

ERKAN ERDOGDU

Assoc.Prof. | Head of Group, EMRA

EPDK M.Kemal Mh. 2078. Sk. 4
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PROFILE

Energy economist and regulatory practitioner with two decades of experience in energy market regulation, electricity market reform and policy analysis. Head of Group at Turkiye's Energy Market Regulatory Authority (EMRA), with a PhD from the University of Cambridge and an MSc with Distinction in Energy Economics and Policy from the University of Surrey. Awarded the title of Associate Professor in Microeconomics by the Turkish Interuniversity Board. Published extensively in leading energy and economics journals, with work spanning power market reform, regulation, carbon pricing, nuclear energy and energy transition policy. Invited as an expert reviewer representing Turkiye in the IEA/OECD 2026 Energy Policy Review of Canada and participated in the review activities held in Ottawa, the capital of Canada.

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EDUCATION

- Doctoral (Ph.D.) Degree 2009 - 2013
University of Cambridge (UK)
Cambridge Judge Business School, Business Economics
Thesis: Essays on Electricity Market Reforms: A Cross-Country Applied Approach
Supervisors: Prof. Michael Pollitt & Prof. David Newbery
- M.Sc. Degree (with Distinction) 2004 - 2005
University of Surrey (UK)
Dept. of Economics, Energy Economics & Policy Program
Dissertation: Energy Market Reforms in Turkey: An economic analysis
Overall average mark in UK grading system: 72 (GPA: 4/4)
- B.Sc. Degree (with High Honor) 1997 - 2002
Middle East Technical University (Turkiye)
Department of International Relations
GPA: 3.85 / 4
- Minor Diploma 1999 - 2002
Middle East Technical University (Turkiye)
Department of Political Science and Public Administration
GPA: 3.64 / 4

EXPERIENCE

- Energy Market Regulatory Authority (Turkiye)
Head of Group 2021 - Present
Energy Market Specialist 2007 - 2021
Assistant Energy Market Specialist 2003 - 2007

SKILLS, ABILITIES & INDICATORS

- English (TOEFL iBT: 108, YDS: 97.5)
- Turkish (Native)
- Stata, EViews, IBM SPSS Statistics
- MS Office
- h-index: **17** (Scopus, Sep. 2026)
- Total citations: **1.179** (Scopus, Sep. 2026)
- RePEc Turkey Ranking: **47** (out of 1026, Aug. 2026)
- Review: **103** (Sep., 2026) (for academic journals)

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PUBLICATIONS

• Selected papers in SSCI/SCI listed journals

Erdogdu, Erkan (2026). Restoring price signals in electricity markets: A rule-based alternative to cost-plus regulation. *Energy Economics*, 161(1), 1-17.
<http://doi.org/10.1016/j.eneco.2026.109551>

Erdogdu, Erkan (2026). Detecting Strategic Bidding and Market Manipulation in Electricity Markets: An ARMAX-GARCH Anomaly-Detection Framework with Evidence from Türkiye. *Journal of Commodity Markets*, 42(1), 1-22.
<http://doi.org/10.1016/j.jcomm.2026.100546>

Erdogdu, Erkan (2025). Economic policy reform in energy markets: balancing market efficiency with institutional realities. *Journal of Economic Policy Reform*, 28(4), 529-552. <http://doi.org/10.1080/17487870.2025.2541593>

Erdogdu, Erkan (2025). The role of nuclear energy in competitive power markets: Policy solutions applied to Türkiye. *Journal of Policy Modeling*, 47(6), 1322-1343.
<http://doi.org/10.1016/j.jpolmod.2025.07.003>

Erdogdu, Erkan (2025). Restructuring energy markets for net-zero: the role of market-based solutions. *Economic Change and Restructuring*, 58(2), 1-40.
<http://doi.org/10.1007/s10644-025-09861-8>

Erdogdu, Erkan (2025). The Carbon Border Adjustment Mechanism: Opportunities and Challenges for Non-EU Countries. *WIREs Energy and Environment*, 14(1), 1-11.
<http://doi.org/10.1002/wene.70000>

Erdogdu, Erkan (2016). Asymmetric volatility in European day-ahead power markets: A comparative microeconomic analysis. *Energy Economics*, 56(4), 398-409.
<http://doi.org/10.1016/j.eneco.2016.04.002>

Erdogdu, Erkan (2014). The political economy of electricity market liberalization: a cross-country approach. *The Energy Journal*, 35(3), 91-128.
<http://doi.org/10.5547/01956574.35.3.5>

