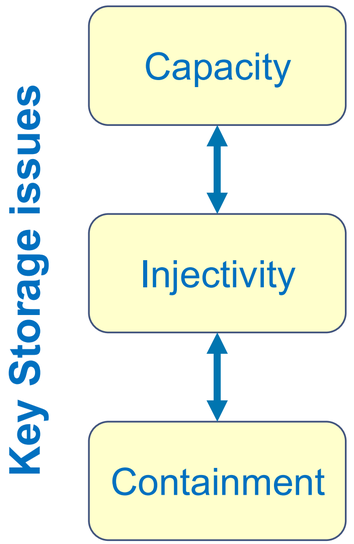
Geological Storage of CO_2

1. The basic concept is to store captured CO_2 underground in reservoirs that would otherwise contain water, oil or gas
2. We need to be deep (greater than 800m) to ensure CO_2 is in a dense form – the super-critical phase
3. These are also the depths where we are confident that natural gas has been trapped for millions of years
4. But the big questions are:
    - Where do we store it?
    - How much CO_2 can we inject?
    - Can we store it safely?
    - Can we store it cost-effectively?



from Philip Ringrose

Storage issues

- *Capacity* — is there room for the required CO2 storage volume over the project lifetime?
- *Injectivity* — will we able to inject the CO2 at a sufficient rate using the available injection wells?
- *Containment* — will the CO2 remain in the geological storage unit or could it migrate to another geological formation or even leak out?