

## Personal Information

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## International Researcher IDs

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## Biography

Yelda Erden Topal studied economics at Hacettepe University and Middle East Technical University (METU) and earned her PhD degree from Science and Technology Policy Studies at METU (2016) with the PhD Dissertation entitled as "A Policy Design Model For Market Formation of Solar and Wind Electricity Generation in Turkey". As TUBITAK 2219-International Postdoctoral Research Fellow, she has completed her one-year postdoctoral research in Madrid (Spain) between 2020-2021 on policymaking for the development and diffusion of renewable energy technologies in Innovation, Industrial Property and Technology Policy Research Group (INNOPRO), Universidad Polit cnica de Madrid and Renewable Energy Unit, CIEMAT. Yelda has been a researcher at METU TEKPOL and the Department of Economics since 2009. She is engaged to EU Solar Energy Research Networks by being a researcher of H2020 Solar- Twins Project, H2020 Horizon STE project, EUSOLARIS ERIC Initiative, EERA CSP JP and EERA e3S JP and ODAKTR Initiative.

## Education Information

Post Doctorate, Universidad Polit cnica de Madrid, School of Industrial Engineering / E.T.S. Ingenieros Industriales, Department of Business Administration, Economics and Statistics, Spain 2020 - 2021

Doctorate, Middle East Technical University, Graduate School of Social Sciences, Science and Technology Policy Studies, Turkey 2008 - 2016

Postgraduate, Middle East Technical University, Graduate School of Social Sciences, Economics, Turkey 2005 - 2008

Undergraduate, Hacettepe University, İktisadi Ve İdari Bilimler Fak ltesi, İktisat B l m , Turkey 2001 - 2005

## Foreign Languages

English, C1 Advanced

## Dissertations

Doctorate, A Policy Design Model for Market Formation of Solar and Wind Electricity Generation in Turkey, Middle East Technical University, Graduate School of Social Sciences, Science and Technology Policy Studies, 2016

## Research Areas

## Academic Titles / Tasks

Research Assistant PhD, Middle East Technical University, Faculty of Economic and Administrative Sciences, Department of Economics, 2012 - Continues

## Courses

Econ 212-Principles of Economics, Undergraduate, 2021 - 2022

Econ 211- Principles of Economics I, Undergraduate, 2022 - 2023

Econ 210- Principles of Economics, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018

## Published journal articles indexed by SCI, SSCI, and AHCI

- Civil Aviation Policies and Practices in Turkey in a Global Context Through Sustainable Aviation**  
Haksevenler B. H. G., Temel N. U., Topal Y. E.  
Global Challenges, vol.7, no.12, 2023 (SCI-Expanded)

## Articles Published in Other Journals

- Market Formation in Turkish Solar Electricity Generation: Technology Innovation System Approach**  
Erden Topal Y., Erdil E.  
İzmir iktisat dergisi, vol.38, no.3, pp.625-645, 2023 (Peer-Reviewed Journal)
- Opportunities and Barriers for the Application of Solar Heat For Industrial Processes Technologies to Turkish Industrial Parks: The Case of Kayseri Industrial Park**  
Akdemir S. D., Erden Topal Y.  
Kent akademisi (Online), vol.16, no.4, pp.1-20, 2023 (Peer-Reviewed Journal)
- Veriye Dayalı bir Politika Tasarım Modeli Önerisi: Türkiye’de Yenilenebilir Enerji Teknolojilerinin Yayılmasının Niteliksel Analizi**  
Erden Topal Y.  
Selçuk Üniversitesi Sosyal Bilimler Enstitüsü Dergisi, no.50, pp.133-155, 2023 (Peer-Reviewed Journal)
- Interdisciplinarity in Hydrogen Technologies Research: Social Sciences Aspects**  
Aydınöğlü A. U., Erden Topal Y., Gökcalp İ.  
JOURNAL OF POLYTECHNIC-POLİTEKNİK DERGISİ, no.1, pp.357-366, 2023 (ESCI)
- UNDER THE SWORD OF DAMOCLES IN TECHNOLOGY POLICY MAKING: THE CASES OF TURKISH HEALTH BIOTECHNOLOGY AND RENEWABLE ENERGY SECTORS**  
Evsel G., Topal Y.  
Akademi Sosyal Bilimler Dergisi, vol.10, pp.98-110, 2023 (Peer-Reviewed Journal)
- The Policy Implications for the Deployment of Renewable Energy: The Case of Istanbul**  
Şenoğlu G., Topal Y. E., Haksevenler B. H. G.  
İdealkent, vol.35, no.13, pp.171-196, 2022 (Peer-Reviewed Journal)
- Türkiye’de Yenilenebilir Kaynaklara Dayalı Elektrik Üretimini Etkileyen Faktörler: Rüzgar ve Güneş Enerjisi Örneğinde Kar Amacı Motivasyonuna göre Farklılaşan Engeller ve Destekler**  
ERDİL E., ERDEN TOPAL Y., GÜRSOY HAKSEVENLER B. H.  
Avrupa Bilim ve Teknoloji Dergisi, no.32, pp.901-916, 2021 (Peer-Reviewed Journal)
- Girişimci Üniversitenin Temelleri: Üniversite ve Sanayi Neden İşbirliği Yapar? Türkiye’de Yenilenebilir Enerji Sektöründen Bir Örnek**

Erden Topal Y.

