

BRIEF CURRICULUM VITAE

**Prof. Andreas Poulikkas**, MPhil, PhD, DTech, FIET  
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Last updated: May 6, 2025

Professor Andreas Poulikkas holds a Bachelor of Engineering (B.Eng.) degree in mechanical engineering, a Master of Philosophy (M.Phil.) degree in nuclear safety and turbomachinery, a Doctor of Philosophy (Ph.D.) degree in numerical analysis and a Doctor of Technology (D.Tech.) higher doctorate degree in energy policy and energy systems optimization (with emphasis on renewable energy technologies) from Loughborough University, U.K. He is a Fellow of the Institution of Engineering and Technology (FIET).

He is a Professor of Energy Systems at the School of Engineering, Frederick University and he was for several years the Chairman of the Cyprus Energy Regulatory Authority (CERA) and the Chairman of the Cyprus Energy Strategy Council (both appointments by the President of Cyprus). In his professional career he has worked for academic institutions and for the industry, including as a Visiting Faculty member at Harvard University, USA, as a Professor of Power Systems and Chair of the Department of Electrical Engineering at the Cyprus University of Technology, as a Board Member of the Natural Gas Public Company (appointment by the Cyprus Government) and as an Assistant Manager at the Electricity Authority of Cyprus (founder and director of the Research and Development Department).

Professor Poulikkas has over 25 years of experience on energy strategic issues and research and development projects related to the optimum analysis of power generation technologies with emphasis on sustainable technologies and on energy policy. He is included in the World's Top 2% Scientists and the World's Top 100000 Researchers Lists, both published by Stanford University. Professor Poulikkas is the Associate Editor of journals *Discover Energy* (Springer Nature) and *Renewable and Sustainable Energy Reviews* (Elsevier), member of the Editorial Board of the journal *Sustainable Energy Technologies and Assessments* and the author of various peer-reviewed publications in scientific journals, book chapters and conference proceedings. He is the author of the following books:

- *Renewable Energy: Economics, Emerging Technologies and Global Practices* (ISBN: 978-1-62618-231-8)
- *Introduction to Power Generation Technologies* (ISBN: 978-1-60876-472-3)
- *Sustainable Energy Policymaking for Cyprus* (ISBN: 978-9963-7355-6-3)
- *Energy Union and Strategy for Cyprus* (ISBN: 978-9963-7355-7-0)
- *Sustainable Energy Development for Cyprus* (ISBN: 978-9963-7355-3-2)
- *The Cyprus Energy Future* (ISBN: 978-9963-9599-4-5)
- *Views from the 90s* (ISBN: 978-9963-7355-9-4)
- *40 Questions About Energy* (ISBN: 978-9925-7710-2-8)
- *Fundamentals of Energy Regulation* (ISBN: 978-9963-7355-8-7)
- *Long-term Sustainable Energy Strategy: Cyprus's Energy Transition to Hydrogen Economy* (ISBN: 978-9925-7710-0-4)

He is, also, a referee for various international journals, serves as a reviewer for the evaluation of research proposals related to the field of energy and a coordinator of various funded research projects. He is a member of various national, European and international committees related to energy policy issues. He is the developer of various optimization algorithms and software for the techno-economic optimization and environmental analysis of power generation technologies, desalination technologies and renewable energy systems including energy storage.

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Last updated: May 6, 2025

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## Personal information

Born in Nicosia-Cyprus, Nov 1967; Cypriot citizen.  
Marital status: married with a daughter.  
Languages: Greek (native), English.  
Completed military service (July 1985–Sep 1987).

## Current positions

2025-present *Professor of Energy Systems*, School of Engineering, Frederick University of Technology • Researching, teaching

## Appointments held

2015-2024 *Chairman*, Cyprus Energy Regulatory Authority • Appointment by the President of Cyprus

2014-2018 *Chairman*, Cyprus Energy Strategy Council • Appointment by the President of Cyprus

2014-2015 *Professor of Power Systems and Department Chair*, Department of Electrical Engineering, Computer Engineering and Informatics, Cyprus University of Technology • Overall responsibility for the administration of the department and staff appraisal, teaching, researching

2014-2015 *Member of the Board of Directors*, Natural Gas Public Company (DEFA), Cyprus • Appointment by the Cyprus Council of Ministers

2012-2014 *Visiting Associate Professor*, Department of Mechanical Engineering, American University of Sharjah, UAE • Teaching, researching

