

Presentation (40 minutes):

Tools for optimal coordination of CCS, power industry capacity expansion and bio energy raw material production and harvesting

2nd Annual EMISSIONS REDUCTION FORUM: - Establishing Effective CO₂, NO_x, SO_x Mitigation Strategies for the Power Industry, 29th & 30th September 2008 Madrid, Spain

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Abstract:

If we plan the future carbon capture and storage strategy, the power industry capacity expansion and bio energy raw material production and harvesting separately, we will never reach the best possible solution. Alternative approaches to the optimal coordination problem are presented. A new continuous time optimal control model is described and analyzed. The optimal time path of resource extraction is explicitly determined as a function of time dependent CO₂ storage revenues and other relevant parameters, including the time dependent parameters of the energy demand function.

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References:

<http://www.lohmander.com/Information/Ref.htm>

Software:

<http://www.lohmander.com/Program/Program.htm>

Conferences:

<http://www.lohmander.com/Kurser/Kurser.htm>