

CHARLES UNIVERSITY
FACULTY OF SOCIAL SCIENCES

**annual assessment of fulfillment of individual study plan
of doctoral student**

for the academic year 2019/2020

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

Annual commentary on progress on doctoral dissertation

State doctoral examination and doctoral thesis defence

Type	Title, details	Fulfilled according to SIS	Commentary to annual assessment
State doctoral examination	State Doctoral Exam	---	---
Doctoral dissertation defence	Defence of Dissertation	---	---

Course of study

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

Duties – study plan

Type	Code	Title, details	Ac. year	Fulfillment according to student	Fulfilled according to SIS	Commentary to annual assessment	Year of insertion
Course	JED109	Institutional Economics and Economic Policy I	2019/2020	fulfilled	22.01.2020 12:01	Course requirements fulfilled.	2019/2020
*Course	JED511	Teaching Assistantship (Full) A	2019/2020	---	---	Due to the planned Academic mobility to the University of Maryland (cancelled due to covid-19) during the summer semester of 2019-2020, which was already approved for financing by GEMCLIME project, I asked for the exemption from Teaching requirement for the summer semester of this academic year. I notified the coordinator of Teaching Assistantship Matěj Nevrla by email regarding this.	2019/2020
Course	JED109	Institutional Economics and Economic Policy I	2020/2021	---	---	---	2019/2020
Course	JED110	Institutional Economics and Economic Policy II	2020/2021	---	---	---	2019/2020
Course	JED511	Teaching Assistantship (Full) A	2020/2021	---	---	---	2019/2020
Course	JED511	Teaching Assistantship (Full) A	2020/2021	---	---	---	2019/2020
Course	JED109	Institutional Economics and Economic Policy I	2021/2022	---	---	---	2019/2020
Course	JED110	Institutional Economics and Economic Policy II	2021/2022	---	---	---	2019/2020
Course	JED511	Teaching Assistantship (Full) A	2021/2022	---	---	---	2019/2020
Course	JED511	Teaching Assistantship (Full) A	2021/2022	---	---	---	2019/2020
Course	JED109	Institutional Economics and Economic Policy I	2022/2023	---	---	---	2019/2020
Course	JED110	Institutional Economics and Economic Policy II	2022/2023	---	---	---	2019/2020
Course	JED511	Teaching Assistantship (Full) A	2022/2023	---	---	---	2019/2020
Course	JED511	Teaching Assistantship (Full) A	2022/2023	---	---	---	2019/2020

Type	Code	Title, details	Ac. year	Fulfillment according to student	Fulfilled according to SIS	Commentary to annual assessment	Year of insertion
Course	JED110	Institutional Economics and Economic Policy II	2019/2020	fulfilled	---	<p>According to the course requirements indicated on the course page:</p> <p>"In each semester, each student is required:</p> <ul style="list-style-type: none"> • to present his or her research (Presentation is expected to be based on a seriously elaborated draft of a research paper, sent to Paola Bertoli (paola.bertoli@fsv.cuni.cz) on the weekend before the presentation; if done, it fulfills this requirement for two semesters.) • to participate actively in discussing presentations of other students" <p>I have presented my paper during the first semester, thus partially fulfilling the requirements for the summer semester as well.</p>	2019/2020

* marked duties were deleted from the study plan in the year of assessment

Duties – other

Type	Code	Title, details	Ac. year	Fulfillment according to student	Fulfilled according to SIS	Commentary to annual assessment
*Publication	---	<i>IES Working Paper</i> 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 <i>IES Working Paper</i> .	2019/2020	---	---	<i>The data collection, and data analyses are complete. "Writing process" is in progress. The WP is a little behind the date as the "Study Plan Assessment" started earlier this academic year.</i>
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	fulfilled	---	Active participation - presentation at 21st International Conference on "Environmental Economics, Policy and International Environmental Relations" 2019, in Prague. Presenting the preliminary results of the first chapter of my dissertation titled: "Price elasticity of electricity demand in Russia: Evidence from natural experiment".
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	fulfilled	---	Active participation - Poster presentation at the "International Winter School on Impact Assessment of European Climate Policy in Freiberg", 2020. Presenting the results of the first chapter of my dissertation titled: "Price elasticity of electricity demand in Russia: Evidence from natural experiment".
Training	---	Methodological seminar for PhD students Request for exemption was approved by the Doctoral Studies Council.	2019/2020	fulfilled	---	Request for exemption was approved by the Doctoral Studies Council.
Other	---	BT and MT refereeing I will serve as an opponent of Bachelor's and Master's theses.	2019/2020	fulfilled	---	I was assigned as a referee for one bachelor thesis this year. However, due to the fact that it was written in Slovak, and no English version was present, the program coordinator Julie Chytilova wrote me an email stating that she will assign the thesis to somebody else (Slovak speaker), and advised me to ignore the request for opponency.
*Other	---		2019/2020	---	---	<i>Please, remove this duty. It was duty on "attending defenses". However due to some technical error, the duty lost its title. I created a new duty for "attending defenses" for the 2019/2020 academic year below.</i>