Erdogdu, Erkan (2014). Motor fuel prices in Turkey. *Energy Policy*, 69(6), 143-153.
<http://doi.org/10.1016/j.enpol.2013.10.075>

Erdogdu, Erkan (2014). Investment, security of supply and sustainability in the aftermath of three decades of power sector reform. *Renewable and Sustainable Energy Reviews*, 31(3), 1-8. <http://doi.org/10.1016/j.rser.2013.11.014>

Erdogdu, Erkan (2013). A cross-country analysis of electricity market reforms: potential contribution of New Institutional Economics. *Energy Economics*, 39(5), 239-251.
<http://doi.org/10.1016/j.eneco.2013.05.012>

Erdogdu, Erkan (2013). Implications of liberalization policies on government support to R&D: Lessons from electricity markets. *Renewable and Sustainable Energy Reviews*, 17(1), 110-118. <http://doi.org/10.1016/j.rser.2012.09.030>

Erdogdu, Erkan (2011). What happened to efficiency in electricity industries after reforms?. *Energy Policy*, 39(10), 6551-6560. <http://doi.org/10.1016/j.enpol.2011.07.059>

Erdogdu, Erkan (2011). The impact of power market reforms on electricity price-cost margins and cross-subsidy levels: A cross country panel data analysis. *Energy Policy*, 39(3), 1080-1092. <http://doi.org/10.1016/j.enpol.2010.11.023>

Erdogdu, Erkan (2011). An analysis of Turkish hydropower policy. *Renewable and Sustainable Energy Reviews*, 15(1), 689-696. <http://doi.org/10.1016/j.rser.2010.09.019>

Erdogdu, Erkan (2010). Bypassing Russia: Nabucco project and its implications for the European gas security. *Renewable and Sustainable Energy Reviews*, 14(9), 2936-2945.
<http://doi.org/10.1016/j.rser.2010.07.028>

Erdogdu, Erkan (2010). A review of Turkish natural gas distribution market. *Renewable and Sustainable Energy Reviews*, 14(2), 806-813.
<http://doi.org/10.1016/j.rser.2009.10.023>

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Erdogdu, Erkan (2010). Turkish support to Kyoto Protocol: A reality or just an illusion. *Renewable and Sustainable Energy Reviews*, 14(3), 1111-1117.

<http://doi.org/10.1016/j.rser.2009.10.020>

Erdogdu, Erkan (2010). Natural gas demand in Turkey. *Applied Energy*, 87(1), 211-219.

<http://doi.org/10.1016/j.apenergy.2009.07.006>

Erdogdu, Erkan (2010). A paper on the unsettled question of Turkish electricity market: Balancing and settlement system (Part I). *Applied Energy*, 87(1), 251-258.

<http://doi.org/10.1016/j.apenergy.2009.06.017>

Erdogdu, Erkan (2009). A snapshot of geothermal energy potential and utilization in Turkey. *Renewable and Sustainable Energy Reviews*, 13(9), 2535-2543.

<http://doi.org/10.1016/j.rser.2009.06.020>

Erdogdu, Erkan (2009). Some thoughts on the Turkish electricity distribution industry. *Renewable and Sustainable Energy Reviews*, 13(6-7), 1485-1494.

<http://doi.org/10.1016/j.rser.2008.09.005>

Erdogdu, Erkan (2009). On the wind energy in Turkey. *Renewable and Sustainable Energy Reviews*, 13(6-7), 1361-1371. <http://doi.org/10.1016/j.rser.2008.09.003>

Erdogdu, Erkan (2008). An exposé of bioenergy and its potential and utilization in Turkey. *Energy Policy*, 36(6), 2182-2190. <http://doi.org/10.1016/j.enpol.2008.02.041>

Erdogdu, Erkan (2007). Nuclear power in open energy markets: A case study of Turkey. *Energy Policy*, 35(5), 3061-3073. <http://doi.org/10.1016/j.enpol.2006.11.008>

Erdogdu, Erkan (2007). Electricity demand analysis using cointegration and ARIMA modelling: A case study of Turkey. *Energy Policy*, 35(2), 1129-1146.

<http://doi.org/10.1016/j.enpol.2006.02.013>

Erdogdu, Erkan (2007). Regulatory reform in Turkish energy industry: An analysis. *Energy Policy*, 35(2), 984-993. <http://doi.org/10.1016/j.enpol.2006.02.011>

• Other papers in SSCI/SCI listed journals

Erdogdu, Erkan (2025). Beyond rankings: a multidimensional analysis of factors shaping student achievement in the PISA 2022 dataset. *Educational Review*, 77(5), 1585-1626. <http://doi.org/10.1080/00131911.2025.2506807> [with F.Erdogdu]

Erdogdu, Erkan (2022). Understanding students' attitudes towards ICT. *Interactive Learning Environments*, 31(10), 7467-7485.

