EconiQ gas circuit breaker technology

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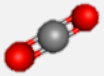
LTA

For LTB application, we are using CO_2 + O_2 to replace SF_6 in all LTB applications for insulation and switching.

Eco-efficient gas mixture



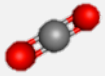
CO_2
Carbon dioxide

O_2
Oxygen

Metal Enclosed (MEB)

An eco-efficient gas mixture of CO_2 + O_2 + C4-FN (a synthetic gas) replaces SF_6 in all our metal-enclosed switchgear (GIS, DTB, PASS) for insulation and switching.

Eco-efficient gas mixture



CO_2
Carbon dioxide

O_2
Oxygen

C4-FN
Fluorinated nitrile

The EconiQ gas circuit breaker remains as compact as the conventional SF_6 solution.

Hitachi Energy

EconiQ high-voltage roadmap: Advancing a sustainable energy future for all

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EconiQ high-voltage portfolio		Available now	2025	2026	2027 and beyond
Live tank circuit breaker (LTB)		72.5 kV; 145 kV; 420 kV			245 kV; 170 kV
Dead tank circuit breaker (DTB)		420 kV; 550 kV	72.5 kV** 145 kV**	245 kV	
Plug and Switch System hybrid switchgear (PASS)			72.5 kV 145 kV		
Gas-insulated switchgear (GIS)		72.5 kV* 145 kV*; 420 kV; 550 kV		245 kV	170 kV
Gas-insulated line (GIL)		420 kV; 550 kV		245 kV	
Retrofill for GIL (Service)		420 kV; 550 kV			

* 60 Hz will be available in 2025 | ** 63kA

This roadmap contains forward-looking information which are based on our current best expectations, estimates and projections. We reserve the right to make changes without prior notice.

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