2008-2012 *Visiting Associate Professor*, Department of Electrical Engineering, University of Cyprus • Teaching

2005-2009 *Visiting Associate Professor*, Harvard School of Public Health, Harvard University, USA • Teaching

2004-2014 *Assistant Manager*, Electricity Authority of Cyprus • Founder and Director of the Research and Development Department

2000-2007 *Visiting Associate Professor*, Department of Mechanical Engineering, Frederick University, Cyprus • Teaching

2000-2004 *Shift Charge Engineer*, Electricity Authority of Cyprus • Overall responsibility for the safe and economic operation of Vasilikos power station

1997-2000 *Assistant Shift Charge Engineer*, Electricity Authority of Cyprus • Responsibility for the safe and economic operation of Dekeleia power station

1995-1997 *Assistant Mechanical Engineer*, Electricity Authority of Cyprus

1993-1995 *Head of the Department*, Department of Mechanical Engineering, Frederick Institute of Technology, Cyprus • Overall responsibility for the administration of the department and staff appraisal, lecturing and researching

1991-1992 *Assistant Lecturer*, Department of Mechanical Engineering, Loughborough University, UK • Lecturing and responsible for laboratories supervision

## Education

2013 **DTech** (Doctor of Technology) in Mechanical Engineering, Loughborough University, UK • The Higher Doctorate Degree, DTech, have been conferred in recognition of published work constituting a sustained, substantial and original contribution to knowledge. The Higher Doctorate Degree,

DTech, was awarded solely on the basis of published work of high merit in the field of research of energy policy and optimization of energy systems (with emphasis on renewable energy technologies) in which Dr. Andreas Poulikkas is engaged

- 1995-1998 **PhD** (Doctor of Philosophy) in Mechanical Engineering, Loughborough University, UK • Thesis title: *The Method of Fundamental Solutions for the solution of elliptic boundary value problems*, Supervisors: Prof. J. Ascoug, Loughborough University, Prof. A. Karageorghis and Prof. G. Georgiou, University of Cyprus, External examiners: Prof. G. Fairweather, Colorado School of Mines and Prof. J. Mason, Huddersfield University
- 1991-1992 **MPhil** (Master of Philosophy) in Mechanical Engineering, Loughborough University of Technology, UK • Thesis title: *Two-phase flow and cavitation in centrifugal pumps*, Supervisor: R.K. Turton, Loughborough University of Technology, External examiner: T. Salisbury, Girdlestone Pumps Ltd
- 1989-1991 **BEng Hons** (Bachelor of Engineering ) in Mechanical Engineering, Loughborough University of Technology, UK • Final year project title: *Disk friction study*, Supervisor: R.K. Turton, Loughborough University of Technology

## Professional affiliations

- **FIET** (Fellow of the Institution of Engineering and Technology)
- Member of the Scientific Technical Chamber of Cyprus in Mechanical Engineering (ETEK)

## Areas of specialization

### ENERGY SYSTEMS

Optimization • Renewable energy sources • Distributed generation • Storage and hydrogen • Power plants • Carbon capture and storage • Computational energy economics • Power economics • Energy Policy • Desalination economics • Emissions inventory

### NUMERICAL SOLUTION OF PARTIAL DIFFERENTIAL EQUATIONS

Problems with boundary singularities • Problems with free surface • Method of Fundamental Solutions

### CENTRIFUGAL PUMPS

Hydraulic design • Two phase flow pumping • Cavitation • Disc friction losses • Nuclear power safety • Loss of coolant accident

## Software development

- 2000-2022 **IPP Algorithm v3.0**, Optimization software for power technology selection in competitive electricity markets (including renewables and storage), ©2000-2022.
- 2002-2004 **CAPSE algorithm**, Optimization software for the short term calculation of electricity unit cost from power systems, ©2002-2004.
- 1999-2004 **CAROC algorithm**, Optimization software for the calculation of water unit cost from reverse osmosis desalination plants, ©1999-2004.

