

Medium voltage service

## Asset upgrade Circuit breakers retrofit



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## **Technical solutions**



## Benefits

Circuit breaker retrofit is a cost-effective switchgear modernization solution. The result is a noticeable improvement on reliability, safety, maintenance and performances. ABB is a full system provider, from the proposal and design, through the manufacturing and testing, up to the installation and commissioning. Both ABB and non-ABB installed base can be addressed.

This concept gets most of the benefits of the roll-in retrofit, but the reuse of some parts result in a more cost effective solution. It requires additional inspection and testing activities to ensure those parts will not compromise the equipment reliability. Manufacturing and logistic constraints can also be critical aspects

Active Standards compliance is one of the key elements when designing and testing replacement breakers. This methodology allows to exchange the original device without the extended downtime required for the switchgear replacement. Higher performances and additional features can also be targeted.



Roll-in replacement example.

This product family includes a range of solutions supporting the switchgear upgrade when additional constraints are in place:

- other parts than the breaker (shutters, interlocks, etc.) need to be replaced;
- the original panel design does not allow to meet today required features and Standards.

This solution balances the need for a retrofill solution with reasonably limited site works and linked outage. OneFit is the latest ABB hard-bus retrofill design concept, embedding an integrally safe plug-in technology to easily connect the new breaker to a wide range of existing panels.

The time and effort of emptying the compartment and arranging it to fit the new cassette is offset by providing a modern, reliable and interchangeable solution. The relevant longer downtimes must be considered when choosing this option.



Hard-bus retrofill: ABB OneFit design.



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