

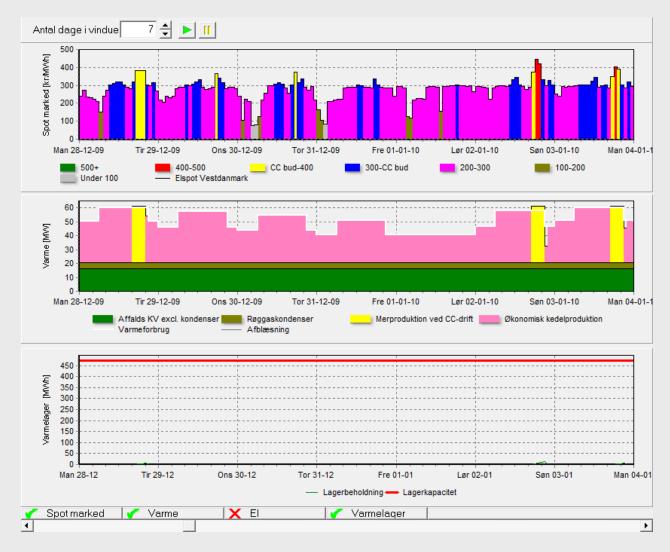
## 4DH First Annual Conference 03. October 2012

# Key knowledge about: Proactive participation of CHP, Waste to Energy plants and wind turbines themselves in the electricity markets

