**Bachelor thesis opponent’s review**

<table>
<thead>
<tr>
<th>Master thesis:</th>
<th>Study of Distribution Network Voltage Profile for the DER operation</th>
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<tbody>
<tr>
<td>Author:</td>
<td>Baptista Aldair Da Costa</td>
</tr>
<tr>
<td>Thesis opponent:</td>
<td>Doc. Ing. Zdeněk Müller, Ph.D.</td>
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**Rating (1 – 5)**
(1 = best; 5 = worst):

1. Fulfillment of assignment requirements: 1
2. Systematic solutions of individual tasks: 1-
3. Ability to apply knowledge and to use literature: 1-
4. Thesis formal and language level: 2
5. Thesis readability and structuring: 1-
6. Thesis professional level: 2
7. Conclusions and their formulation: 2
8. **Final mark evaluation (A, B, C, D, E, F):**
   verbal: C good

**Brief summary evaluation of the thesis (compulsory):**

The bachelor thesis concentrates on renewable energy sources with special attention to hydro power plants. Introductory part deals with overview of renewable energy sources technologies. The major part of the thesis consists of literature search and contain encyclopedic data.

The most important part is case study. The case study contain student original work. The study contain calculation of connection possibilities and reverse impacts on distribution network. Presented calculation results are credible.

The thesis is well formatted and readable. From the formal point of view there should be numbered list of references.

**Questions:**
1. Compare reverse impacts on distribution systems of hydro power plants and of photovoltaic power plants (power quality, short circuit power etc.).
Notes:
1) The total thesis evaluation needn’t be determined by the partial evaluations average.
2) The total evaluation (item 8) should be from the following scale:

<table>
<thead>
<tr>
<th>excellent</th>
<th>very good</th>
<th>good</th>
<th>satisfactory</th>
<th>sufficient</th>
<th>insufficient</th>
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<tbody>
<tr>
<td>A</td>
<td>B</td>
<td>C</td>
<td>D</td>
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