

CHARLES UNIVERSITY
FACULTY OF SOCIAL SCIENCES

**individual study plan
of doctoral student**

Plan ID 17902

Student

Name	Salim Turdaliev
E-mail	23522190@fsv.cuni.cz
Faculty	Faculty of Social Sciences
Study programme	Economics and Finance (P0311D050002)
Standard length of the study (number of years)	4
Form of study	full-time
Date of commencement of doctoral study	12.08.2019

**Study programme guarantor
and Chair of subject area board**

Name **prof. Ing. Evžen Kočenda, M.A., Ph.D., DSc.**

Supervisor

Name	Mgr. Milan Ščasný, Ph.D.
E-mail	milan.scasny@czp.cuni.cz
Department / Institute	Institute of Economic Studies (23-IES)

Doctoral dissertation

Title of thesis
Essays in Energy Economics: Evidence from Micro and Experimental data
Progress on the doctoral dissertation
Synopsis: A recent threat of environmental deterioration has led many policy makers to consider more rational approaches to using and pricing energy sources. Among various energy sources, responsible for hazardous emissions, the share of the residential electricity industry is considerable (Deryugina et al., 2018), and the price of electricity is considered to be one of the main determinants of its demand. Nevertheless, there is little consensus on the magnitude of the price elasticity of electricity demand either in the short or the long run (see for instance, Labandeira et al., 2017 for brief literature review). Moreover, the majority of the past literature employed aggregated data for the analysis, which results in considerable information loss due to aggregation. This in turn creates a sizeable gap in evaluation and assessment of the governmental policies in reducing greenhouse effects. In this paper we exploit a rich micro data on Russia, combined with a natural experiment on implementing the increasing block rate tariff (IBR) for residential electricity in seven regions of Russia in 2013. This allows us to estimate the price elasticity for electricity demand in a context of natural experiment, which we further combine with Instrumental variable estimation approach using exogenous tariff-scheme as an instrument for electricity prices in order to overcome the endogeneity of prices in the present of IBR pricing scheme. The preliminary results indicate the coefficient of price elasticity of demand in a log-log specification is -1.11. Selective list of references: Alberini, A., Khymych, O. & Ščasný, M. (2019a), Response to Extreme Energy Price Changes: Evidence from Ukraine. The Energy Journal, Vol. 40, No. 1: 189-212. https://doi.org/10.5547/01956574.40.1.aalb Allcott, H., & Rogers, T. (2014). The Short-Run and Long-Run Effects of Behavioral Interventions: Experimental Evidence from Energy Conservation. American Economic Review, 104(10), 3003-3037. doi: 10.1257/aer.104.10.3003 Aydin, E., Kok, N., & Brounen, D. (2017). Energy efficiency and household behavior: the rebound effect in the residential sector. The RAND Journal Of Economics, 48(3), 749-782. doi: 10.1111/1756-2171.12190 Brounen, D., Kok, N., & Quigley, J. (2013). Energy literacy, awareness, and conservation behavior of residential households. Energy Economics, 38, 42-50. doi: 10.1016/j.eneco.2013.02.008 Ito, K. (2014). "Do Consumers Respond to Marginal or Average Price? Evidence from Nonlinear Electricity Pricing." American Economic Review 104(2): 537-63. https://doi.org/10.1257/aer.104.2.537 . Jaffe, A., & Stavins, R. (1994). The energy-efficiency gap What does it mean?. Energy Policy, 22(10), 804-810. doi: 10.1016/0301-4215(94)90138-4 Labandeira, X., Labeaga, J.M. and López-Otero, X. (2017). "A Meta-Analysis on the Price Elasticity of Energy Demand." Energy Policy 102: 549-568 Shepovalova, O. (2015). Energy Saving, Implementation of Solar Energy and Other Renewable Energy Sources for Energy Supply in Rural Areas of Russia. Energy Procedia, 74, 1551-1560. doi: 10.1016/j.egypro.2015.07.718 Form and scope of the dissertation: The dissertation will have between 100 and 200 standard pages Time schedule of progress on the dissertation: 1st year of study: Work on the first dissertation article with title "Price elasticity of electricity demand in Russia: Evidence from natural experiment". 2nd year of study: Work on the second dissertation article with an expected title "Estimating the effect of household renovations on energy efficiency: Evidence from rural Russia." 3rd year of study: Completion of the dissertation with the third article, "Increasing consumer awareness and energy savings: Evidence from field experiment." 4th year of study: Finishing, Pre-defense, and Defense of the dissertation

State doctoral examination and doctoral thesis defence

Type	Code	Title, details	Ac. year
State doctoral examination	JSZEE1	State Doctoral Exam	2021/2022
Doctoral dissertation defence	JOBEE1	Defence of Dissertation	2022/2023

