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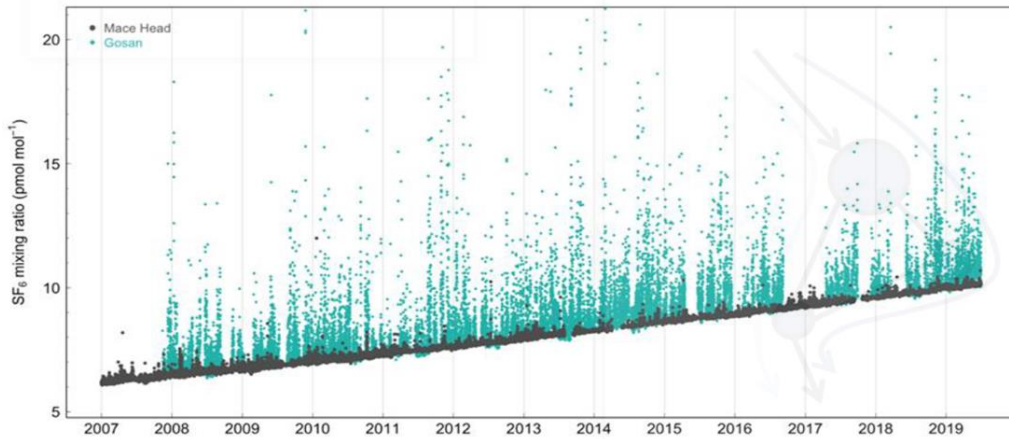
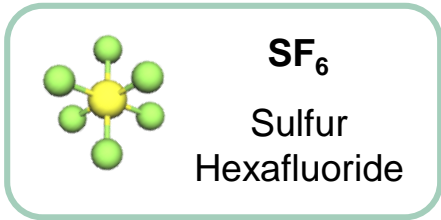
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Eliminating SF₆ with scalable high voltage switchgear

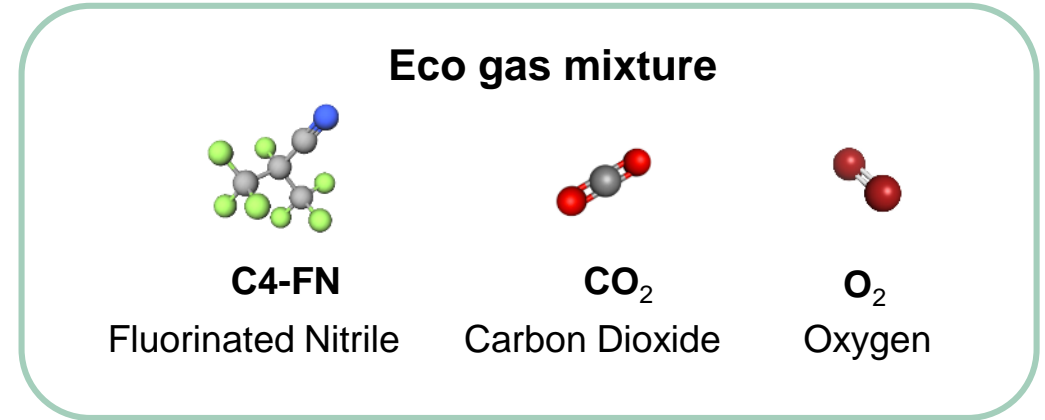
Christian Ohler, Hitachi Energy

KEMA Labs Webinar, 17 March 2022

EconIQ high-voltage portfolio eliminates SF₆



Sources: IPCC AR6 (2021), Simmonds (2020)



- Always used as a mixture
- Essentially eliminates CO₂ equivalent emissions related to the insulation gas
- Delivers the lowest CO₂ footprint of the equipment

- Compact and scalable to all voltages
- Retains the best of gas insulation and gas circuit breaker technology

Contribution to warming today

0.22%

Atmospheric concentration

10 parts per trillion
(260'000 tons)

