

- **Education and key qualifications**

- 2023 Qualification as Associated Professor in **Applied Economics** (SECS-P/06)
- 18/02/2019 **PhD in Engineering and Information Science**
Department of Information Engineering and Mathematics, University of Siena, Italy
Thesis: “*Towards the Integration of Electricity Markets: System-wide and Local Solutions*”
Supervisor: Prof. Antonio Vicino
- 2014 **Master in Finance** – Grade: 110/110 cum laude
School of Economics, University of Siena, Italy
- 2011 **Bachelor in Economics** – Grade: 110/110 cum laude
School of Economics, University of Macerata, Italy

- **Current position**

- 2024 - Present **Marie-Curie Research Fellow** project “GREENER – Navigating energy storage challenges: profitability and net zero goals in Europe's energy transition”
Centre for Research on Geography, Resources, Environment, Energy & Networks (GREEN), Bocconi University, Italy

- **Previous position(s)**

- 2023 - 2024 **Principal Investigator** of the project “Decarbonising the energy system by incentivising energy storages in the right places”, funded with €150.000 by the Italian Ministry of University and Research (funds for young researchers).
Bocconi University, Italy
- 2021 - 2022 Research Associate
Department of Engineering, University of Edinburgh, UK
- 2019 - 2021 Postdoctoral Researcher
School of Geography and the Environment, **University of Oxford**, UK

- **Honors & Awards**

- 2020 **1st prize - Best conference paper award** - 17th European Energy Market Conference (EEM), Stockholm, Sweden, 2020. Paper title: “Nodal and fixed price coexistence in distribution networks with optimal investment planning and tariff design”.

- **Scientific committees**

- 2023 **Member of the Scientific Committee** for the 18th International Association for Energy Economics (IAEE) European Conference, Milan, 2023. www.iaee.it/iaee_2023

- **International collaborations**

- 2019 - 2021 Member of the Energy Revolution (EnergyREV) Consortium with more than **60 academics**.
I led Tasks 5 and 6 within the WP3.2 (EPSRC EP/S031901/1) for the £8m EnergyREV consortium, designing new mechanisms to integrate smart local energy systems into national electricity markets.

- **Keynote speaker / Chair**

2023 **Keynote speaker dual-plenary** session on “**Energy Transition: the EU Roadmap to 2050**” at the 18th International Association for Energy Economics (IAEE) European Conference, Milan, 24-27 July 2023.

2023 **Chair of the parallel session** on “Energy storage: case studies” at the 18th International Association for Energy Economics (IAEE) European Conference, Milan, 24-27 July 2023.

- **Funding**

2024 - Present **Marie-Curie European Fellowship**, project “**GREENER – Navigating energy storage challenges: profitability and net zero goals in Europe's energy transition**”, **€172k**.

Topic: investigating how storage deployment could cannibalise its own market and the effect it can have on reaching net zero carbon emissions. Funding source: EU.

2023 - 2024 **Principal Investigator**, project: “Decarbonising the energy system by incentivising energy storages in the right places”, **€150k**.

Topic: investigating the role of grid-scale batteries on welfare and carbon emissions in the Italian energy system. Funding source: Italian Ministry of University and Research, funds for Young Researchers (CUP J47G22000430001).

2021 - 2022 **Co-Investigator**, project: “A new design paradigm to incentivise low-carbon technologies in the UK”, **£32k**.

Topic: Peer-reviewed project within the Energy Revolution Consortium (EP/S031863/1) to develop new incentive schemes for renewables in the UK. Funding source: UKRC.

- **Affiliation**

2024 - Present Affiliated Scientist at RFF-CMCC EIEE.

- **Teaching**

2020 - 2022 “**Electricity Market Laboratory**” module, 2 x 3 hours, within the MSc in Energy Systems, University of Oxford.

2019 “**Energy Market**”, **30 hours**, within the “Electric System and Energy Market” course, Department of Engineering, University of Siena.

2016 - 2018 “**Models for Financial Applications**” (teaching assistant) **20 hours x 3 years**. Time series analysis (ARIMA, ARCH/GARCH), Department of Engineering, University of Siena.

- **Engagement with Policymakers**

2023 Written evidence on the amendments to **European Union Electricity Regulation 2019/943**, Electricity Directive (EU) 2019/944 and Regulation (EU) No 1227/2011 (REMIT), May 2023.

2022 Engagement with the **Department for Business, Energy and Industrial Strategy, UK Gov.** for developing a new design paradigm to incentivise low-carbon technologies in the UK, 2022.

2021 **Environmental Audit Committee, UK**. Written evidence on “Technological Innovations and Climate Change: Community Energy”.

- **Supervision**

- **Postdoctoral researchers:**

2022 – Present Dr Mostafa Nosratabadi, University of Oxford

- **PhD candidates:**
 - 2021 – Present Ms Xia Yuxin, University of Edinburgh
 - 2021 – Present Ms Xiyu Ren, University of Oxford
- **Master's students:**
 - 2021 – 2022 Mr Sequera Jimenez Francisco, University of Edinburgh
 - 2020 – 2021 Mr Evan Chee Ng, University of Oxford
 - 2019 – 2020 Mr Armen Danielian, University of Oxford

