



Battelle
The Business of Innovation



Is there enough CO₂ storage capacity in the world?

Is it "in the right places"?

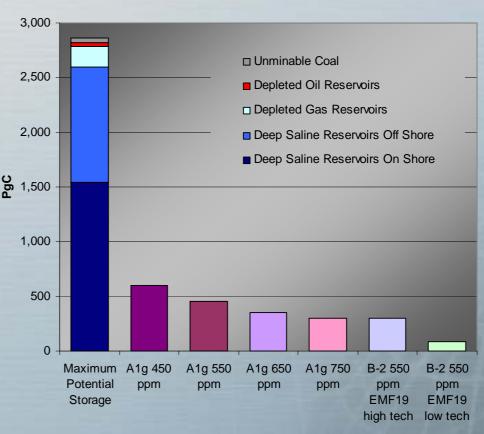
Projection of CO₂ Storage Demand Global 2000-2100



 For stabilization scenarios from 450-750ppmv, most integrated assessment models show a demand for no more than 600 GtC (2,220 GtCO₂) storage over the course of this century.

 Published estimates of potential storage capacity place the potential global geologic CO₂ storage capacity at approximately 3,000 GtC (11,000 GtCO₂).

 A broad portfolio of carbon management technologies will be needed to fulfill the UNFCCC stabilization goal.



Global CO₂ Storage Capacity A Very Heterogeneous Natural Resource





- Potentially 11,000 GtCO2 of available storage capacity
- •US, Canada and Australia likely have sufficient CO₂ storage capacity for this century
- •Japan and Korea's ability to continue using fossil fuels likely constrained by relatively small domestic storage reservoir capacity

- •~8100 Large CO₂ Point Sources
- 14.9 GtCO₂/year
- •>60% of all global anthropogenic CO₂ emissions

