

Yelda Erden-Topal

Dr. Research Assistant
Department of Economics

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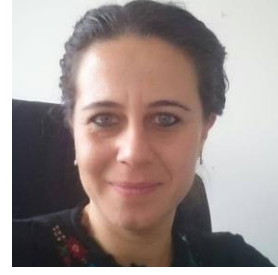
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(Last update : 04.2024)



EDUCATION

- 03/2016 Ph.D. in Science and Technology Policy Studies, Graduate School of Social Sciences
Middle East Technical University (METU), Ankara/Turkey
Dissertation Title: A Policy Design Model for Market Formation of Solar and Wind Electricity
Generation in Turkey
- 06/2008 Master of Science in Economics, Graduate School of Social Sciences
Middle East Technical University (METU), Ankara/Turkey
- 06/2005 Bachelor of Science in Economics (Eng.), Faculty of Economic and Administrative Sciences
Hacettepe University, Ankara/Turkey

RESEARCH INTERESTS

Science, Technology and Innovation Policy and Politics, Economics of Technological Change and New Technologies;
Technology Management, Diffusion of Emerging Renewable Energy Technologies, Renewable Energy Systems (Focus on
Solar and Wind Energy), Sustainability Transitions and Climate Change

WORK EXPERIENCE

- 03/2021- Present Dr. Research Assistant,
Middle East Technical University- Department of Economics
- 03/2020- Post-Doctoral Researcher,
03/2021 Innovation, Industrial Property and Technology Policy Research Group, Department of Business
Administration, E.T.S. Ingenieros Industriales, Universidad Polit cnica de Madrid &
Renewable Energy Unit, CIEMAT-Centro de Investigaciones Energ ticas, Medioambientales y Tecnol gicas
(Funded by TUBITAK 2219-International Postdoctoral Research Fellowship Program for Turkish Citizens for one year)
- 01/2012- Dr. Research Assistant
03/2020 Middle East Technical University - Vice Presidency Office
- 09/2008- Researcher
03/2020 Middle East Technical University - Science & Technology Policies Research Center (METU-TEKPOL)
- 09/2017- Part-Time Lecturer (5 semesters) (Econ 210- Principles of Economics)
01/2020 Middle East Technical University- Department of Economics
- 10/2021- Part-Time Lecturer (1 semester) (CIT 425: Politics of Energy)
07/2022 TED (Turkish Education Association) University- Global Citizenship Secondary Field
- 03/2022 Part-Time Lecturer (2 semesters) (Econ 211- Econ 212- Principles of Economics – I-II (for Industrial Eng.)
02/2023 Middle East Technical University- Department of Economics

RESEARCH AND PROJECT EXPERIENCE

➤ Advisor, 10/ 2023- 05/ 2024

TÜBİTAK-2209-A Research Project Support Programme for Undergraduate Students, “Energy, Volunteerism and Non-Governmental Organizations”, Project Coordinator: Kaan Samed Çil (METU Industrial Eng., 3rd Grade Student.)

➤ Researcher & Communication and Outreach Manager, 01/2020-06/2023

SolarTwins: Solar Twinning to Create Solar Research Twins (SolarTwins Grant agreement ID: 856619), funded by EU H2020 Programme, Coordinator: Prof. Dr. Derek Baker (METU ME-GUNAM), <https://cordis.europa.eu/project/id/856619>

Summary of the Key Function: Actively working for the preparation and submission of the project proposal (*used TUBITAK International Travel Support to improve the proposal with foreign project partners*). Networking and communication activities to disseminate the project before the project kick-off to attract the interest and attendance of the national audience and stakeholders in Concentrating Solar Thermal Technologies in Turkey. Being in the organization team of the Kick-off Meeting and the Open ODAK2023 Kick-off Event hosted 95 participants including bureaucrats, academics, businessmen and researchers. Supporting the Organization of ODAKTr Seminar Series as a part of Communication, Outreach, Dissemination and Exploitation (CODE) activities, contributing two of nine Joint Research Lines (JRL 8: Turkey’s EU-SOLARIS ERIC Membership and JRL 9: Social Aspects of Sustainable Energy Transitions) working for the reporting deliverables. (<http://solartwins.metu.edu.tr/>)

➤ Researcher, 04/2019- 09/2022

HORIZON-STE: Implementation of the Initiative for Global Leadership in Solar Thermal Electricity (H-STE Grant agreement ID: 838514), Coordinator ESTELA (European Solar Thermal Electricity Association), funded by EU H2020 Programme Inst. Coordinator: Prof. Dr. Derek Baker, <https://cordis.europa.eu/project/id/838514>

Summary of the Key Function: Being in the research team and worked as the local contact point of the project team to prepare Turkey CSP Country Report(first of the 14 European Country’s Report projected to be prepared by ESTELA in H-STE Project and promoted as the reference report for other countries- report submitted in June 2020, and under review of EC), supporting the coordinator for reporting the deliverables about national conditions and opportunities for CST in Turkey in the EU Context, following the coordination meetings of the project, supporting the project consortium for outreach activities (ex: SET-PLAN JA2 Workshop).