Type	Code	Title, details	Ac. year	Fulfillment according to student	Fulfilled according to SIS	Commentary to annual assessment
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	fulfilled	---	I obtained a three-year GAUK grant as a Principal Investigator on the topic of "THE EFFECT OF NON-LINEAR TARIFF ON ENERGY DEMAND AND INVESTMENT IN ELECTRIC DURABLES IN TRANSITION ECONOMIES: MICRO DATA ESTIMATION AND NATURAL EXPERIMENT" (GAUK 454120). I was also a part of one more GAUK grant application this year that was not approved for funding as a collaborator. The project was titled "IMPACT OF CLIMATE CHANGE ON TOURISM DEMAND IN EUROPE" (GAUK 1172020).
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	fulfilled	---	I will submit my study documents until May 31.
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	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	Fulfillment according to student	Fulfilled according to SIS	Commentary to annual assessment
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	---	---	---
*Other	---	<i>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.</i>	2019/2020	---	---	<i>I was planning to present during the winter semester. However, then I decided to present during the summer semester instead, as I will have a more complete results by this time. However, then it was cancelled due to COVID-19.</i>
Other	---	Grant activities Continuation of work on the obtained three-year GAUK grant on topic of "THE EFFECT OF NON-LINEAR TARIFF ON ENERGY DEMAND AND INVESTMENT IN ELECTRIC DURABLES IN TRANSITION ECONOMIES: MICRO DATA ESTIMATION AND NATURAL EXPERIMENT" (GAUK 454120).	2020/2021	---	---	---
Other	---	Study documents Till May 31 of this academic year, I delivered 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.	2020/2021	---	---	---
Other	---	BT and MT refereeing I will serve as an opponent of Bachelor's and Master's theses.	2020/2021	---	---	---
Other	---	Defenses I will attend at least 50% of dissertation defenses held at the IES FSV UK.	2020/2021	---	---	---
Other	---	Defenses I will attend at least 50% of dissertation defenses held at the IES FSV UK.	2019/2020	fulfilled	---	I could not attend the defenses that were held during the winter semester of 2019/2020 due to family reasons. I had a new born baby in Tashkent, and I was forced to arrive to Prague later during the semester. This was clearly communicated to the Student Services Department of the faculty of Social Sciences. During the summer semester I planned to attend all defenses to compensate the missed ones in winter. However, due to Covid-19 they were cancelled. Only recently I received email that defenses now resume in online format and students can attend them in online form. Therefore, I am attending All the online defenses and pre-defenses held at the IES FSV UK.

