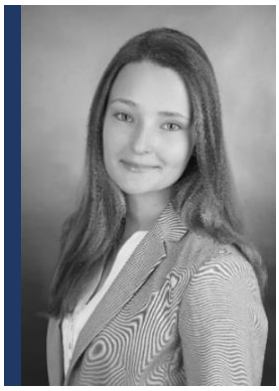
Kristina Govorukha



May 19th, 1990
Zimmerstrasse 4, 03044 Cottbus
Govorukha.Kristina@gmail.com
LinkedIn
Academic Webpage
GitHub

Summary: 5 years of working experience

Areas of expertise: # energy sector # European energy policy # German electricity market # renewables # energy-intensive industries (steel sector) # data analysis and visualization # communications, policy and technical discussions

Publications in international journals: Energy, Applied Energy, Climatic Change, The Energy Journal

Presentations: International Association of Energy Economists IAEE: Rome, Athens
Symposium Energieinnovation: Graz

Career

12.2020 – now

The World Bank
External consultant
Joined the team of excellent researchers and experts to analyze the impact of climate change on the developing countries, the subsequent distributional economic impacts, and the resulting policy recommendations.

- Responsible for the visualization and final presentation of the economic and spatial climate data supporting the main findings of the report.
- Conducting economic analyses.

02.2020 – 05.2021

TU Bergakademie Freiberg
Chair of Economics especially Environmental and Resource Economics
Research associate

- Lead of research project assessing effects of EU Member States' national policies on the investments in their electricity sectors in the near-term.
- Lead of research project assessing effects of extreme weather events on the German electricity market: fossil-fuel capacity phase-outs, volatility of wholesale electricity prices. Code
- Preparation of scientific publications and presentations on the analysis of the long-term developments of the European electricity market and energy-intensive industries.
- Elaboration of digital materials and teaching Energy Economics (SS 2020) and Microeconomic (WS 2020-2021), in German.
- Chair administrative work, maintenance of the study courses, provision of barrier-free digital learning media.
- Preparation of project applications, seeking funding opportunities for future research projects.

04.2016 – 02.2020

Research associate: 4NEMO project: Research Network for the Development of New Methods in Energysystem Modeling*
*Funded by the German Ministry of Economic Affairs and Energy (BMWi)

- Carrying out scientific research within the Work Package 3: Development of socio-technical context scenarios for the European energy system until 2050.
- Coordination and organization of scientific workshops and seminars at the chair within the activities of the package.
- Presentation of the results and progress at the annual Project meetings, regular participation in group workshops and bilateral meetings.

- Reporting on the financial and research progress of the Project from the start to its end phase.
- Teaching: Energieökonomik (SS 2019) Microeconomics (WS 2016-2017), Macroeconomics (SS 2017).
- Apart from work in the 4NEMO, I have pursued my own research projects in the topic of long-term electricity market scenarios, scenario construction methods, analysis of developments in the energy intensive industries. This research led to successful results and was published in the top-notch international scientific journals.

08.2014 – 10.2014 Institute of Energy and Climate Research, Systems Analysis and Technology Evaluation (IEK-STE), **Forschungszentrum Jülich**

Research stay

- Carrying out research on the topic of steel market developments and primary raw materials requirements; preparation of the market review data, and technical data for the steel market model.
- I participated in the elaboration of the techno-economic steel market model.

Education

01.2017 – 10.2021 **TU Bergakademie Freiberg**: PhD (summa cum laude)
Thesis: "Transition Pathways for the European Electricity Sector: Uncertainties, Risks and their Implications on Costs"
Supervisors: Prof. Dr. Dirk Rübbelke, Prof. Dr. Heike Wetzel

10.2013 – 03.2016 **TU Bergakademie Freiberg:** MBA*
*Financed by the Deutscher Akademischer Austauschdienst (DAAD)
Key courses: International management of resources and environment, Microeconomics, Macroeconomics, International Economics, Investment and finances.
Thesis: "New Energy Policy of France: Its consequences to the European Electricity Market".
Supervisor: Prof. Dr. Dirk Rübbelke, Dr. Stefan Vögele (Forschungszentrum Jülich).

09.2007 – 02.2013 **Zaporizhzhia National Technical University, Ukraine:** Diploma in Finances
Key courses: Macroeconomics, Microeconomics, Audit, Accounting.

09.2011 – 12.2012 **Zaporizhzhia National Technical University, Ukraine:** MSc Honours Degree
Key courses: Advanced mathematics, Control theory, Materials science, Electricity networks and appliances.

Scholarships and certificates

DAAD	Deutscher Akademischer Austauschdienst: scholarship for talented international students.
TU Dresden	"Qualitative Comparative Analysis" Doktorandenseminar, 04.2018.
TU Dresden	"Lineare Modelle und Strukturgleichungsmodelle in R" Doktorandenseminar, 10.2020.

