

# Gamze Ünlü

Energy, Climate, and Environment (ECE) Program <https://www.linkedin.com/in/gamze-ünlü>  
International Institute for Applied Systems Analysis (IIASA) [unlu@iiasa.ac.at](mailto:unlu@iiasa.ac.at)  
2361 Laxenburg, Austria +43 2236 807 445

## EDUCATION

2019 MSc Complex Systems Engineering and Management, Technical University of Delft  
*“Coupling Power and Heat Sectors as a Flexibility Option”*

2017 BSc Industrial Engineering, Bilkent University

## PROFESSIONAL APPOINTMENTS

- 2019 – present Research Assistant, Energy, Climate, and Environment (ECE) Program,  
International Institute for Applied Systems Analysis (IIASA), Laxenburg,  
Austria
- 2018 – 2019 Graduate Assistant for Master’s Thesis Project, TNO The Netherlands  
Organization for Applied Scientific Research

## AREAS OF INTEREST

Circular economy and material flows, climate mitigation scenarios and integrated assessment modeling

## Submitted Manuscripts

- Riahi et al. *submitted*. Long-term economic benefits of stabilizing warming without overshoot – the ENGAGE model intercomparison. submitted to Nature climate change.
- van Soest et al. *submitted*. A Global Roll-out of Nationally Relevant Policies Bridges the Emissions Gap. submitted to Nature Communications.

## INVITED TALKS

- 2021 UNIDO, IIASA, Austrian Development Agency, Youth for VEF (Vienna Energy Forum) – Meet the Experts, Vienna, Austria, July 5.
- 2021 UNIDO, IIASA, Austrian Development Agency, Vienna Energy Forum Industry Hard to Abate Sectors, Vienna, Austria, February 10.

## CONFERENCE ACTIVITY

- 2020 Ünlü, G. Assessment of the Economic and Environmental Potential of Paris Agreement Article 6. 13th Integrated Assessment Consortium (IAMC) Annual Meeting. December 1-4. Online.

## RESEARCH EXPERIENCE (PROJECTS)

2019 – 2020 **COMMIT**: Climate Policy Assessment and Mitigation Modeling to Integrate National and Global Transition Pathways (contributed to modeling and scenario implementation of good practice policies in MESSAGE model)

2019- present **ENGAGE**: Exploring National and Global Actions to Reduce Greenhouse Gas Emissions (contributing to implementation of feasibility framework for climate mitigation scenarios in MESSAGE model)

2020 – present **NAVIGATE**: Next Generation of Advanced Integrated Assessment Modeling to Support Climate Policy Making (contributing to industry sector modeling and scenario implementation)

2020 – present **SHAPE**: Sustainable development pathways achieving Human well-being while safeguarding the climate and Planet Earth (contributing to industry sector modeling and scenario implementation)

2020 **ALPS**: Alternative Pathways to Sustainable Development and Climate Stabilization (contributed to development of materials module for MESSAGE model)

## REVIEW ACTIVITIES

Duan et al. Embodied carbon emissions of aluminum-containing commodities in international trade: China's perspective. March 2021. Climatic Change

## RELATED PROFESSIONAL SKILLS

Integrated Assessment Modeling (MESSAGEix), Software Module Development on materials flow for MESSAGEix-Materials, Scenario Analysis, Programming Skills (Python, R)

March 2021, M&S Research Hub: Computable General Equilibrium Modelling Training (16 hours)

## NON-ACADEMIC WORK

2018 TU Delft Energy Club, Energy for Refugees Social Awareness Projects: Setting up a solar energy system in the island of Lesbos, Greece for the refugee camp KaraTepe.

2018 -2019 Board member Leiden-Delft-Erasmus Centre for Sustainability, a multidisciplinary research center in which three universities (Rotterdam Erasmus University, TU Delft, Leiden University) join forces.

2014 - 2017- Member of European Youth Parliament