

Electricity markets operation planning with risk-averse agents
Stochastic decomposition and equilibrium

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Propositions belonging to the dissertation

**Electricity markets operation planning
with risk-averse agents:
stochastic decomposition and equilibrium**

Nenad Jovanović

5th November 2019

1. Too many scholars overlook the computational challenge of CVaR constraints in stochastic optimization problems.
2. Obtaining a joint solution of a set of uncertain scenarios provides a good hedge for the real-time electricity market operation.
3. Knowing the influence of different agents' risk-averse levels is required for the everyday operation planning of its generation units.
4. A risk-neutral agent in a Nash-equilibrium electricity market game with risk-averse agents, will become a risk-seeker.
5. Having a higher level of risk-aversion than your competitors in wholesale electricity markets will bring higher payoffs.
6. The true notion of the Game Theory is that nobody plays against you, but they are just playing for themselves.
7. Getting to know the basics is crucial, as solutions to some complex problems can be found in books written decades ago.
8. Sacrifices in the short term provide high dividends in the long term.
9. Studying abroad teaches you that every grandmother prepares great meals and believes that their grandchildren do not eat enough.
10. Behind every successful optimization-modelling man, there is a successful decision-making wife.

These propositions are considered opposable and defendable as such have been approved by the promotor, prof.dr.ir. P. M. Herder.