# RENATO RODRIGUES

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## Long Story Short...

**Work**

UNIVERSITY OF MARYLAND
RESEARCH VISITOR
Maryland 🇺🇸

W  IIT - UPCOMILLAS
RESEARCH CONSULTANT
Madrid 🇪🇸

W  PIK – POTSDAM INSTITUTE FOR
CLIMATE IMPACT RESEARCH
Postdoc Researcher, IAM Lead Developer
Potsdam 🇩🇪

| 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |

**Education**

G  BACHELOR
OF ECONOMICS
UFRJ, Rio de Janeiro 🇧🇷

ECOMOD
MODELING
SCHOOL
Brussels 🇧🇪

C

M  MASTER IN INDUSTRIAL ECONOMICS
UFRJ, Rio de Janeiro 🇧🇷

M  MASTER IN ELECTRIC POWER SYSTEMS
UPComillas, Madrid 🇪🇸

D  PhD IN ELECTRIC POWER SYSTEMS
UPComillas, Madrid 🇪🇸

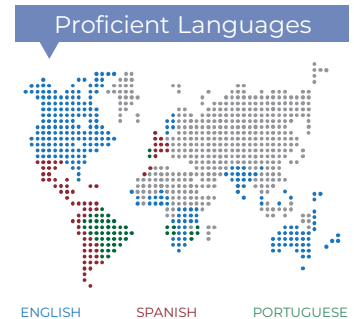Dr. Renato Rodrigues is a economist with over 15 years of experience in energy and economics fields. He holds a PhD in Electrical Engineering, a Master in Industrial Economics and a Master in Power Systems. In 2017, he joined the Department for Transformation Pathways at the Potsdam Institute for Climate Impact Research (PIK) to assume a post-doc position after ten years working in Spain and Brazil with energy markets regulation and operation.

Currently he is one of the lead developers of the REMIND model - a state of art and policy relevant Integrated Assessment Model - and the main developer of the REMIND-EU model version. He is engaged to a number of European decarbonization projects: the Horizon2020 INNOPATHS project; the German KOPERNIKUS research project ARIADNE; the European Climate and Energy Modelling Forum (ECEMF), among others.

### Proficient Languages



ENGLISH          SPANISH          PORTUGUESE

His main professional expertise areas are in regulation and energy economics, climate change mitigation and adaption, decarbonization policies design, transition pathways to low carbon economies, decision support systems in the energy sector and operations research supporting tools.

## Featured Project Participations:

| | | |
|---|---|---|
| 2021-today | ecemf.eu | ECEMF - European Climate and Energy Modelling Forum |
| 2020-today | ariadneprojekt.de | ARIADNE - Paths to climate neutrality by 2045 |
| 2020-today | navigate-h2020.eu | NAVIGATE - Next generation of advanced IAM to support climate policy making |
| 2017-2020 | innopaths.eu | INNOPATHS - Innovation pathways, strategies and policies for the Low-Carbon Transition in Europe |
| 2017-2019 | kopernikus-projekte.de | ENAVI - Energy Transition Navigation System |

more in: https://www.researchgate.net/profile/Renato-Rodrigues-5/projects

# Work Experience:

**Today - 2017**  **Potsdam Institute for Climate Impact Research (PIK)**
Sustainable Solutions - Research Domain III

**European leading institution in climate impact research**

Main work focus:

- REMIND-EU model lead developer.
- Evaluation of climate neutrality pathways and decarbonization policy design.
- Implementation and analysis of European Green Deal policies.
- Country specific mitigation policy implementation and analysis, e.g. Germany.

**2015 - 2008**  **Institute for Research in Technology (IIT)**

**Spanish leading institution in development of energy supporting decision tools**

Main work focus:

- Lead developer of a new Spanish General Equilibrium model (GEMED), focused on electricity policy design and economy wide repercussions
- Evaluation of energy policies welfare impact, double dividend opportunity, electricity demand response policies, transport decarbonization.

# Featured Publications:

| 2022 | **Nature Energy** | Impact of declining renewable energy costs on electrification in low-emission scenarios<br>G Luderer, R Rodrigues, S Madeddu, L Merfort, F Ueckerdt, M Pehl, R Pietzcker, … |
|---|---|---|
| 2022 | **Energy** | Narrative-driven alternative roads to achieve mid-century CO2 net neutrality in Europe<br>R Rodrigues, R Pietzcker, P Fragkos, J Price, W McDowall, P Siskos, … |
| 2021 | **Applied Energy** | Tightening EU ETS targets in line with the European Green Deal: Impacts on the decarbonization of the EU power sector<br>R Pietzcker, S Osorio, R Rodrigues |
| 2021 | **Geoscientific Model Development** | REMIND2. 1: transformation and innovation dynamics of the energy-economic system within climate and sustainability limits<br>L Baumstark, R Rodrigues, N Bauer, F Benke, C Bertram, S Bi, CC Gong, JP Dietrich, … |
| 2020 | **Environmental Research Letters** | Common but differentiated leadership: strategies and challenges for carbon neutrality by 2050 across industrialized economies<br>F Schreyer, G Luderer, R Rodrigues, RC Pietzcker, L Baumstark, … |
| 2020 | **Energy** | How uncertainty in technology costs and carbon dioxide removal availability affect climate mitigation pathways<br>A Giannousakis, R Rodrigues, J Hilaire, GF Nemet, G Luderer, R Pietzcker, … |
| 2019 | **Edward Elgar Publishing** | Fiscal policy for decarbonisation of energy in Europe, with a focus on urban transport: case study and proposal for Spain<br>D Robinson, P Linares Llamas, X López-Otero, R Rodrigues |
| 2015 | **Energy Economics** | Electricity load level detail in computational general equilibrium–part II–welfare impacts of a demand response program<br>R Rodrigues, P Linares |
| 2014 | **Energy economics** | Electricity load level detail in computational general equilibrium–Part I–Data and calibration<br>R Rodrigues, P Linares |
| 2011 | **Handbook of Sustainable Energy** | Energy-Economic-Environmental models: a survey<br>R Rodrigues, AG Gómez-Plana, M González-Eguino |

more in: https://scholar.google.com/citations?hl=en&user=uZLR5fgAAAAJ