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GB/T 44915-2024

Technical specification at the project level for assessment of greenhouse gas emission reductions - Greenhouse gas and wastewater treatment and waste recycle

基于项目的温室气体减排量评估技术规范 废气废水处理及废渣回收

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part

1.Structure and drafting rules for standardization documents" Drafting. Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents. This document was proposed by the Ministry of Ecology and Environment of the People's Republic of China. This document is under the jurisdiction of the National Technical Committee on Carbon Emission Management Standardization (SAC/TC548). This document was drafted by: China Quality Certification Center Co., Ltd. and China National Institute of Standardization. The main drafters of this document are. Zhang Lixin, Nie Xi, Zhu Hailei, Yang Ming, Bai Wei, Zeng An, Wang Xiaoxia, Wang Zhenyang, Hong Dajian, Zheng Xianyu, Tang Chunchao, Chen Xiaolu and Shang Huining. Technical Specifications for Project-Based Greenhouse Gas Emission Reduction Assessment Waste gas and wastewater treatment and waste residue recovery

1 Scope

GB/T 44915-2024 is the Chinese project-level methodology for assessing greenhouse gas emission reductions from waste gas and wastewater treatment and waste recovery projects. It is the technical substance behind carbon credits in five specific activities, and each of its five normative annexes is a full methodology in its own right: reducing SF6 insulating gas in the power grid; replacing SF6 with alternative cover gases in magnesium casting; using biomass waste as a raw material; catalytically decomposing N2O in the ammonia oxidation furnace of a nitric acid plant; and treating industrial wastewater. Three of those target gases with global warming potentials in the thousands, SF6 at over twenty thousand and N2O at nearly three hundred, which is why projects on them yield credits out of all proportion to their tonnage. The body of the standard sets the general emission reduction assessment process, and each annex then gives the applicability conditions, the baseline scenario, the project boundary, the monitored parameters and the calculation of

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baseline, project and leakage emissions for that activity. It applies to the assessment of greenhouse gas emission reductions from project activities of these five kinds.

This document specifies the emission reduction projects of sulfur hexafluoride SF6 (hereinafter referred to as SF6) in the power grid, the use of magnesium metal casting process, Projects to replace SF6 with other protective gases, projects to use biomass waste as raw materials, and projects to catalyze the separation of N2O in ammonia oxidation furnaces of nitric acid production enterprises. The process of evaluating the greenhouse gas emission reductions of wastewater treatment projects and industrial wastewater treatment projects. This document is applicable to the reduction of SF6 emissions from insulating gas in power grids, the use of other protective gases to replace SF6 in magnesium metal casting processes, and the use of biomass waste gas in the process of Greenhouse gas reduction from projects such as waste used as raw materials, catalytic decomposition of N2O in ammonia oxidation furnaces of nitric acid production enterprises, and industrial wastewater treatment Displacement assessment.

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2 Normative references

The contents of the following documents constitute essential clauses of this document through normative references in this document. For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to This document.

GB/T 32150 General principles for accounting and reporting of greenhouse gas emissions from industrial enterprises

GB/T 32151.2 Greenhouse gas emissions accounting methods and reporting requirements Part

3 Terms and definitions

The terms and definitions defined in GB/T 32150, GB/T 32151.2 and the following apply to this document.

3.1 Greenhouse gas The natural and human-caused gases in the atmosphere that absorb and emit radiation from the Earth's surface, atmosphere, and clouds. The gaseous component of radiation waves with wavelengths in the infrared spectrum. [Source: GB/T 32150-2015, 3.1, modified]

3.2 Baseline scenario baseline scenario A hypothetical scenario that might occur if the project is not implemented, used to provide a reference. [Source: GB/T 33760-2017, 3.4]

3.3 Project Activity Relevant measures or actions taken in the project to reduce greenhouse gas emissions.

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3.4 The calculated reduction in greenhouse gas emissions generated by a project over a certain period of time compared to the emissions in the baseline scenario. [Source: GB/T 33760-2017, 3.5]

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