Anders N. Andersen, EMD International A/S



## Example of simulated operation in energyPRO of a week WITHOUT bypass at Sønderborg CHP-plant





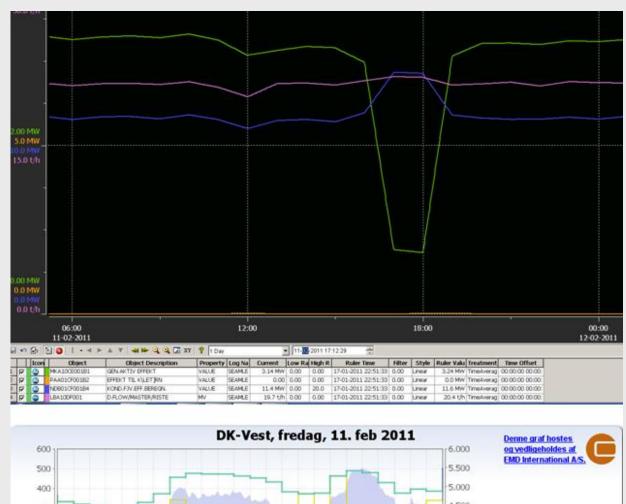


## Example of simulated operation in energyPRO of the same week WITH bypass at Sønderborg CHP-plant

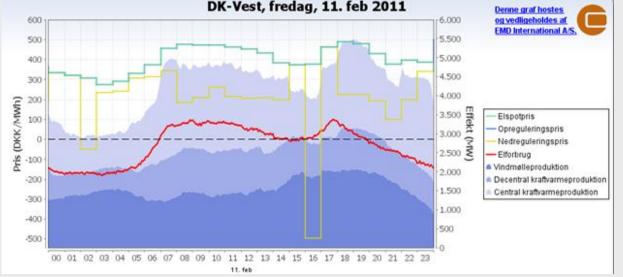






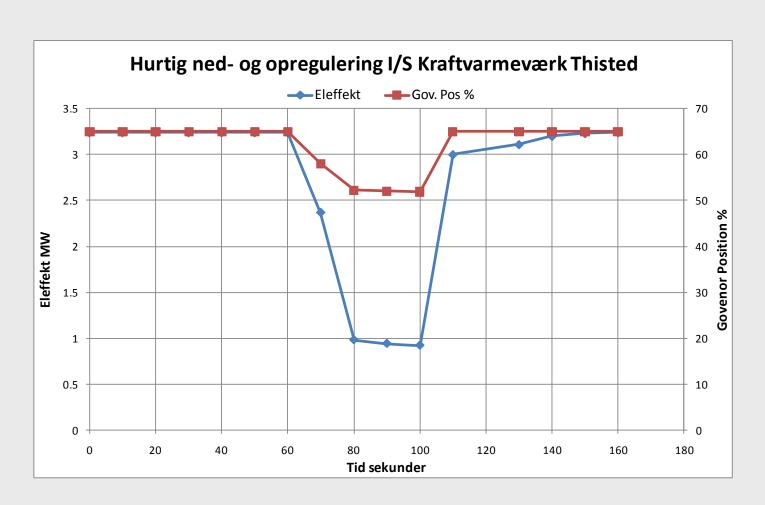


Thisted incineration CHP 11-02-2011





## Bypass is also able to be offered as 30 sec. Primary Reserve







## http://www.emd.dk/desire/Skagen/







Ε

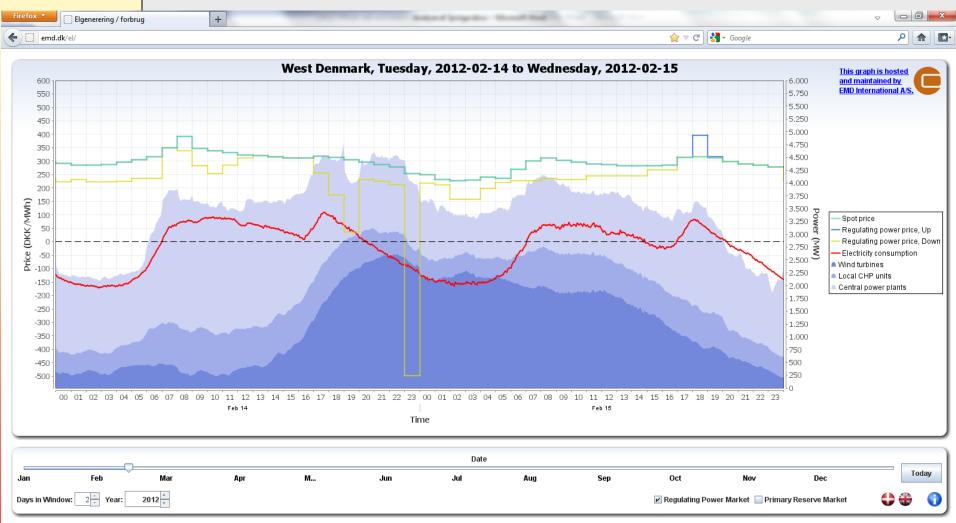


### We have in a research project made live test of the economic benefit for a 21 MW wind farm of offering downward regulation to the TSO

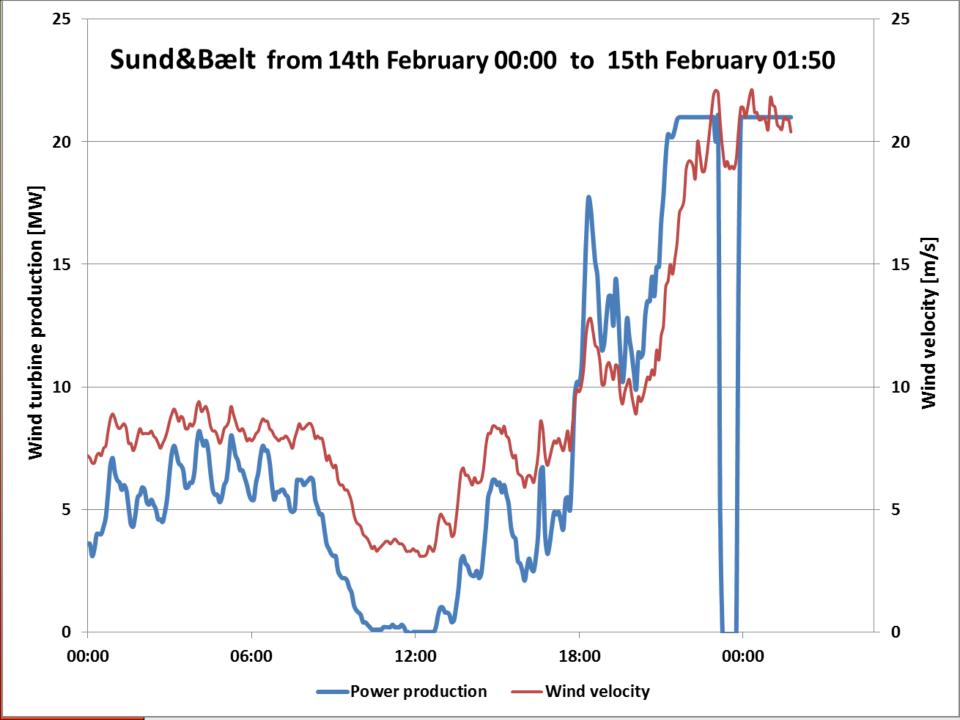




#### http://emd.dk/el/



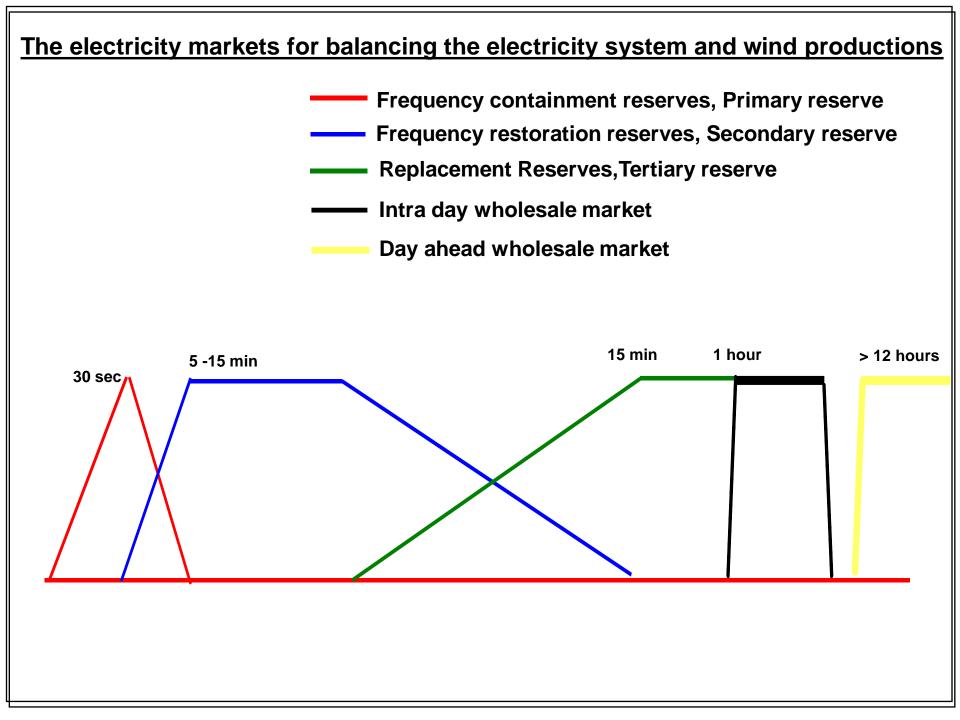






Thank you for your attention.





#### A typical challenge of balancing wind