* marked duties were deleted from the study plan in the year of assessment

Other commentaries to the annual assessment

Type	Commentary to annual assessment
Annual assessment	---

Overall assessment of fulfilling the plan

Type	Commentaries and assessment	
Student's summary	<p>This year I was working on the first chapter of my dissertation. I already obtained all the relevant data, cleaned it, and ran estimations. I have presented the first chapter of my dissertation at two International events this year: The 21st International Conference on "Environmental Economics, Policy and International Environmental Relations" 2019, in Prague, and at the "International Winter School on Impact Assessment of European Climate Policy in Freiberg", 2020.</p> <p>I also obtained funding for my dissertation from a three-year GAUK grant as a Principal Investigator on the topic of "THE EFFECT OF NON-LINEAR TARIFF ON ENERGY DEMAND AND INVESTMENT IN ELECTRIC DURABLES IN TRANSITION ECONOMIES: MICRO DATA ESTIMATION AND NATURAL EXPERIMENT" (GAUK 454120). I was also a part of one more GAUK grant application this year that was not approved for funding as a collaborator. The project was titled "IMPACT OF CLIMATE CHANGE ON TOURISM DEMAND IN EUROPE" (GAUK 1172020).</p> <p>My dissertation chapter was also approved for mobility funding to University of Maryland (USA) by GEMCLIME project. However, my stay at UMD was cancelled due to covid-19 outbreak.</p> <p>However, I could not fulfill the TA requirements this year due to family reasons, and my planned mobility stay at UMD (see the comment on TA duty). I also could not attend the defenses and pre-defenses held at the IES FSV UK during the winter semester (due to family reasons). I am attending, however, all the pre-defenses, and defenses that are held (online) during the summer semester.</p>	-
Supervisor's proposal	<p>I have been discussing Salim's research regularly online due to his stay abroad; we met once in person in winter when his research was discussed extensively including Prof. Alberini, UMD. His research has been mainly focused on analysis of micro household-level data on electricity consumption in Russia before and after non-linear tariff was introduced in some regions.</p> <p>In order to intensify his research, his application to be seconded in UMD and collaborate with Prof. Alberini was approved, however, it could not be realised due to pandemic situation (for that reason I accept his application to postpone TA requirement for next years).</p> <p>Participation at the presentations and discussions of research by other students has not been fulfilled in the summer semester (that would not be possible due to COVID-19 anyway).</p> <p>Salim successfully received a grant funded from GAUK ("The effect of non-linear tariff on energy demand and investment in electric durables in Transition Economies: Micro data estimation and natural experiment, together with Levan Bezhanishvili). This grant is fully in line with the topic of his dissertation thesis. He was a co-applicant of another one, without funding.</p> <p>Preliminary results of his research were presented at two scientific events – at the conference "Environmental Economics, Policy and International Environmental Relations" held in November 2019 at University Economics in Prague 2019, and at the international Winter School on "Impact Assessment of European Climate Policy" held in Freiberg, February 2020.</p> <p>Overall, Salim has been performing his research very well, fully in line with his study plan. The GAUK project directly supports this research. I expect he will be able to publish his first paper, based on RMLS electricity use data, in IES WP by the end of this academic year.</p>	A
Decision of Subject Area Board	Accepted by CDS.	A

Under 10 (8) of Code of Study and Examination of Charles University , the student has fulfilled his/her individual study plan.

Subject Area Board proposes CONTINUATION of study

Supervisor

Mgr. Milan Ščasný, Ph.D.

17.05.2020

Approved by Subject Area Board of doctoral study programme (field of study) on: 21.09.2020

Chair of Subject Area Board

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

02.10.2020

Student

Salim Turdaliev

16.05.2020

Study programme guarantor

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

02.10.2020

CHARLES UNIVERSITY
FACULTY OF SOCIAL SCIENCES

Supplement No. 1 Plan ID 17902
for the academic year 2019/2020

to the individual study plan approved by Subject Area Board on: 21.09.2020

Name of student of doctoral study programme: Salim Turdaliev

Born: 2.1.1991, Termez

Type	Changes in the individual study plan (new study duty, cancelled study duty, change in the fulfillment deadline)	original deadline*	new fulfillment deadline*
Course	Teaching Assistantship (Full) A	2019/2020	cancelled
Publication	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	cancelled
Other		2019/2020	cancelled
Other	Research seminar	2019/2020	cancelled
Other	Grant activities	---	2020/2021
Other	Study documents	---	2020/2021
Other	BT and MT refereeing	---	2020/2021
Other	Defenses	---	2020/2021
Other	Defenses	---	2019/2020

Supervisor

Mgr. Milan Ščasný, Ph.D.

17.05.2020

Student

Salim Turdaliev

16.05.2020

Approved by Subject Area Board of doctoral study programme (field of study) on: 21.09.2020

Chair of Subject Area Board

02.10.2020

Study programme guarantor

02.10.2020

* Explanatory note:

1. in case of a new study duty, the field "original deadline" will be crossed, and the date of scheduled fulfilment will be in the field "new fulfillment deadline"

2. in case of a cancelled study duty, the original date from the ISP will be in the field "original deadline", and there will be "new fulfillment deadline" in the field "new fulfillment deadline"