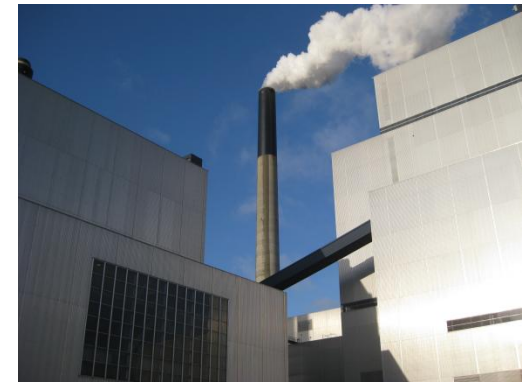


CEESA WP3



WP3 - Objectives

- Analyses of and recommendation for electric grids in future power systems with a focus on storage facilities/electric vehicles
- Analyses of and recommendation for the control architecture of future power systems
- Improved integration of system stability and short-term balancing considerations into the EnergyPLAN model

Interconnectors

- Three approaches
 - Interconnection as today including (hourly) trade
 - Interconnection as today but only for ancillary services / system balance
 - No interconnection – islanded system

Issues for WP report

- Three approaches
 - Incl costs (though investment probably overshadows costs the costs of making things intelligent – also costs of V2G wear of batteries)
- Other work in the field
 - Smart grids, Edison, NIKVE
- Role of consumption technologies
 - Power vs capacity considerations
- Role of production technologies
- 1h step vs smaller time scale
- (analyses)
- Roadmap

Work since last meeting

- Effects of storage systems on system behaviour
- Control strategies

Programme of presentation

Poul: Introduction

Jayakrishnan: Energy systems analyses on Bornholm

Kai: Control architecture of 100 % RE systems

Analyses, results, implications and future work