Course of study

Scheduled date of the state doctoral examination: November 2021
Scheduled date of the pre-defense: November 2022
Scheduled date of the defense of the dissertation: May 2023

Duties – study plan

Type	Code	Title, details	Ac. year
Course	JED109	Institutional Economics and Economic Policy I	2019/2020
Course	JED110	Institutional Economics and Economic Policy II	2019/2020
Course	JED511	Teaching Assistantship (Full) A	2019/2020
Course	JED109	Institutional Economics and Economic Policy I	2020/2021
Course	JED110	Institutional Economics and Economic Policy II	2020/2021
Course	JED511	Teaching Assistantship (Full) A	2020/2021
Course	JED511	Teaching Assistantship (Full) A	2020/2021
Course	JED109	Institutional Economics and Economic Policy I	2021/2022
Course	JED110	Institutional Economics and Economic Policy II	2021/2022
Course	JED511	Teaching Assistantship (Full) A	2021/2022
Course	JED511	Teaching Assistantship (Full) A	2021/2022
Course	JED109	Institutional Economics and Economic Policy I	2022/2023
Course	JED110	Institutional Economics and Economic Policy II	2022/2023
Course	JED511	Teaching Assistantship (Full) A	2022/2023
Course	JED511	Teaching Assistantship (Full) A	2022/2023
Publication	---	IES Working Paper The first chapter of the dissertation with expected title "Price elasticity of electricity demand in Russia: Evidence from natural experiment" is also expected to be published as a IES Working Paper.	2019/2020
Conference	---	Environmental Economics, Policy and International Environmental Relations Presenting the first chapter of the Doctoral dissertation titled: "Price elasticity of electricity demand in Russia: Evidence from natural experiment"	2019/2020
Training	---	International Winter School „Impact Assessment of European Climate Policy” in Freiberg. Studying various techniques on Impact Assessment of Climate Policies. Presenting the first chapter of the Doctoral dissertation titled: "Price elasticity of electricity demand in Russia: Evidence from natural experiment"	2019/2020
Training	---	Methodological seminar for PhD students Request for exemption was approved by the Doctoral Studies Council.	2019/2020
Other	---	BT and MT refereeing I will serve as an opponent of Bachelor's and Master's theses.	2019/2020
Other	---		2019/2020
Other	---	Grant activities Application to the Grant Agency of the UK competition with an expected topic "Price elasticity of electricity demand in Russia: Evidence from natural experiment". In case my project will not be accepted for financing, I will submit new application in subsequent years of study.	2019/2020
Other	---	Research seminar Presenting the first chapter of the Doctoral dissertation titled: "Price elasticity of electricity demand in Russia: Evidence from natural experiment" at Westminster International University in Tashkent.	2019/2020
Other	---	Study documents Till May 31 of this academic year, I will deliver my "Annual assessment of fulfilling the ISP" + "Supplement", in which I further specify the intended course of my doctoral studies over the next academic year. In case of termination my study interruption I will fill in the required documents ("Annual assessment of fulfilling the ISP" + "Supplement" for the next academic year) within a month from the end of my study interruption period.	2019/2020
Publication	---	IES Working Paper The second chapter of the dissertation with expected title "Estimating the effect of household renovations on energy efficiency: Evidence from rural Russia" is expected to be published as IES Working Paper.	2020/2021
Internship	---	Mobility Stay I am planning to apply for mobility stay at one of the (preferable top) US University/Institution to enhance my knowledge and experience.	2020/2021
Publication	---	IES Working Paper The third chapter of the dissertation with expected title "Increasing consumer awareness and energy savings: Evidence from field experiment" is expected to be published as IES Working Paper.	2021/2022
Publication	---	Web of Science publication The first chapter of the dissertation titled "Price elasticity of electricity demand in Russia: Evidence from natural experiment" is planned to be published in academic journal listed in Web of Science. The submission is planned in case the publication of the same title as IES working paper receives a positive feedback from Doctoral Council of IES.	2021/2022
Conference	---	EAERE, EMEE, IEW, IAEE, and VSE-UK Before being published each of the three chapters of the doctoral thesis are planned to be presented in one of the main Energy/Environmental conferences like European Association of Environmental and Resource Economists (EAERE), Empirical Methods in Energy Economics (EMEE), International Energy Workshop (IEW), International Association for Energy Economics (IAEE), and Environmental Economics, Policy and International Environmental Relations organized by VSE-UK.	2021/2022
Publication	---	Web of Science publication The second chapter of the dissertation with expected title "Estimating the effect of household renovations on energy efficiency: Evidence from rural Russia" is planned to be published in academic journal listed in Web of Science. The submission is planned in case the publication of the same title as IES working paper receives a positive feedback from Doctoral Council of IES.	2022/2023

Type	Code	Title, details	Ac. year
Publication	---	Web of Science publication The third chapter of the dissertation with expected title "Increasing consumer awareness and energy savings: Evidence from field experiment" is planned to be published in academic journal listed in Web of Science. The submission is planned in case the publication of the same title as IES working paper receives a positive feedback from Doctoral Council of IES.	2022/2023

* Supplementary duties were added to the plan in the course of study.