➤ Researcher, 08/2014-08/2015

TUBITAK 1002 Research Project No: 114K070-Market Formation of Electricity Generation from Renewable Sources: Solar and Wind Energy Case in Turkey, Coordinator: Prof. Dr. Erkan Erdil, METU Economics & TEKPOL

Summary of Key Functions: To work for preparation and submission of the project proposal, and execution of the project to fully fund my PhD. Dissertation field research. To design science and technology policies for diffusion of electricity generation from renewable sources by analyzing supporting mechanisms and blocking factors on market formation of wind and solar electricity generation in Turkey. Conducting the field research (57 expert interviews from public institutions, research institutions and private sector organizations in Ankara, Istanbul, İzmir, Antalya, Denizli, Balıkesir, Kayseri and Gaziantep)

➤ Researcher, 02/2012-02/2013

The Progress Analysis of Suggestions in National Innovation Initiative-The Framework Report for Innovation, 2006-2013 Period Project

Summary of Key Functions: Working with the project team in the analysis of improvements in Turkish Science and Technology that are related to the suggestions in “The Framework Report for Innovation”, 2006 by National Innovation Initiative (UIG). (*funded by TUSIAD-Sabancı University Competitiveness Forum*)

➤ Researcher, 01/2011-04/2011

The Strategic Analysis of ICT Sector in Ankara Project

Summary of Key Functions: Working with the project team in strategic analysis of ICT Sector in Ankara by focusing on ICT firms in four most known technoparks in Ankara: METU-TECH, Bilkent Cyberpark, Gazi Teknopark and Hacettepe Technopolis. (*Funded by: Ankara Development Agency*)

➤ Researcher, 12/2010-10/2011

Evaluation and Restructuring of Research Centers at METU Project

Summary of Key Functions: Working with the project team in analysis of the current situation and restructuring of Research Centers (mainly reporting to Office of the President) and formulating policy proposals for new

organizational structure. (funded by Ministry of Development & METU)

➤ **Researcher, 12/2009-09/2010**

Analysis of research and development activities (R&D) activities of foreign firms in the Turkish economy
Summary of Key Functions: Working with the project team in analysis of R&D activities of foreign firms (multi-national companies) in Turkish economy and preparing policy proposals depending on this analysis. (Funded by: YASED-International Investors Association of Turkey)

➤ **Junior Researcher/Project Assistant, 06/2009-09/2010**

Turkey-ICT RTD Technological Audit-Contract No:30-CE-0262072/00-15

Summary of Key Functions: Working with the project team & contributors to carry out a technological audit on ICT research in Turkey to identify: (a) The ICT RTD policy environment in Turkey and, the opportunities and barriers it presents (b) The centers of excellence and centers with development potential for FP7 ICT Theme (c) The actions that need to be taken at national and European level to increase the participation of organizations carrying out ICT RTD in both private and public sectors. (Funded by EU-DGInfSo)

➤ **Project Assistant, 02/2009- 05/2010**

TUBITAK 1001 Research Project No: 108K448 “Traditional and Modern Economic Visions and Global Capitalism”

Summary of Key Functions: Assisting the project leader and researcher to construct a game-theoretic model that examines the repercussions of interactions between a “capitalist” understanding in Turkey and the “traditional” understanding that is claimed to be in contradiction with this capitalist understanding. (funded by TUBITAK)

➤ **Project Assistant, 06/2008-09/2008**

Management Consulting for Process Improvement Project

Summary of Key Functions: Working with project team to provide process improvement in issuing processes of certificates in the responsibility of General Directorate of Road Transport- Ministry of Transport of Turkey (Funded by: Ministry of Transport of Republic of Turkey)

➤ **Field Researcher, 06/2007-06/2008**

TUBITAK 1001 Research Project no: 105K151, TİFALDİ: Language test for children speaking Turkish

Summary of Key Functions: To support project team in field research to gain experience in carrying out field research in social sciences (to conduct language in six cities -Muğla, Isparta, Balıkesir, Ankara, İzmir, Hatay - in Turkey) (Funded by: TUBITAK)

ADVISING THESIS:

Completed:

- Temel, Nazife Ümran (2022), “Türkiye'nin Sivil Havacılık Politikalarının Küresel Sürdürülebilir Havacılık Kapsamında Değerlendirilmesi” Marmara Üniversitesi, Sosyal Bilimler Enstitüsü, Kamu Politikası Bilim Dalı, (Eş Danışman), Yüksek Lisans Tezi (in TR)
- Şenoğlu, Gökçe (2020), Yerel Yöneticilerin ve İş İnsanlarının Gözünden İstanbul'da Enerji Tedariki ve Yenilenebilir Enerji: Olanaklar ve Kısıtlar, Marmara Üniversitesi, Sosyal Bilimler Enstitüsü, Yerel Yönetimler Anabilim Dalı, Küresel Şehirler ve İstanbul Araştırmaları Bilim Dalı (Eş Danışman), Yüksek Lisans Tezi, (in TR)

