

Carbon capture and sequestration

Abstract

In this chapter, a general overview of CO₂ capture technologies and sequestration will be presented. CO₂ capture and storage process has been viewed as a potential solution to achieve deep reduction of CO₂ from power plant flue gas. The goal of CO₂ capture technology is to separate the CO₂ from its sources in appropriate forms for transportation and sequestration. Once CO₂ is captured, it needs to be pipelines and stored securely and permanently. Therefore, the applicability of CO₂ capture technologies to power plants must be evaluated in a context of the total system including capture, transportation and storage.