

BUREAU OF INDIAN STANDARDS

DRAFT FOR COMMENTS ONLY

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भारतीय मानक मसौदा

कार्बन डाइऑक्साइड कैप्चर - भाग 1: एक विद्युत संयंत्र के साथ
एकीकृत दहन के बाद CO₂ कैप्चर के लिए प्रदर्शन मूल्यांकन
विधियाँ

Draft Indian Standard

CARBON DIOXIDE CAPTURE – PART 1: PERFORMANCE
EVALUATION METHODS FOR POST-COMBUSTION CO₂
CAPTURE INTEGRATED WITH A POWER PLANT

ICS 13.020.40

Environmental Management Sectional Committee, CHD 34

Last date for Comments: 20 June 2024

NATIONAL FOREWORD

(Formal clause shall be added later)

This Standard specifies method for measuring, evaluating and reporting the performance of post-combustion CO₂ capture (PCC) integrated with a power plant, and which separates CO₂ from the power plant flue gas in preparation for subsequent transportation and geological storage. In particular, it provides a common methodology to calculate specific key performance indicators for the PCC plant, requiring the definition of the boundaries of a typical system and the measurements needed to determine the KPIs.

This standard covers thermal power plants burning carbonaceous fuels, such as coal, oil natural gas and biomass derived fuels, which are producing CO₂ from boilers or gas turbines and are integrated with CO₂ capture.

The text of ISO Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

a) Wherever the words 'International Standard' appears referring to this standard, they should be read as 'Indian Standard'.

b) Comma (,) has been used as a decimal marker, while in Indian Standards, the current practice is to use a point (.) as the decimal marker.