- **Journal papers**

- 2024 **I Savelli**, D Howey, T Morstyn, Location matters for large-scale energy storage policy: spillover effects for balancing costs and carbon emissions across Italy, Under review. Preprint DOI: <http://dx.doi.org/10.13140/RG.2.2.30946.95686>
- 2024 R Xiu, **I Savelli**, T Morstyn, Making resource adequacy a private good: The good, the bad, and the ugly, *Joule*
- 2023 **I Savelli**, HR Bokkissam, P Cuffe, T Morstyn, On-demand energy flexibility market via smart contracts to help reduce balancing costs in Great Britain, *Energy Economics*, 126
- 2023 F Billimoria, F Fele, **I Savelli**, T Morstyn, M McCulloch, An Insurance Paradigm for Improving Power System Resilience via Distributed Investment, *IEEE Transactions on Energy Markets, Policy and Regulation*
- 2023 A Parede, J Aguado, C Essayeh, Y Xia, **I Savelli**, T Morstyn, Stacking Revenues from Flexible DERs in Multi-Scale Markets using Tri-Level Optimization, *IEEE Transactions on Power Systems*
- 2023 **I Savelli**, T Morstyn, The energy flexibility divide: An analysis of whether energy flexibility could help reduce deprivation in Great Britain, *Energy Research & Social Science* 100
- 2023 P Grunewald, M Aunedi, SM Nosratabadi, T Morstyn, **I Savelli**, et al., Taking the long view on short-run marginal emissions: how much carbon does flexibility and energy storage save?, *Oxford Energy*
- 2022 **I Savelli**, J Hardy, C Hepburn, T Morstyn, Putting wind and solar in their place: Internalising congestion and other system-wide costs with enhanced contracts for difference in Great Britain, *Energy Economics* 113
- 2022 F Billimoria, F Fele, **I Savelli**, T Morstyn, M McCulloch, An insurance mechanism for electricity reliability differentiation under deep decarbonization, *Applied Energy* 321
- 2021 **I Savelli**, T Morstyn, Electricity prices and tariffs to keep everyone happy: a framework for fixed and nodal prices coexistence in distribution grids with optimal tariffs for investment cost recovery, *Omega* 103
- 2021 **I Savelli**, T Morstyn, Better together: Harnessing social relationships in smart energy communities, *Energy Research & Social Science* 78
- 2021 T Morstyn, **I Savelli**, C Hepburn, Multiscale design for system-wide peer-to-peer energy trading, *One Earth* 4 (5)
- 2020 **I Savelli**, A De Paola, F Li, Ex-ante dynamic network tariffs for transmission cost recovery, *Applied Energy* 258
- 2019 B Cornélusse, **I Savelli**, S Paoletti, A Giannitrapani, A Vicino, A community microgrid architecture with an internal local market, *Applied Energy* 242
- 2018 **I Savelli**, B Cornélusse, A Giannitrapani, S Paoletti, A Vicino, A new approach to electricity market clearing with uniform purchase price and curtailable block orders, *Applied energy* 226
- 2017 **I Savelli**, A Giannitrapani, S Paoletti, A Vicino, An optimization model for the electricity market clearing problem with uniform purchase price and zonal selling prices, *IEEE Transactions on Power Systems* 33

- **Conference Proceedings**

- 2024 Y Xia, **I Savelli**, T Morstyn, An Incentive Regulation Approach for Balancing Stakeholder Interests in Transmission Investment, 23rd Power Systems Computation Conf. (PSCC), Paris-Saclay, France.
- 2024 **I Savelli**, Y Xia, T Morstyn, An incentive scheme for storage investments to help reduce carbon emissions, 45th IAEE International Conference, Istanbul, Turkey.
- 2023 **I Savelli**, M Percoco, The effect of deploying large-scale energy storages in Italy, 18th IAEE European Conference, Milan, Italy.

- 2023 B Bird, HR Bokkissam, **I Savelli**, T Morstyn, P Cuffe, Towards a Blockchain Implementation of a Governance & Revenue Dispersal Mechanism for Investments in Battery Energy Storage Systems, IEEE PowerTech, Belgrade, Serbia.
- 2022 HR Bokkissam, **I Savelli**, T Morstyn, P Cuffe, Towards a distributed autonomous organisation for financing, governing and disbursing revenues of a battery energy storage system, IEEE 1st Global Emerging Technology Blockchain Forum, Irvin, California.
- 2020 A De Paola, **I Savelli**, T Morstyn, A novel ex-ante tariff scheme for cost recovery of transmission investments under elasticity of demand, 17th International Conference on the European Energy Market, Stockholm, Sweden.
- 2020 **I Savelli**, C Hepburn, T Morstyn, Nodal and fixed price coexistence in distribution networks with optimal investment planning and tariff design, 17th International Conference on the European Energy Market, Stockholm, Sweden.
- 2019 S Paoletti, **I Savelli**, A Garulli, A Vicino, A bilevel programming framework for piecewise affine system identification, IEEE 58th Conference on Decision and Control, Nice, France.
- 2019 **I Savelli**, B Cornélusse, S Paoletti, A Giannitrapani, A Vicino, A local market model for community microgrids, IEEE 58th Conference on Decision and Control, Nice, France.
- 2019 L Duchesne, B Cornélusse, **I Savelli**, Sensitivity analysis of a local market model for community microgrids, IEEE PowerTech, Milan, Italy.
- 2018 **I Savelli**, A Giannitrapani, S Paoletti, A Vicino, B Cornélusse, Introducing block orders in the Italian day-ahead electricity market, 15th Int. Conf. on the European Energy Market, Lodz, Poland.
- 2017 **I Savelli**, A Giannitrapani, S Paoletti, A Vicino, An exact solution to the market clearing problem with uniform purchase price, IEEE PES Innovative Smart Grid Technologies Conf. Europe, Turin, Italy.