Duties specific for the field of study

Publications and other study obligations required for admission to the state doctoral examination:

By the end of the 3rd year I enroll for the state doctoral exam (SDE) so that I pass the SDE not later than by the end of the 4th year. Not later than two months before the SDE I deliver all materials demonstrating compliance with the conditions for admission to the SDE. These conditions are:

- Having published or accepted for publication one scientific article (in that case I attach the postprint or a well verifiable confirmation of acceptance for publication) in a scientific journal included in the Scopus database (or in a journal with a nonzero impact factor from SSCI, SCI databases) and at least one scientific article in a series of at least IES Working Papers Series quality (in that case I submit a request to the chairman of the Doctoral Council for consideration). An alternative condition for publication duty is one research article published or accepted for publication in a scientific journal with a score of at least "B" according to the internal methodology of measuring the quality of scientific journals at IES FSV UK (see Director's Measure 1/2016 "Research" and the document Journal Evaluation at IES FSV UK). Only articles accepted for publication when the student studies the PhD at the IES will fulfil this condition. All articles must be affiliated to IES FSV UK. Only articles in Economics, Finance and closely related fields will be accepted.

- One successful grant activity as the principal investigator or two unsuccessful grant activities in the framework of the GA UK grant competition (i.e. according to the rules set by the Doctoral Council).

- Four semesters of completed doctoral seminars.

- Four "Teaching Assistantships" (TA) in at least two different classes.

- Completion of a methodology teaching seminar for doctoral students.

- Fulfillment of the special requirements of the Doctoral Council (if there are any).

Publication and study obligations required for admission to the defense:

At the time of submission of my application to the pre-defense and defense I commit myself to have:

- Passed the state doctoral examination.

- One research article published or accepted for publication in a scientific journal with a score of at least "B" according to the internal methodology for measuring the quality of scientific journals at IES FSV UK (see Director's Measure 1/2016 "Research" and Journal Evaluation at IES FSV UK). Alternatively, at least two articles published or accepted for publication in scientific journals included in the Scopus database or in scientific journals with non-zero impact factor from the SSCI and SCI databases. These articles do not have to be part of the dissertation thesis. Only articles accepted for publication when the student studies the PhD at the IES will fulfil this condition. All articles must be affiliated to IES FSV UK. Only articles in Economics, Finance and closely related fields will be accepted.

- Eight "Teaching Assistantships" (TAs) in at least two different classes.

At the time of submission of my application to the pre-defense, I commit myself to have the dissertation thesis at least in the following form:

- At least one dissertation article is fully finished (the supervisor approved the final version as a dissertation chapter), the second article is almost finished (the student processed the last supervisor's comments and awaits its approval) and the third article is elaborated. The elaborated article has at least a clear structure, methodology, goal of the research and a significant work has already been done.

BT and MT opponency: Throughout the entire duration of my study I will serve as an opponent of Bachelor's and Master's theses.

Methodology teaching seminar for PhD students:

I will participate at a methodology teaching seminar for first year PhD students during the 1st year. If the seminar was not attended within the course of the first year, I will attend the seminar during the 2nd year.

Defenses:

I commit myself to attend doctoral defenses with the minimum average attendance of 50% during the whole period of my study. In each academic year I visit at least 50% of the defenses. I am aware that participation at defenses of less than 50% may lead to a reduction of my evaluation by the Doctoral council at the end of each academic year.

Study documents: Till May 31 of each academic year, I deliver my "Annual assessment of fulfilling the ISP" + "Supplement", in which I further specify the intended course of my doctoral studies in the next academic year. In case of terminating my study interruption I will fill in the required documents ("Annual assessment of fulfilling the ISP" + "Supplement" for the next academic year) within a month from the end of my study interruption period.

Obligations in case of a study stay:

In case of a study visit/stay, I will apologize in advance to the coordinator of dissertation defenses so that my absence could be excused. I will also in advance send a request to the Doctoral Council for possible consideration of study requirements, which I plan to fulfil during my visit/stay.

Approval of plan

Supervisor

Mgr. Milan Ščasný, Ph.D.

30.10.2019

Student

Salim Turdaliev

30.10.2019

Approved by CDS.

Approved by Subject Area Board of doctoral study programme (field of study) on: 31.10.2019

Chair of Subject Area Board

prof. Ing. Evžen Kočenda, M.A., Ph.D., DSc.

31.10.2019

Study programme guarantor

prof. Ing. Evžen Kočenda, M.A., Ph.D., DSc.

31.10.2019