## Honors & awards

2024	Recipient of <i>Award of Excellence</i> , in recognition of 9 years leadership at the position of Chairman at Cyprus Energy Regulatory Authority
2024	SolarGPS: Highly Ranked Scholar–Lifetime: Sustainable energy #8, Renewable energy #41, Energy #307 • URL: <a href="http://scholargps.com/">http://scholargps.com/</a>
2023	Recipient of <i>Award of Excellence</i> , from Frederick University, in recognition of scientific contribution to research and international literature
2022b	Included in the <i>World's Top 2% Scientists List 2022</i> , Stanford University
2022a	Included in the <i>World's Top 100000 Researchers List 2022</i> , Stanford University
2020b	Included in the <i>World's Top 2% Scientists List 2020</i> , Stanford University
2020a	Included in the <i>World's Top 100000 Researchers List 2020</i> , Stanford University
2019c	Recipient of <i>Plenary Speaker Award</i> , from European Forum on Clean Energy for Islands, Rhodes, Greece
2019b	Recipient of <i>Outstanding Contribution as a Keynote Speaker Award</i> , from International Conference on Innovative Applied Energy (IAPE' 19), Oxford, UK
2019a	Recipient of <i>Best Plenary Speech Award</i> , from Global Summit on Power & Energy Engineering, Dubai, UAE
2018	Recipient of <i>Award of Excellence</i> , from Rochester Institute of Technology (RIT), NY, USA, in recognition of the contribution to the energy sector (during the Energy Summit held in RIT Dubai)
2016c	Recipient of <i>Certificate of Outstanding Contribution in Reviewing in Renewable and Sustainable Energy Reviews</i> , from Elsevier, in recognition of the contribution to the quality of the journal
2016b	Recipient of <i>Certificate for Highly Cited Research in Sustainable Energy Technologies and Assessments</i> , from Elsevier, in recognition of the contribution to the quality of the journal
2016a	Recipient of <i>Award of Academic Excellence</i> , from Cyprus University of Technology, in recognition of research, teaching and scholarly contribution to the Cyprus University of Technology
2014b	Recipient of <i>Sharjah Islamic Bank Research Awards, 3<sup>rd</sup> Prize</i> , for the research work on “Prospective Scenarios for the Adoption of Sustainable Power Generation Technologies in United Arab Emirates”
2014a	Recipient of <i>Award of Excellence</i> , from Electricity Authority of Cyprus, in recognition of scientific contribution to the international literature
2013	Recipient of <i>Award of Outstanding Performance and Lasting Contribution to the Mechanical Engineering Department of the American University of Sharjah</i> , from the American Society of Mechanical Engineers
2011	Recipient of <i>Award of Scientific Contribution</i> , from IET Cyprus Network, in recognition of scientific contribution to Cyprus and international literature
2010	Recipient of <i>Award of Excellence</i> , from Electricity Authority of Cyprus, in recognition of scientific contribution to Cyprus and international literature
2009	Recipient of <i>Award of Merit</i> , from Cyprus Association of Technical Engineers, in recognition of scientific contribution to Cyprus and international literature
2007	Recipient of <i>Award for Highly Cited Research in Renewable and Sustainable Reviews</i> , from Elsevier, in recognition of the contribution to the quality of the journal
1999	Grant recipient from European Union; to attend the course on <i>Sustainability assessment of water desalination technologies</i> at Instituto Superior Tecnico, Portugal

- 1989b Recipient of a 2-Year *scholarship* from Electricity Authority of Cyprus • Undergraduate studies
- 1989a Recipient of a 3-Year *scholarship* from Cyprus Petroleum Refineries Ltd • Undergraduate studies

