

# FS1-3

## CO2 capture technology developments in Europe

Dr. Nanno Bolt  
KEMA , P.O. Box 9035  
6800 ET Arnhem, The Netherlands  
e-mail: [nanno.bolt@kema.com](mailto:nanno.bolt@kema.com); website : [www.kema.com](http://www.kema.com)

### Abstract

In December 2005 the European technology platform Zero Emission fossil fuel Power plants was launched. The ZEP vision is to enable European fossil fuel power plants to have zero emissions of CO<sub>2</sub> by 2020. The Platform consists of 6 power generators, 6 equipment manufacturers, 5 oil & gas companies, 5 research centers and 3 NGO's.

The approach of the ZEP is at 3 levels:

- modernisation of existing plants
- development of high efficiency plants
- development of new CO<sub>2</sub> capture and storage technologies

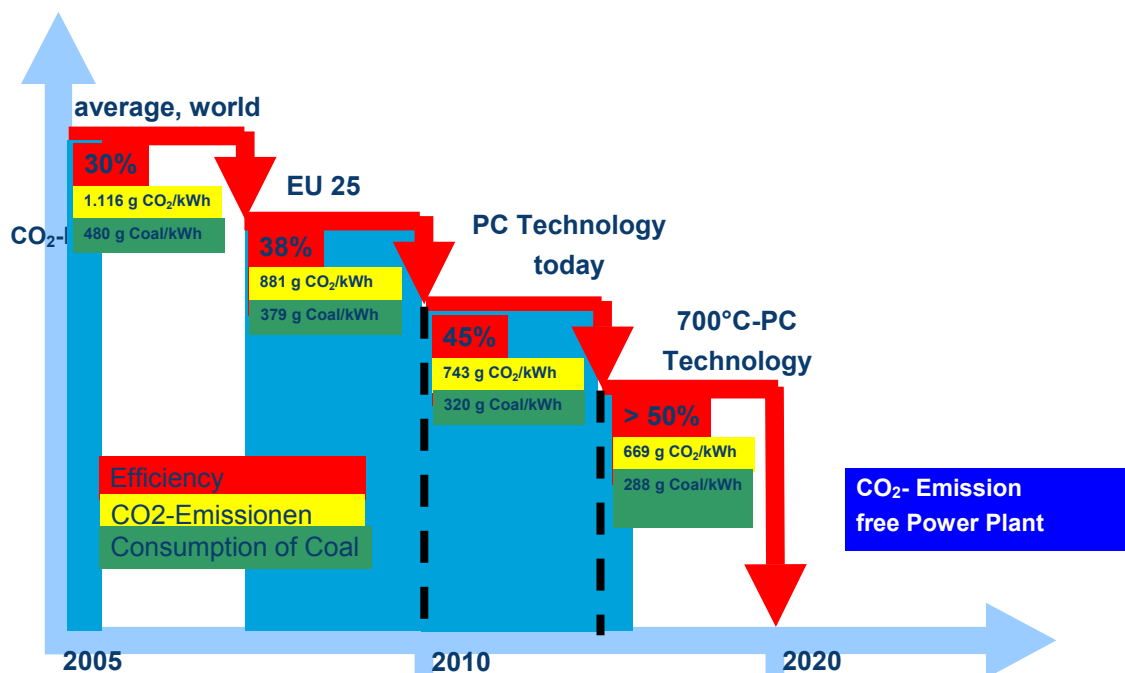


Figure 1. Efficiency enhancement & CO<sub>2</sub> reduction of coal fired power plants according to the ZEP approach

In the presentation the status of European demonstration projects will be elaborated, followed by the on going Carbon Capture & Storage research and developments.

### References

- [1] European Commission, *A Vision for Zero Emission Fossil Fuel Power plants*, 2006. ISBN 92-894-0545-7. <http://ec.europa.eu/research/energy>
- [2] ZEP, *Strategic Research Agenda*, September 2006
- [3] ZEP, *Strategic Deployment Document*, September 2006