



Written on 01 November 2007 15 minutes of reading News

- Fundamental Research
- Climate, environment and circular economy
- CO2 capture, utilization and storage
- Sustainable mobility
- IC powertrains
- Responsible oil and gas
- Fuels
- Basins and reservoirs modeling and simulation



The Grenelle Environment Forum has strengthened awareness of the need to cut emissions

of greenhouse gases and atmospheric pollutants.

This second issue of Science@ifp highlights scientific advances that will contribute to this. For example, lowtemperature combustion in the new diesel engines reduces both the fuel consumption and the particulates emissions of automotive vehicles. Again, the molecular modelling tools developed by IFP and its academic partners are contributing to knowledge of the phase equilibriums relevant to the storage of CO_2 in underground reservoirs.

As the other items show, in order to ensure a smooth energy transition, IFP also continues its work to improve oil technologies in exploration, production, and refining, which will remain essential to ensuring our energy supplies for a long time to come.

Philippe Ungerer, Scientific Director

Summary:

- Looking below diapirs
- **NMR** goes into the well
- Fluidized-bed reactors: optimizing the reaction zones
- Optimizing complex systems
- **Cut pollution** by controlling valves
- Thermodynamics: from nano to macro



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