## Research actively involved and funds

- 2017-2019 Horizon 2020, European Union, Grant agreement No: 774407, *All integrated platform for increased flexibility in smart transmission grids with storage entities and large penetration of renewable energy sources (FLEXITRANSTORE)*, funding €21.693.181 • Scientific person in charge
- 2014-2015 Cyprus University of Technology, Internal Grant, *The first step towards a 100% renewable power system for Cyprus (CY100RES)*, funding €40.000 • Principal investigator
- 2013-2014 American University of Sharjah, Sustainable Energy Initiative Fund, *Development of a solar based polygeneration energy system for commercial buildings*, funding €35.000 • Member of the research team
- 2010-2014 Seventh Framework Program of Research and Development, European Union, Grant agreement No: FP7-ENERGY-2010-1/256797, *The development and verification of a novel modular air cooled condenser for enhanced concentrated solar power generation (MACCSol)*, funding €4.100.000 • Scientific person in charge
- 2011-2013 Cyprus Planning Bureau, *Pilot project for the integration of solar thermal technologies with desalination (HPHN)*, funding €1.295.000 • Scientific person in charge
- 2008-2011 Seventh Framework Program of Research and Development, European Union, Grant Agreement No 219055, *Pilot Demonstration of eleven 7MW-Class WEC at Estinnes in Belgium (7MW-WEC-by-11)*, funding €3.270.286 • Scientific person in charge
- 2007-2011 Sixth Framework Program of Research, Development and Demonstration, European Union, Contract No 038665, *Grid reliability and operability with distributed generation using transportable storage (GROW-DERS)*, funding €1.269.500 • Scientific person in charge
- 2008-2010 Cyprus Planning Bureau, *Development of a concentrated solar power on demand technology integrated with desalination system (CSP-DSW)*, funding €4.000.000 • Scientific person in charge
- 2007-2009 Sixth Framework Program of Research, Development and Demonstration, European Union, Contract No 031569, *Promotion and consolidation of all RTD activities for renewable distributed generation technologies in the Mediterranean region (DISTRES)*, €1.000.000 • Principal investigator
- 2006-2009 Sixth Framework Program of Research, Development and Demonstration, European Union, Contract No SES6-2006-019972, *Carbon dioxide capture and hydrogen production from gaseous fuels (CACHET)*, funding €3.000.000 • Scientific person in charge
- 2004-2009 Sixth Framework Program of Research, Development and Demonstration, European Union, Contract No SES6-CT-2003-503516, *The birth of a European distributed energy partnership that will help the large-scale implementation of distributed energy resources in Europe (EU-DEEP)*, funding €16.000.000 • Scientific person in charge
- 2005-2008 Research Promotion Foundation, Cyprus, Contract No TEXNO/1104/10, *Development of an on-line partial discharge monitoring system (KOPONA)*, funding €111.150 • Scientific person in charge
- 2004-2007 Research Promotion Foundation, Cyprus, Contract No TEXNO/0603/03, *Development of hydrogen-fuel cell distributed generation technology (H<sub>2</sub>/KYΨEAEΣ)*, funding €128.000 • Principal investigator
- 2004-2006 Research Promotion Foundation, Cyprus, Contract No TEXNO/0603/10, *Development of an industrial lean H<sub>2</sub> DeNO<sub>x</sub> technology (YAPONOX)*, funding €128.000 • Scientific person in charge
- 2002-2006 Fifth Framework Program of Research, Development and Demonstration, European Union, Contract No ENK5-CT-2001-00536, *Cluster pilot project for the integration of RES into European Union*

- energy sectors using hydrogen (RES<sub>2</sub>H<sub>2</sub>), funding €2.500.000 • Scientific person in charge*
- 2002-2005 Fifth Framework Program of Research, Development and Demonstration, European Union, Contract No ENK5-CT2002-00668, *Mixed air-steam turbines using liquid fuels (MAST B LIQUID)*, funding €1.400.000 • Scientific person in charge
- 2002-2003 Fifth Framework Program of Research, Development and Demonstration, European Union, Contract No ENK5-CT2000-00063, *Combined cycle power plant with integrated low temperature (LOTHECO)*, funding €200.000 • Scientific person in charge

## Journal Editor & Guest Editor

- 2025-present Associate Editor of the journal *Renewable and Sustainable Energy Reviews* • URL: <http://www.rser/>
- 2021-present Associate Editor of the journal *Discover Energy* • URL: <http://www.springernature/>
- 2013-present Associate Editor of the *Journal of Power Technologies* • URL: <http://www.jpt/>
- 2022-2023 Guest Editor of the journal *Energies* • URL: <http://www.energies/>
- 2021-2022 Guest Editor of the journal *Electric Power Systems Research* • URL: <http://www.epsr/>
- 2021-2022 Guest Editor of the journal *International Journal of Electrical Power and Energy Systems* • URL: <http://www.ijepes/>
- 2021-2022 Guest Editor of the journal *IET Renewable Power Generation* • URL: <http://www.ietrpg/>
- 2012-2013 Guest Editor of the *International Journal of Sustainable Energy* • URL: <http://www.ijse/>
- 2012-2013 Guest Editor of the journal *Conference Papers in Energy*