<http://doi.org/10.1080/10494820.2022.2073455> [with F.Erdogdu]

Erdogdu, Erkan (2015). The impact of access to ICT, student background and school/home environment on academic success of students in Turkey: An international comparative analysis. *Computers & Education*, 82(2), 26-49.

<http://doi.org/10.1016/j.compedu.2014.10.023> [with F.Erdogdu]

• Invited conferences and other expert activities

Erdogdu, Erkan (2026). Invited Expert Reviewer (*representing Türkiye*), International Energy Agency (IEA/OECD) 2026 Energy Policy Review of Canada. Natural Resources Canada & IEA, Ottawa, Canada, 13-17 July 2026.

Erdogdu, Erkan (2011). The political economy of electricity market liberalization: a cross-country approach. 30th USAEE/IAEE North American Conference, 9-12 October 2011, Capital Hilton Hotel, Washington, DC., USA.

Erdogdu, Erkan (2014). Turkish Energy Leadership, Europe and the Future of the Global Energy Order. Presentation Title: "How does Turkey's position in energy trade advance energy leadership?" Expert Roundtable, Istanbul Policy Center (IPC), Sabanci University, 19 September 2014, Minerva Han, Karakoy, Istanbul, Turkey.

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Erdogdu, Erkan (2009). Balancing and Settlement System in Turkish Electricity Market (Part II) (Turkish Paper). Business, Management and Economics Conference, The Social Sciences Research Society, September 24, 2009; Session 19; Room 102; 18.00–19.40. Dokuz Eylul University, Urkmez/Payamli, Izmir, Turkey.

Erdogdu, E., Baysan, Y., Sen, S. (2008). Turkish Natural Gas Industry: Expectations and the progress so far (Turkish Paper). Business, Management and Economics Conference, The Social Sciences Research Society, September 12, 2008; Session 30; Room 101; 16.00–17.40. Dokuz Eylul University, Urkmez/Payamli, Izmir, Turkey.

• Theses and other academic studies

Erdogdu, Erkan (2014). Turkey's energy strategy and its role in the EU's southern gas corridor. Istituto Affari Internazionali (IAI) Working Papers (a refereed international academic paper series), No.1401, 17 February 2014, ISBN 978-88-98650-06-4. URL: <https://www.iai.it/en/publications/c21/turkeys-energy-strategy-and-its-role-eus-southern-gas-corridor>

Erdogdu, Erkan (2011). The Regulation of Natural Gas Industry in Turkey. In T.Cetin & F.Oguz (Eds.), The Political Economy of Regulation in Turkey. Springer, New York, USA, pp.145-176. DOI: http://doi.org/10.1007/978-1-4419-7750-2_7

Erdogdu, Erkan (2013). The political economy of the increase in Turkish taxes on motor vehicle fuels. Prepared for The Organisation for Economic Co-operation and Development (OECD). Paris, France.

Erdogdu, Erkan (2013). The economic implications of new nuclear power plants in Turkey. Prepared for The International Atomic Energy Agency (IAEA). Vienna, Austria.

Erdogdu, Erkan (2010). Wind Power Market in Turkey. Turkish International Renewable Energy Congress (TIREC 2010). Green Power Conferences, 28 September – 1 October 2010, Grand Cevahir Hotel & Congress Center, Sisli/Istanbul Turkey. (A report prepared to be distributed to participants of the Congress)

Erdogdu, Erkan (2013). Essays on Electricity Market Reforms: A Cross-Country Applied Approach. Ph.D. Thesis, Cambridge Judge Business School, University of Cambridge, Trumpington Street, CB2 1AG, Cambridge, UK, July 2013. DOI: <https://doi.org/10.17863/CAM.16459>

Erdogdu, Erkan (2005). Energy Market Reforms in Turkey: An economic analysis. M.Sc. Dissertation, Department of Economics, University of Surrey, Guildford, GU2 7XH, Surrey, UK, September 2005.

Erdogdu, Erkan (2002). Turkey and Europe: Undivided but not united. Middle East Review of International Affairs, 6(2), 40-51.

AWARDS

- Cambridge International Scholarship
- Chevening Scholarship
- The Award by E-Control
- Best Paper Award, 30th USAEE/IAEE North American Conference
- The Awards by TUBITAK
- European Union (EU) study visit awards (IND/STUD No. 23661, 33062, 33972)
- Indian Technical and Economic Cooperation (ITEC) Program Scholarship