

## PERSONAL INFORMATION

Prof. Dr. Pao-Yu Oei



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Sex Male | Nationality German

## WORK EXPERIENCE

- From March 2021 onwards **Full Professor for “Economics of Energy System Transformation” at Europa Universität Flensburg**
- Head of the Department Energy and Environment Management
  - Supervising 15 PhD-students
  - Head of Study Program Industrial Engineering - Energy and Environment Management
- October 2017 – February 2021 **Head of 20-member Research Group “CoalExit” at TU Berlin**
- Designing a socially acceptable framework for an upcoming coal phase-out in Germany and Europe as well as lessons for other countries.
  - Supervising PhD-students, Teaching Operations Research as well as Energy& Climate Policy.
  - (Inter-)national Policy Advisory Tasks in various projects.
- December 2013 - Present **Guest Researcher at German Economic Research Institute (DIW Berlin)**  
Department Energy, Transportation, Environment (EVU)
- May 2016 – September 2019 **Managing Editor Journal “Economics of Energy & Environmental Policy” (EEEP)**  
International Association of Energy Economics (IAEE).
- April 2016 – September 2017 **Post-Doctoral Researcher at TU Berlin**  
Workgroup for Economic and Infrastructure Policy (WIP)
- February 2013 – March 2016 **Research Associate at TU Berlin**  
Workgroup for Economic and Infrastructure Policy (WIP)
- April 2010 – February 2013 **Research Assistant at TU Berlin and DIW Berlin**  
Workgroup for Economic and Infrastructure Policy (WIP)

## EDUCATION AND TRAINING

- April 2016 - 2020 **Habilitation**  
Technische Universität Berlin (TU Berlin) at the School of Economics and Management.  
Topic: Designing Socially Just and Economically Viable Fossil-Fuel Phase-Out Pathways
- October 2012 – December 2015 **PhD in Economics (Dr. rer. Oec. ; summa cum laude)**  
TU Berlin
- April 2007 – June 2012 **Industrial Engineering (Dipl.-Ing. ; very good)**  
TU Berlin

## MANAGERIAL SKILLS

- Supervising a team of 20-30 research members in Flensburg and Berlin
- Managing the research hub [www.coaltransition.org](http://www.coaltransition.org) as international research platform, independent from any particular funding institution or project duration
- Project lead and coordination of research projects on coal, energy, climate and structural policy. Acquisition of more than 13 million € of research grants since 2015 (30% own funding; 70% funding for partners)
- Member of international energy policy partnership delegations and involvement in the process of the German “Coal Commission”
- Organisation of several academic seminar series and events
- Supervision of >50 bachelor and master thesis
- More than 100 publications (including 25 peer-reviewed journal articles) on topics of energy, environment and climate– especially examining the phase-out of fossil fuels, enabling a transition to 100% renewable energies and a just transition of affected regions
- 10 years of work experience

## SELECTED PROJECTS

- Carbon Intensive Regions in Transition - Unravelling the Challenges of Structural Change (CINTRAN) (2020-2024) with Wuppertal Institute, SPRU, Chalmers, E3Modelling, funded by the European Commission
- Open ENergy TRAnsition ANALyses for a low-carbon Economy (Open Entrance) (2019-2023); H2020 Project LC-SC3-2018-NZE-CC, joint project with Sintef, NTNU, IIASA, EdF et al., funded by the European Commission
- CoalExit: Economics of Coal Phase-Out – Identifying Building Blocks for Future Regional Transition Frameworks (2017-2022), Partners Hertie School of Governance, DIW Berlin, HU Berlin, funded by the German BMBF
- Future of fossil fuels in the wake of greenhouse gas neutrality (FFF) (2018-2021) with DIW Berlin and PIK, funded by the German BMBF
- Coordinator of the Cluster: Climate Change and Transformation (2019-2022), joint project with PIK and MCC Berlin, funded by the German BMBF
- Comprehensive, Whole-of-Government Strategies on Coal Transition in Major Coal Using Countries (2017-2019), joint project with IDDRI, Climate Strategies, et al., funded by KR Foundation
- Meta study for the Coal Commission: Phasing out Coal in the German Energy Sector. Interdependencies, Challenges and Potential Solutions (2017-2019), joint project with Wuppertal Institute, Ecologic Institute, funded by the German BMU
- Structural Change in Coal-mining Regions as a Process of an Economic and Socio-Ecological Transformation – Options for a Fair and Socially Acceptable Structural Change in the Light of Climate Policy Targets (2016-2019), joint project with Wuppertal Institut, ifo Institut, IAT, E3G, Innovationsregion Lausitz, Wirtschaftsförderung metropoluhr, funded by the German Umweltbundesamt
- Climate Protection and Coal Exit: Policy Strategies and Measures up to 2030 and Beyond (2016-2019), joint project with IZES, IWH and Öko-Institut, funded by the German Umweltbundesamt

