

Curriculum Vitae 2026

Name and surname: Jorge SOUSA
Position in ACER: Member of the Administrative Board

I. PROFESSIONAL EXPERIENCE

OCCUPATION / POSITION HELD	START DATE	END DATE	EMPLOYER	MAIN ACTIVITIES OR RESPONSIBILITIES
Associate Professor at Técnico	2025	till present	Técnico / University of Lisbon	Electricity Markets / Renewable energy / Energy Economics / Energy Storage
President of APEEN, the Portuguese Association for Energy Economics	2020	2025	APEEN – Portuguese Association for Energy Economics / IAEE	President of the Portuguese Association for Energy Economics (APEEN), an affiliate member of the IAEE –
President of ISEL, the Lisbon Engineering Institute	2016	2020	ISEL / Polytechnic University of Lisbon	The highest governing and representative body of the institution. Executive body that leads the institution's policy and presides over the Management Council, the Scientific-Technical Council, the Pedagogical Council, and the Strategic Advisory Council.
Head of the Electrical Engineering Department at ISEL	2014	2016	ISEL / Polytechnic University of Lisbon	Responsible for representing the Department and chairs over the plenary sessions, the coordinating council, and the executive committee. Supervises the execution of all activities within the Department and ensures the proper handling of administrative duties.

Professor at ISEL (Coordinate, Adjunct and Assistant Professor)	1998	2025	ISEL / Polytechnic University of Lisbon	Head of the Energy Systems Group (2003-2024) and Energy Systems Research Group. Course Coordinator of the BSc degree in Electrical Engineering (2004-2006). Curricular units: Energy Markets, Mathematical Programming, Energy Economics, Circuit Analysis I, II and III, Advanced Energy Systems Analysis.
Invited Professor at FCT/NOVA	2009	2013	Faculty of Science and Technology, Universidade Nova de Lisboa	Teaching Renewable Energy Economics course in the Renewable Energy Master's program.
Associate Researcher at MIT/CEEPR	2008	2011	MIT - Center for Energy and Environmental Policy Research	Associate researcher at the CEEPR - Center for Energy and Environmental Policy Research of the MIT - Massachusetts Institute of Technology.
Visiting Professor at SEUA	2000	2001	SEUA – State Engineering University of Armenia	Responsible for organizing and teaching the courses: Engineering Economics, Economic Analysis of Power Systems Utilities, Models for Energy Systems, Economic Regulation of Energy Companies.
Senior Engineer at EDP	1997	1998	EDP – Energias de Portugal	Engineer in the High Voltage Department. Areas of shielded substations, power transformers, voltage quality, overhead lines protection against lightning strikes.
Project Engineer at the Portuguese Army	1996	1997	Portuguese Army - Engineering Services Directorate	Low-voltage electrical installations project for the Special Installations at the Engineering Services Directorate of the Portuguese Army
Model Developer at EDF	1995	1996	EDF – Electricité de France	Model Developer at EDF R&D, with development and implementation electrical transmission line model within the ARENE real-time digital simulator, enabling real-time analysis of transients for equipment testing.

II. EDUCATION

OCCUPATION / POSITION HELD	START DATE	END DATE	NAME AND TYPE OF ORGANISATION	PRINCIPAL SUBJECTS COVERED
Habilitation in Electrical and Computer Engineering / Sustainable Energy Systems	2025	2025	Técnico / University of Lisbon - Portugal	Optimal Dispatch of Power Systems Resources with Embedded Energy Storage Technologies.
PhD Economics / Industrial Economics	2001	2005	NOVA School of Business and Economics - Portugal	Impacts of Electricity Markets Integration / Applications to the Iberian Electricity Market (MIBEL).
MSc Electrical and Computer Engineering / Energy Systems	1995	1997	Técnico / University of Lisbon & EDF – Electricité de France	Modelling of Overhead Transmission Lines. Real Time Digital Simulation of Electromagnetic Transients.
Licentiate in Electrical and Computer Engineering (5-year degree)	1989	1994	Técnico / University of Lisbon & University of Bath	Power Systems Specialization. Final project in Fault Arc Modelling and Simulation using the EMTP.

