

1 February 2024

Towards net-zero emission of T&D grids



Rijkswaterstaat Ministerie van Infrastructuur en Waterstaat



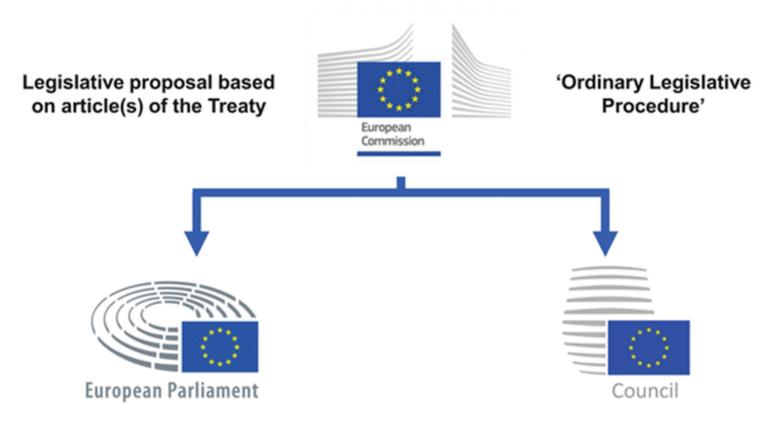
Martijn Hildebrand







Treaty on the Functioning of the EU



Parliament and Council must agree. Council always acts by qualified majority.



EU passes F-gas revision at first reading

16th January 2024





Quote

Rapporteur <u>Bas Eickhout</u> (Greens/EFA, NL) said: "We've reached an ambitious deal that would put an end to F-gases. This is crucial, not only because these gases are extremely harmful for the climate, but we are also providing clarity for companies and thereby investment certainty. We are breaking the endless cycle of new chemical cocktails that risk dragging technologies like heat pumps and switchgear – which are key for our energy transition – into the PFAS-debate. European companies are already at the forefront of developing clean alternatives to F-gases, so this law will be good for the climate and the European economy."







- Council of the EU
- 29/01/2024 09:51 | Press release |
- Fluorinated gases and ozone-depleting substances: Council greenlights new rules to reduce harmful emissions



Service ban virgin SF6

- 2035
- Exemptions:
 - technical grounds
 - emergency repair
- Inform competent authority



Putting into operation prohibitions

2026	MV	≤ 24 kV
2030	MV	24 ≤ 52 kV
2028	HV	52 ≤ 145 kV
2032	HV	>145 kV



Exemptions

- Out of operation at A into operation a B
- Procurement & cascading principle:
 - < GWP 1000
 - 2 years after dates
 - no bids or only bids from one manufacturer
 - > GWP 1000
- Eco-design (Directive 2009/25) established lower lifecycle emissions
- Order before entry into force (evidence)
- Extend existing (prevent replacement)
- Repair/ servicing \rightarrow parts (conditions type FGAS, increase GWP/ amount)



Conditions – quid pro quo

- Keep documentation 5 years
- Make it available upon request:
 - competent authority
 - Commission
- Notify when derogation is applied



Official Journal of the European Union



English edition

Legislation

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About Consortium

New EU project will remove potent climate gas from power grid components

MISSION, a new EU-project, will develop and demonstrate three new SF6-free switchgear components.

The development of SF6-free switchgear is becoming increasingly important. SF6 (sulphur hexafluoride) is the most potent greenhouse gas: 24 300 times worse than CO₂.

"There is a technology gap here that requires attention, and it's fortunate that we've secured funding for research in this area," says Atle Pedersen, the leader of the new EU project and research manager at SINTEF Energy. "To achieve the widespread electrification necessary for reducing global greenhouse gas emissions, we must enhance our systems to efficiently connect and transfer more renewable energy into the power grid, particularly from offshore wind sources."

EU project MISSION is an Innovation Action co-funded by the European Union through Horizon Europe.



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