Ongoing:

- Tunç, Burcu (2025-expected), “Economics of Energy Storage Systems: The Profitability and Round-Trip Efficiency”, METU, Graduate School of Social Sciences, Economics, Co-advisor, PhD.
- Gündüz, İlgün İrem (2024-expected), “Technological Capabilities Analysis within the Scope of Electrical Vehicle and Energy Storage Technologies: The Case of Turkey”, METU, Graduate School of Social Sciences, Science and Technology Policy Studies, Co-advisor, MSc.
- Gerçek, Ayşe Ayda (2024-expected), “Sustainable Industrial Development and Social Acceptance in Concentrated Solar Energy: Comparison Between Spain and Turkey”, METU, Graduate School of Social Sciences, Science and Technology Policy Studies, Co-advisor, MSc.

PUBLICATIONS

Articles:

1. Gursoy- Haksevenler, B. H., N. U. Temel, Y. Erden Topal (2023), "Civil Aviation Policies and Practices in Turkey in a Global Context Through Sustainable Aviation", *Global Challenges*, 7(12), 2300194. <https://doi.org/10.1002/gch2.202300194> (SCI Expanded- WOS Q2)
2. Akdemir, S. D. and Y. Erden Topal (2023), "Opportunities and Barriers to the Application of Solar Heat For Industrial Processes Technologies to Turkish Industrial Parks: The Case of Kayseri Industrial Park", *Urban Academy*, Volume: 16, Issue: 4, pg. 2225 – 2274, <https://doi.org/10.35674/kent.1234091> (TRDizin)
3. Erden Topal, Y. and Erkan Erdil (2023), "Market Formation in Turkish Solar Electricity Generation: Technology Innovation System Approach", *İzmir Journal of Economics*, volume 38, Issue: 3, pg.625-645, <https://doi.org/10.24988/ije.1145806> (TRDizin)
4. Erden Topal, Y. (2023), "Veriye Dayalı bir Politika Tasarım Modeli Önerisi: Türkiye'de Yenilenebilir Enerji Teknolojilerinin Yayılmasının Niteliksel Analizi (in English: An Evidence-based Policy Design Model Proposal: Qualitative Analysis of Renewable Energy Diffusion in Türkiye)", *Selçuk Üniversitesi Sosyal Bilimler Enstitüsü Dergisi*, 2023; (50): 133-155. <https://doi.org/10.52642/susbed.1221181> (TRDizin)
5. Aydinoglu, A.U., Y. Erden Topal, İskender Gökcalp (2023), "Hidrojen Teknolojileri Araştırmalarında Disiplinlerarasılık: Toplumsal Bilimler Yaklaşımı (in English: Interdisciplinarity in hydrogen technologies research: social sciences aspects)", *Journal of Polytechnic*, 26(1): 357366, <https://doi.org/10.2339/politeknik.1178441>, (ESCI and TRDizin),
6. Gursoy- Haksevenler, B. H., Y. Erden Topal, G. Senoglu (2022), "The Policy Implications for the Deployment of Renewable Energy: The Case of Istanbul (Yenilenebilir Enerji Kullanımı ve Artırılmasına İlişkin Politika Önerileri: İstanbul Örneği, in Turkish)", *İdealkent*, Issue 35, Volume 13, Year 2022-1, pg.5-31, <https://doi.org/10.31198/idealkent.986475> (TRDizin)
7. Erden-Topal, Y. , E.Erdil and B. H.G.Haksevenler (2021), "Türkiye'de Yenilenebilir Kaynaklara Dayalı Elektrik Üretimini Etkileyen Faktörler: Rüzgar ve Güneş Enerjisi Örneğinde Kar Amacı Motivasyonuna göre Farklılaşan Engeller ve Destekler" (in English: The Factors Effecting Renewable Energy Generation in Turkey: Different Inducement and Blocking Mechanisms depending on Profit Motivation in Solar and Wind Energy), *European Journal of Science and Technology*, 32, 901 – 916, <https://doi.org/10.31590/ejosat.1045546>, (TRDizin)
8. Erdil, E. , M. Teoman Pamukçu, İ. Semih Akçomak, Y. Erden (2013) "Değişen üniversite-sanayi işbirliğinde üniversite örgütlenmesi (in Turkish)", *SBF Dergisi*, Cilt: 68, No. 2, 2013, s. 95 – 127, <https://doi.org/10.1501/SBFder.0000002281> (TRDizin)