Annual rise

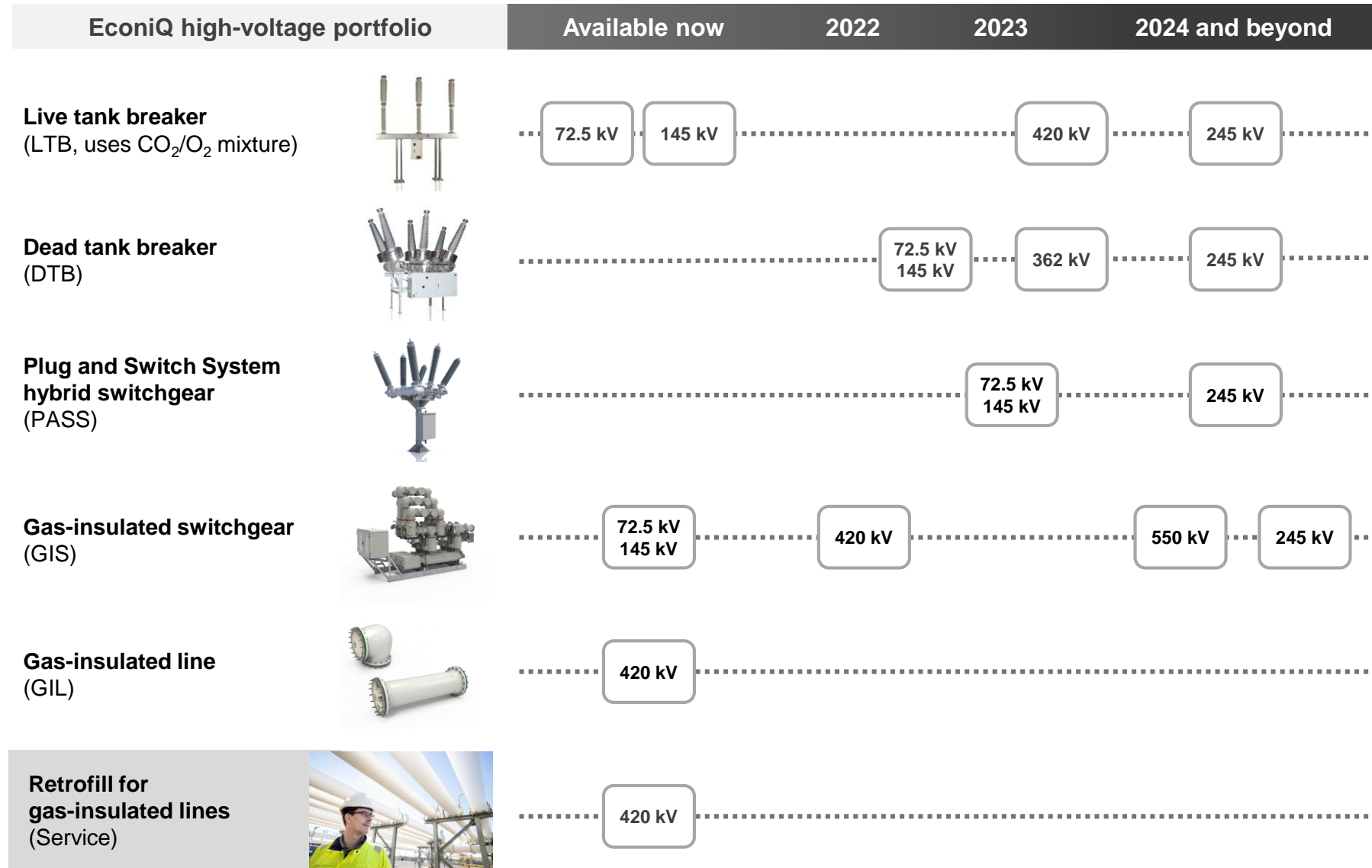
0.3 parts per trillion
(8'500 tons)

Quantity in installed equipment

200'000 tons

EconIQ™ High-voltage roadmap

A game-changing technology that eliminates sulfur hexafluoride (SF₆) with reliable and scalable solutions for the lowest carbon footprint.



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. ABB is a registered trademark of ABB Asea Brown Boveri Ltd. Manufactured by/for a Hitachi Power Grids company

Gas handling for EconiQ Gas-insulated switchgear (GIS)

Monitor

Sensor



Analyze

C4-FN analyzer



Detect

Leakage Detector



Mix*

(C4-FN + O₂ + CO₂) is mixed from its components

© Air Liquide / Laurent Lelong



Service: Fill, recover, refill

Gas is handled with Dilo service cart



Dispose

Recycling or incineration





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