MVDC circuit breaker

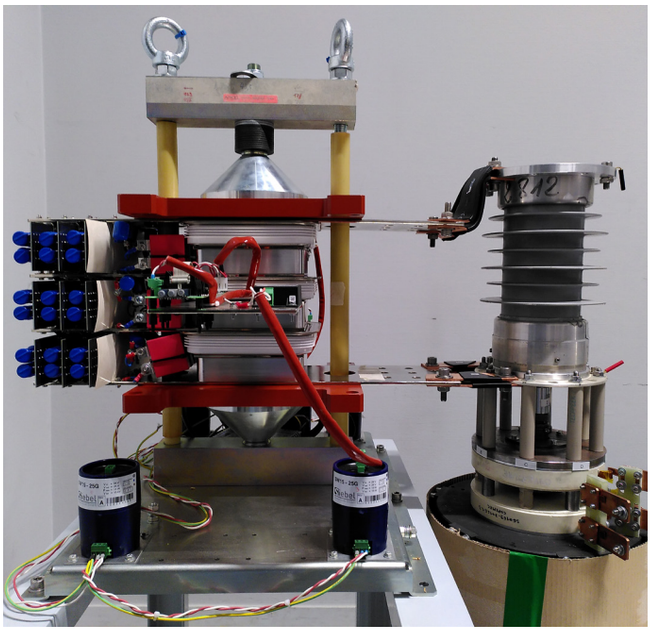
Introducing our breakthrough HyBreak technology

SuperGrid Institute develops and markets technologies & services for our clients to meet tomorrow's demands and to support your future growth.

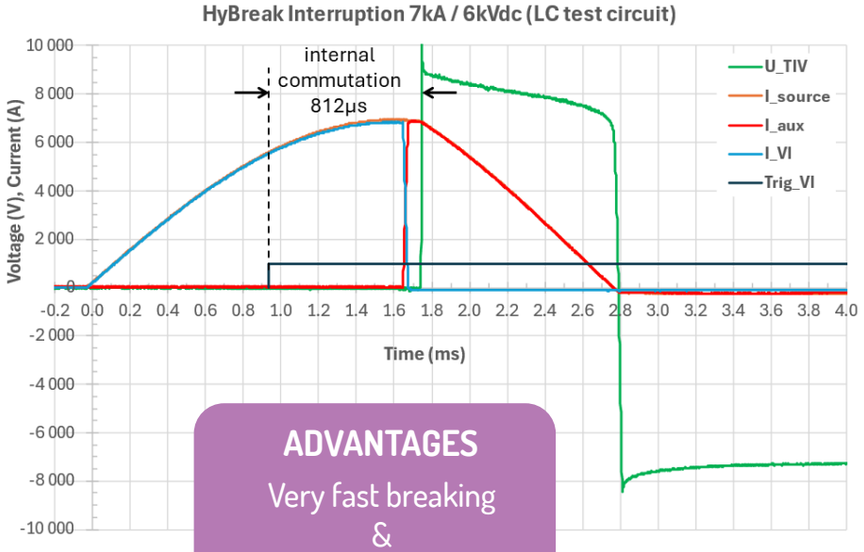
HyBreak technology is a hybrid breaking solution using both solid-state and mechanical breaking components.

This Medium Voltage Direct Current Circuit Breaker is composed of IGBT semiconductors, and a vacuum interrupter associated with an ultra-fast actuator.

Drawing on our research experience and expertise in the high-voltage domain, we have developed a hybrid solution with an electromagnetic actuator which allows us to open the vacuum interrupter very quickly, in a few hundreds of microseconds. From this action, the current commutates to the series-connected IGBTs which in turn divert the current into the voltage limiters. After the absorption of the circuit's magnetic energy the current is interrupted.



BREAKING PERFORMANCE



ADVANTAGES

Very fast breaking
&
Negligible power losses

Find out more, visit our website
www.supergrid-institute.com

CONTACT

For additionnal information or to ask for a quote, please contact:
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