Book Chapters

1. Erden Topal, Y. ve B. H. G. Haksevenler (2023), "Karbon Nötr Kent Uygulamalarında New York ve İstanbul Örnekleri (in English: Cases of New York and Istanbul in Carbon Neutral City Applications)", in *İklim Dostu Kentler: Türkiye ve Dünyadan Örnekler*, (eds). Prof. Dr. Hüseyin Gül, Öğr. Gör. Dr. Hülya Küçük Bayraktar, Dr. Veli Ercan Küçük, Detay Anatolia Akademik Yayıncılık, Ankara, ss.99-128
2. Dedeoğlu, V. , Y. Erden Topal and İ. Gökcalp (2023), "Hidrojen Taşınmasında Doğal Gaz Ağının Rolü (in English: The role of natural gas in the transmission of hydrogen-) in *STS: Bir Disiplin Olarak Kimlik İnşası*, NEU Yayınları, <https://neupress.org/tr/acik-erisim/sts-bir-disiplin-olarak-kimlik-insasi/816>
3. Gursoy-Haksevenler, B. H., Y. Erden Topal, G. Senoglu (2022), "Nudging cities towards Renewable Energy for sustainability: The Case of Istanbul (Chapter 6)" in *SDG 11, Sustainable Cities and Communities Moving Forward with the Circular Economy* (ed. Prof. Dr.S. Ramani (UNU-MERIT) and Dr. H.Hettiarachchi), p. 113- 129, Routledge, Taylor & Francis Group: London and New York, e-ISBN: 9781003205975

Reports:

- Akçomak I. S., B.Coşkun, D.Danacı, H.C.Demirköprülü, S.Erdoğdu, E.Güler,I.İ. Gündüz, A.İşlak, S.Kılıçaslan, M.S.Köksal, İ.Kula, E.Semiz, Y.Şahin, O.Terzi, Y. Erden Topal, K.Topçuoğlu, C.Tüfekci, C.Yavuz, E. Yazıcı. (2023), Greening Türkiye's Economy. The Policy Perspective. GREET 2023, Türkiye Teknoloji Geliştirme Vakfı (TTGV), Ankara, 2023

- Savut, İ. P; S.Türkeli, Y. Erden Topal (2019), Sustainability Transitions and Innovation Review: Turkey”, in *Global Map of Eco-innovation Related Policies, European Commission* pg:85-147, Ref. Ares (2019) 572347 - 31/01/2019 <https://ec.europa.eu/research/participants/documents/downloadPublic?documentIds=080166e5c120c459&appId=PPGMS>
- Erdil, E., Y. Erden Topal, G. Evsel (2015), “Yenilenebilir enerji kaynaklarına dayalı elektrik üretimi piyasasının oluşumu: rüzgar ve güneş enerjisi bağlamında Türkiye örneği (in Turkish)” TUBITAK 114K070 Project Report, <https://app.trdizin.gov.tr/proje/TVRVMk1EYzM/yenilenebilir-enerji-kaynaklarina-dayali-elektrik-uretimi-piyasasinin-olusumu-ruzgar-ve-gunes-enerjisi-baglaminda-turkiye-ornegi>
- Erden, Topal, Y., C. Durukan, A. Ertan, M. Dogan.(2014), “Ulusal Inovasyon Girişimi 2006-2013 Dönemi Değerlendirme Raporu (in Turkish)”, TUSIAD Sabancı Üniversitesi Rekabet Forumu
- Erdil, E., M. Teoman Pamukçu, İ. Semih Akçomak, Y. Erden (2011), METU Research Centers Evaluation Report”, METU Research Centers Project Public Report (in Turkish)
- Erdil, E. M. T. Pamukçu, Y. Erden Topal, E. Kepenek, T. Göksidan (2011), Analysis of R&D Activities of Foreign Firms in Turkish Economy”, YASED- International Investors Association Project Public Report (in Turkish)
- Erdil, E, Erden Topal, Y. S.Türkeli, T. Göksidan (2011), Turkey-ICT RTD Technological Audit, Public Report

Non- Peer Reviewed Publications

- Baker, D. K. , Y. Erden Topal, O. Taylan, İ. Tarı (2022), “ODAKTR: Türkiye’de Odaklanmış Isıl Güneş Enerjisi Teknoloji Geliştirme ve Ağ Oluşturma Faaliyetleri (in Turkish)” Kojenerasyon Bülteni (Türk Kojenerasyon Derneği), no. 14, July- September, https://kojenturk.org/pdf-goster?file=/uploads/pdf/20072022122956_24T9R07DQW9.pdf
- Erden Topal, Y. (2018), “Girişimci Üniversitenin Temelleri: Üniversite ve Sanayi Neden İşbirliği Yapar? Türkiye’de Yenilenebilir Enerji Sektöründen Bir Örnek ”, TSE Standard Dergi, Sayı: 666, syf: 36-44

