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## Curriculum Vitae

# Theodoros Zachariadis

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Theodoros Zachariadis is a tenured Associate Professor at the Energy, Environment and Water Research Centre of the Cyprus Institute. In 2009-2020 he served as an Assistant and then Associate Professor of environmental economics and energy resource management at the Cyprus University of Technology. In 2015-2020 he was the Dean of the University's Faculty of Geotechnical Sciences and Environmental Management. He holds a Diploma and a Doctorate in Mechanical Engineering from the Aristotle University of Thessaloniki, Greece. His postdoctoral work focused on the economic analysis of energy and environmental issues.

He has worked as a researcher at the National Technical University of Athens and as a European Marie Curie Fellow at the Economics Research Centre of the University of Cyprus. He is a member of the Scientific Committee of the European Environment Agency, a Visiting Professor at Aarhus University, Denmark, and an associate editor of the international Journal "Energy Economics". He is the recipient of the 2009 Research Prize of the Republic of Cyprus and the 2019 Environmental Prize awarded by the President of the Republic of Cyprus.

### Education and Degrees

- Ph.D. (Mechanical Engineering), Aristotle University of Thessaloniki, Greece, 1997
- Diploma (Mechanical Engineering), Aristotle University of Thessaloniki, Greece, 1993
- Exchange student (Erasmus programme), University of Karlsruhe, Germany, 1992

### Professional Experience

2017–	Member of Scientific Committee, European Environment Agency, Copenhagen, Denmark
2015–2020	Dean, Faculty of Geotechnical Sciences and Environmental Management, Cyprus University of Technology
2014–2020	Associate Professor, Cyprus University of Technology (on unpaid leave from 1 July 2020)
2009–2014	Assistant Professor, Cyprus University of Technology
2009–	Academic Fellow, Economics Research Centre, University of Cyprus

2019, 2020	Visiting Professor, Aarhus University summer school, Denmark. <u>Course</u> (postgraduate): Issues in Energy & Environmental Management
2011, 2014–2020	Visiting Professor, MSc Programme in Energy Studies, International Hellenic University, Thessaloniki, Greece. <u>Courses</u> (postgraduate): Energy Economics, Strategic Energy Management, Energy and Climate Change
2007–2009	Visiting part-time Lecturer, Dept. of Economics, University of Cyprus <u>Course</u> (undergraduate): Environmental Economics
2005–2008	Research coordinator, Economics Research Centre, University of Cyprus
2000–2004	Postdoctoral research fellow, Energy-Economy-Environment Modelling Laboratory, National Technical University of Athens (E3M-Lab/NTUA), Greece
2001–2003	Research Lecturer at E3M-Lab/NTUA
1999–2000	Visiting Assistant Professor, Department of Mechanical and Industrial Engineering, University of Thessaly, Greece <u>Course</u> (undergraduate): Fuels and Lubricants
	Visiting Assistant Professor, Department of Energy Engineering, Aristotle University of Thessaloniki, Greece <u>Course</u> (undergraduate): Applied Thermodynamics
1997–1999	Military service in the Greek army
1993–1997	Graduate research and teaching assistant, Department of Mechanical Engineering, Aristotle University of Thessaloniki, Greece  <u>Courses</u> (undergraduate): – Thermodynamics (numerical problems and laboratory practice) – Heat Transfer (numerical problems) – Supervision of six Diploma Theses of Aristotle University students
1991	Summer intern, Environmental Consultancy (EnviCon), Berlin, Germany

#### **Recent Teaching and Administrative Duties (at Cyprus University of Technology)**

- Undergraduate courses: Principles of Sustainable Resource Management, Environmental Economics and Policy, Energy and Environmental Policy
- Postgraduate courses: Energy and Environmental Economics, Energy Resource Management
- Member of the University’s Senate
- Member of the University’s Economic Affairs Committee
- Member of the University’s Strategic Planning Committee

#### **Academic Advising**

- Post-doctoral collaborators:
  - Adamos Adamou, PhD in Economics
  - Elena Ketteni, PhD in Economics
  - Nektarios Michail, PhD in Econometrics
  - Apostolos Michopoulos, PhD in Mechanical Engineering
- Principal advisor of doctoral student Mr. Christos Zoumides in the field of water management and policy. PhD awarded in June 2014

- Principal advisor of doctoral student Mr. Isidoros Ziogou in the field of energy policy and modelling, 2015-
- Principal advisor of doctoral student Ms. Chryso Sotiriou in the field of techno-economic analysis of energy and climate policy, 2018-
- Principal advisor of doctoral student Mr. Christodoulos Paphitis in the field of optimization of the operation of thermal power plants, 2018-
- External advisor of doctoral student Mr. Kevin Milis in the field of techno-economic energy modelling at the Department of Engineering Management, University of Antwerp, Belgium, 2016-2018 (thesis defence in September 2018)
- External member of PhD examination committees of:
  - Ms. Despo Parpas, Department of Architecture, University of Cyprus (defence in April 2019)
  - Mr. Constantinos Taliotis, Department of Energy Technology, KTH Royal Institute of Technology, Stockholm, Sweden (defence in June 2017)
  - Mr. Ouafik El Kasmoui, Faculty of Applied Economics and Department of Biology, University of Antwerp, Belgium (pre-defence in June 2013, defence in September 2013)
  - Mr. Pantelis Mitsis, Department of Economics, University of Cyprus (defence in May 2013)
- Principal advisor of the theses of 40 students of the Department’s MSc programme in Energy Resources Management and 10 students of the International Hellenic University’s MSc programme in Energy Systems
  - Thesis of Mr. Marios Kerimis received the best graduate thesis award by the Research Promotion Foundation of Cyprus in 2014