## Editorial Boards

- 2021-present Member of the Editorial Board of the journal *Discover Energy* • URL: <http://www.springernature/>
- 2020-present Member of the Editorial Board of the journal *Green Energy and Sustainability* • URL: <http://www.ges/>
- 2018-present Member of the Editorial Board of the journal *Current Alternative Energy* • URL: <https://www.cae/>
- 2015-present Member of the Editorial Board of the journal *Sustainable Energy Technologies and Assessments* • URL: <http://www.journals.seta/>
- 2013-present Member of the Editorial Board of the *American Journal of Engineering Science and Technology Research* • URL: <http://www.journals.ajestr/>
- 2013-present Member of the Editorial Advisory Board of the *International Journal of Energy and Environment* • URL: <http://www.journals.ijee/>
- 2013-2018 Member of the Review Board of the journal *Frontiers in Energy Systems and Policy*
- 2012-2017 Member of the Editorial Board of the journal *Conference Papers in Energy*
- 2006-2013 Member of the Review Board of the *Scientific Journals International*
- 1992-1995 Member of the Editorial Board of the journal *Mechanical News*

## Conference proceedings editor

- 2013d Poullikkas A. (Editor), *Proceedings of the Conference on Power Options for the Eastern Mediterranean Region (POEM2013)*, Nicosia, Cyprus, Oct 7-8 (2013).
- 2013c Poullikkas A. (Editor), *Selected papers from the 4th International Conference on Renewable Energy*

and Sources and Energy Efficiency, *International Journal of Sustainable Energy* (2013).

- 2013b Poullikkas A. (Editor), *Proceedings of the 4th International Conference on Renewable Energy and Sources and Energy Efficiency*, Nicosia, Cyprus, Jun 6-7 (2013).
- 2013a Poullikkas A. (Lead Editor), Demokritou P. (Editor), Sourkounis C. (Editor), Al-Assaf (Editor), *Selected papers from the Conference on Power Options for the Eastern Mediterranean Region, Conference Papers in Energy* (2013).
- 2012 Poullikkas A. (Editor), *Proceedings of the Conference on Power Options for the Eastern Mediterranean Region (POEM2012)*, Limassol, Cyprus, Nov 19-21 (2012).
- 2010 Poullikkas A. (Editor), *Proceedings of the 7th Mediterranean Conference and Exhibition on Power Generation, Transmission, Distribution and Energy Conversion (MedPower 2010)*, Ayia Napa, Cyprus, Nov 7-10 (2010).
- 2009 Poullikkas A. (Editor), *Proceedings of the Conference on the promotion of Distributed Renewable Energy Sources in the Mediterranean region*, Nicosia, Cyprus, Dec 11-12 (2009).
- 2008 Poullikkas A. (Editor), *Proceedings of the International Conference on Deregulated Electricity Market Issues in South-Eastern Europe*, Nicosia, Cyprus, Sep 22-23 (2008).

## Conference organization

- 2024 Chairman of a session, *International Conference on Climate Crisis in the Eastern Mediterranean and Middle East*, Larnaca, Cyprus, 26 Sep – 28 Sep 2024.
- 2020c Co-Chairman and Member of the International Advisory Committee of the 12<sup>th</sup> *Mediterranean Conference on Power Generation, Transmission, Distribution and Energy Conversion (MedPower 2020)*, Paphos, Cyprus, Nov 9–12 (2020).
- 2020b Scientific Committee Theme Chair (Energy System and Sector Coupling / Spatial Energy Planning) of the 13<sup>th</sup> *International Conference on Solar Energy for Buildings and Industry (EuroSun 2020)*, Athens, Greece, Sep 1–4 (2020).
- 2020a Member of the Advisory Committee of the 11<sup>th</sup> *International Conference on Intelligent Energy Management, Electronics, Electric & Thermal Power, Robotics and Automation (IEMERA 2020)*, Imperial College London, London, UK, 26–28 Mar (2020).
- 2019 Member of the International Advisory Committee of the 1<sup>st</sup> *Conference on Energy Transition in the Mediterranean Area*, Cagliari, Sardinia, Italy, 27–29 May 2019.
- 2018f Chairman of a session, *International Conference on the Decarbonisation of the Energy Sector in the Mediterranean Region and Middle East – The Role of CSP*, Nicosia, Cyprus, 29 Nov – 1 Dec 2018.
- 2018e Member of the International Advisory Committee of the 11<sup>th</sup> *Mediterranean Conference on Power Generation, Transmission, Distribution and Energy Conversion (MedPower 2018)*, Dubrovnik, Croatia, Nov 12–15 (2018).
- 2018d Member of the Advisory Board of the 6<sup>th</sup> *International Conference on Renewable Energy and Sources and Energy Efficiency*, Nicosia, Cyprus, 1–2 Nov (2018).
- 2018c Member of the Advisory Board of the *IET Conference – Innovation, The Challenging Way Forward*, Nicosia, Cyprus, 3 Oct (2018).
- 2018b Member of the Scientific Advisory Board of the 3<sup>rd</sup> *Renewable Energy Sources–Research and Business Conference (RESRB 2018)*, Brussels, Belgium, Jun 18–20 (2018).
- 2018a Chairman of a session, 5<sup>th</sup> *International Conference on Energy, Sustainability and Climate Change (ESCC2018)*, Mykonos, Greece, 4–6 Jun 2018.



