

## GLORIA MARIA COLMENARES MONTERO

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### RESEARCH AND TEACHING INTERESTS

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

### EDUCATION

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**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.** 90<sup>th</sup> percentile March 1999 – December 2004

### WORKING PAPERS

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- “The representation of the rebound effect in energy and climate models” with Andreas Löschel and Reinhard Madlener ( <https://www.overleaf.com/read/gxprxpjsfcjv> ), Re-submitted to *Environmental Research Letters*. June 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> ) August 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

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**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 31<sup>st</sup> Australasian economic theory workshop ( <https://www.econbiz.de/events/event/31st-australasian-economic-theory-workshop-aetw2013/10009641304> ).

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

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

### WORK EXPERIENCE

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**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 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 the country 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 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**

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- 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**

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- 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 8<sup>th</sup> 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**

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

## **SELECTED COURSES**

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- 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**

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

## **LANGUAGES**

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

## **COMMUNITY INVOLVEMENT**

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- 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.