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Framework

Methodology:

- » Replicates the current market design in Germany with a 2-steps procedure:
 - a DA market without transmission constraints
 - a RT market with transmission constraints
- Considers different G&C scenarios for 2008 and 2020, for a given transmission network

Conclusion:

"Future redispatching costs tend to increase significantly due to higher wind generation and proposed power plants investments"

Discussion

<u>Assumption</u>: all generation units participating in the DA market are available for redispatching purposes!

- Level of "redispatchibility" of the German generation park?
 - Intermittency of wind Generation (20%)
 - » Distribution-connected Generation (50%)
 - » Redispatching 15 mns before RT
 - » Non mandatory participation

Future research?

- Minimum connection requirements for wind generation (enhance "controllability")
- Higher coordination requirements for system operators (data exchange, joint security analysis, TSOs-DSOs)
- More efficient congestion management methods (optimal use of the existing transmission network, XB redispatching, definition of zones)
- Higher coordination requirements for the Transmission infrastructures development (EU TYNDP)

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