### **Grants, Awards and Scholarships**

- “Supporting the Economic Recovery of Cyprus with a View to Energy and Climate Policy”. Grant from Research and Innovation Foundation of Cyprus, 2020 (25 000 Euros)
- “Supporting the Economic Recovery of Cyprus with a View to Energy and Climate Policy”. Internal competitive research project awarded by the Cyprus Institute, 2020
- Environmental Prize by the President of the Republic of Cyprus, 2019
- “ODYSSEE-MURE, Monitoring EU energy efficiency first principle and policy implementation”. Grant by the European Commission under the Horizon2020 programme (call H2020-LC-SC3-2018-2019-2020), Grant Agreement number 847082, 2019-2021 (33 798 Euros, 1.7 mio Euros total)
- “Impact assessment of the Cyprus Integrated National Energy and Climate Plan”. Grant from the European Commission – Structural Reform Support Service, 2018-2020 (78 004 Euros)
- “Development of the OSEMoSYS Model to account for atmospheric pollutants and GHG emissions”. Grant from the European Commission – Structural Reform Support Service, 2018-2019 (53 202 Euros)
- “Urban Micro-Climate and the Design of Sustainable Built Environments”. Grant from Research Promotion Foundation of Cyprus, 2018–2021 (17 280 Euros, 250 000 Euros total)
- “Enterprise Level Greenhouse Gas Reduction Initiative, Business4Climate”. Grant from the Climate-KIC of the European Institute of Technology, 2018 (63 000 Euros)
- “Evaluation of the Effectiveness of Possible Climate Change Mitigation Policies and Measures”. Grant from the European Commission – Structural Reform Support Service, 2017-2018 (14 864 Euros)
- “Support for the formulation of a comprehensive medium and long-term energy efficiency strategy for Cyprus”. Grant from the German Organisation for International Cooperation (GIZ), 2016-2017 (19 292 Euros)
- “ODYSSEE-MURE, a decision support tool for energy efficiency policy evaluation”. Grant from the European Commission under the Horizon2020 programme (call H2020-EE-2015-3-MarketUptake), Grant Agreement number 696077, 2016-2018 (31 355 Euros, 1.8 mio Euros total)

- “Development of an energy demand forecast model for Cyprus”. Grant from the International Renewable Energy Agency, 2014 (USD 14 481)
- “European energy and environmental policy at a crossroads”. *Jean Monnet module*, funded by the European Commission – Lifelong Learning Programme (LLP), 2013-2016 (28 500 Euros)
- “Long-term energy planning of Cyprus: Update of the National Renewable Energy and Energy Efficiency Action Plans”. Grant from Ministry of Energy, Commerce, Industry and Tourism of the Republic of Cyprus, 2013 (4720 Euros)
- “Ground Source Heat Pump systems for nearly zero energy buildings: Energy, environmental and economic assessment for Cyprus”, Grant from Research Promotion Foundation of Cyprus, 2013–2015 (97 520 Euros)
- “Optimizing the penetration of renewable energy systems in buildings – Technical and economic assessment to improve energy efficiency of the buildings sector of Cyprus”, Research fellowship from the Ministry of Education and Culture of the Republic of Cyprus, 2012–2013 (7000 Euros)
- Energy data analysis for Cyprus in the framework of project “ODYSSEE-MURE 2013 – Monitoring of EU and national energy efficiency targets”, funded by the European Commission – Intelligent Energy Europe programme, 2013–2015 (7000 Euros)
- “Options for sustainable agricultural production and water use in Cyprus under global change”, Grant from Research Promotion Foundation of Cyprus, 2012–2013, Coordinator: The Cyprus Institute (22 300 Euros)
- Energy data analysis for Cyprus in the framework of project “ODYSSEE-MURE 2010 – Monitoring of EU and national energy efficiency targets”, funded by the European Commission – Intelligent Energy Europe programme, 2011–2012 (10 000 Euros)
- “Effect of climate variability and climate change on crop production and water resources in Cyprus”. Funded by the Agricultural Research Institute of Cyprus, 2011 (10 000 Euros)
- “Economic impacts from the implementation of the European Union’s energy and climate change legislation package in Cyprus”, Grant from Research Promotion Foundation of Cyprus, 2010–2012 (120 000 Euros)
- “Nikos Symeonides” Research Prize from the Research Promotion Foundation of Cyprus, September 2009 (55 000 Euros)
- Faculty start-up grant, Cyprus University of Technology, 2009–2010 (85 000 Euros, non-competitive)
- Marie Curie Reintegration Grant from the European Commission, 7th Framework Programme, 2008–2011 (45 000 Euros)
- Marie Curie Intra-European Fellowship from the European Commission, 6th Framework Programme, 2005–2007 (190 000 Euros)
- “Development of Quantitative Models for Long-Term Energy Planning and Analysis of the Transport Sector in Cyprus”, Grant from Research Promotion Foundation of Cyprus, 2004–2005 (63 000 Euros)
- Best paper presented at session ‘Vehicle-Environment Interface’ of FISITA (International Federation of Automotive Engineering Societies) Youth Congress, Prague, 1996
- Scholarship from the Technical Chamber of Greece for academic achievements as an undergraduate student, 1992
- Scholarship from the State Scholarships Foundation of Greece for travel and subsistence as an exchange student in Germany, 1992
- Scholarship from the State Scholarships Foundation of Greece for academic achievements as an undergraduate student, 1991, 1992, 1993
- Scholarship from the German Agency for Academic Exchange (DAAD) for graduate studies in Germany, 1989

