

Review of diploma thesis

Title: **Modelling of electricity markets using an agent-based simulator**

Name of student: **BSc. Arturo Montes de Oca Zapiain**

The main task of an author of the diploma thesis should be the creation of an agent-based simulation model of international electricity markets. The student described electricity markets between the USA and Mexico very well, he understand market coupling techniques excellently. He analysed the possibility of the exploitation of agent based system for international electricity market modelling. Subsequently he prepared the model for USA-Mexico electricity trade. Unfortunately, I am not sure that the last item in diploma thesis assignment was fulfilled, this issue has to be discussed with his supervisor. In general his work shows a very good engineering competence of the author.

The formal aspect of the text is not very good. There are many spelling mistakes in the text, many sentences are very difficult to be understood. The text box on the page 37 cannot be fully seen.

Questions for the author:

1. Clarify your statement “Five of them are emergency interconnectors ...” on Page 28.
2. How you can implement more than 4% change in zonal PTDF matrix for Occidental zone in Figure 34?
3. Is the increase of interconnection capacity between USA and Mexico planned?

The final assessment of the diploma work is

– C good –

4. 2. 2020

Ing. Martin Beneš