III. TRAINING SEMINARS (short list as lecturer)

OCCUPATION / POSITION HELD	START DATE	END DATE	NAME AND TYPE OF ORGANISATION	PRINCIPAL SUBJECTS COVERED
Lecturer	2024	2024	AP2H2 – Portuguese Association for the Hydrogen Promotion	The role of low-carbon hydrogen in for the decarbonisation of the energy sector.
Lecturer	2024	2024	KU Leuven	Electric vehicles and renewables: A powerful synergetic match towards decarbonization.
Lecturer	2024	2024	KU Leuven	Electricity supply and demand trends in future energy systems.



Lecturer	2016	2016	IAEE Istanbul Summer School	Investment and Trading in Electricity Markets.
----------	------	------	-----------------------------	--

IV. PUBLICATIONS (short list of the most relevant publications)

TITLE	PUBLISHED	DESCRIPTION
Welfare-maximizing market procurement of flexibility services for distribution network planning	2026	Utilities Policy, Vol. 98, 2026. (DOI: https://doi.org/10.1016/j.jup.2025.102086)
Optimal Investment and Sharing Decisions in Renewable Energy Communities with Multiple Investing Members	2025	Energies, 18, 1920, 2025. (DOI: https://doi.org/10.3390/en18081920)
Impact of demand flexibility on renewable energy integration, backup capacity, storage use and dispatchable generation: A case study for Portugal's 2030 National Energy plan	2025	Energy, Vol. 320, 2025. (DOI: https://doi.org/10.1016/j.energy.2025.135270)
Decarbonizing Hard-to-Abate Sectors with Renewable Hydrogen: A Real Case Application to the Ceramics Industry	2024	Energies 17, 3661, 2024. (DOI: https://doi.org/10.3390/en17153661)
Renewable energy communities optimal design supported by an optimization model for investment in PV/wind capacity and renewable electricity sharing	2023	Energy, Vol. 271, 2023. (DOI: https://doi.org/10.1016/j.energy.2023.126977)
SWHORD simulator: A platform to evaluate energy transition targets in future energy systems with increasing renewable generation, electric vehicles, storage technologies, and hydrogen systems	2023	Energy, Vol. 271, 2023. (DOI: https://doi.org/10.1016/j.energy.2023.126977)
Market power analysis in the Iberian electricity market using a conjectural variations model	2014	Energy (Elsevier), Vol. 76, 292-305, 2014. (DOI: 10.1016/j.energy.2014.08.014)

Impact of a price-maker pumped storage hydro unit on the integration of wind energy in power systems	2014	Energy (Elsevier), Vol. 69, 3-11, 2014. (DOI: 10.1016/j.energy.2014.03.039)
--	------	--

DATA PROTECTION

The Curriculum Vitae will also be published on the Agency's website. Please note that the Agency will ensure that your personal data hereby submitted is processed in line with Regulation (EU) 2018/1725 of the European Parliament and of the Council of 23 October 2018 on the protection of natural persons with regard to the processing of personal data by the Union institutions, bodies, offices and agencies and on the free movement of such data. For more details on the processing of your personal data, see the privacy statement applicable to your situation. If you include information on close family members, please inform them that the Agency will be processing data related to them.

I've read and I agree

IDENTITY CONFIRMATION

Please note that the Agency ensures that your personal data hereby submitted is processed in line with Regulation (EU) 2018/1725 on the protection of individuals with regard to the processing of personal data by the Community institutions and bodies and on the free movement of such data (OJ L 295, 21.11.2018, p. 39). For more details on the processing of your personal data, see the privacy statement applicable to your situation, available at <https://acer.europa.eu/the-agency/about-acer/data-protection>.

I, Jorge Sousa, hereby confirm, on my honour, that I am personally submitting this declaration.

Submitted on: 30.01.2026

Signature: Jorge Sousa