## Invited Lectures

### a) Internationally:

- “Impact Assessment of National Energy and Climate Plans – Methodologies and Models”. Invited presentation at workshop ‘Regional Meeting on Paris Agreement – Setting the Scene’, International Atomic Energy Agency, Vienna, Austria, February 2020.
- “Assessing the Economic Impact of Decarbonisation Policies for Motor Vehicles – Challenges for Future Research”. Invited talk at E.ON Energy Research Center Colloquium, RWTH Aachen University, Germany, July 2017.
- “Economic Measures or Regulations for Improving Energy Efficiency? Reflections After Dieselgate”. Invited talk at Policy Workshop on Economic Challenges for Energy, Madrid, Spain, February 2017.
- “Evaluating the Economic Impact of Decarbonisation Policies in Road Transport”. Invited talk at academic Workshop on Developments in Energy Economics, Madrid, Spain, February 2017.
- “Transport and Sustainability: Current Status and Future Prospects with a View to Decarbonisation”. Invited 3-hour lecture at summer school on ‘Energy Economics’ to PhD students of the InnoEnergy KIC of the European Institute of Technology, Grenoble École de Management, France, September 2016
- “From Dieselgate to a Green Tax Reform: Regulations or Economic Instruments for a Successful Energy and Environmental Policy?”. Lecture to MSc students in the frame of their “Energy Economics” course, Department of Engineering Management, University of Antwerp, Belgium, March 2016
- “Engineering-Economic Analyses of Sustainable Energy and Transport Policies”. Academic seminar at Faculty of Applied Economics, University of Antwerp, Belgium, June 2015
- “Feebates in Europe: Economic and Environmental Aspects”. Academic seminar at Institute of Transportation Studies, University of California, Davis, March 2014
- “Policy options to address transportation energy and carbon intensity in Europe: Striking the balance”. Invited talk at the 7th Annual Berkeley Bioeconomy Conference, University of California, Berkeley, March 2014
- “Welfare Implications of CO<sub>2</sub>-based Feebates for Automobiles: Simulations for the German Car Market”. Academic seminar at Energy Economics Group, Vienna University of Technology, Austria, December 2013
- “Welfare Implications of Automobile Feebates”. Invited research seminar at Faculty of Applied Economics, University of Antwerp, Belgium, September 2013
- “Quantifying the effects of climate variability on crop water use in Cyprus”. Academic seminar at Department of Biology, University of Antwerp, Belgium, June 2013
- “Welfare Implications of Carbon Taxes for Cars”. Academic seminar at Department of Geography and Environment, London School of Economics, UK, December 2012
- “Economic and Policy Considerations for Decarbonising Car Transport in Europe”. Invited talk at doctoral seminar (‘masterclass’) of the Transport Research School TRAIL, Delft University of Technology, The Netherlands, November 2012
- “Policies to Reduce Automobile Carbon Emissions: Standards or Taxes?”. Academic seminar at Institute of Transport, Karlsruhe Institute of Technology, Germany, October 2012
- “Economic Aspects of Climate Change Impacts and Adaptation Measures in the Mediterranean”. Invited talk at conference of European Environmental National Contact Points ‘Env-NCP-Together’ Project, Malta, August 2012
- “Transportation, Energy and Climate Change – Economics and Policies”. Short course for MSc and PhD students at Department of Transport, Technical University of Denmark, June 2012
- “Environmental and Economic Effects from the Implementation of CO<sub>2</sub>-based Feebates on Automobiles in Europe”. Academic seminar at Institute of Transportation Studies, University of California, Berkeley, September 2011

- “Environmental and Economic Effects from the Implementation of CO<sub>2</sub>-based Feebates on Automobiles in Europe”. Academic seminar at Precourt Energy Efficiency Center, Stanford University, September 2011
- “What Have We Learned from EU Efforts to Reduce CO<sub>2</sub> Emissions in Transport? An Independent Perspective”. Invited talk at 13th Biennial Conference on Transportation and Climate Policy, organised by the University of California, Davis, Asilomar Conference Grounds, Pacific Grove, CA, August 2011
- “Oil/Mineral Profits and Bills in Less Industrialized Countries: Preliminary Analysis and Policy Implications”. Invited talk at Workshop ‘Improving policy-making for poverty reduction and food security’, organised by the United Nations Food and Agriculture Organisation, Rome, Italy, April 2008
- “Energy Efficiency Indicators for European Cars – A researcher’s viewpoint”. Invited talk at Workshop ‘New energy indicators for transport: The way forward’, organised by the International Energy Agency, Paris, France, January 2008

b) In Greece and Cyprus:

