

FILIPPO BOVERA



PERSONAL INFORMATION

Born	19/07/1991
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Nationality	Italian

WORK EXPERIENCE

The research activity currently focuses on three main directions.

- (i) Modelling and optimization of integrated, smart multi-energy systems, with a special attention to sector-coupling and flexibility provision issues.
- (ii) Policy and regulation of electricity networks and markets, especially concerning regulatory experimentation.
- (iii) Statistical inference and machine learning techniques applied to electricity markets.

2021 - ongoing	Postdoctoral Researcher (RTD-A) POLITECNICO DI MILANO, Energy Department
2017 - 2021	PhD Student POLITECNICO DI MILANO, Energy Department

INSTITUTIONAL TASKS

2022 - ongoing	University Energy Manager (Italian Law 10/91) POLITECNICO DI MILANO Representative of Politecnico di Milano at RUS – Rete Università Sostenibili (https://reterus.it/) Coordinator of the RUS sub-group on Energy Communities (Energy WG)
2018 – ongoing	Member of Commissione Energia POLITECNICO DI MILANO (https://www.commissionenergia.polimi.it/)

TEACHING ACTIVITY

2017 – ongoing	Teacher POLITECNICO DI MILANO Master of Science courses: <ol style="list-style-type: none">(i) Regulation of Electric Power Systems – MSc in Electrical Engineering(ii) Smart Grids and Regulation for Renewable Energy Resources – MSc in Energy Engineering First and second level specializing courses: <ol style="list-style-type: none">(iii) RIDEF 2.0 - reinventare l'energia – Energy Department, Politecnico di Milano(iv) Percorso Executive in Energy Management – MIP Graduate School of Business, Politecnico di Milano(v) Strategic and Innovative O&M Management – Politecnico di Milano and ENEL Group(vi) Master Smart Grids - Politecnico di Milano and ENEL Group(vii) Terna Academy – Politecnico di Milano and Terna SpA
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RESEARCH PROJECTS

2022 – ongoing	ENELFLEX Program of Environment of the United Nations (UNEP) Digital Demand-Driven Electricity Networks (3DEN) programme intending to implement advanced digitization of DSO network solutions for demand response and flexibility solutions.
2018 – 2021	ENERGYNIUS European Funds for Regional Development (POR-FESR)

	Evolution of smart multi energy districts (electricity, heat and cold) in tertiary and industrial sectors for the optimization of environmental, social and economic aspects.
2018 – 2021	Merezzate+ Climate-KIC Program Integration of efficient energy resources and sustainable practices within social housing contexts, focusing on residential demand side management and on final users engagement.
2018 – 2020	InteGRIDy Horizon 2020 Program (European Commission) Integration of electrochemical storages in distribution grids, evaluating different business solutions according to the energy scenarios prospected in diverse EU countries.

EDUCATION

Sept 2022	Training on Energy Communities Council of European Energy Regulators (CEER) <i>Specialised training on regulation of energy communities and new business models in the energy sector</i>
Nov. 2020	Moxoff Academy MOXOFF <i>Specialization course in applied mathematics, distributed computing and data science for industrial application.</i> Credential badge: credential.net/6a0aab03-8092-4c19-8d5b-1cb98566d2cc#gs.a0qosu
Nov.2017 – Jul. 2021	PhD in Electrical Engineering POLITECNICO DI MILANO <i>Analysis and simulation of technical, economic and regulatory aspects linked to the provision of ancillary services by production and consumption units aggregated at a distribution network level.</i> Final dissertation: “United We Stand: how aggregates of distributed resources can shape the future energy system” Grade: cum laude
Oct. 2014 – Apr. 2017	MSc in Energy Engineering POLITECNICO DI MILANO <i>Renewable and sustainable resources, environmental safety and smart grids.</i> Final dissertation: “Optimization tool for the sizing of a CCHP plant in the new energy market framework” Grade: 110/110 cum laude

SELECTED PUBLICATIONS

2022	From energy communities to sector coupling: a taxonomy for regulatory experimentation in the age of the European Green Deal F.Bovera, L. Lo Schiavo Energy Policy. (https://doi.org/10.1016/j.enpol.2022.113299)
2022	Revenue stacking for BESS: fast frequency regulation and balancing market participation in Italy G.Rancilio, F.Bovera, M.Merlo International Transactions on Electrical Energy Systems. (https://doi.org/10.1155/2022/1894003)
2022	Tariff-based regulatory sandboxes for EV smart charging: impacts on the tariff and the power system in a national framework G.Rancilio, F.Bovera, M.Delfanti International Journal of Energy Research. (https://doi.org/10.1002/er.8193)
2021	Energy communities design optimization in the Italian framework M.Zatti, M.Moncecchi, M.Gabba, A.Chiesa, F.Bovera, M.Merlo Applied Sciences. (https://doi.org/10.3390/app11115218)
2021	Data-driven evaluation of secondary and tertiary reserve needs with high renewables penetration: the Italian case F.Bovera, G.Rancilio, D.Falabretti, M.Merlo Energies. (https://doi.org/10.3390/en14082157)
2021	Regulating electricity distribution networks under technological and demand uncertainty F.Bovera, E.Fumagalli, M.Delfanti, L.Lo Schiavo, R.Vailati Energy Policy. (https://doi.org/10.1016/j.enpol.2020.111989)

Autorizzo il trattamento dei miei dati personali ai fini di attività di ricerca e selezione del personale ai sensi dell’art. 13 d.lgs. 196/2003 e dell’art. 13 GDPR 679/16.
I authorize the processing of personal data contained in my curriculum vitae for personnel searching and recruiting purposes based on art. 13 GDPR 679/16.

Milano, li 27/07/2023

Sincerely
