


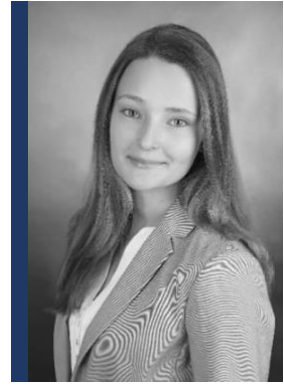








# Dr. Kristina Govorukha

May 19th, 1990  
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 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

#### Projects:



- (i) **Sustainable Development in Uzbekistan: Supporting a Green Transition**
- (ii) **Assessment of Climate Change Impacts, Opportunities and Priorities for Ukraine**
  - Conducting economic analyses.
  - Responsible for the visualization and final presentation of the data and key findings.
  - Contributing to team discussions on strategy questions.
  - Preparing and editing studies, brief reports, and fact sheets.

02.2020 – 05.2021

### TU Bergakademie Freiberg

Chair of Economics especially Environmental and Resource Economics


#### Research associate

- Lead of research project assessing effects of droughts on the German electricity market: fossil-fuel capacity phase-outs, volatility of wholesale electricity prices.  
 Code  Publication
- Preparation of scientific publications and presentations on the analysis of the long-term developments of the European electricity market and energy-intensive industries.
- Chair administrative work, maintenance of the study courses, provision of barrier-free digital learning media. Elaboration of digital materials and teaching Energy Economics (SS 2020) and Microeconomic (WS 2020-2021).
- 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 within the activities of the package.
- Reporting on the financial and research progress of the project from the start to its end phase.
- Pursuing my own research project on the topic of long-term electricity market scenarios, scenario construction methods, analysis of developments in the energy intensive industries.  
 Publication

- Teaching: Energieökonomik (SS 2019), Microeconomics (WS 2016-2017), Macroeconomics (SS 2017).

- 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.
-   Publications

## Education

- 01.2017 – 10.2021 **TU Bergakademie Freiberg:** Dr. rer. pol. (summa cum laude)  
**Thesis:** "Transition Pathways for the European Electricity Sector: Uncertainties, Risks and their Implications on Costs"  
**Supervisors:** Prof. Dr. Dirk Rübelke, 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 Rübelke, 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. Rübelke, TU Bergakademie Freiberg 
- Dr. Vögele, Forschungszentrum Jülich 
- Professor Dr. A. Golub, American University, Washington DC 

# Dr. Kristina Govorukha

## CV attachment: academic work

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### Scientific publications: work in progress

- |   |  |
|---|--|
| 2022 book chapter<br>(in revision)                                      | Vögele S., Govorukha K. Impact of Germany's Phase-Out of Coal Power Plants on Developing Countries.        |
| 2022 Environment,<br>Development and<br>Sustainability (in<br>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<br>Journal   | Govorukha K, Golub A., Mayer P., Rübbelke D. (2021). <i>Climate Change and the Vulnerability of Germany's Power Sector to Heat and Drought</i> . The Energy Journal, Vol. 43 (3): 153-179.<br><b>GITHub   WORKING PAPER   PUBLICATION</b>   |
| 2021 Mitigation<br>and Adaptation<br>Strategies for<br>Global Change | Govorukha K., Mayer P., Rübbelke D. (2021) <i>Fragmented Landscape of European Policies in the Energy Sector: First-Mover Advantages</i> . In revision in the Journal of Mitigation and Adaptation Strategies for Global Change. Preprint available as CESifo Working Paper No. 9093, CESifo, Munich, 2021.<br><b>WORKING PAPER</b> |
| 2020 Energy  | Govorukha K., Mayer P., Vögele S., Rübbelke D. (2020). <i>Economic Disruptions in Long-Term Energy Scenarios – Implications for Designing Energy Policy</i> . Energy, 212:118737.<br><b>PUBLICATION   WORKING PAPER</b>   |
| 2020 Applied<br>Energy   | Vögele, S., Grajewski, M., Govorukha, K., & Rübbelke, D. (2020). <i>Challenges for the European Steel Industry: Analysis, Possible Consequences and Impacts on Sustainable Development</i> . Applied Energy, 264, 114633.<br><b>PUBLICATION</b>   |
| 2019 Climatic<br>Change  | Vögele, S., Rübbelke, D., Govorukha, K., & Grajewski, M. (2019). <i>Socio-technical scenarios for energy-intensive industries: the future of steel production in Germany</i> . Climatic Change, 1-16.<br><b>PUBLICATION</b>   |

### Selected presentations and conference contributions

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

05.2019, Athens, Greece	<p><i>Macroeconomic Cycles as a Source of Uncertainty in Long-term Energy Scenarios</i> with P. Mayer, D. Rübbelke und S. Vögele 4th Annual Symposium – Energy Transition IV SE and beyond, Athens.</p> <p><b>PRESENTATION</b></p>
02.2018, Graz, Austria	<p><i>Application of the Analytic Hierarchy Process to Facilitate the Cross-Impact Balance Analysis</i> with P. Kunz and P. Mayer Published in: Kurzfassungsband 15. Symposium Energieinnovation: Neue Energie für unser bewegtes Europa, Technische Universität Graz, 46-47.</p> <p><b>PRESENTATION   CONFERENCE PAPER</b></p>
03.2017, Freiberg, Germany	<p><i>Dark clouds hovering over steel production in Germany. Only temporarily?</i> 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.</p> <p><b>PRESENTATION</b></p>

## Selected project-related presentations

07.2018, ifo München	<i>Electricity market 2050: Scenarios for the EU.</i> Project Meeting "4NEMO", TU München
04.2018, Freiberg	<p><i>The Future Development of the European Electricity Market: Dash for Gas</i> 3. Workshop "Cross-Impact Balance Analysis" in the framework of the 4NEMO project, TU Bergakademie Freiberg</p>
04.2018, Freiberg	<p><i>Intermediate results of AHP for the CIB scenario development</i> 2. Workshop "Cross-Impact Balance Analysis" in the framework of the 4NEMO project, TU Bergakademie Freiberg</p>
03.2017, DLR Stuttgart	<p><i>Application of the Analytic Hierarchy Process in the context of the Cross-Impact Balance analysis. Opportunity for a methodological improvement</i> Project Meeting "4NEMO", Deutsches Zentrum für Luft- und Raumfahrt (DLR), Stuttgart</p>
03.2017, Freiberg	<p><i>Factors that influence the European electricity market and their hierarchy</i> 1. Workshop "Cross-Impact Balance Analysis" in the framework of the 4NEMO project, TU Bergakademie Freiberg</p>

## Lectureships

Lectures	<ul style="list-style-type: none"> <li>• Energy economics SS 2019 (DE)</li> </ul>
Tutorials	<ul style="list-style-type: none"> <li>• Microeconomics WS 2016-2017 (ENG)</li> <li>• Microeconomics SS 2017 (ENG)</li> <li>• Energy economics SS 2019, SS 2020 (DE)</li> </ul>
Seminars	<ul style="list-style-type: none"> <li>• Energy economics WS 2019-2020 (DE)</li> </ul>