

Chryso Sotiriou

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Date of birth: 23/12/1989

ACADEMIC QUALIFICATIONS

Jan. 2018 – June 2021

Cyprus University of Technology, Limassol (Cyprus)

Department of Chemical Engineering

PhD in Environmental Economics and Policy, Outright pass

PhD Thesis "Techno-Economic analysis of Energy and Environmental Policies: Supporting the Formulation of a Cost-Effective Decarbonisation Strategy in Cyprus"

Jan. 2016 – Dec. 2017

Cyprus University of Technology, Limassol (Cyprus)

Department of Chemical Engineering

MSc in Energy Resources Management, Degree: 8,76 (Excellent)

MSc Thesis "Evaluation of the Cost-Effectiveness of Possible Climate Change Mitigation Policies and Measures in Cyprus"

2007 – 2014

Aristotle University of Thessaloniki, Thessaloniki (Greece)

School of Physics

Bachelor of Physics, Degree: 7,58 (Very good)

WORK EXPERIENCE

March 2022 – Present

ideopsis ltd (Cyprus)

Energy Policy & Climate Expert

Jul. 2021 – March 2022

Cyprus Employers & Industrialists Federation (OEB)

Energy & Environment Officer

Main duties:

- "Fit for 55" Package review and analysis
- Preparation of OEB Position Paper and OEB position in Business Europe for "Fit for 55" package
- Technical and scientific assistance to Cyprus Association of Renewable Energy Enterprises on the transposition into national legislation of RED II
- Speaker in Energy Managers training (SMEmPower Efficiency Horizon 2020 Project) regarding the challenges of SMEs to comply with EED

Sep. 2021 – Dec. 2021

Cyprus University of Technology, Limassol (Cyprus)

Department of Chemical Engineering

Special Scientist – Teaching undergraduate course "CEN 303 Economics for Engineers & Operations Research"

Main aspects of course:

- Basic principles of economics
- Environmental economics (externalities)
- Feasibility studies, techno-economic assessment, logistics etc.

Feb. 2017 – Nov. 2021

Cyprus University of Technology, Limassol (Cyprus)

Department of Chemical Engineering

Research Associate on the topic of Energy and Environmental Policy

Main duties associated with:

- Development of the National Energy and Climate Plan for 2030 in compliance with Regulation 2018/1999.
- Impact assessment of the National Energy and Climate Plan for 2030.

- Provision of technical and scientific support to governmental official and other stakeholders regarding associated national measures on energy efficiency, renewables, mobility and transport, light industry, and agriculture.

Jan. 2018 – May 2020

Cyprus University of Technology, Limassol (Cyprus)

Teaching Assistant – Courses (undergraduate):

CEN 102 Physics I
CEN 303 Economics - Principles of Business Administration
MGT331 Energy Policy and Environment
EST104 Sustainable Management of Environmental Resources
EST331 Environmental Economics and Policy

May 2016 – July 2017

Archimedes – Interactive Science Museum, Limassol (Cyprus)

Science Communicator

Oct. 2010 – Jan. 2011

Ministry of Education and Culture of Cyprus (Internship) (Cyprus)

Physics Teacher

RESEARCH & CONSULTING EXPERIENCE

Jan 2019 – Dec. 2020

“Development of the OSEMOSYS model to account for atmospheric pollutants and GHG emissions” funded by European Commission’s Structural Reform Support Service | Research Associate

Jan. 2019 – Dec. 2020

“Impact assessment of the Cyprus Integrated National Energy and Climate Plan” funded by European Commission’s Structural Reform Support Service | Research Associate

July 2020 – Aug. 2020

Assessment of green restart of hotel industry in Cyprus after lockdown due to COVID19 (project Hotels4Climate) | Consulting Services

May 2018 – Nov. 2018

“Technical-economic analysis of environmental measures in Cypriot Industry” European Programme Business4Climate funded by RIS Climate-KIC | Research Associate

July 2017 – Dec. 2017

“Evaluation of the effectiveness of possible climate change mitigation policies and measures” funded by European Commission’s Structural Reform Support Service | Research Associate

PUBLICATIONS

SCIENTIFIC JOURNALS

Sotiriou, C., and Zachariadis, T. (2021), A Multi-Objective Optimisation Approach to Explore Decarbonisation Pathways in a Dynamic Policy Context, *Journal of Cleaner Production*, Volume 319, 128623. <https://doi.org/10.1016/j.jclepro.2021.128623>

Sotiriou, C., and Zachariadis, T. (2019), Optimal Timing of Greenhouse Gas Emissions Abatement in Europe, *Energies*, Volume 12, Issue 10, 1872. <https://doi.org/10.3390/en12101872>

Sotiriou, C., Michopoulos, A., and Zachariadis, T. (2019), On the Cost-Effectiveness of National Economy-Wide Greenhouse Gas Emissions Abatement Measures, *Energy Policy*, Volume 128, Pages 519-529, May 2019. <https://doi.org/10.1016/j.enpol.2019.01.028>

BOOK CHAPTERS

Sotiriou, C., and Zachariadis, T. (2020), The Importance of a Carbon Tax for Timely and Cost-Effective Decarbonisation – A Case Study from Cyprus, *Economic Instruments for a Low-carbon Future*, Chapter 11, Pages 141–156, Edward Elgar Publishing. <https://doi.org/10.4337/9781839109911.00024>

REPORTS

Zachariadis T., Michopoulos A., Sotiriou C. (2018), Evaluation of the Effectiveness of Possible Climate Change Mitigation Policies and Measures. Final Report submitted to the European Commission's Structural Reform Support Service under Service Contract No. SRSS/C2017/024, Limassol, May.

