



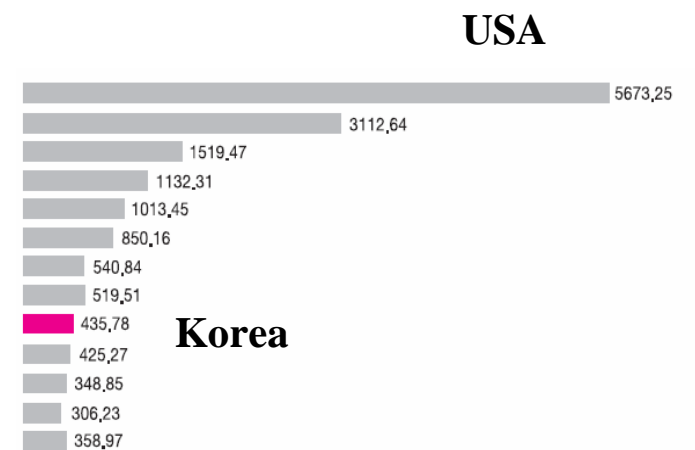
Carbon Capture and Storage Related Activities in Korea

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Introduction

- **Korea ranks the 9th largest GHG emitter in the world. (2003)**
- **Most of energy is imported. (> 97%)**
- **Korea is now within Non-Annex I Group**
- **Korea Government Efforts**
 - **“Inter-ministerial Committee for Climate Change” (Apr. 1998)**
 - Prime Minister (Chair)/8 ministries/3 agencies/NGO
 - **“The 1st National Initiative for Addressing Climate Change” (Feb. 1999)**
 - **“Special Congress Committee for Climate Change” (Mar. 2001)**
 - **“The 2nd National Initiative for Addressing Climate Change” (Mar. 2002)**
 - **“The 3rd National Initiative for Addressing Climate Change” (Mar. 2005)**



Unit: Million CO₂ ton (2003)

R&D Efforts for GHG. Reduction in Korea

- **Energy Saving and Efficiency increase**
 - Energy saving technology program
- **New and Renewable Energy**
 - New and renewable energy development program
 - Hydrogen energy R&D center
- **Carbon Capture and Sequestration**
 - CO₂ reduction & sequestration R&D Center
 - CO₂ ocean sequestration technology program

Carbon Capture & Sequestration Researches in Korea

- **Chemical-Looping Combustor – CLC**
- **Absorption Process (by wet absorbent)**
- **CO₂ recycle in PFBC**
- **CO₂ Capture by Dry Sorbent**
- **Adsorption – PSA**
- **Membrane**
- **Ocean Sequestration**