



COLOQUIOS PACO YNDURÁIN 2009/10
Departamento de Física Teórica

Miércoles, 24 de Febrero de 2010, 15 h.
Facultad de Ciencias, Sala de Conferencias Módulo 00

Energy Technologies and Sustainability

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Abstract: The global energy supply is largely dominated by the fossil fuels. But this energy supply structure is plagued by the limited nature of the sources and its serious environmental effects. In the time horizon of one or two generations, the energy landscape has to experience a drastic change towards less carbon or no carbon sources. I don't foresee one simple solution but a mix of renewables, new nuclear reactors and a cleaner use of coal. In all these cases, the available technologies are in a rather preliminary stage, so that more R+D work and a firm political will to change the present energy paradigm are needed.