

## **DISPOSAL OF CARBONDIOXIDE IN MINERAL FORM**

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### **ABSTRACT**

Progress in developing methods of disposing carbondioxide in a safe and stable manners are discussed here. We are focussing on the use of mineral sepeentenites as the starting materials for CO<sub>2</sub> absorption. There are several advantages to our proposed method of permanent CO<sub>2</sub> disposal. The disposal waste products are safe and thermodynamically stable, and are common in nature. They are known to be environmentally benign and non-hazardous. The disposal does not pose any legacy problems for future generations, and does not require monitoring (unlike underground injection disposal methods). By confining waste disposal to a mining site, we minimize the environmental impact. Our solution is permanent and complete. The availability of this technology guarantees the continued use of fossil fuels as an energy source for centuries to come. The most important advantage of our proposed disposal method is its low cost as compared to other techniques. Preliminary experiments and analysis have indicated that we would be able to realize a cost of \$15US/tonne of CO<sub>2</sub>.