

GLORIA MARIA COLMENARES MONTERO

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RESEARCH AND TEACHING INTERESTS

Economics of energy and the environment, empirical industrial organization, public economics, machine learning, and behavioral economics.

EDUCATION

PhD Student in Economics, University of Münster, Germany July 2017 – 2021
Dissertation title: Essays in Directed Technical Change in Systems Under Transition to a Low-Carbon Economy
Advisor: Andreas Löschel

Visiting Scholar, Program on Energy and Sustainable Development at Stanford, US August – October 2019
Discussed approximations to model conduct parameters in electricity markets. Actively participated in brainstorming sessions for the energy market game upgrade (<http://www.energymarketgame.org/>)
Host: Frank Wolak

MSc. Environmental Management, University of Queensland (UQ), Australia February 2012 – July 2013
Investigated the Biofuels Potential of Peru (<http://espace.library.uq.edu.au/view/UQ:322286>)
Advisor: Liam Wagner

BSc. Civil Engineering, Pontifical Catholic University, Peru. 90th percentile March 1999 – December 2004

WORKING PAPERS

- “The Representation of the Rebound Effect in Energy and Climate Models” with Andreas Löschel and Reinhard Madlener (<https://www.overleaf.com/read/gxprxpjsfcjv>), Conditionally accepted in *Environmental Research Letters*. October 2020
- “Strategies and Expansion of Intermittent Renewables: Disentangling Pass Through Costs in Electricity Markets” with Dominik Schober and Andreas Löschel (<https://www.overleaf.com/read/ckdfqfqtnbj>) September 2020
- “Coronavirus and its Economic and Environmental Impacts on the Electricity Generation Market: A look into the (near) future” with Dominik Schober and Andreas Löschel.
- “What Can Data Tell us about Inelastic Demand or Demand Response under Changing Environments?”

RESEARCH AND TEACHING EXPERIENCE

Research Assistant at the School of Economics, UQ, Australia November 2012 – June 2013

- Assisted Prof. Dr. Juan Carlos Carbajal, now at UNSW Business School, and organized the 31st Australasian Economic Theory Workshop (<https://www.econbiz.de/events/event/31st-australasian-economic-theory-workshop-aetw2013/10009641304>).

Teaching assistant at CEPREPU, Pontifical Catholic University, Peru January 2002 – July 2007

- Instructed algebra and logic tutorials for a class of 30 students.

WORK EXPERIENCE

Energy Transfer Specialist at the Peruvian grid operator, COES SINAC February 2014 – 2017

- Computed monthly transactions of \$40 - \$60MM using optimal power flows to assign capacity payments.

- Analyzed Peruvian energy policies and updated technical procedures to follow changes in the design of the ancillary services market and the transition from a uniform price scheme to a locational marginal price scheme.
- Presented changes in technical procedures for the calculation of locational marginal prices and informed about new payment schemes to integrate renewables at CIER in Uruguay (Latin-America and Caribbean operators' regional meeting) and the Californian Independent System Operator.
- Designed technical procedures to enforce financial guarantees to reduce market exposure.

Structural Engineer at CESEL Engineers

August 2010 – December 2011

- Advised and awarded five contracts of infrastructure projects via first-price auctions between the Peruvian government and private companies, each valued between \$50 - \$100MM.

Project Manager, Telecommunications at Nokia Siemens Network

January 2010 – April 2010

- Managed the rollout plan of 205 wireless broadband stations across Peru including Greenfields, Rooftops and Hybrids, valued at a total of \$30MM.

Project Coordinator, Telecommunications at POCH Peru Engineers

June 2009 – October 2009

- Prepared, advised, and awarded two contracts of telecommunication projects via English auctions between the Peruvian government and Telefónica, each valued between \$10 - \$15MM.

Project Coordinator, Telecommunications at MER GROUP

March 2006 – 2009

- Supervised subcontractors and monitored the impacts of the company's strategies of 303 projects valued at a total of \$15MM. Increased annual profits of the company by 60% and reduced 25% of costs.

RESEARCH GRANTS AND AWARDS

- July 2017 – 2021. KAAD Scholarship €50K for Doctoral Studies. Münster, Germany.
- February 2020. Winner of a 2-min Elevator Pitch talk at the University of Münster, Germany.
- August – October 2019. Visiting scholar at PESD Stanford €5.5K. California, US.
- August 2016. RENAC Renewable energy and grid integration scholarship €3K. Berlin, Germany.
- March 2016. RENAC Bankability of renewable projects scholarship €1K. Lima, Peru.
- December 2011 – July 2013. AusAID Scholarship AU\$40K for Postgraduate Studies. Brisbane, Australia.

PRESENTATIONS

- July 2020. Centrum für angewandte Wirtschaftsforschung Münster. The University of Münster.
- July 2020. Online Summer Workshop in Environment, Energy, and Transportation (OSWEET).
- June 2020. European Association of Environmental and Resource Economists (EAERE) decentralized session N°165.
- June 2020. Online Workshop, Chair of Climate and Energy Policy of the Potsdam Institute for Climate change (PIK).
- February 2020. Chair of energy and sustainability at the Barcelona Institute of economics (UB), Spain.
- January 2020. Egg-timer presentation EMEE 13th Workshop of empirical methods in energy economics, ETH Zürich, Switzerland.
- July 2019. Summer school at the University of Cologne (EWI), Germany.
- July 2019. Summer school 4NEMO at IFO institute, Germany.
- May 2019. Mannheim 8th Energy conference, Germany.
- September 2018. "Hack the Wind" Siemens-Gamesa, Germany, *Finalist*.
- October 2016. California independent system operator seminar for operators (CAISO), US.
- September 2014. Integraciel, Uruguay.

PROFESSIONAL ACTIVITIES

- Referee: *“Energy Research and Social Science”*, Elsevier

SELECTED COURSES

- September 2020. UC Berkeley online course, “The Economics of Energy and the Environment”.
- August 2019. Berkeley/Sloan Summer School in Environmental and Energy Economics.
- March 2012. The Carbon Tax: Early Experience and Future Prospects, School of Economics at UQ, Australia.

IT SKILLS

- R, Python, Stata, Gams, E-views, Octave, MATLAB, @RISK, VBA.
- PSS-E (optimal AC power flow), E-Sankey, SDDP-PSR (hydrothermal dispatch), SCADA, AutoCAD, SAP2000, ETABS, STAAD, SAFE.

LANGUAGES

- Spanish. Mother tongue.
- English fluent.
- German B.2.2.

COMMUNITY INVOLVEMENT

- March 2018 – 2021. Volunteer at Cohaus Vendt Stift. Münster, Germany.
- March – July 2012. Volunteer at Beyond Zero Emissions. Brisbane, Australia.
- November – January 2011. Volunteer at “Grupo PUCP”, development of Rural Projects in Iquitos, Peru.