- 2017 Chairman of a session, *52<sup>nd</sup> International Universities' Power Engineering Conference (UPEC 2017)*, Crete, Greece, Aug 28–31 (2017).
- 2016c Member of the International Advisory Committee of the *10<sup>th</sup> Mediterranean Conference and Exhibition on Power Generation, Transmission Energy and Distribution (MedPower 2016)*, Belgrade, Serbia, Nov 6–9 (2016).
- 2016b Co-Chairman of the *5th International Conference on Renewable Energy and Sources and Energy Efficiency*, Nicosia, Cyprus, May 5–6 (2016).
- 2016a Track-Chair: Electric Power Systems and Renewable Energy Sources of the *IEEE 18th Mediterranean Electrotechnical Conference (MELECON 2016)*, Nicosia, Cyprus, Apr 18–20 (2016).
- 2015 Chairman of a session, *19th International Conference on Circuits, Systems, Communications and Computers*, IEEE Conference, Zakynthos, Greece, Jul 16–20 (2015).
- 2014 Member of the International Advisory Committee and Chairman of a Session of the *9th Mediterranean Conference and Exhibition on Power Generation, Transmission Energy and Distribution (MedPower 2014)*, Athens, Greece, Nov 2–5 (2014).
- 2013c Chairman of a session of the *EU-GCC High level Renewable Energy Policy Experts Workshop*, Masdar Institute of Science and Technology, Abu Dhabi, UAE, 26–27 Nov (2013).
- 2013b Chairman of the *Conference on Power Options for the Eastern Mediterranean Region (POEM2013)*, Nicosia, Cyprus, Oct 7–9 (2013).
- 2013a Chairman of the *4th International Conference on Renewable Energy and Sources and Energy Efficiency*, Nicosia, Cyprus, Jun 6–7 (2013).
- 2012c Chairman of the *Conference on Power Options for the Eastern Mediterranean Region (POEM2012)*, Limassol, Cyprus, Nov 19–21 (2012).
- 2012b Honorary Chairman of the *8th Mediterranean Conference and Exhibition on Power Generation, Transmission, Distribution and Energy Conversion (MedPower 2012)*, Cagliari, Sardinia, Italy, Oct 1–4 (2012).
- 2012a Chairman of the Organising Committee, *Workshop on the Reconstruction of Vasilikos Power Station*, Nicosia, Cyprus, Apr 26 (2012).
- 2011c Chairman of a session, *State of the Art of renewable energy systems (RES) and future prospects in Cyprus and Mediterranean region by Cyprus natural gas*, Nicosia, Cyprus, Feb 4 (2011).
- 2011b Member of the Program Committee and Chairman of a session, *Workshop on Energy Issues facing Cyprus*, Nicosia, Cyprus, Oct 14 (2011).
- 2011a Member of the Organising Committee, *3rd International Conference on Renewable Energy and Sources and Energy Efficiency*, Nicosia, Cyprus, May 19–20 (2011).
- 2010 Chairman of the *7th Mediterranean Conference and Exhibition on Power Generation, Transmission, Distribution and Energy Conversion (MedPower 2010)*, Ayia Napa, Cyprus, Nov 7–10 (2010).
- 2009f Chairman of the *Conference on the Promotion of Distributed Renewable Energy Sources in the Mediterranean region*, Nicosia, Cyprus, Dec 11–12 (2009).
- 2009e Member of the Scientific Committee and Chairman of a session, *Renewable Energy Sources and Energy Efficiency*, Nicosia, Cyprus, Oct 23–24 (2009).
- 2009d Chairman of the Organizing Committee, *Workshop on Solar thermal and photovoltaic electricity market in EU and Mediterranean countries*, Beirut, Lebanon, Jun 19 (2009).
- 2009c Chairman of a session, *Conference on renewable energy sources, policies and applications in Cyprus*, Nicosia, Cyprus, 15 Jun (2009).
- 2009b Chairman of a session, *European Geosciences Union General Assembly 2009: Climate change and*