- “Impact Assessment of the National Energy and Climate Plan of Cyprus”. Presentations at two stakeholder events in Nicosia, November 2019.
- “Challenges for Decarbonizing the Cypriot Economy: The Uncertain Path to 2030 and 2050”. Invited talk at the CSP Climate Conference, The Cyprus Institute, Nicosia, 29 November – 1 December 2018
- “An Energy Efficiency Strategy for Cyprus up to 2030 and 2050”. Invited talk at the 6th International Conference on Renewable Energy Sources & Energy Efficiency, Nicosia, 1-2 November 2018
- “The Concept of the Circular Economy and the future of products & services in a resource- and carbon-constrained world”. Invited lecture to PhD students of the Climate-KIC of the European Institute of Technology, Limassol, July 2017.
- “The need for a Green Tax Reform in Cyprus”. Invited lecture at a seminar of trade union SEK on tax reforms in Cyprus, Nicosia, June 2017. Repeated in three regional seminars of the trade union in June 2018.
- “What Kind of Economic Development do We Need for a Transition to a Circular Economy?” Invited talk at National Circular Economy workshop, organised by the European Parliament’s office in Cyprus, Limassol, February 2017.
- “Can Cyprus Achieve the Transition to an Energy Efficient and Low-Carbon Economy?” Invited talk at National Workshop on the Covenant of Mayors for Climate & Energy, Nicosia, December 2016.
- “The concept of the circular economy and the future of the industry in a resource- and carbon-constrained world”. Invited talk at Workshop on Sustainability in the Defence Sector, organised by the Ministry of Defence of Cyprus, Nicosia, June 2016
- “Outlook of Energy Demand in Cyprus up to 2040 and Implications for National Energy and Environmental Policy”. Invited talk at the 5th International Conference on Renewable Energy Sources & Energy Efficiency, May 2016
- “The Tax System as the Major Financing Instrument for the Green Economy Transition”. Invited talk at the environmental seminar series of the National Broadcasting Corporation of Cyprus, March 2016
- “The Energy Union – An Opportunity for the Transition to a Low-Carbon Economy?” Invited presentation at workshop on the Energy Union organized by the European Commission Representation in Cyprus and the European Parliament Office in Cyprus, Nicosia, November 2015
- “Implementation of green economic reforms to address the costs of unsustainable development”. Invited lecture at National Sustainability Conference, Limassol, June 2015
- “Designing a national energy strategy: How and Why”. Invited lecture to senior undergraduate students, Department of Public and Business Administration, University of Cyprus, March 2015
- “The costs of cheap and unsustainable development – Some case studies from Cyprus”. Invited lecture at non-governmental organisation ‘Terra Cypria’, Limassol, November 2014
- “Analysing energy policy options in Cyprus with a suite of energy-economy models”. Keynote lecture at POEM 2013 – Conference on Power Options for the Eastern Mediterranean Region, Nicosia, October 2013

- “Challenges for Combating the Scarcity of Water Resources in Cyprus”. Invited talk at workshop ‘Climate Change Adaptation in Cyprus: Water Resources’, organised by the Environment Department of the Republic of Cyprus, December 2012
- “Economic Impacts of Climate Change in Cyprus”. Invited talk at European Marie Curie Conference, organized by the European Commission and the University of Cyprus, Nicosia, November 2012
- “Measuring the Costs of Unsustainable Development – Some Case Studies from Cyprus”. Keynote speech at the 10th annual meeting of the Working Group on Environmental Auditing of the European Organisation of Supreme Audit Institutions, Cyprus, November 2012
- “Water Pricing as a Climate Change Adaptation Measure”. Invited talk at Workshop on Water Utility Management and Pricing Policy, organized by the International Water Association Statistics and Economics Specialist Group and the Water Board of Limassol, April 2012
- “Natural and economic impacts of climate change in Cyprus and policy recommendations for adaptation measures”. Invited talk at the 5th meeting of the Working Group on Environmental Auditing of the European Organisation of Supreme Audit Institutions, Audit Office of the Republic of Cyprus, Nicosia, December 2011
- “Effect of climate variability and climate change on crop production and water resources in Cyprus”. Presentation at Agriculture and Climate Workshop, Agricultural Research Institute, Nicosia, April 2011
- “Econometric Analysis of Residential Water Demand in Cyprus – Implications for Water Pricing Policies”. Invited talk at stakeholders meeting of the European project MEDIWAT, Limassol, April 2011
- “Consumer Willingness to Pay for Water – Implications for Water Supply and Water Pricing Policies in Cyprus”. Guest speaker at conference organised by the European project ‘Technology Enabled Universal Access to Safe Water (TECHNEAU)’, Limassol, April 2010
- “Economic Impacts of Climate Change in Cyprus – A First Assessment”. Invited presentation at Workshop on Research Concerning Climate Change in Cyprus, organised by the Research Promotion Foundation and the Federation of Environmental Organisations of Cyprus, March 2009.
- “Are Standards Effective in Improving Automobile Fuel Economy?”. Academic seminar at Dept. of Economics, University of Cyprus, October 2006.
- “Engineering-Economic Simulations of Sustainable Transport Policies”. Keynote speech at the 8th Highway and Urban Environment Symposium organised by the Chalmers University of Technology and the Cyprus Institute, Nicosia, Cyprus, June 2006
- “Engineering-Economic Modelling of Energy Systems – Application in the Transportation Sector”. Academic seminar at Dept. of Civil and Environmental Engineering, University of Cyprus, September 2005
- “European Automobile CO<sub>2</sub> Emissions: from Forecasts to Reality”. Invited talk at Workshop on Climate Change and Energy Pathways for the Mediterranean, organised by the Cyprus Institute and the Alliance for Global Sustainability, Nicosia, Cyprus, June 2005
- “Engineering-Economic Modelling of Energy Systems – Application in the Transportation Sector”. Academic seminar at Dept. of Mechanical Engineering, University of Patras, Greece, April 2005 – in Greek