TSE Standard Dergi, no.666, pp.36-44, 2018 (Non Peer-Reviewed Journal)

**IX. Değişen üniversite-sanayi işbirliğinde üniversite örgütlenmesi**

Erdil E., Pamukcu M. T., Akçomak İ. S., Erden Topal Y.

ANKARA UNIVERSİTESİ. SIYASAL BİLGİLER FAKULTESİ DERGİSİ, vol.68, no.2, pp.95-127, 2013 (Peer-Reviewed Journal)

**X. KAMU AR-GE DESTEKLERİ VE YENİLİK MODELLERİ: KAMU AR-GE POLİTİKALARININ MEŞRULAŞTIRILMASI İÇİN HANGİ YENİLİK MODELİ SEÇİLMELİ?**

Topal Y.

Ekonomi Bilimleri Dergisi, vol.1, no.2, pp.25-32, 2009 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. Greening Türkiye's Economy. The Policy Perspective. GREET 2023**  
Akçomak İ. S., Coşkun B., Danacı D., Demirköprülü H. C., Erdoğan S., Güler E., Gündüz I. I., Işılak A., Kılıçaslan Özçakır S., Köksal M. S., et al.  
Türkiye Teknoloji Geliştirme Vakfı (TTGV), Ankara, 2023
- II. Hidrojen Taşınmasında Doğal Gaz Ağına Rolü**  
Dedeoğlu V., Erden Topal Y., Gökalgı I.  
in: STS: Bir Disiplin Olarak Kimlik İnşası, Hidrojen Taşınmasında Doğal Gaz Ağına Rolü, Editor, Necmettin Erbakan Üniversitesi Yayınları, Konya, pp.162-179, 2023
- III. Karbon Nötr Kent Uygulamalarında New York ve İstanbul Örnekleri**  
Erden Topal Y., Gürsoy Haksevenler B. H.  
in: İklim Dostu Kentler Türkiye ve Dünyadan Örnekler, Prof. Dr. Hüseyin Gül, Öğr. Gör. Dr. Hülya Küçük Bayraktar, Dr. Veli Ercan Küçük, Editor, Detay Anatolia Akademik Yayıncılık, Ankara, pp.99-128, 2023
- IV. Nudging Cities Towards Renewable Energy for Sustainability, The case of Istanbul**  
Gürsoy Haksevenler B. H., Erden Topal Y., Şenoğlu G.  
in: SDG 11, Sustainable Cities and Communities Moving Forward with the Circular Economy, Shyama V. Ramani, Hiroshan Hettiarachchi, Editor, Routledge, London/New York, London, pp.135-152, 2022
- V. Sustainability Transitions and Innovation Review: Turkey**  
Erden Topal Y., Turkeli S., Savut İ. P.  
in: Deliverable 3.5 - Global Map of Eco-innovation Related Policies, MICHAL MIEDZINSKI, Editor, inno4sd.net, London, pp.85-147, 2019

## Refereed Congress / Symposium Publications in Proceedings

- I. Karbon Nötr Kent Uygulamalarında New York Örneği ve İstanbul**  
Erden Topal Y., Gürsoy Haksevenler B. H.  
EconTR 2023, IV. International Conference on Economics, Ankara, Turkey, 7 - 09 September 2023
- II. Effects of the COVID-19 Outbreak on Economics Research in Turkey: Collaboration Dynamics, Topics Analysis and Gender Aspects**  
Erden Topal Y., Ozer O. K.  
EconTR 2023, IV. International Conference on Economics, Ankara, Turkey, 7 - 09 September 2023
- III. Promotion of Solar Heat in Industrial Processes: Policy and Law Analysis with Focus on Turkey and Germany**  
Erden Topal Y., Akdemir S. D., Artantaş O. Ç.  
EuroSun 2022 ISES and IEA SHC International Conference on Solar Energy for Buildings and Industry, Kassel, Germany, 25 September - 29 October 2022, pp.1-12
- IV. Passive Houses and Its Implications in Turkey - Lessons Learnt from Germany Experience**

Erden Topal Y., Gündüz I. İ., Gerçek A. A.

