Press Release

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Planet2050 and AlliedOffsets Investigate Financing of SF6 Mitigation via Carbon Markets

- **SF6 reduction reduces risks in both new and existing grids**
- **International carbon markets enable both the financing and implementation of climate protection measures**

Climate FinTech company Planet2050 and carbon market data specialist AlliedOffsets have published a joint report on the harmful greenhouse gas sulfur hexafluoride (SF6). The study highlights technical options for emission reduction and illuminates the conditions under which international carbon markets could finance corresponding climate protection measures.

At today's specialist event hosted by Planet2050 and MasterGrid in Dubai, Planet2050 and AlliedOffsets presented their report "SF6, the Hidden Giant Among Super-Pollutants". The focus was on monitoring and reducing SF6 emissions from electrical equipment as well as potential financing approaches via international carbon markets.

SF6: A Long-Term Climate Risk for Power Grids

Sulfur hexafluoride is used in electrical switchgear due to its insulating properties. According to the report, its warming potential over 100 years is around 24,300 times stronger than that of CO2. The gas can remain in the atmosphere for more than 3,000 years.

Experts from GIZ and RE-xpertise presented various future scenarios. These studies were funded by the International Climate Initiative. Globally, SF6 emissions are expected to rise continuously without targeted measures. The huge amount of installed legacy equipment significantly drives this increase.

Digital Technologies Enable Targeted Emission Reduction

Modern technologies offer practical solutions for effective greenhouse gas reduction. Highly sensitive thermal imaging cameras reliably detect SF6 leaks in real time. Specialized sealing solutions from MasterGrid permanently close existing leaks. IoT-based monitoring systems from WIKA measure emissions continuously. These

systems assist energy utilities in the early detection of leaks. Gas-insulated equipment can thus be maintained and serviced in a targeted manner. Both DEWA and TAQA Transmission attended the event.

Carbon Markets as a Potential Financing Pathway

The report examines how verifiable SF6 emission reductions could be financed via carbon credits. According to the authors, 19 SF6 mitigation projects have already been implemented under the Clean Development Mechanism (CDM) of the Kyoto Protocol. Article 6 of the Paris Climate Agreement could open up new opportunities for international cooperation. Prerequisites are reliable emissions data and independently verifiable results.

"Reducing SF6 emissions is both a technical and a financing challenge. When we can reliably measure and verify emission reductions, we create the basis to mobilize targeted capital for climate protection measures in existing power grids," explains Lucas Zaehringer, CEO of Planet2050.

For further information on this topic, see the blog article at
planet2050.earth/blog/dubai-sf6

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About Planet2025

Planet2050 is an internationally active climate FinTech. The company connects high-quality carbon projects with the capital market. To achieve this, Planet2050 builds the required financial, data, and market infrastructure. At its core is the PlanetHub. The digital platform scales global carbon avoidance and carbon removal projects.

The company curates and finances promising climate projects. Both technology-based and nature-based methods are focused. These include techniques such as biochar, afforestation, and sustainable agriculture. Digital measurement methods (dMRV) monitor every climate project in the portfolio transparently for all stakeholders regarding actual carbon removal. Planet2050 consistently implements its capital market strategy. A direct listing on the stock exchange is planned for 2027. Trading admission remains subject to timely approval. The direct listing offers an exclusive window to enter the booming carbon market. Further information is available at www.planet2050.earth

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