Report on Bachelor / Master Thesis

Institute of Economic Studies, Faculty of Social Sciences, Charles University

Student:	Šimon Otruba
Advisor:	Mgr. Lukáš Rečka, Ph.D.
Title of the thesis:	Introducing stochasticity into the energy system model Times-CZ - a reflection of a war-related extreme environment

OVERALL ASSESSMENT (provided in English, Czech, or Slovak):

Short summary

Šimon Otruba conducted a comprehensive bachelor thesis with a high added value. He worked independently with my support in form of consultations. Better time planning would allow to further increase the quality of the manuscript form.

Contribution

The thesis contributed to the state of the art of the energy modelling in the Czech Republic, namely to the development of TIMES-CZ model - a dynamic long term energy optimization model of Czech energy system (Rečka Máca and Ščasný, 2023). The thesis enhenced the energy economic model TIMES-CZ by a stochastic element. This allows us to use it in our future research. Although the contribution would be even better if the results would be disscussed more in detail.

Methods

The thesis combines time-series econometric methods and energy economic model TIMES-CZ. In order to write this thesis, student had to understand the model TIMES-CZ and its logic The econometric methods are applied for analyzes of the input data into the TIMES-CZ model. The standard TIMES-CZ model is extended by a stochasticity element. In my view, the applied methond would be adequite even for a master thesis.

Literature

The author demonstrates his full understanding and command of recent literature. He quotes relevant literature in a proper way.

Manuscript form

The manuscript is well structured. The thesis was finished in the last moment before the deadline. More time dedicated for the final profreading and formating would significantly improve the quality of the manuscript form. Overall academic writing could be improved. There are some repetivie parts mainly in the conclusion. Legens in some of the figures are too small and therefore hard to read.

Overall evaluation and suggested questions for the discussion during the defense

In my view, the thesis fully the requirements for a bachelor thesis at IES, Faculty of Social Sciences, Charles University, I recommend the thesis to be defended with grade 1 "excellent".

The results of the Turnitin analysis do not indicate significant text similarity with other available sources.

I suggest to focuss on the benefits of the stochastic verstion the TIMES model during the discussion of the thesis.

SUMMARY OF POINTS AWARDED (for details, see below):

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CATEGORY		POINTS
Contribution	(max. 30 points)	28
Methods	(max. 30 points)	30
Literature	(max. 20 points)	19
Manuscript Form	(max. 20 points)	15
TOTAL POINTS	(max. 100 points)	92
GRADE $(A-B-C-D-E-F)$		A

NAME OF THE REFEREE: Lukáš Rečka

DATE OF EVALUATION: 30.8.2023

Digitally signed (August 30, 2023): Lukáš Rečka

Referee Signature