### **Professional Activities**

- Associate Editor of Journal *Energy Economics* (Elsevier), 2010–
- Chairman of the Organising Committee of the 20th Global Conference on Environmental Taxation, Limassol, Cyprus, 25-27 September 2019
- Member of the Interdisciplinary Project Panel of the Research Foundation Flanders, (FWO), Belgium, 2019–
- Board Member of ‘Green Budget Europe’ – a Brussels-based expert platform on environmental fiscal reforms, 2016–
- Scientific Coordinator of Green Tax Committee set up by the Ministry of Finance of Cyprus, 2016–
- Evaluator of research proposals for KU Leuven, Belgium, 2019

- Invited guest editor of virtual special issue ‘European Energy Policy at a Crossroads’ by the international journal *Energies*, 2019
- Organiser of policy conference ‘Investing for a Greener Future in Cyprus’ with the European Commission Representation in Cyprus, Nicosia, June 2016
- National Representative of Cyprus for the theme ‘Climate Action, Environment, Resource Efficiency and Raw Materials’ of the EU’s Horizon 2020 programme, 2014–2016
- Member of COST Domain Committee on Transport and Urban Development, 2013–2014
- Member of Standing Committee for Life, Earth and Environmental Sciences of the European Science Foundation, 2011–2012
- Member of Scientific Programme Committee of summer school entitled ‘Water: Unite and Divide – Interdisciplinary Approaches for a Sustainable Future’, organized by the European Science Foundation, Stresa, Italy, August 2012
- Organiser of workshop ‘The New EU Energy and Climate Policy until 2030 and Its Implications for Cyprus’ with the European Commission Representation in Cyprus, Limassol, February 2015
- Organiser of workshop and policy conference ‘Environmental Tax Reforms at Times of Economic Crisis’ with the European Commission Representation in Cyprus and ‘Green Budget Europe’, Nicosia, June 2014
- Coordinator of Special Committee and Member of the Electoral Body for the selection of a Lecturer or Assistant Professor in the field of ‘Environmental Economics’, Department of Environmental Engineering, Technical University of Crete, Greece, 2013
- Evaluator of proposals submitted to the European Commission’s Marie Curie Programme, 2013
- Evaluator of research proposals for the Flemish Research Foundation (FWO), 2013 & 2014
- Evaluator of trans-disciplinary proposals submitted for funding to the European COST programme, 2013
- Reviewer of Chapter 8 (‘Transport’) of the First Order and Second Order Drafts of the 5th Assessment Report of Working Group III of the Intergovernmental Panel on Climate Change, 2012–2013
- Evaluator of proposals for the European Science Foundation (Call for exploratory workshops 2012)
- Evaluator of proposals for the Italian Ministry of Education, University and Research (‘Futuro in ricerca 2012’ programme – evaluation managed by the European Science Foundation)
- Member of Evaluation Committees of the Cyprus Council for the Recognition of Higher Education Qualifications (KYSATS), 2010–
- Member of Special Technical Committee of the Cyprus Ministry of Education for the evaluation of a new B.A. programme of a private college of Cyprus, 2011
- Advisor to the government of Cyprus carrying out national energy forecasts for compliance with European Union legislation, 2010–
- National representative of Cyprus in working groups of the European Union’s Economic and Financial Committee and Economic Policy Committee on the economic dimension of energy and climate change, 2007–2009
- Delegate of Cyprus in the COST 355 action “Changing behaviour towards a more sustainable transport system”, sponsored by the European Commission, the European Science Foundation and 34 European countries, 2006–2008
- Evaluator of project proposals for “Intelligent Energy - Europe” programme of the European Commission (DG TREN), in years 2005 and 2006
- Editor of working papers and of the quarterly newsletter of the Economics Research Centre of the University of Cyprus, 2005–2008
- Professional seminars on the environmental impact from energy production and use organised by engineering associations in Greece and Cyprus, 2003–2005
- Referee: *Climate Policy, Current Opinion in Environmental Sustainability, Energies, Energy Economics, Energy Journal, Energy Policy, Environmental and Resource Economics, International Journal of Sustainable Transportation, Journal of Asian Economics, Journal of Environmental Management, Journal of the Air and Waste Management Association, Transport Policy, Transportation Research Part A, Transportation Research Part D, Water Resources Management*



