

# Jonathan Mühlenpfordt

## SHORT BIO

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Jonathan Mühlenpfordt is a consultant at Neon. He is an economist and an expert on data analysis, especially for power system data. At Neon, Jonathan has advised clients across the private and public sectors, including Germany's Ministry for Economic Affairs the European Commission, the European Parliament and several TSOs and electricity trading houses . He is well versed in a number of programming languages, including Python and R. He has worked on the implementation of the [Open Power System Data](#) platform and on a review of the EN-TSO-E Transparency Platform. Jonathan holds a Bachelor's degree in economics and political science and a Master's degree in economics. Previous work experience includes the German Transmission system operator 50Hertz and the European Parliament.

## POSITIONS

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- 2015 – present    **Consultant at Neon**  
Neon Neue Energieökonomik GmbH is a Berlin-based boutique consulting firm for energy economics. Jonathan is a data specialist and programmer at Neon.
- 2019 –2020        **Intern and Master thesis at 50Hertz, trading department**  
50Hertz is the Transmission System Operator in Eastern Germany. Jonathan developed and implemented machine learning models for forecasting intra-day and balancing energy prices.
- 2014 - 2015        **Intern risk control at Nord/LB**  
The Norddeutsche Landesbank is one of the largest commercial banks in Germany. Jonathan developed a range of applications to be employed in the calculation of liquidity and refinancing risk
- 2013 - 2014        **Intern with Rebecca Harms MEP**  
Rebecca Harms was the president of the Greens/EFA Group in the European Parliament, focusing on energy and foreign policy. Jonathan assisted her in organizational matters and campaigning.

## Education

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- 2015 – 2020        **Economics (M.Sc.), Humboldt University of Berlin**  
GPA: 1.6 (B+)
- 2008 – 2013        **Economics and Political Science (B.Sc.), Leuphana University Lüneburg**  
GPA: 1.5 (A-), best graduate of the year

1993 – 2006

**Rudolf-Steiner-Schule Hamburg-Harburg**

GPA: 1.4 (A-), best graduate of the year

## PROJECT HIGHLIGHTS

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2023

**Electricity market reform (European Parliament).** Assessment of electricity market reform proposals such as CfDs, PPAs, price caps, and peak shaving. Joint project with Bruegel for ITRE committee. Jonathan coordinated Neon's work in the project and contributed analyses of the reform proposals on flexibility support schemes and energy sharing. [Report](#)

2022-23

**Coal exit (BMWK).** Germany's government committed to cancel carbon certificates along with its coal exit. In this project with Aurora, we provided estimates how many certificates to delete. Jonathan led the project and was responsible for modeling the effect of the market stability reserve in the EU-ETS.

2022

**Nodal pricing model (TSO).** Development of a GAMS load flow model of Europe for simulations of locational marginal prices. Jonathan contributed to model development and plausibility testing

2021

**Intraday / balancing (multi client).** For a group of German electricity trading houses, we assessed the German intraday electricity market. Using state-of-the-art econometrics, we found the activation of balancing reserves to be followed by price movements. Jonathan implemented all quantitative analyses. [Report](#).

2018-2020

**Open modeling (BMW).** Study on open source energy system modeling and open data in the energy sector for BMW. Neon lead a consortium of DIW Berlin, TU Berlin and ETH Zurich. Jonathan led the implementation of the Open Power System Data Platform. [Report](#) | [Paper](#)