## SELECTED PUBLICATIONS

- Brauers, H. / Oei, P. / Walk, P.: Comparing coal phase-out pathways: The United Kingdom's and Germany's diverging transformations. *Environmental Innovation and Societal Transition*. Upcoming.
- Brauers, H. / Oei, P.: The political economy of coal in Poland: Drivers and hurdles for a shift away from fossil fuels. *Energy Policy*. DOI: 10.1016/j.enpol.2020.111621.
- Oei, P., et al. (2020): Lessons from modeling 100% renewable scenarios using GENeSYS-MOD. *Economics of Energy & Environmental Policy* 9 (1). DOI: 10.5547/2160-5890.9.1.poei
- Oei, P. / Hermann, H. / Herpich, P. / Holtemöller, O. / Lünenbürger, B. / Schult, C.: Coal phase-out in Germany - Implications and policies for affected regions. *Energy*. DOI: 10.1016/j.energy.2020.117004
- Kittel, M. / Göke, L. / Kemfert, C. / Oei, P. / von Hirschhausen, C.: Scenarios for Coal Exit in Germany - A Model-Based Analysis and Implications in the European Context. *Energies*. DOI: 10.3390/en13082041
- Oei, P. / Brauers, H. / Herpich, P.: Lessons from Germany's Hard Coal Mining Phase-out - Policies and Transition from 1950 to 2018. *Climate Policy*. Doi: 10.1080/14693062.2019.1688636
- Stognief, N. / Walk, P. / Schöttker, O. / Oei, P.: The Economic Resilience of German Lignite Regions in Transition. *Sustainability*. DOI: 10.3390/su11215991.
- Löffler, K. / Burandt, T. / Hainsch, K. / Oei, P.: Modeling the Low-Carbon Transition of the European Energy System – A Quantitative Assessment of the Stranded Assets Problem. *Energy Strategy Reviews*. DOI: 10.1016/j.esr.2019.100422.
- Burandt, T. / Löffler, K. / Xiong, B. / Oei, P.: Decarbonization pathways for the Chinese energy system. *Applied Energy* 255.
- Bartholdsen, H.-K. / Eidens, A. / Löffler, K. / Seehaus, F. / Wejda, F. / Burandt, T. / Oei, P.-Y. / Kemfert, C. / von Hirschhausen, C. (2019): Pathways for Germany's Low-Carbon Energy Transformation Towards 2050. *Energies* 12(15), 2988.
- Gerbaulet, C. / von Hirschhausen, C. / Kemfert, C. / Lorenz, C. / Oei, P. (2019): European electricity sector decarbonization under different levels of foresight. *Renewable Energy*. 2019. DOI: 10.1016/j.renene.2019.02.099.
- Oei, P. / Mendelevitch, R.: "Prospects for Steam Coal Exporters in the Era of Climate Policies - The Colombian Case" in *Climate Policy*. DOI: 10.1080/14693062.2018.1449094.
- Lawrenz, L. / Xiong, B. / Lorenz, L. / Krumm, A. / Hosenfeld, H. / Burandt, T. / Löffler, K. / Oei, P. / von Hirschhausen, C.: Exploring Energy Pathways for the Low-Carbon Transformation in India - A Model-Based Analysis. *Energies* 2018, 11(11), 3001.
- Löffler, K. / Hainsch, K. / Burandt, T. / Oei, P. / Kemfert, C. / von Hirschhausen, C.: Designing a Model for the Global Energy System - GENeSYS-MOD: An Application of the Open-Source Energy Modeling System (OSeMOSYS). *Energies* 2017, 10(10), 1468.