EuroSun 2022 ISES and IEA SHC International Conference on Solar Energy for Buildings and Industry, Kassel, Germany, 25 September - 29 October 2022, pp.1-10

- V. **Opportunities and Barriers for Solar Heat for Industrial Processes Technologies in Turkish Industrial Parks: The Case of Kayseri Industrial Park**  
Akdemir S. D., Erden Topal Y., Kurt Z.  
The 34th Annual EAEPE Conference 2022 Tackling inequalities: New paradigms in policy and technology for a just transition and vaccine equity, Naples, Italy, 7 - 09 September 2022
- VI. **Alternative Pathways to the Deployment of Concentrated Solar Thermal Technologies in Turkey: Lessons Learnt from Case Studies of German and Spanish CST Industries**  
Erden Topal Y., Gerçek A. A., Gündüz I. İ.  
The 34th Annual EAEPE Conference 2022 Tackling inequalities: New paradigms in policy and technology for a just transition and vaccine equity, Naples, Italy, 7 - 09 September 2022
- VII. **The Role of Gender in Turkish Solar Energy Research**  
Özer Ö. K., Topal Y. E.  
26th International Conference on Science and Technology Indicators "From Global Indicators to Local Applications", Granada, Spain, 7 - 09 September 2022, pp.1-8
- VIII. **Towards Sustainable Aviation: Stakeholder Analysis on Sustainable Aviation in Turkey**  
Temel N. Ü., Erden Topal Y., Gürsoy Haksevenler B. H.  
1st International Conference on Sustainable Chemical & Environmental Engineering, Rethimnon, Greece, 31 August - 04 September 2022
- IX. **A Bibliometric Literature Review of Socio-economic Impact Assessments of Solar Energy and Photovoltaic Technologies**  
Zırh B. C., Derin Güre P., Erden Topal Y., Yazıcı E., İpek E., Deveci A., Erdil E., Sarı R.  
PVCON 2022 Photovoltaic Conference, Ankara, Turkey, 5 - 07 July 2022, pp.11-12
- X. **Büyük Ölçekli Toplumsal-Teknik Sistemler: Kavramsal bir Çerçeve**  
Erden Topal Y., Gökalp İ.  
STS TURKEY 2021 KONFERANSI – STS: Bir Disiplin Olarak Kimlik İnşası, Ankara, Turkey, 22 November 2021, pp.31-34
- XI. **Şehir Ölçeğinde Yenilebilir Enerji Kullanımının Desteklenmesi: İstanbul için Oneriler**  
Şenoğlu G., Erden Topal Y., Gürsoy Haksevenler B. H.  
STS TURKEY 2021 KONFERANSI – STS: Bir Disiplin Olarak Kimlik İnşası, Ankara, Turkey, 22 - 24 November 2021, pp.21-22
- XII. **Sosyal Bilimlerde Hidrojen Araştırmalarının Yeri: Bibliometrik bir Değerlendirme**  
Aydınoglu A. U., Erden Topal Y., Gökalp İ.  
STS TURKEY 2021 KONFERANSI – STS: Bir Disiplin Olarak Kimlik İnşası, Ankara, Turkey, 22 - 24 November 2021, pp.27-30
- XIII. **Review of socio-economic impacts of PV technology development in the developing countries context**  
Erdil E., Derin Güre P., Erden Topal Y., Zırh B. C.  
PVCON 2020, Ankara, Turkey, 30 November - 02 December 2020, pp.61-62
- XIV. **A Policy Design Model For Market Formation Of Solar And Wind Electricity Generation In Turkey**  
Erden Topal Y., Erdil E., Hidalgo A.  
The 32nd Annual EAEPE Conference 2020, The Evolution of Capitalist Structures: Uncertainty, Inequality, and Climate Crisis,, Bilbao, Spain, 2 - 04 September 2020, pp.1-29
- XV. **Development of Concentrated Solar Power / Solar Thermal Energy Technologies Sector in Turkey: Local Integration to Global Value Chains Through International Channels**  
ERDİL E., ERDEN TOPAL Y., AYDINOĞLU A. U.  
EAEPE 32nd Annual Conference, Bilbao, Spain, 2 - 04 September 2020
- XVI. **Market Formation in Solar and Wind Electricity Generation in Turkey : Technological Innovation System Approach**

Erden Topal Y., Erdil E.

ICEEE 2020- International Conference on Economics, Energy and Environment , İzmir, Turkey, 25 - 27 June 2020, pp.1-30

**XVII. Turkey's Approach to Decarbonising the Energy Sector: A Renewable Energy Perspective**

Baker D. K., Erden Topal Y., Erdil E.

CSP4Climate 2018 International Conference: Decarbonisation of Energy Sector in Mediterrenian Region and the Middle East, The role of CPS , Lefkosia, Cyprus (Gkry), 29 November 2018 - 01 December 2019, pp.1-2

**XVIII. Türkiye’de Rüzgar ve Güneş Enerjisine Dayalı Elektrik Üretimini Yayılmasını Destekleyen ve Engelleyen Faktörler**

Erden Topal Y., Erdil E.

