

## Assoc. Prof. Tunç DURMAZ

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: A-6260-2018

ScopusID: 57195242647

Yoksis Researcher ID: 118122

### Biography

Tunç Durmaz is an Associate Professor at the Economics Department at Yildiz Technical University in Istanbul. His research interests lie in economics of climate change, carbon capture and storage, energy storage, electricity economics and markets, technological change and green growth, and investment, consumption, and production decisions of prosumers. His research has been published in journals such as Energy Economics, Renewable and Sustainable Energy Reviews, Environmental Modeling & Assessment, Climate Change Economics, and Economics Of Energy & Environmental Policy to name a few. At Yildiz Technical University, Durmaz teaches courses in Microeconomics, Environmental Economics (Masters), Energy and Resource Economics, Economics of Regulation and Competition Policy, and Introduction to Computer Science.

He received his Ph.D. in Economics from the Norwegian School of Economics. In his Ph.D. thesis, he scrutinizes the role of different technologies and technological change can play in facilitating green economic growth. From 2015 to 2016, he was a postdoctoral fellow at the School of Energy and Environment at the City University of Hong Kong.

[Tunç Durmaz on Google Scholar](#)

### Education Information

Post Doctorate, City University of Hong Kong, School of Energy and Environment, Hong Kong 2015 - 2016

Doctorate, Norges Handelshoyskole;Nhh (Norwegian School Of Economics And Business Administration), Economics, Economics, Norway 2009 - 2015

Postgraduate, University of Southern California, Department Of Economics, Economics, United States Of America 2007 - 2009

Postgraduate, Marmara University, Institute Of Social Sciences, Department Of Economics (Eng), Turkey 2004 - 2007

Undergraduate, Dokuz Eylul University, Faculty Of Business Administration, İktisat, Turkey 1999 - 2003

### Foreign Languages

German, B2 Upper Intermediate

French, B1 Intermediate

English, C2 Mastery

Norwegian, C1 Advanced

## Dissertations

Doctorate, Essays in Energy, Environment and Technology, Norwegian School Of Economics, Department Of Economics, Economics, 2015

## Research Areas

Social Sciences and Humanities, Economics, Theory of Economy

## Academic Titles / Tasks

Assistant Professor, Yildiz Technical University, Faculty Of Economic And Administrative Sciences, Department Of Economics, 2019 - Continues

## Academic and Administrative Experience

Deputy Head of Department, Yildiz Technical University, Faculty Of Economic And Administrative Sciences, Department Of Economics, 2021 - Continues

Erasmus Coordinator, Yildiz Technical University, Faculty Of Economic And Administrative Sciences, Department Of Economics, 2017 - 2020

## Courses

Introductory Computer Science , Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018

Environmental Economics, Postgraduate, 2020 - 2021

Introduction to Economics, Undergraduate, 2020 - 2021

Enerji ve Doğal Kaynaklar Ekonomisi, Undergraduate, 2020 - 2021

Introduction to Environmental Economics, Undergraduate, 2018 - 2019

The Economics of Regulation and Competition, Undergraduate, 2017 - 2018

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

- I. **Generation failures, strategic withholding, and capacity payments in the Turkish electricity market**  
Durmaz T., Acar S., Kizilkaya S.  
ENERGY POLICY, vol.184, pp.1-13, 2024 (SSCI)
- II. **AI revolution and coordination failure: Theory and evidence**  
ÜNVEREN B., DURMAZ T., SUNAL S.  
Journal of Macroeconomics, vol.78, 2023 (SSCI)
- III. **Estimation of residential electricity demand in Hong Kong under electricity charge subsidies**  
DURMAZ T., Pommeret A., TAŞTAN H.  
ENERGY ECONOMICS, vol.88, 2020 (SSCI)
- IV. **Smart grids and renewable electricity generation by households**  
Dato P., DURMAZ T., Pommeret A.  
ENERGY ECONOMICS, vol.86, 2020 (SSCI)
- V. **EVALUATING CARBON CAPTURE AND STORAGE IN A CLIMATE MODEL WITH ENDOGENOUS TECHNICAL CHANGE**  
Durmaz T., Schroyen F.

