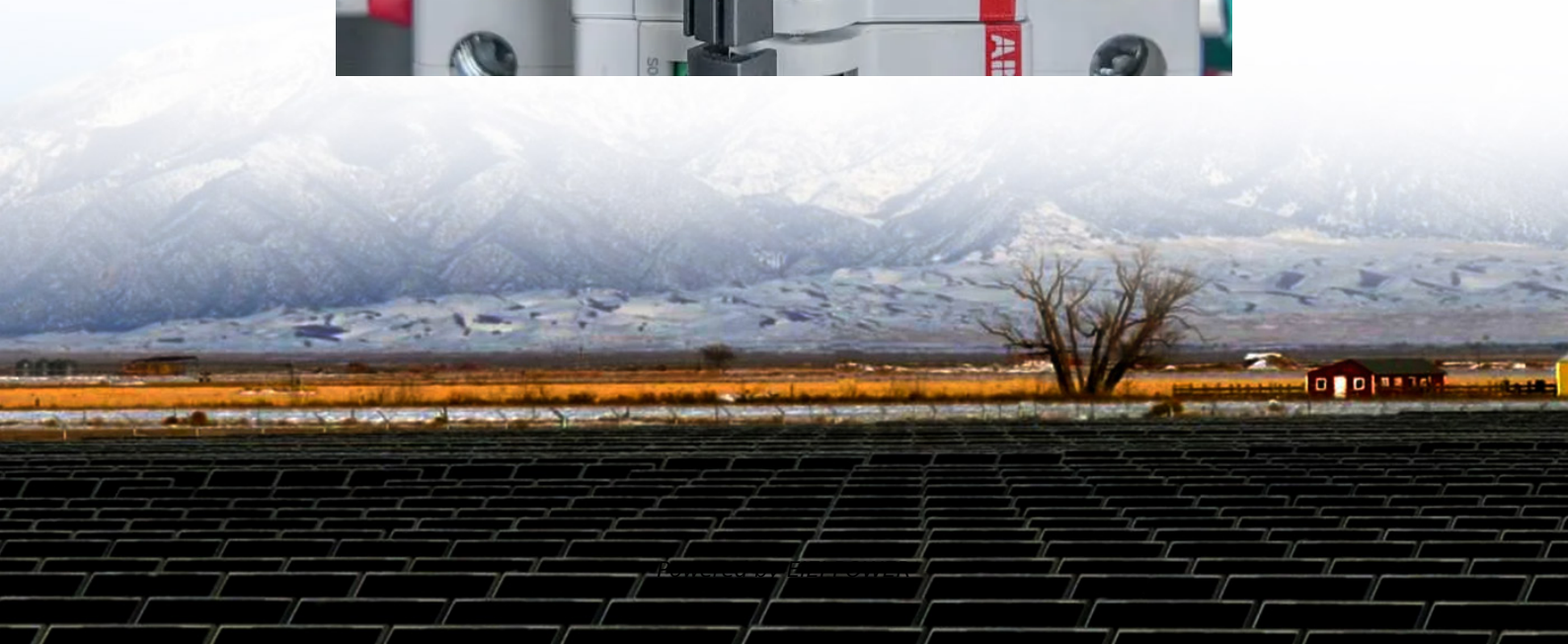


Arc flash switchgear in China in Congo





Overview

Are arc flash and arc-flash studies a safety concern?

Arc-flash and arc-flash studies are also clarified. This White Paper also highlights a safety concern when HV/MV switchgear fails catastrophically, particularly oil-filled switchgear assembly. Within IEC Standards, HV switchgear are used on systems above 1 kV up to 52 kV. In North America MV is any voltage between 600 V and 69 kV.

Are arc-flash sensors safe?

Sensors available in the market today detect light from an arc-flash inside switchgear very quickly, typically less < 100 ms, and trip the incoming supplies to the switchgear. Some concern has been expressed whether the sensors fail safe. North American Arc resistant testing standards are defined by ANSI/IEEE C37.20.7.

How to evaluate arc rated switchgear in Canada?

Canada use CSA C22.2 No. 0.22-11 "Evaluation methods for arc resistance rating of enclosed electrical equipment" to evaluate internal arc rated switchgear. Internal arc type testing is very important to reduce the risk of exploding switchgear.

Does switchgear have an internal arc type test?

When IEC 62271-200 was implemented in 2003, if switchgear was internal arc tested, the main MV compartments were tested, i.e. the switching, busbar and connection compartments. It is also a common misnomer that the internal arc type test is mandatory. The internal arc type test is an optional test within IEC 62271-200.



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[What is Arc Resistant Switchgear and How it ...](#)

In order to mitigate the harmful effects of arc flashes, arc-resistant switchgear prevents, reduces, and directs worker equipment away from arc flashes.



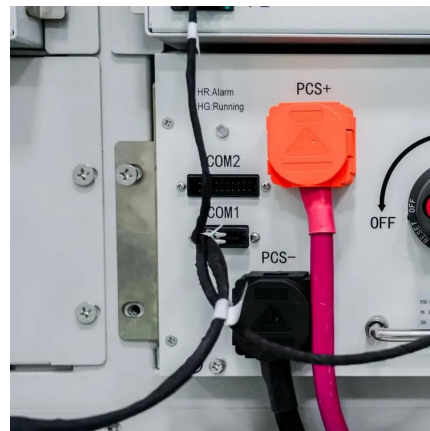
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Eaton provides arc flash protection and advanced safety systems for low-voltage switchgear, safeguarding your business and employees from unnecessary risk

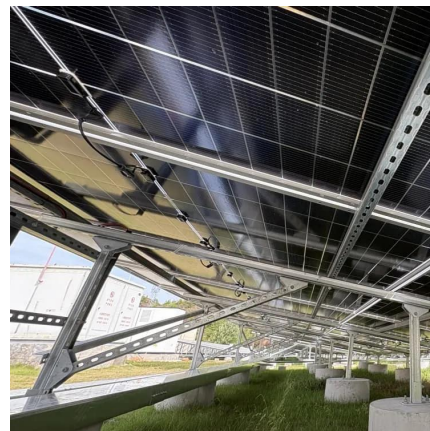


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