WORKING PAPERS

Sotiriou, C., and Zachariadis, T. (2021), A Multi-Objective Optimisation Approach to Explore Decarbonisation Pathways in a Dynamic Policy Context, United States Association of Energy Economics Working Paper No. 21-485, Available at SSRN: <https://ssrn.com/abstract=3766455>

Sotiriou, C., and Zachariadis, T. (2019), Optimal Timing of Greenhouse Gas Emissions Abatement in Europe, *Economic Policy Papers*, Pages 02-19, Economics Research Centre, University of Cyprus, May. https://www.ucy.ac.cy/erc/documents/DOP_02-19.pdf

Sotiriou, C., Michopoulos, A., and Zachariadis, T. (2018), On the Cost-Effectiveness of National Economy-Wide Greenhouse Gas Emissions Abatement Measures, *Economic Policy Papers*, Pages 05-18, Economics Research Centre, University of Cyprus, November. http://ucy.ac.cy/erc/documents/DOP_05-18.pdf

PRESENTER/SPEAKER/TRAINER

CONFERENCES

Sotiriou C., Zachariadis T., A multi-objective Optimisation Approach to Explore Decarbonisation Pathways in a Dynamic Policy Context, **39th International Energy Workshop (IEW)**, virtual 14-17 June 2021

Sotiriou C., Zachariadis T., Timely and cost-effective decarbonisation – A case study from Cyprus, **1st International Association for Energy Economics (IAEE) Online Conference**, 7-9 June 2021

Sotiriou C., *Long-Term Climate Change: Optimal Timing of Greenhouse Gas Emissions Abatement*, **Cyprus Rectors Conference-1st Doctoral Colloquium**, University of Nicosia, 7 December 2019

Sotiriou C., Zachariadis T., *The importance of a carbon tax on timely and cost-effective decarbonisation – A case study from Cyprus*, **20th Global Conference on Environmental Taxation**, Limassol, Cyprus, 25-28 September 2019

Sotiriou C., Michopoulos A., Zachariadis T., *Understanding the optimal timing and the social benefits of energy efficiency measures for designing an effective climate policy*, **European Council for an Energy Efficient Economy (ECEEE) 2019 Summer Study on Energy Efficiency**, Presqu'île de Giens, Hyeres, France, 3-8 June 2019

Sotiriou C., Michopoulos A., Zachariadis T., *Evaluation of the cost-effectiveness of climate change mitigation measures in Cyprus*, **6th International Conference on Renewable Energy Sources & Energy Efficiency**, Nicosia, Cyprus, 1-2 November 2018

Sotiriou C., Michopoulos A., Zachariadis T., *Development of Marginal Greenhouse Gas Emissions Abatement Cost Curves of Cyprus*, **41st International Conference of the International Association for Energy Economics (IAEE)**, Groningen, Netherlands, 10-13 June 2018

WORKSHOPS

Demand Side Assessments: Marginal Abatement Cost Curves Methodology, **Joint International Centre for Theoretical Physics (ICTP) - International Atomic Energy Agency (IAEA) College on the Evaluation of Cost-Effective Energy Options as Nationally Determined Contributions for Climate Change Mitigation**, online, 15-19 November 2021

Marginal Abatement Cost Curves: Demonstration and Exercise, Virtual Regional Training Course on Assessing Demand-side Contributions to Energy and Climate Strategies by International Atomic Energy Agency (IAEA), 2-13 November 2020

Inventory of Greenhouse Gas Emissions by Companies – Understanding the Emissions Inventory, Business4Climate Initiative, OEB, online, 8 July 2020

Business4Climate Workshop: European Project related to the Greenhouse Gas Emissions Reduction in Businesses, Journey 2019 Program by EIT Climate-KIC, Limassol, Cyprus, 4 July 2019

Capacity Building Workshops: For the enterprises that signed the Business4Climate Voluntary Commitment, Business4Climate Project by EIT Climate-KIC, OEB, CUT, DENV, Cyprus, 23 November, 17 & 20 December 2018

PERSONAL SKILLS

Language

Native: Greek

Very good command: English (IELTS Band 7.00)

Computing

- Excellent knowledge of Operating Systems **Windows**
- **ECDL** Certificate
- Basic knowledge of **SPSS** Statistics Software
- Basic Programming Skills: **MATLAB**
- Knowledge of Geographic Information System (**GIS**)
- Experience of Model for Analysis of Energy Demand (**MAED**)
- Experience of Model for Energy Supply Strategy Alternatives and their General Environmental Impact (**MESSAGE**)
- Very good user of General Algebraic Modelling System (**GAMS**)

Planning/Organising

- **Chairperson** of Cultural Association of Ormidia "TO RODI"
- **Council member** of Cyprus Environmental Movement
- **Member** of Larnaca Environmental Movement
- Contribution to the **organisation** and **execution** of summer school Journey 2019 by EIT Climate-KIC, Cyprus
- Contribution to the **organisation** of 20th Global Conference on Environmental Taxation, Cyprus