CLIMATE CHANGE ECONOMICS, vol.11, no.1, 2020 (SSCI)

- VI. **Levelized Cost of Consumed Electricity**  
DURMAZ T., Pommeret A.  
ECONOMICS OF ENERGY & ENVIRONMENTAL POLICY, vol.9, no.1, pp.243-262, 2020 (SSCI)
- VII. **A Two-Sector Model of Economic Growth with Endogenous Technical Change and Pollution Abatement**  
Amigues J., Durmaz T.  
Environmental Modeling and Assessment, vol.24, no.6, pp.703-725, 2019 (SCI-Expanded)
- VIII. **The economics of CCS: Why have CCS technologies not had an international breakthrough?**  
DURMAZ T.  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.95, pp.328-340, 2018 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Feed-in tariff policy in Hong Kong: is it efficient?**  
Durmaz T., Pommeret A., Dato P.  
City and Environment Interactions, vol.10, pp.1-10, 2021 (ESCI)
- II. **Düşük Karbon Ekonomisine Geçiş ve Bu Geçişte Karbon Yakalama ve Depolamanın Rolü**  
Durmaz T.  
Sosyal Bilimler Araştırmaları Dergisi, vol.0, no.0, pp.205-224, 2019 (Peer-Reviewed Journal)
- III. **Energy Storage and Renewable Energy: An Economic Approach**  
Durmaz T.  
YILDIZ Social Science Review, no.4, pp.15-38, 2018 (Peer-Reviewed Journal)
- IV. **Are households ready to pay for solar panels and smart grids?**  
DURMAZ T., Pommeret A., Ridley I.  
IAEE Energy Forum, pp.25-28, 2018 (Peer-Reviewed Journal)
- V. **Strategic Dynamic Climate Policy: The Role of CCS**  
Durmaz T.  
Yönetim ve Ekonomi Araştırmaları Dergisi, vol.15, no.5, pp.212-228, 2017 (Peer-Reviewed Journal)
- VI. **Willingness to Pay for Solar Panels and Smart Grids**  
DURMAZ T., Pommeret A., Ridley I.  
FEEM working papers "Note di lavoro" series, pp.1-24, 2017 (Peer-Reviewed Journal)
- VII. **"Optimal storage under uncertainty: Investigating the implications of frugality and prudence"**  
Durmaz T.  
Economics Bulletin, vol.37, 2017 (ESCI)

## Books & Book Chapters

- I. **Renewables, Energy Storage, and Smart Grids**  
Durmaz T., Pommeret A., Dato P.  
in: Climate and Energy protection in the EU and China - 5th Workshop on EU-Asia Relations in Global Politics, Hefele,P.,Palocz-Andresen,M.,Rech,Kohler,J.-H., Editor, Springer-Verlag , Berlin, pp.85-94, 2019
- II. **Environmental Catastrophes and Deep Uncertainties Surrounding the Economics of Climate Change**  
DURMAZ T.  
in: Environment and Sustainability, Aydın Celil, Darıcı Burak, Editor, Peter Lang, Berlin, pp.171-186, 2019
- III. **Non-Cooperative Duopoly Games under Uncertainty of Discount Rates**  
Durmaz T.  
in: Firms' Strategic Decisions: Theoretical and Empirical Findings, Kazuhiro Ohnishi, Editor, Bentham Science, Sharjah, pp.36-50, 2018

