

Curriculum Vitae prof. Valeria Di Cosmo

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Valeria di Cosmo is an associate professor in applied economics at the Department of Economics and Statistics "Cognetti de Martiis". In 2010, after her PhD at Rome University, she joined the Economic and Social Research Institute in Dublin, and worked there as an energy economist for 6 years. Between 2016 and 2018 she joined FEEM in Milan as a Marie Curie Fellow. She joined the University of Turin in December 2018, after spending some months at the IEA in Paris, working at the World Energy Outlook. She has several publications in the field of energy economics and environment, with a focus on the energy and the water sector. In particular, her work focuses on the impact of renewables in the electric system and market design, hydrogen and new fuels for the transport sector. She supervised several master and PhD students. She teaches several classes (master and PhD level) on energy and environmental economics.

Work Experience

28/12/2021- Associate professor (Economics) UniTo.

Main research areas:

1. Energy and environmental economics (electricity market design; renewable integration and innovation for the energy sector)
2. Transport economics (alternative fuels and hydrogen mobility)
3. Health and environment

Lecturer of the classes:

1. Energy economics (MSc)
2. Innovation for the energy sector (MSc)
3. Energy and Environmental Economics (PhD)
4. Industrial Economics (BA)

Supervisor: several master and PhD students (Trinity College Dublin, PhD Innovation for the Circular economy UNITO)

28/12/2018-28/12/2021 Lecturer (Economics) UniTo

01/05/2018-31/07/2018: International Energy Agency : Expert on interconnection

30/08/2016-30/11/2018 Marie Curie Fellow (Total score of 93.20 out of 100, with 4.9/5 for both impact and excellence): interconnection and the Single European Electricity Market, Profitability of Renewable investments, Consumers and pro-sumers in the new electricity market

30/11/2016-28/12/2018 Research officer, ESRI, Dublin

31/03/2018-30/06/2018 Energy consultant, IEA, Paris

30/09/2015-30/11/2016 Research Analyst, ESRI, Dublin

30/09/2015-28/12/2018 Research Fellow, Trinity College Dublin

Education

May 2009, PhD in Economics, University of Rome, Thesis title: Three essays on the regulation of public utilities

Jan-April 2009, Jemolo Visiting Fellow, Nuffield College, Oxford. Supervisor: prof. P. Klemperer

Jan-May 2007: Visiting Fellow, New College, Oxford

April 2004: BA in Economics (110/100 cum laude), University of Pavia

Selected publications

Evaluating the impact of hurdle rates on the Italian energy transition through TEMOA (with M.Nicoli, G. Colucci and L. Savoldi), Applied Energy, Vol.377, Part C,2025

TEMOA-europe: An open-source and open-data energy system optimization model for the analysis of the European energy mix, Energy, Vol. 308, 2024

***** **Maternity leave break: 8 months** *****

Exploring the feasibility of Europe's renewable expansion plans based on their profitability in the market (with J.Finke and V. Bertsch), Energy Policy, Vol.117, 2023

Trends of rural electric cooperatives in the United States from 1990 to 2019: An empirical analysis (with W. Gilcrease, and D. Padovan), Renewable and Sustainable Energy Reviews, vol. 166, 2022

Time on the road and the price of Gasoline: Evidence from ATUS and NHTS (with A. Alberini and M. Horvath), Transportation research part D, Transport and Environment, vol.108, 2022

***** **Maternity leave break: 8 months** *****

How are fuel efficient cars priced? Evidence from eight EU countries, (with A.Alberini and A.Bigano) Energy Policy, vol 134, 2019

Welfare analysis of increased interconnection between France and Ireland (with P.Deane and S.Collins), Energy Systems, vol. 11, pg.1047–1073, 2019

Wind, storage, interconnection and the cost of electricity generation (with L. Malaguzzi Valeri) , Energy Economics , Volume 69, 2018

How much does wind power reduce co2 emissions? Evidence from the Irish Single Electricity Market (with L.Malaguzzi Valeri), Environmental and resource economics, Volume 71, Issue 3, 2018