STS Turkey 2018, Toplum için Bilim ve Teknoloji çalışmaları Konferansı, Ankara, Turkey, 10 - 11 September 2018

**XIX. Confidential Economic Life and Relations in the Simplicity of Everyday Life**

EVSEL G., ERDEN TOPAL Y.

13. Avrupa Sosyoloji Derneği Konferansı, 29 August - 01 September 2017

**XX. An Analysis of Market Formation in Solar and Wind Electriciricity Generation in Turkey from the Perspective of Technological Innovation System Approach**

Erden Topal Y., Erdil E.

EconAnadolu, Anadolu International Conference in Economics, Eskişehir, Turkey, 11 - 13 May 2017

**XXI. Who is under the sword of Damocles? Science and Technology Policy Making in Turkish Health Biotechnology and Renewable Energy Sectors**

Erden Topal Y., Eysel G.

12th Conference of the European Sociological Association –Differences, Inequalities and Sociological Imagination, Praha, Czech Republic, 28 - 31 August 2015, pp.1114-1115

**XXII. Diffusion of Solar Electricity in Turkey : An investigation from Producer and Supplier Sides**

Erden Topal Y., Erdil E.

SOLARTR 2014 Solar Conference and Exhibition, İzmir, Turkey, 19 - 21 November 2014

**XXIII. Can Renewable Energy Solve the Problem? Preliminary Remarks on Basic problems in Turkish Energy Sector and Suggestions for Solution**

Erden Topal Y.

11th GLOBELICS International Conference: Entrepreneurship, Innovation Policy and Development in an Era of Increased Globalization,, Ankara, Turkey, 11 - 13 September 2013, pp.94-95

**XXIV. Perceptions on Changing the Energy Sector in Turkey: Renewable Sources or Imported Fossil Fuels**

Erden Topal Y.

11st Conference of the European Sociological Association – Crisis, Critique and Change, Turin, Italy, 28 - 31 August 2013, pp.1230-1231

**XXV. “Establishment & Development of Academic Spin-off Firms: Evidence from Turkey**

Erden Topal Y., Yurtseven A. E.

DRUID Dime Academy Winter 2010 Phd Conference: Innovation, Knowledge & Entrepreneurship, Aalborg, Denmark, 21 - 23 January 2010

## **Other Publications**

**I. Proceedings of the European webinar on Concentrating Solar Thermal Technologies & The CST Funding Programmes Survey Results**

Zarza Moya E., Erden Topal Y., Benitez D.

Technical Report, pp.1-20, 2022

**II. ODAKTR: Türkiye’de Odaklanmış Isıl Güneş Enerjisi Teknoloji Geliştirme ve Ağ Oluşturma Faaliyetleri**

Erden Topal Y., Taylan O., Baker D. K., Tarı İ.

Other, pp.22-23, 2022

**III. Integrated Country Report- Turkey**

Ancelle A., Souza A., Bial M., Erden Topal Y., Aydınođlu A. U., Erdil E., Baker D. K.  
Technical Report, pp.1-57, 2020

## Supported Projects

Erden Topal Y., TUBITAK Project, Enerji, Gönüllülük ve Sivil Toplum Kuruluşları, 2023 - 2024

Baker D. K., Tari I., Okutucu Özyurt H. T., Akata Kurç B., Çulfaz Emecen P. Z., Kurt Z., Erden Topal Y., TAYLAN O., H2020 Project, SolarTwins: Solar Twinning to Create Solar Research Twins, 2020 - 2023

Baker D. K., Bial M., Erden Topal Y., Erdil E., Pamukcu M. T., Akçomak I. S., Aydınođlu A. U., H2020 Project, HORIZON-STE: Implementation of the Initiative for Global Leadership in Solar Thermal Electricity, 2019 - 2022

## Memberships / Tasks in Scientific Organizations

European Association for Evolutionary Political Economy, Member, 2019 - Continues, England

## Scientific Refereeing

ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, Journal Indexed in SCI-E, March 2020

ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, Journal Indexed in SCI-E, January 2020

## Tasks In Event Organizations

Baker D. K., Erden Topal Y., Akata Kurç B., Kurt Z., ODAK 2023 Kick-Off Event- Sunrise for Concentrating Solar Thermal in Turkey, Workshop Organization, Ankara, Turkey, Şubat 2020

## Mobility Activity

Other Exchange Programme, Post Doc, Universidad Politécnica de Madrid, Spain, 2020 - 2021

## Metrics

Publication: 44

H-Index (WoS): 1

## Scholarships

International Postdoctoral Research Fellowship Program for Turkish Citizens, TUBITAK, 2020 - 2021

## Non Academic Experience

Madrid Politeknik Üniversitesi