- Member: International Association for Energy Economics, European Association of Environmental and Resource Economists (country representative), Green Budget Europe, Technical Chamber of Greece

**Participation in International Conferences / Workshops  
(with oral presentations by myself – presentations by co-authors not included)**

- 19th Global Conference on Environmental Taxation, Madrid, Spain, 28-30 September 2018
- 15th European conference of the International Association of Energy Economics, Vienna, Austria, 3-7 September 2017
- 17th Global Conference on Environmental Taxation, Groningen, Netherlands, 21-23 September 2016
- Florence School of Regulation Climate Conference, Florence, Italy, 22-23 October 2015
- 21st Annual Conference of the European Association of Environmental and Resource Economists, Helsinki, Finland, 24–27 June 2015
  - Organiser of a policy session on ‘Reducing the Carbon Footprint of Road Transport: Economics versus Policy?’
- 3rd Annual Conference of the Green Growth Knowledge Platform, Venice, Italy, 30-31 January 2015
- 5th World Congress of Environmental and Resource Economists, Istanbul, Turkey, 29 June – 2 July 2014
- 20th Annual Conference of the European Association of Environmental and Resource Economists, Toulouse, France, 26–29 June 2013
- 19th Annual Conference of the European Association of Environmental and Resource Economists, Prague, Czech Republic, 27–30 June 2012
  - Session chair in session ‘Abatement costs II’
- 18th Annual Conference of the European Association of Environmental and Resource Economists, Rome, Italy, 29 June – 2 July 2011
- 34th International Conference of the International Association for Energy Economics, Stockholm, Sweden, 19–23 June 2011
  - Session chair in session ‘Transport demand modelling’
- 4th World Congress of Environmental and Resource Economists, Montreal, Canada, 28 June – 2 July 2010
- International Energy Workshop 2010, organised by the Royal Institute of Technology (KTH), the Electric Power Research Institute (EPRI), Foundation Eni Enrico Mattei (FEEM) and International Energy Agency (IEA), Stockholm, Sweden, 21–23 June 2010
- 17th Annual Conference of the European Association of Environmental and Resource Economists, Amsterdam, Netherlands, 24–28 June 2009
- 9th Hellenic Conference on Renewable Energy Sources, Paphos, Cyprus, 26–28 March 2009
- 16th Annual Conference of the European Association of Environmental and Resource Economists, Gothenburg, Sweden, 25–29 June 2008
- 15th Annual Conference of the European Association of Environmental and Resource Economists, Thessaloniki, Greece, 27–30 June 2007
- 2007 summer study of the European Council for an Energy Efficient Economy, La Colle sur Loup, France, 4-9 June 2007
- 6th Academic Conference of the British Institute for Energy Economics, Oxford, UK, 20-21 September 2006
- International Energy Workshop 2006, organized by the University of Cape Town, Stanford University, the International Energy Agency and the International Institute for Applied Systems Analysis, Cape Town, South Africa, 27-29 June 2006

- 8th Highway and Urban Environment Symposium, organised by the Chalmers University of Technology and the Cyprus Institute, Nicosia, Cyprus, 12-14 June 2006
- 29th International Conference of the International Association for Energy Economics, Potsdam, Germany, 7-10 June 2006
- 9th International Conference on Environmental Science and Technology, organised by the Global Network on Environmental Science and Technology, Rhodes Island, Greece, 1-3 September 2005
- Workshop on Climate Change and Energy Pathways for the Mediterranean, organised by the Cyprus Institute and the Alliance for Global Sustainability, Nicosia, Cyprus, 21-22 June 2005
- 1st International Scientific Symposium 'Environment and Transport', Avignon, France, 19-20 June 2003 (poster presentation)
- 15th International Symposium of the European Conference of Ministers of Transport, Thessaloniki, Greece 7-9 June 2000
- 7th CRC On-Road Vehicle Emissions Workshop, organised by the U.S. Coordinating Research Council, San Diego, California, 9-11 April 1997
- XXVI FISITA 96 Congress (International Federation of Automotive Engineering Societies) + 1st FISITA Youth Congress, Prague, Czech Republic, 17-21 June 1996
- Third International Conference 'Air Pollution 95', organised by the Aristotle University of Thessaloniki and Wessex Institute of Technology, Porto Carras, Greece, 26-29 September 1995
- The SAVE (Specific Actions for Vigorous Energy Efficiency) Programme - Overview and Future, organised by the European Commission (DG XVII) and ENEA, Florence, Italy, 26-28 October 1994
- CORINAIR/UN-ECE Workshop on Emission Inventories and Emission Projections, Regensburg, Germany, 30 May - 2 June 1994
- International Conference "The Emission Inventory: Perception and Reality", co-sponsored by the California Air Resources Board, the South Coast Air Quality Management District and the Air & Waste Management Association, Pasadena, California, 18-20 October 1993
- 3rd Conference on Environmental Science and Technology, University of the Aegean, Lesvos, Greece, 6-9 September 1993
- 2nd EUROTRAC/GENEMIS Workshop, organised by the Institute for Energy Economics and the Rational Use of Energy, University of Stuttgart, Germany, 7-8 October 1992

