Security and Safety Assessment of the small-scale Offshore CO₂ Storage Demonstration Project in the Pohan Basin

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Portability of the demonstration project of CO₂ storage and the actual problems of it are introduced. The demonstration project is located at the 1100m depth on the Pohan Basin in the western part of the Yellow Sea. The project is expected to mitigate climate change and stabilize the sea floor. However, it is important to ensure the safety of the project and the feasibility of the technology used. Therefore, this paper discusses the safety assessment of the demonstration project and explains the actual problems that have been encountered during the project.

Safety Assessment of the Demonstration Project

The demonstration project is designed to store CO₂ in the seabed. The safety assessment of the project is based on various types of analyses, including a structural analysis of the storage tank, a leakage analysis of the pipeline, and an environmental impact analysis. The project is expected to mitigate climate change and stabilize the sea floor.

Actual Problems Encountered During the Project

During the project, several actual problems have been encountered. One of the major problems is the leakage of CO₂ from the storage tank. The leakage has been attributed to the corrosion of the metal used in the tank. The project team is working on solving this problem by improving the material used in the tank.

Conclusion

The demonstration project of CO₂ storage is expected to mitigate climate change and stabilize the sea floor. However, it is important to ensure the safety of the project and the feasibility of the technology used. Therefore, the safety assessment of the demonstration project is crucial. The actual problems encountered during the project should be addressed to ensure the success of the project.