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Toward a legal and policy framework for carbon capture and storage in Japan: Optimizing policy mix approach

The Carbon Capture and Storage (CCS) technology deployment has been widely considered as a crucial tool to contribute to reducing the large amount of the global carbon dioxide emissions created by the human society. In order to encourage large-scale deployment and/or commercial uses of CCS, it is essential to consider policy mix options and the best selections, especially for making greater cost efficiency and scaling up the further facilities for CCS deployment. The need for CCS is also varied depending on country and region. Despite the fact that there are many existing discussions about best selection of policy mix associated with selecting effective policy instruments in general, to date there has been little discussion on CCS specifically, due to the lack of experience in the field of industry. In this regard, this article specifically offers a potential analytical framework for policy mix approach to the future CCS deployment in Japan. Throughout this study, we have addressed a number of key instruments, which are considered and implemented in various countries, including the European Union, Canada, the UK, the US and Norway. This study also identified existing and potential policy instruments relevant to CCS deployment in Japan.

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