

Report on Bachelor / Master Thesis

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

Student:	Marek Cech
Advisor:	Karel Janda
Title of the thesis:	The Impact of Renewable Energy on the EU Electricity Prices and CO2 Emissions

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

The thesis first provides a brief review of possible renewable energy sources in general. This is followed by a non-technical explanation of electricity pricing in the EU. After this energy introduction comes a climate change policy section. This policy section provides the description of EU renewable energy targets and EU greenhouse gas emission targets. After this descriptive introduction starts the analytical part of the thesis, which provides panel data analysis of the relation between renewable sources of energy and EU electricity prices and carbon emissions.

The thesis is working with appropriate literature – recent articles in Energy Policy and Energy Economics, working papers, specialized books and booklets. The thesis is formally well written. The level of analysis is appropriate for IES bachelor thesis.

During the defense the student could discuss the role of fixed and variable costs of renewables and alternative non-renewable sources of electric energy. Provide a qualification how much the regression results in the analytical section characterize short-run situation at the beginning of deployment of some renewables (solar, biomass, wind) versus a long run perspectives. Compare the costs of well established renewables (hydro) and new renewables (photovoltaics, biomass, wind). Student could also discuss (on qualitative level) how much the intermittent character of some renewables (wind, photovoltaics) contributes to an increase in the costs of electricity for the final user.

As a conclusion, I recommend this thesis for the defense and I recommend the grade Excellent (grade 1).

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

CATEGORY	POINTS
<i>Literature</i> (max. 20 points)	19
<i>Methods</i> (max. 30 points)	23
<i>Contribution</i> (max. 30 points)	20
<i>Manuscript Form</i> (max. 20 points)	19
TOTAL POINTS (max. 100 points)	81
GRADE (1 – 2 – 3 – 4)	1

NAME OF THE REFEREE: Karel Janda (the advisor for this thesis)

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DATE OF EVALUATION: *May 7, 2015*

Karel Janda

Referee Signature

EXPLANATION OF CATEGORIES AND SCALE:

LITERATURE REVIEW: *The thesis demonstrates author's full understanding and command of recent literature. The author quotes relevant literature in a proper way.*

Strong Average Weak
20 10 0

METHODS: *The tools used are relevant to the research question being investigated, and adequate to the author's level of studies. The thesis topic is comprehensively analyzed.*

Strong Average Weak
30 15 0

CONTRIBUTION: *The author presents original ideas on the topic demonstrating critical thinking and ability to draw conclusions based on the knowledge of relevant theory and empirics. There is a distinct value added of the thesis.*

Strong Average Weak
30 15 0

MANUSCRIPT FORM: *The thesis is well structured. The student uses appropriate language and style, including academic format for graphs and tables. The text effectively refers to graphs and tables and disposes with a complete bibliography.*

Strong Average Weak
20 10 0

Overall grading:

TOTAL POINTS	GRADE		
81 – 100	1	= excellent	= výborně
61 – 80	2	= good	= velmi dobře
41 – 60	3	= satisfactory	= dobře
0 – 40	4	= fail	= nedoporučuji k obhajobě