Nudging electricity consumption using TOU pricing and feedback: evidence from Irish households (with Denis O'Hora), Journal of Economic Psychology, vol.61, pg.1-14 , 2017

Competition and the Single Electricity Market: Which Lessons for Ireland (with M. Lynch), Utilities Policy vol.61, pg. 40-47, 2016

Climate policy, interconnection and carbon leakage: the effect of unilateral UK policy on electricity and GHG emissions in Ireland (with JP Deane and J. Curtis), Economics of Energy & Environmental Policy, Vol. 3, No. 2, 2014

The incentive to invest in thermal plants in the presence of wind generation (with L.Malaguzzi Valeri), Energy Economics, Vol. 43, pp.306–315, 2014

Carbon Tax Scenarios and their Effects on the Irish Energy Sector (with M.Hyland), Energy Policy, vol. 59, issue C, pages 404-414, 2013

Work in progress

A dynamic carbon tax on gasoline (with S. Verde), R&R Transportation research part D, Transport and Environment

Combined assessment of material and energy supply risks in the energy transition: a multi-objective energy system optimization approach (with V. Bertsch, G. Colucci, J. Finke and L. Savoldi) R&R Applied Energy

A framework for Global Sensitivity Analysis in long-term Energy Systems Planning using Optimal Transport (with M. Nicoli, , Daniele Mosso, Emanuele Borgonovo, Elmar Plischke, Anderson Rodrigo de Queiroz, Laura Savoldi)

Funded projects

GRINS “Growing Resilient, Inclusive and Sustainable” (EU project, funded by NextGeneration EU, “Partnership Estesi”): Principal Investigator of Work Package 6.1 of the GRINS project (Growing Resilient, Inclusive and Sustainable: <https://grins.it/>). The purposes of the WP are the study of emissions and climate risk, impact on biodiversity and water, links between simulation results on CO2 emissions and land use, forestry, and agriculture to determine soil fertility and guide agricultural planning, climate change impacts on water quality and quantity, including the self-purification capacity of water bodies, link between simulation results on GHG emissions, EU targets, and economic effects (companies + energy poverty), behavioral aspects and changes in consumption and simulations on the impact of higher CO2 costs on the final industrial sector. In my unit there are two full professors (agriculture and chemistry), 4 Post docs. Budget: 300,000€ Expires Dec 2025

MOST, “Centro Nazionale per la mobilità sostenibile” (Hydrogen and New Fuel, EU project, funded by Next Generation EU): PI of work package 6.2, budget: € 153.616,00 Expires: Feb-2026. The main objectives of the WP are: Social acceptance and impact of hydrogen introduction (how it is perceived by the public), Value chain and costs related to the new fuel supply chain, Regulation of the electricity market and its impact on the energy transition.

PRIN Compensation Rules Among Members of Heterogeneous Energy Communities (National project): PI of the UNITO unit on Energy Communities: behavioural studies on acceptability of Energy communities with a focus on the repartition of the incentives across members: Budget :103,000€ Expires Sept. 2025

Marie Curie Fellowship (IF): project on renewable integration in the EU system, with a focus on electricity interconnection, Expired Dec 2018

CREDENCE, (partnership between ESRI, FREEDM, UCC and Queen's university of Belfast). PI of the Economic Work Package of Funded by SFI (Ireland) and NSF (US). The grant had 4 work packages and will provide €1.561.958 overall over 3 years and €300.000 directly to the ESRI. Expired Dec 2018

Invited talks

May 2025: University of Siena

November 2024: Université Savoy-Mont Blanc

October 2018: JRC, Bruxelles

2016: University of Barcelona, University of Padova, Power2020 conference Dublin

Awards

2019, MEP pairing scheme, European Parliament

Selected among all the winners of European Grants (either MC or ERC) to pair for 3 days as an expert a member of the EU Parliament

2010 AXA price for the best PhD thesis (10.000€)

2009, Oxford University Jemolo Fellowship (full coverage of living expenses and travels in Oxford)

2007, New College grant for visiting students, Oxford University (full coverage of living expenses and travels in Oxford)

2005 Sapio and Giorgio Leonardi prices for the best BA thesis (6000€+3500€)