







## Dias nummer 4

## PC1

Paul COLONNA; 07-08-2012



- Four major global issues ...
  - To meet the food needs of a world population of about 9 billion by 2050, some regional populations experiencing strong economic development
  - To control, limit and reduce the emissions of greenhouse gases (GHGs) in the atmosphere (*factor four from 1990 to 2050 in EU*)
  - To develop substitutes to fossil carbon (and its derivatives), whose reserves, for a given cost, will be increasingly scarce and environmentally critical
  - To increase the energy and overall resources efficiencies
- ... and related socio-economic, environmental and geopolitical issues
  - To promote regional energy independence
  - To initiate carbon neutral development
  - To develop agro-industry
  - To ensure the global sustainability (food production, global

environment, land use being at the crossroads)