WORK in PROGRESS

- A Systematic Review of Socio-Economic Impact Assessments of Solar Energy and Photovoltaic Technologies: Network Dynamics, Societal Problems and Policy Implications, Submitted to *Innovation: The European Journal of Social Science Research* (Nov. 2023), *under review*
- “Stakeholder Analysis for Development of Concentrated Solar Thermal Technologies in Turkey: Local Integration to Global Value Chains through International Channels, *under review*
- State of the Art in SSH aspects and Gender in Green Deal Key Challenges, Submitted for HorizonEU CST4ALL project deliverable- *under review*
- The evolution of research Activities on Solar Energy in Turkey-Two decades, *manuscript being prepared*
- Challenges and Opportunities for Renewable Energy Entrepreneurs in Türkiye: The case of Solar Energy, submitted to Springer published Book:“Energy Entrepreneurship, Sustainability, Innovation and Financing: Practical Applications & Future Directions”, *accepted and in press*
- SolarTwins Project– Ecosystem Evaluation, Future Outlook and Consortium Assessment, *being prepared*

CONFERENCES

International:

1. Erden Topal, Y., A.A. Gercek and A.U. Aydinoglu (2023), “Technology Assessment of Solar Heat for Industrial Processes (SHIP) Technologies: The Case of Turkey in Comparison to Germany and Spain”, *4S-2023-Society for Social Studies of Science Conference- Sea, Sky, and Land, Engaging in Solidarity in Endangered Ecologies*, November 8-11, 2023, in Honolulu, USA, *online participation*, (08.11.2023)

2. Gercek, A.A. and A.U. Aydinoglu, Y. **Erden Topal** (2023), “Social Acceptance in the Nuclear Power Stations: The Case of Turkey”(presented by A. A. Gercek), *45-2023-Society for Social Studies of Science Conference- Sea, Sky, and Land, Engaging in Solidarity in Endangered Ecologies*, November 8-11, 2023, in Honolulu, USA, *online participation*, (11.11.2023)
3. **Erden Topal**, Y. and B. H. G. Haksevenler (2023), “Karbon Nötr Kent Uygulamalarında New York Örneği ve İstanbul” (in TR), *EconTR 2023, IV. International Conference on Economics*, September 7-9, 2023, Ankara, Turkey (07.09.2023)
4. **Erden Topal**, Y. and Ozer, O. K. (2023), “Effects of the COVID-19 Outbreak on Economics Research in Turkey: Collaboration Dynamics, Topics Analysis and Gender Aspects”, *EconTR 2023, IV. International Conference on Economics*, September 7-9, 2023 (08.09.2023)
5. **Erden Topal**, Y., S. D. Akdemir and O.Ç. Artantaş (2022) “Promotion of Solar Heat in Industrial Processes: Policy and Law Analysis with Focus on Turkey and Germany”, *EuroSun 2022 ISES and IEA SHC International Conference on Solar Energy for Buildings and Industry*, September 25-29, 2022, Kassel, Germany (Full Paper Presentation), Published in Proceedings: <http://ises-proceedings.pse-co.de/?conference=eurosun2022> (26.09.2022)
6. Gunduz, I.I. and Y. **Erden Topal** (2023), “Passive Houses and Its Implications in Turkey - Lessons Learnt from Germany Experience”, *EuroSun 2022 ISES and IEA SHC International Conference on Solar Energy for Buildings and Industry*, September 25-29, 2022, Kassel, Germany (Poster Presentation), (27.09.2023)
7. **Erden Topal**, Y., A. A. Gercek and I.I. Gunduz (2022), “Alternative Pathways to the Deployment of Concentrated Solar Thermal Technologies in Turkey: Lessons Learnt from Case Studies of German and Spanish CST Industries”, *The 34nd Annual EAEPE Conference 2022, Tackling inequalities: New paradigms in policy and technology for a just transition and vaccine equity*, September 07-09, 2022, Self published in OPENMETU, <https://hdl.handle.net/11511/99796> , *online participation*, (08.09.2022)
8. Akdemir, S. D. , Y. **Erden Topal**, Z. Kurt (2022), “Opportunities and Barriers for Solar Heat for Industrial Processes Technologies in Turkish Industrial Parks: The Case of Kayseri Industrial Park” (presented by S. Deniz Akdemir), *The 34nd Annual EAEPE Conference 2022, Tackling inequalities: New paradigms in policy and technology for a just transition and vaccine equity*, September 07-09, 2022, *online participation*, (09.09.2022)
9. Ozer, O. K and Y. **Erden Topal** (2022), “The Role of Gender in Turkish Solar Energy Research” (presented by O.K Ozer), *26th International Conference on Science and Technology Indicators From Global Indicators to Local Applications*, Granada, Spain, September, 07 – 09, 2022, published in proceeding in N. Robinson-Garcia, D. Torres-Salinas, & W. Arroyo-Machado (Eds.), *26th International Conference on Science and Technology Indicators, STI 2022 (sti2237)*.<https://doi.org/10.5281/zenodo.6906465> (07.09.2022) (*Travel funded by H2020 SolarTwins Project*)
10. Temel, N. U, Y. **Erden Topal**, B. H G. Haksevenler (2022), “The Comparative Case Study of Air France- KLM and Turkish Airlines: Policy Implications for Sustainable Aviation in Turkey”, *2nd International Conference on Engineering and Applied Natural Sciences*” (presented by B.H. G. Haksevenler), 15-18 October 2022, Konya /Turkey, *online participation*, (12.10.2022)
11. Temel, N. U, Y. **Erden Topal**, B. H G. Haksevenler (2022), “Towards Sustainable Aviation: Stakeholder Analysis on Sustainable Aviation in Turkey” (presented by N. U. Temel), *1st International Conference on Sustainable Chemical & Environmental Engineering, Rethymno, Crete, Greece*, 31.08 – 04.09. 2022 (02.09.2022)
12. Yazici, E., P.D. Güre, B. C. Zırh, Y.**Erden Topal**, E. İpek, A. Deveci, E. Erdil, R. Sarı (2022), “A Bibliometric Literature Review of Socio-economic Impact Assessments of Solar Energy and Photovoltaic Technologies”, (presented by Esin Yazıcı), *PVCON 2022 International Conference on Photovoltaic Science and Technologies*, 5-7 July 2022, METU, Ankara/Turkey (07.07.2022)
13. Erdil, E., P.D.Güre, Y. **Erden Topal**, B.C. Zırh, R.Sarı (2020), “Review of socio-economic impacts of PV technology development in the developing countries context”, *PVCON2020 International Conference on Photovoltaic Science and Technologies*, 30 Nov - 2 Dec 2020, Middle East Technical University, Ankara – Turkey (01.12.2020)
14. **Erden Topal**, Y., E.Erdil and A.U. Aydinoglu (2020), “Development of Concentrated Solar Power / Solar Thermal Energy Technologies Sector in Turkey: Local integration to Global Value Chains through International Channels”, *The 32nd Annual EAEPE Conference 2020, The Evolution of Capitalist Structures: Uncertainty, Inequality, and*