Practice, skills and experience

Working experience in:

GAMS	Fundamental knowledge:	Project-related use, research and teaching
R	Good knowledge:	Data analysis and visualization
Python	Basic knowledge:	Data visualization, hobby projects
MS Excel	Fundamental knowledge:	Data analysis, visualization
MS Office	Fundamental knowledge:	Writing reports, creating presentations

Languages:

Ukrainian	Native Fluency
Russian	Native Fluency
English	Fluent, Academic Writing course
German	Fluent

For recommendations, please refer to:

Professor Dr. D. Rübbelke, TU Bergakademie Freiberg
Dr. Vögele, Forschunszenrum Jülich
Dr. Wolfgang Habla, ZEW, Mannheim

Kristina Govorukha

CV attachment: academic work

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GitHub

Scientific publications: work in progress

2021 book chapter (in revision)	Vögele S., Govorukha K. Impact of Germany's Phase-Out of Coal Power Plants on Developing Countries.
2021 Environment, Development and Sustainability (in revision)	Vögele S., Govorukha K., Mayer P., Rhoden, I., Rübbelke D. Co-benefits of the Phase-Out of Coal in Europe.

Scientific publications in the peer-reviewed journals

2021 The Energy Journal	Govorukha K., Golub A., Mayer P., Rübbelke D. (2021). *Climate Change and the Vulnerability of Germany's Power Sector to Heat and Drought*. The Energy Journal, Vol. 43 (3): 153-179. **GitHub | Working Paper |Publication**
2021 Mitigation and Adaptation Strategies for Global Change	Govorukha K., Mayer P., Rübbelke D. (2021) *Fragmented Landscape of European Policies in the Energy Sector: First-Mover Advantages*. In revision in the Journal of Mitigation and Adaptation Strategies for Global Change. CESifo Working Paper No. 9093, CESifo, Munich, 2020. **Working Paper**
2020 Energy	Govorukha K., Mayer P., Vögele S., Rübbelke D. (2020). *Economic Disruptions in Long-Term Energy Scenarios – Implications for Designing Energy Policy*. Energy, 212:118737. **Publication | Working Paper**
2020 Applied Energy	Vögele, S., Grajewski, M., Govorukha, K., & Rübbelke, D. (2020). *Challenges for the European Steel Industry: Analysis, Possible Consequences and Impacts on Sustainable Development*. Applied Energy, 264, 114633. **Publication**
2019 Climatic Change	Vögele, S., Rübbelke, D., Govorukha, K., & Grajewski, M. (2019). *Socio-technical scenarios for energy-intensive industries: the future of steel production in Germany*. Climatic Change, 1-16. **Publication**

Selected presentations and conference contributions

12.2019 Rome, Italy	*How does climate change affect the transition of power systems: The case of Germany* with D. Rübbelke, A. Golub und P. Mayer 4th AIEE Energy Symposium – Current and Future Challenges to Energy Security, Rom, 2019.

PRESENTATION

05.2019, Athens, Greece
Macroeconomic Cycles as a Source of Uncertainty in Long-term Energy Scenarios
with P. Mayer, D. Rübbelke und S. Vögele
4th Annual Symposium – Energy Transition IV SE and beyond, Athens.

PRESENTATION

02.2018, Graz, Austria
Application of the Analytic Hierarchy Process to Facilitate the Cross-Impact Balance Analysis
with P. Kunz and P. Mayer
Published in: Kurzfassungsband 15. Symposium Energieinnovation: Neue Energie für unser bewegtes Europa, Technische Universität Graz, 46-47.

PRESENTATION | CONFERENCE PAPER

03.2017, Freiberg.Germany
Dark clouds hovering over steel production in Germany. Only temporarily?
with S. Vögele, D. Rübbelke und M. Grajewski
Workshop of GOR Working Group "OR im Umweltschutz" and the Network of Industrial Ecology, Technische Universität Bergakademie Freiberg, 2017.

PRESENTATION

Selected project-related presentations

07.2018, ifo München
Electricity market 2050: Scenarios for the EU. Project Meeting "4NEMO", TU München

04.2018, Freiberg
The Future Development of the European Electricity Market: Dash for Gas
3. Workshop "Cross-Impact Balance Analysis" in the framework of the 4NEMO project, TU Bergakademie Freiberg

04.2018, Freiberg
Intermediate results of AHP for the CIB scenario development
2. Workshop "Cross-Impact Balance Analysis" in the framework of the 4NEMO project, TU Bergakademie Freiberg

03.2017, DLR Stuttgart
Application of the Analytic Hierarchy Process in the context of the Cross-Impact Balance analysis. Opportunity for a methodological improvement
Project Meeting "4NEMO", Deutsches Zentrum für Luft- und Raumfahrt (DLR), Stuttgart

03.2017, Freiberg
Factors that influence the European electricity market and their hierarchy
1. Workshop "Cross-Impact Balance Analysis" in the framework of the 4NEMO project, TU Bergakademie Freiberg

Lectureships

Lectures
- Energy economics SS 2019 (DE)

Tutorials
- Microeconomics WS 2016-2017 (ENG)
- Microeconomics SS 2017 (ENG)
- Energy economics SS 2019, SS 2020 (DE)

Seminars
- Energy economics WS 2019-2020 (DE)