## Refereed Congress / Symposium Publications in Proceedings

- I. **Electricity market capacity mechanism and strategic capacity withholding in Turkey**  
DURMAZ T., ACAR AYTEKİN S., KIZILKAYA YERLİSU S.  
5th AIEE Energy Symposium Current and Future Challenges to Energy Security – energy perspectives beyond COVID19 –, 15 - 17 December 2020
- II. **Moderate economic inequality boosts AI**  
DURMAZ T., ÜNVEREN B.  
Economics of Digitization, 19 - 20 November 2020
- III. **Düşük Karbon Ekonomisine Geçiş Ve Bu Geçişte Kyd'nin Rolü**  
DURMAZ T.  
DÜŞÜK KARBON EKONOMİSİNE GEÇİŞ VE BU GEÇİŞTE KYD'NİN ROLÜ, Kocaeli, Turkey, 14 - 15 November 2019, pp.76-81
- IV. **Levelized Cost of Consumed Electricity**  
DURMAZ T., Pommeret A.  
24th Annual Conference of the European Association of Environmental and Resource Economists, Manchester, United Kingdom, 26 - 29 June 2019
- V. **Supply uncertainty in electricity markets**  
DURMAZ T.  
TÜRKİYE EKONOMİ KURUMU ULUSLARARASI EKONOMİ KONFERANSI - UEK-TEK 2018, 1 - 03 November 2018, pp.1994-2000
- VI. **Estimation of the Residential Electricity Demand in Hong Kong**  
DURMAZ T., POMMERET A., TAŞTAN H.  
International Conference on Empirical Economics and Social Sciences (ICEESS'18), 27 - 28 June 2018
- VII. **The Economics Of CCS: A Survey Of The Recent Literature**  
DURMAZ T.  
3rd International Conference on Applied Economics and Finance, Girne, Cyprus (Kkfc), 06 December 2017, pp.117
- VIII. **Willingness to pay for solar panels and smart grids**  
DURMAZ T., Pommeret A., Ian R.  
4th FAERE Annual Conference, Nancy, France, 12 - 13 September 2017
- IX. **Smart grids and renewable electricity generation by households**  
DURMAZ T., Dato P., Pommeret A.  
23rd Annual Conference of the European Association of Environmental and Resource Economists, Atina, Greece, 28 June - 01 July 2017
- X. **Renewables, Energy Storage and Smartgrids**  
DURMAZ T., Pommeret A., Dato P.  
The 65th Annual Meeting of the French Economic Association, Nancy, France, 27 - 29 June 2016
- XI. **Evaluating Carbon Capture and Storage in a Climate Model with Endogenous Technical Change**  
DURMAZ T., Schroyen F.  
Bergen IAEE2016 International Conference - Energy: Expectations and Uncertainty, Bergen, Norway, 19 June 2016
- XII. **The Role and Implications of Energy Storage: An Economic Perspective**  
DURMAZ T.  
38th IAEE International Conference, Antalya, Turkey, 25 May 2015

## Other Publications

- I. **Smart Grids and Renewable Electricity Generation by Households**  
DURMAZ T., Pommeret A., Dato P.  
Technical Report, 2017
- II. **Precautionary Storage in Electricity Markets**

DURMAZ T.

Technical Report, 2016

III. **Energy Storage and Renewable Energy**

DURMAZ T.

Technical Report, 2014

IV. **Evaluating Carbon Capture and Storage in a Climate Model with Directed Technical Change**

DURMAZ T., Schroyen F.

Technical Report, 2013

## Supported Projects

DURMAZ T., KIZILKAYA YERLİSU S., KARADUMAN H. A., Project Supported by Higher Education Institutions, Türkiye'de Elektrik Üretim Arızaları, Stratejik Kapasite Alıkoyma ve Kapasite Ücretlendirme Mekanizması, 2021 - 2023

Durmaz T., Project Supported by Other Official Institutions, Enerji Güvenliği, Çevre ve Ekonomi Ekseninde Türkiye Elektrik Piyasası Kapasite Mekanizması, 2019 - 2020

## Scientific Refereeing

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Yıldız Technical University, Turkey, November 2024