### **Ongoing Research**

- Evaluation of green economic recovery measures in the aftermath of the COVID-19 pandemic, with the aid of energy and economic models and multi-criteria assessment (with E. Giannakis, C. Taliotis, N. Fylaktos and M. Karmellos)
- Estimating the economy-wide impacts of energy policies (with E. Giannakis, C. Taliotis, N. Fylaktos and M. Karmellos)
- Engineering-economic assessment of sustainable urban energy systems (with I. Ziogou)
- Prioritising climate policy measures with the aid of greenhouse gas emission abatement cost curves and multi-objective optimisation (with C. Sotiriou)
- Engineering-economic optimisation of the operation of thermal power plants under environmental constraints (with C. Paphitis)

**Citations of Published Research Work** (as of 22 June 2020)

	No. of citations	h-index
Scopus (excl. self-citations)	1077	18
Google Scholar	2310	24
Web of Science (excl. self-citations)	931	18

**Languages**

Greek (mother tongue); English, German (fluent in both)

## Publications

### I. Books

- V1. Zachariadis T., Milne J.E., Andersen M.S. and Ashiabor H. (Editors), *Economic Instruments for a Low-carbon Future*. Critical Issues in Environmental Taxation XXII, Edward Elgar Publishing, 2020 (forthcoming). ISBN 9781839109904.
- V2. Zachariadis T. and Hadjikyriakou C., *Social Costs and Benefits of Renewable Electricity Generation in Cyprus*. SpringerNature, 2016. doi: 10.1007/978-3-319-31535-5.
- V3. Zachariadis T., *Climate Change in Cyprus – Review of the Impacts and Outline of an Adaptation Strategy*. SpringerNature, 2016. doi: 10.1007/978-3-319-29688-3.
- V4. Zachariadis T. (Editor), *Cars and Carbon: Automobiles and European Climate Policy in a Global Context*, Springer Science+Business Media, 2012. doi: 10.1007/978-94-007-2123-4, <http://www.springer.com/environment/global+change+-+climate+change/book/978-94-007-2122-7>

### II. Book Chapters

- B1. Sotiriou C. and Zachariadis T., The Importance of a Carbon Tax for Timely and Cost-effective Decarbonisation – A Case Study from Cyprus. Forthcoming in: *Economic Instruments for a Low-carbon Future*. Critical Issues in Environmental Taxation XXII, Edward Elgar Publishing, 2020. ISBN 9781839109904.
- B2. Zachariadis T., Legislation or Economic Instruments for a Successful Environmental Policy? Reflections after the ‘Dieselgate’. Forthcoming in: *Environmental Policy – An Economic Perspective*, T. Walker, N. Sprung and S. Goubran (Eds.), Wiley, 2020.
- B3. Zachariadis T., A Proposed Green Tax Reform for Cyprus and its Co-Benefits for Urban Sustainability In: *Critical Issues in Environmental Taxation*, Edward Elgar, 2019.
- B4. Zachariadis T., Introduction. In: *Cars and Carbon: Automobiles and European Climate Policy in a Global Context*, T. Zachariadis (ed.), Springer Science+Business Media, 2012.
- B5. Zachariadis T., European Automobile CO<sub>2</sub> Emissions: from Forecasts to Reality. In: *Climate Change and Energy Pathways for the Mediterranean*, E. Moniz (ed.), Springer, Alliance for Global Sustainability Bookseries, Vol. 1002, 2007
- B6. Samaras Z., Zachariadis T., Modelling the Emissions of Road Vehicles at Macroscale and Microscale. Invited review paper in *Air Pollution Emissions Inventory*, H. Power and J.M. Baldasano (eds.), pp. 71-133, Computational Mechanics Publications, 1998