Climate Crisis, September 02-04, 2020 (04.09.2020)

15. **Erden Topal, Y.**, E. Erdil and A. Hidalgo (2020), A Policy Design Model For Market Formation Of Solar And Wind Electricity Generation In Turkey, presented in *The 32nd Annual EAEPE Conference 2020, The Evolution of Capitalist Structures: Uncertainty, Inequality, and Climate Crisis, September 02-04, 2020 (03.09.2020)*
16. **Erden Topal, Y.**, E. Erdil (2020), “Market Formation in Solar and Wind Electricity Generation in Turkey : Technological Innovation System Approach”, *ICEEE 2020- International Conference on Economics, Energy and Environment (online conference)*, June 25-27, 2020 (27.06.2020)
17. Eysel, G. and **Y. Erden Topal** (2017), “Confidential Economic Life and Relations in the Simplicity of Everyday Life”, *13th Conference of the European Sociological Association – (Un)Making Europe: Capitalism, Solidarities, Subjectivities* (presented by G. Eysel), Athens/Greece, August 29-September 01, 2017 (01.09.2017)
18. **Erden Topal, Y.** and G. Eysel (2015), “Who is under the sword of Damocles? Science and Technology Policy Making in Turkish Health Biotechnology and Renewable Energy Sectors”, *12th Conference of the European Sociological Association – Differences, Inequalities and Sociological Imagination*, Prague/Czechia, August 28-31, 2015 (26.08.2015)
19. **Erden Topal, Y.** (2013), “Can Renewable Energy Solve the Problem? Preliminary Remarks on Basic problems in Turkish Energy Sector and Suggestions for Solution”, *11th GLOBELICS International Conference: Entrepreneurship, Innovation Policy and Development in an Era of Increased Globalization*, Ankara/Turkey, September 11-13, 2013 (13.09.2013)
20. **Erden Topal, Y.** (2013), “Perceptions on Changing the Energy Sector in Turkey: Renewable Sources or Imported Fossil Fuels?”, *11st Conference of the European Sociological Association – Crisis, Critique and Change*, Turin/Italy, August 28-31, 2013 (29.08.2013)
21. **Erden Topal, Y.** and A. Yurtseven (2010), “Establishment & Development of Academic Spin-off Firms: Evidence from Turkey”, *DRUID Dime Academy Winter 2010 Phd Conference: Innovation, Knowledge & Entrepreneurship*, Aalborg/Denmark, 21-23 January 2010 (Trip is financed by TUBITAK-Science Fellowships and Grant Programmes, fellowship for Phd Students for Participation to Scientific Activities in Abroad) (23. 01.2010)

National:

1. **Erden Topal, Y.** G. Senoglu, B. H. G. Hasevenler (2021), “Şehir Ölçeğinde Yenilebilir Enerji Kullanımının Desteklenmesi: İstanbul için Öneriler, *STS TURKEY 2021 KONFERANSI – STS: Bir Disiplin Olarak Kimlik İnşası*, November 22-24, 2021, Ankara/Turkey, *online participation*, (23.11.2021)
2. Umur Aydınoglu, A. U., **Y. Erden Topal**, I. Gokalp (2021), “Sosyal Bilimlerde Hidrojen Araştırmalarının Yeri: Bibliometrik bir Değerlendirme”, *STS TURKEY 2021 KONFERANSI – STS: Bir Disiplin Olarak Kimlik İnşası*, November 22-24, 2021, Ankara/Turkey, *online participation*, (23.11.2021)
3. Gokalp, I. ve **Y. Erden Topal** (2021), “Büyük Ölçekli Toplumsal-Teknik Sistemler: Kavramsal bir Çerçeve”(presented by I. Gokalp), *STS TURKEY 2021 KONFERANSI – STS: Bir Disiplin Olarak Kimlik İnşası* , November 22-24, 2021, Ankara/Turkey, *online participation* (22.11.2021)
4. **Erden Topal, Y.** and E. Erdil (2018), “Inducement and blocking mechanisms in diffusion of emerging renewable energy technologies in Turkey: An ampirical analysis”, *STS Turkey 2018, Science and Technology Studies for Society Conference*, September 10-11, 2018, Middle East Technical University, Ankara /Turkey, (10.09.2018)
5. **Erden Topal, Y.** and E. Erdil (2014), “Diffusion of Solar Electricity in Turkey : An investigation from Producer and Supplier Sides”, *SOLARTR 2014 Solar Conference and Exhibition*, Izmir /Turkey, November 19 - 21, 2014 (20.11.2014)

PRESENTATIONS

- **Erden Topal, Y.** (2023), “Introduction- Part: SSH and Gender Aspects for Green Deal Challenges” presented in *HorizonEU Programme CST4ALL Project (Online) Workshop on the Cross-Cutting Materials Challenges of Renewable Energy Technologies*, (9.11.2023)
- **Erden Topal, Y.** (2023), “WPI Cross-Cutting Activities & Horizontal Outcomes (T1.2. External and Open

Trainings to Strengthen METU, Regional and National R&I Capacities and Integration of SSH into CST” research)” presented in *H2020 Programme SolarTwins –Solar Twinning to create Solar Research Twins project, 2nd (Final) Periodic Review Meeting*, online meeting with Project Officer and EC External Evaluator (22.09.2023)

- **Erden Topal, Y. (2022)**, “Solar Heat for Industrial Processes- Technical, Financial and Social Aspects”, presented in *Kojenturk Seminer Series on “ Turkey on the Pathway to Decarbonization” (in TR)*, https://www.youtube.com/watch?v=zzApFwcr_D4&feature=youtu.be (21.10.2022)
- **Erden Topal, Y.(2021)**, “Work Package I: Cross-Cutting Activities in SolarTwins Project: Objectives relevant for the period, Progress, risks and deviations, Next steps” presented in *First Periodic Review (01.2020-31.03.2021) of H2020 SolarTwins Project*, online meeting with with Project Officer and EC External Evaluator (14.06.2021)
- **Erden Topal, Y. (2021)**, “CST in Turkey: Current State and National Strategies to Exploit Opportunities”, presented in *ODAKTR Seminer Series - H2020 SolarTwins Project Seminars*, <https://www.youtube.com/watch?v=KtxWxVlqqaA&t=463s>, (08.01.2021)
- **Erden Topal, Y. (2020)**, “Developing Renewable Energy Generation in the Global Economy: Co –evolution of Renewable Energy Technological Innovation System and Global Values Chains”, presented in *Seminars of Technology Management MSc. Programme of Innovation and Technology Management Graduate Programme(supervised by Prof. Dr. Antonio Hidalgo)*, Polytechnical University of Madrid (27.11.2020)
- **Erden Topal, Y. (2020)**, “Development of CSP / STE Sector in Turkey: Local integration to Global Value Chains Through International Channels”, presented in *ODAK 2023 Sunrise for Concentrating Solar Thermal (CST) in Turkey*, METU Teknokent, İkiizler Building Conference Room, Ankara /Turkey (26.02.2020)
- **Erden Topal, Y. (2018)**, “Can Renewable Energy be a solution?” presented (in TR) in *METU-TEKPOL & TIGV Pizza Seminars* (organized since May 2017), Middle East Technical University, Ankara / Turkey (30.11.2018)

