

# Görkem Güngör

My résumé

3239 cad. 11/4

06810

Ankara-Turkey

✉ ggungor@mezun.hacettepe.edu.tr

📞 gorkemgungormetu

🆔 0000-0003-0598-8911

🔗 op3E6OMAAAAJ

📺 channel/UCOUKH6VCsui9RrQ10SA5VQ



## Education

2013–2020 **Master of Science (Earth System Science)**, *Middle East Technical University, Ankara*, 3.43/4.00

- Achieved the participation of the University in an international project on Assessment of the Role of Nuclear Energy for Climate Change Mitigation Strategies of Countries.
- Published an academic article in the International Journal of Innovation and Sustainable Development on energy system modeling.

1996–2002 **Bachelor of Science (Nuclear Engineering)**, *Hacettepe University, Ankara*, 2.74/4.00

- Dissertation on General Characteristics of TRIGA Reactors and their neutronic and thermal hydraulic analysis using MCNP4B and RELAP5.
- Thermal-hydraulic and neutronic modeling of TRIGA Mark-II research reactor using MCNP and RELAP5 codes.

## Master thesis

title *Assessment of the role of nuclear power on energy policies and climate change mitigation strategies of developing countries*

supervisor Prof. Dr. Ramazan Sari

description I reviewed the academic literature on the role of nuclear energy in the energy sector's low-carbon transformation. There is a gap between the results of the academic studies and the national contributions to climate mitigation. The role of nuclear energy in supplying the electricity required for developing countries depends on global socio-economic pathways supporting investment in the most stringent carbon emission scenarios. Nuclear energy supports the transition of the energy system to a low-carbon future for both green transformation and regional rivalry scenarios.

## Experience

2022–2023 **Lecturer**, *Hacettepe University, Ankara*

- Developed course syllabus on Energy System Modeling.
- Used face-to-face and online teaching methods.
- Achieved the evaluation of the course using online polls.

- 2012–present **Energy and Natural Resources Expert**, *Ministry of Energy and Natural Resources*, Ankara
- Developed national legislation in alignment with EU acquis.
  - Organized workshops on nuclear infrastructure issues.
  - Completed EU project on spent fuel and radioactive waste management.
  - Organized work-groups for nuclear power project development.

## Languages

Turkish	Mother tongue	
English	Proficient user	C2
French	Basic user	A2
Russian	Basic user	A1

## Skill matrix

■ ■ ■ ■ ■	basic knowledge	■ ■ ■ ■ ■	extensive project experience
■ ■ ■ ■ ■	intermediate knowledge with some project experience	■ ■ ■ ■ ■	deepened expert knowledge
		■ ■ ■ ■ ■	expert / specialist

	Level	Skill	Years	Comment
Language:	■ ■ ■ ■ ■	Microsoft Office	15	<i>Preparing reports and presentations.</i>
	■ ■ ■ ■ ■	T <sub>E</sub> X/L <sub>A</sub> T <sub>E</sub> X	20	<i>Academic writing and visualization.</i>
	■ ■ ■ ■ ■	RStudio	5	<i>Data exploration and visualization.</i>
	■ ■ ■ ■ ■	Python/Jupyter Notebook	4	<i>Integrated Assessment Modeling and visualization of results.</i>
Tools	■ ■ ■ ■ ■	Linear programming	8	<i>GAMS and MESSAGE (IAEA distributed and open-source versions).</i>

## References

Name	Contact
○ Prof. Dr. Ramazan Sari	DTU, Lyngby, Denmark ramsa@dtu.dk
○ Dr. Bora Kat	TÜBİTAK, Ankara, Turkey borakat@gmail.com

## Articles

- [1] G Gungor and R Sari. IAEA CRP Assessment of the Potential Role of Nuclear Energy in National Climate Change Mitigation Strategies. In *Climate Change and the Role of Nuclear Power. Proceedings of an International Conference. Supplementary Files*, 2020.
- [2] G Gungor and R Sari. The Role of Nuclear Energy in Transition Pathways of Turkish Energy Sector. In *The potential role of nuclear energy in national climate change mitigation strategies : final report of a coordinated research project*. IAEA, International Atomic Energy Agency (IAEA), 2020.

- [3] Gökem Güngör. Achieving the net-zero target: A meta-analysis of Turkish energy and climate scenarios, 2023.
- [4] Gorkem Gungor. Utilization of open-source data and tools for assessing hydropower generation, 2024.
- [5] Gorkem Gungor and Ramazan Sari. Turkey's energy system development: linking an energy supply model with an industrial simulation model and solving it iteratively. *International Journal of Innovation and Sustainable Development*, 12(1/2):44, 2018.
- [6] Gorkem Gungor and Ramazan Sari. Nuclear power and climate policy integration in developed and developing countries. *Renewable and Sustainable Energy Reviews*, 169(March):112839, 2022.
- [7] Gorkem Gungor and Ramazan Sari. Meta-analysis of the Turkish energy and climate pathways to achieve the net-zero emission target. *Energy*, 305:132337, oct 2024.

**Görkem Güngör**  
3239 cad. 11/4  
06810  
Ankara-Turkey  
✉ ggungor@mezun.hacettepe.edu.tr

**IPCC**

February 1, 2025

**Letter of Motivation**

Dear Director,

I have an M.S. in Earth System Science from the Middle East Technical University, specializing in Energy, Environmental Economics, and Policy. I have ten years of experience in energy and climate planning, focusing on climate resilience of energy and urban infrastructure. I supervise two junior specialists on long-term energy pathways and climate resilience.

My master's thesis is the outcome of an international project on climate mitigation strategies for determining national contributions. My areas of interest are climate mitigation strategies and the energy sector's resilience against climate extreme events. I kindly apply as an independent researcher for the Special Report on Climate Change and Cities.

Sincerely,

**Görkem Güngör**