



Carey Bylin,  
Director,  
California Air Resource Board,  
1001 I Street, Sacramento, California 95814.

27<sup>th</sup> August 2019

Dear Ms. Bylin,

Siemens wishes to inform you that we support amending CARB's existing regulations governing Sulphur Hexafluoride emissions from gas insulated switchgear. Siemens made a statement in 2014 of its intention to be CO2 neutral across all businesses by 2030 and is well on the way to achieving this.

For Non SF6 applications, Siemens uses Clean-air technology with vacuum interruption (VI); this has a GWP of zero. In our view, this is the most sustainable solution possible. Siemens has used VI for over 40 years, and in high voltage applications since 2010. Clean air insulation has been in service in high voltage switchgear since the 1970's.

Please find below our SF6-free High Voltage Product release schedule for Gas Insulated Switchgear and Dead Tank Breakers. We look forward to working with CARB and all California utilities on these exciting changes.

## Clean Air Portfolio & Roadmap – 60 Hz Circuit Breakers



Voltage	kA	Continuous I	Release Date
72.5 kV LT	40 <u>kA</u>	3150	Achieved
72.5 kV DT	40 kA	3150	2020
145 kV DT	40 kA	3150	2020
145 kV DT	63 kA	3150	2024/5
245 kV DT	40 kA	3150	On demand
245 kV DT	63 kA	4000	On demand

**Clean Air Portfolio & Roadmap –  
60 Hz GIS**



Voltage	kA	Continuous I	Release Date
72.5 kV Wind	31.5 <u>kA</u>	1250	Achieved
145 kV	40 kA	3150	Achieved
145 kV	50 kA	3150	2021
245 kV	50 kA	4000	On demand

Sincerely

Paul Roskilly

Systems Engineering Manager  
Transmission Products  
Siemens Industry Inc.