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- J1. Taliotis C., Giannakis E., Karmellos M., Fylaktos N. and Zachariadis T., Estimating the economy-wide impacts of energy policies in Cyprus. *Energy Strategy Reviews* 29 (2020) 100495.
- J2. Sotiriou C. and Zachariadis T., Optimal Timing of Greenhouse Gas Emissions Abatement in Europe. *Energies* 12 (2019), 1872; doi:10.3390/en12101872.
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- J5. Zachariadis T., After 'dieselgate': Regulations or economic incentives for a successful environmental policy? *Atmospheric Environment* 138 (2016) 1–3.
- J6. Zachariadis T. and Hadjinicolaou P., The Effect of Climate Change on Electricity Needs – A Case Study from Mediterranean Europe. *Energy* 76 (2014) 899–910.
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- J10. Adamou A., Clerides S. and Zachariadis T., Trade-offs in CO<sub>2</sub>-oriented vehicle tax reforms: A case study of Greece. *Transportation Research Part D* 17 (2012) 451–456.
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- J17. Polycarpou A. and Zachariadis T., An Econometric Analysis of Residential Water Demand in Cyprus. *Water Resources Management* 27 (2013) 309–317.
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- J20. Zachariadis T., Michopoulos A., Vougiouklakis Y., Piripitsi K., Ellinopoulos C. and Struss B., Determination of Cost-Effective Energy Efficiency Measures in Buildings with the Aid of Multiple Indices. *Energies* 11 (2018), 191; doi:10.3390/en11010191
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  - MiljöAktuellt, Newsletter of the Swedish Environmental Protection Agency, No. 4, 24 May 2006
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- J33. Michopoulos A., Voulgari V., Tsikaloudaki A., Zachariadis T. Evaluation of ground source heat pump systems for residential buildings in warm Mediterranean regions: The example of Cyprus. *Energy Efficiency* 9 (2016) 1421–1436.
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- J38. Zachariadis T., Samaras Z., Validation of Road Transport Statistics through Energy Efficiency Calculations. *Energy* 26 (2001) 467-491
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15. Zachariadis T., Environmental Fiscal Reforms in Europe and their Prospects for Cyprus. Edited Special Section of *Cyprus Economic Policy Review*, Vol. 8, No. 2, pp. 109-143 (2014).
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17. Zachariadis T., Climate Change in Cyprus: Impacts and Adaptation Policies. *Cyprus Economic Policy Review*, Vol. 6, No. 1, pp. 21-37 (2012).
18. Zachariadis T., Beyond Business-as-Usual: Achieving a Paradigm Shift towards Low-Carbon Transport. *European Financial Review*, June-July 2012, pp. 27-30.
19. Zoumidis C. and Zachariadis T., Irrigation Water Pricing in Southern Europe and Cyprus: The effects of the EU Common Agricultural Policy and the Water Framework Directive. *Cyprus Economic Policy Review*, Vol. 3, No. 1, pp. 99-122 (2009).

- I10. Zachariadis T., Road to Nowhere: An Assessment of Social Costs from the Use of Cars in Cypriot Cities. *Cyprus Economic Policy Review*, Vol. 2, No. 2, pp. 51–80 (2008).
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- M1. Zachariadis T., Ideas for a Green Re-start of the Economy of Cyprus, April 2020 – in Greek
- M2. Zachariadis T., ‘Don't Let a Crisis Be Wasted – Proposal for a Green Tax Reform in Cyprus’, April 2015 – in Greek, with English summary.
- M3. Zachariadis T., ‘An outline of the expected climate change impacts in Cyprus and adaptation policies’, March 2012 – in Greek.
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- M5. Zachariadis T., ‘Pricing residential water to account for scarcity in Cyprus’, May 2010 – in Greek.
- M6. Zachariadis T., ‘Tackling the social costs from the use of cars’, January 2009 – in Greek.
- M7. Zachariadis T., ‘European climate policy and the position of Cyprus’, October 2008 – in Greek.
- M8. Zachariadis T., ‘Fuel taxation and social policy’, June 2008 – in Greek.
- M9. Zachariadis T., ‘Subsidies for energy efficiency improvements: theory and practice’, May 2007 – in Greek.
- M10. Zachariadis T., ‘Towards a new taxation system for motor vehicles’, November 2006 – in Greek.
- M11. Zachariadis T., ‘Economic and energy aspects of motor vehicle taxation’, March 2006 – in Greek.

**VI. Working papers in energy and environmental economics**

- E1. Kitsios K., Kakouris M. and Zachariadis T., Energy Efficiency Trends and Policies in Cyprus. Report for Odyssee-Mure 2012 project, Nicosia, September 2015.
- E2. Zachariadis T., The Effect of Energy Efficiency Policies on the Medium-Term Energy Outlook of Cyprus. Economic Policy Paper 03-14, Economics Research Centre, University of Cyprus, June 2014.
- E3. Zoumidis C. and Th. Zachariadis, Development and application of an agro-economic model for optimal allocation of water resources for agriculture in Cyprus. Economic Policy Paper 06-13, Economics Research Centre, University of Cyprus, October 2013.
- E4. Pashardes P., N. Pashourtidou and Th. Zachariadis, Estimating Welfare Aspects of Changes in Energy Prices from Preference Heterogeneity. Working Paper 07-2013, Department of Economics, University of Cyprus. Also appearing as Economic Analysis Paper 02-13, Economics Research Centre, University of Cyprus, March 2013.
- E5. Ketteni E., Mamuneas T. and Zachariadis T., The Effect of EU Energy and Climate Policies on the Production Sectors of the Economy of Cyprus – Final Results. Economic Policy Paper 01-13, Economics Research Centre, University of Cyprus, February 2013.
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- E7. Zoumidis C., Bruggeman A. and Zachariadis T., Global versus local water footprint assessment: the case of Cyprus. ‘Value of Water Research Report Series’, No. 60, pp. 7-27, UNESCO-IHE Institute for Water



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- E16. Zachariadis T., Long-term forecast of electricity consumption in Cyprus: The impact of climate change. Economic Policy Paper 04-08, Economics Research Centre, University of Cyprus, October 2008 – in Greek
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- C33. Toll I., Moussiopoulos N., Sahm P., Samaras Z., Zachariadis T., Aslanoglou M., A New Emissions Inventory for Athens and Its Use to Improve Air Quality Predictions. In *Air Pollution III*, Vol. 2, H. Power, N. Moussiopoulos and C.A. Brebbia (ed.), pp. 309-319, Computational Mechanics Publications, 1995
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