RESOURCE AND ENERGY ECONOMICS, Journal Indexed in SSCI, December 2020

ENERGY ECONOMICS, Journal Indexed in SSCI, December 2020

ENERGY JOURNAL, Journal Indexed in SSCI, December 2020

ENERGY JOURNAL, Journal Indexed in SSCI, October 2020

ENERGY JOURNAL, Journal Indexed in SSCI, July 2020

ECONOMICS BULLETIN, Journal Indexed in ESCI, June 2020

CITY AND ENVIRONMENT INTERACTIONS, Other Indexed Journal, March 2020

REVIEW OF INDUSTRIAL ORGANIZATION, Journal Indexed in SSCI, October 2019

ENERGY JOURNAL, Journal Indexed in SSCI, January 2019

ENERGY, SCI Journal, November 2018

ECONOMICS BULLETIN, Journal Indexed in ESCI, October 2018

ENERGY JOURNAL, Journal Indexed in SSCI, August 2018

ENERGY JOURNAL, Journal Indexed in SSCI, July 2018

RESOURCE AND ENERGY ECONOMICS, Journal Indexed in SSCI, March 2018

ENERGY, SCI Journal, December 2017

SCANDINAVIAN JOURNAL OF ECONOMICS, SCI Journal, November 2016

Natural Resource Modeling, Journal Indexed in SCI-E, April 2016

NATURAL RESOURCE MODELING, Journal Indexed in SCI-E, January 2016

## Metrics

Publication: 35

Citation (WoS): 89

Citation (Scopus): 105

H-Index (WoS): 5

H-Index (Scopus): 5

## **Congress and Symposium Activities**

International Conference on Applied Economics and Finance (ICOAEF 2017), Attendee, Girne, Cyprus (Kktc), 2017  
4th French Association of Environmental and Resource Economists (FAERE) Annual Conference, Attendee, Nancy, France, 2017  
EconAnadolu 2017, Attendee, Eskişehir, Turkey, 2017  
Rokko Forum (invited), Graduate School of Economics, Kobe University, Attendee, Kôbe, Japan, 2016  
The 39th International Association for Energy Economics (IAEE) International Conference, Attendee, Bergen, Norway, 2016  
The 65th Annual Meeting of the French Economic Association, Attendee, Nancy, France, 2016  
European Association of Environmental and Resource Economists (EAERE) 22st Annual Conference, Attendee, Zürich, Switzerland, 2016  
10th Conference on The Economics of Energy and Climate Change, Attendee, Toulouse, France, 2015  
EAERE 21st Annual Conference, Attendee, Helsinki, Finland, 2015  
The 38th IAEE International Conference, Attendee, Antalya, Turkey, 2015  
Bergen Economics of Energy and Environment Research Conference 2015 (BEEER 2015), Attendee, Bergen, Norway, 2015  
5th World Congress of Environmental and Resource Economists, Attendee, İstanbul, Turkey, 2014  
The 37th IAEE International Conference, Special PhD Session, Attendee, New York, United States Of America, 2014  
BEEER 2014, Attendee, Bergen, Norway, 2014  
The 36th Annual Meeting of the Norwegian Association of Economists, Attendee, Oslo, Norway, 2014  
The Economics of Energy Markets (invited), Attendee, Toulouse, France, 2014  
FIBE 2014, Attendee, Bergen, Norway, 2014  
EAERE 20th Annual Conference, Attendee, Toulouse, France, 2013  
Nordic Workshop in Industrial Organization, NORIO VIII, Attendee, København, Denmark, 2012  
BEEER 2012, Attendee, Bergen, Norway, 2012  
Research Conference: Energy and the Environment, Attendee, Bergen, Norway, 2011

## **Invited Talks**

Energy Economics, Conference, World Energy Strategies Congress and Exhibition 2019 , Turkey, August 2019  
Lunch Seminar, Seminar, Universitaet Basel (University of Basel), Switzerland, February 2019

## **Awards**

Durmaz T., Publication Score (2018) - 3rd place (Yıldız Technical University - Faculty of Economics and Administrative Sciences), Yıldız Teknik Üniversitesi, November 2019  
Durmaz T., Best paper award - Ecological Economics, 3Rd International Conference On Applied Economics And Finance, December 2017

## **Non Academic Experience**

IAE - Université Savoie Mont Blanc  
School of Energy and Environment, City University of Hong Kong  
Toulouse School of Economics