OTHER ACTIVITIES

- **June, 2023-** Organization of “Solar Twins Project Final Meeting” as a part of organization team (Hande Eryilmaz, Eylül Gedik and Derek Baker, led by Yelda E. Topal), in Istanbul Technical University (ITU) Macka Campus, Faculty of Management, Academic Meeting Room, Harbiye, İstanbul, 13-14 June, 2023 İstanbul /Turkey
- **April, 2023-**Organization of “Solar Energy Opportunities and Activities to Drive the Clean Energy Transition and Green Economic Growth” as a part of the organization team (Hande Eryilmaz, Eylül Gedik, Onur Taylan and lead by Derek Baker), Mini-conference and Joint National Event of METU, ODTÜ- GÜNAM- Center for Solar Energy Research and Application and ODAKTR-Turkish Concentrating Solar Thermal Initiative, in SOLAREX 15th International Solar Energy and Techs. Expo, 6-8 April, 2023 İstanbul /Turkey
- **April-July, 2022-** Organization of TEKPOL- SolarTwins Seminer Series (of 10 Seminars) in the Theme of “Energy, European Research Area and Social Sciences and Humanities” as a part of H2020 SolarTwins Project Joint Research Line 9: Social Aspects of Sustainable Energy Transitions
- **July, 2022-** Session Chair, Socioeconomic Impacts of PV Applications - II” at PVCON 2022 METU CCC Hall A on July 7, 2022, at 11.30-12.30
- **April, 2022-** Organization of “Pathways to the Deployment of Solar Technologies in Turkey: Concentrated Solar Thermal Energy and Photovoltaic Energy Technologies” Co-Chair, Mini-conference and Joint National Event Joint National Event of ODTÜ- GÜNAM, ODAKTR, EU H2020 Project: HORIZON-STE and EU H2020 Project: SolarTwins, SOLAREX 14th International Solar Energy and Techs. Expo, 7-9 April, 2022 İstanbul /Turkey (Lead by Prof. Dr. Derek K. Baker)
- **March 2020-February 2021**, Scholarship for one year for the Postdoctoral Research Project of “Developing Renewable Electricity Generation in the Global Economy: Co-evolution of Renewable Energy Technological Innovation System and Global Values Chains” from TUBITAK 2219- International Postdoctoral Research Fellowship Program for Turkish Citizens for one year (2018 II Term)
- **December 2020-March 2021**, Organization/ making the programme as a member of the Organization Team of

Winter 2020/2021 ODAKTR Concentrating Solar Thermal (CST) Webinar Series (under the Communication, Outreach, Dissemination, and Exploitation (CODE) Activities of SolarTwins, <http://www.solartwins.metu.edu.tr/downloads/odakTrWebinarSeriesFinalBooklet.pdf>

- **February 2020**, Organization of ODAK 2023 Kick-Off Event *ODAK 2023 Sunrise for Concentrating Solar Thermal (CST) in Turkey*, Co-Chair, Open Workshop in SolarTwins Kick –Off Activities, METU Teknokent, İkizler Building Conference Room, Ankara /Turkey (*with Project Team Lead by Prof. Dr. Derek K. Baker*)
- **May 2017**- Organization of “*INNO4SD Sustainability Transitions and Country Review Workshop*” at METU, organized by The Global Network of Networks about Innovation for Sustainable Development, Inno4SD Network, UNU MERIT United Nations University (UNU-MERIT)- Maastricht Economic and Social Research Institute on Innovation and Technology, Maastricht University, METU-TEKPOL, May 25, 2017 (*Organization is financed by UNU_MERIT*)
- **June 2015**, Contribution to organization of “*SEES (Summit for Sustainable Development) Workshop*” at METU, organized by McDonell Academy Global Energy and Environmental Partnership Solar Energy and Energy Storage (MAGEEP-SEES Initiative), METU-GÜNAM and METU Vice Presidency, June 1-3, 2015
- **June 2014**,_Participation to 5th UGR Erasmus Staff Training Week for General University Administration, University of Granada (UGR), Granada / Spain, 2-6 June 2014 (*Trip is financed by METU Erasmus Staff Training Program*).
- **May 2012**, Participation to “*EIS-Energy Innovation Systems Summer School*”, organized by Strategic Research Alliance for Energy Innovation Systems and their dynamics, Aalborg, Denmark, 21-25 May 2012 (*Trip is financed by TUBITAK-Science Fellowships and Grant Programmes Department, fellowship for PhD. Students for Participation to Scientific Activities in Abroad*).
- **December 2010**,_Participation to One Week Intensive Course Program on “*The Design and Evaluation of Innovation Policy (DEIP) in An Emerging Country Context*” organized jointly by UNU-MERIT Maastricht, TUBITAK and METU TEKPOL, Gebze/Turkey, 6-10 December 2010 (*Trip is financed by METU TEKPOL and TUBITAK*).

SKILLS

Languages Turkish: Native, English: YÖKDİL (02.2024): 91.25 & YDS (04.2018): 92.5

Computer Microsoft Windows, Microsoft Office (MS Word, MS Excel, MS Power point, MS Visio), Stata, E-views