- energy markets in the Mediterranean*, Vienna, Austria, Apr 19-24 (2009).
- 2009a Chairman of a session, *9th Conference on alternative energy sources*, Paphos, Cyprus, Mar 26-28 (2009).
- 2008d Chairman of the Organizing Committee, *Workshop on the solar thermal and photovoltaic market financing schemes in EU and Mediterranean countries*, Algiers, Algeria, Dec 17 (2008).
- 2008c Member of the International Advisory Committee, *6th Mediterranean Conference on Power Generation, Transmission and Distribution*, Thessaloniki, Greece, Nov 2-5 (2008).
- 2008b Secretary of the Organizing Committee and member of the Scientific Committee, *International Conference on Deregulated Electricity Market Issues in South-Eastern Europe (DEMSEE2008)*, Nicosia, Cyprus, Sep 22-23 (2008).
- 2008a Chairman of the Organizing Committee, *Workshop on the current RES policies within EU and Mediterranean countries*, Marrakech, Morocco, Jun 5 (2008).
- 2007g Member of the Organizing Committee, *Cyprus Electricity Research and Development 2007 Workshop*, Nicosia, Cyprus, Dec 17 (2007).
- 2007f Member of the Organizing Committee, *European Workshop on Power generation expansion planning*, Nicosia, Cyprus, Nov 22-23 (2007).
- 2007e Member of the Scientific Committee and Chairman of two sessions, *Renewable Energy Sources and Energy Efficiency*, Nicosia, Cyprus, Sep 28-30 (2007).
- 2007d Chairman of a session, *10th Quality Forum*, Nicosia, Cyprus, 26 Sep 2007.
- 2007c Member of the Scientific Committee, *International Workshop on Deregulated Electricity Market Issues in South-Eastern Europe*, Istanbul, Turkey, Sep 19-20 (2007).
- 2007b Member of the Scientific Committee and Chairman of a session, *International Conference MFS 2007*, Ayia Napa, Cyprus, Jun 11-13 (2007).
- 2007a Chairman of the Organizing Committee, *The European Union Policy for the Future Power Systems*, Nicosia, Cyprus, Feb 13 (2007).
- 2006b Member of the Organizing Committee, *Electromagnetic Fields: Sources, Health Effects and Regulations*, Nicosia, Cyprus, Nov 7 (2006).
- 2006a Member of the Technical Committee, *5th Mediterranean Conference on Power Generation, Transmission and Distribution*, Eilat, Israel, Nov 15-17 (2006).
- 2004b Chairman of a session, *4rd Mediterranean Conference on Power Generation, Transmission, Distribution and Energy Conversion*, Limassol, Cyprus, Nov 15-17 (2004).
- 2004a Member of the Scientific Committee, *Second International Conference on Industrial Gas Turbine Technologies*, Bled, Slovenia, Apr 29-30 (2004).
- 2003 Member of the Scientific Committee and Chairman of a session, *First International Conference on Industrial Gas Turbine Technologies*, Belgium, Brussels, Jul 10-11 (2003).

## Refereeing

### SERVED AS A REFEREE FOR JOURNALS

AIMS Energy • Applied Energy • Applied Thermal Engineering • ASME Journal of Dynamic Systems, Measurement and Control • ASME Journal of Fluids Engineering • Cogent Engineering • Conference Papers in Energy • Desalination and Water Treatment • Desalination • Electrochimica Acta • Energies • Energy and Fuels • Energy Policy • Energy Sources • Energy Strategy Reviews • Engineering Analysis with Boundary Elements • Environmental Engineering

and Management Journal • Fuel • IEEE Transactions on Sustainable Energy • IET Generation, Transmission and Distribution • IET Renewable Power Generation • International Journal of Electrical Power and Energy Systems • International Journal of Energy Research • International Journal of Global Warming • International Journal of Hydrogen • International Journal of Hydrogen Energy • International Journal of Photoenergy • International Journal of Thermal Sciences • Journal of Cleaner Production • Journal of Ecosystem and Ecography • Journal of Electrical and Electronics Engineering Research • Journal of Energy Storage • Journal of Engineering and Technology Research • Journal of Power Technologies • Journal of Solar Energy • International Journal of Sustainable Energy • JRC Scientific and Technical Reports, Institute for Energy, European Commission • Nature Communications • Nuclear Engineering and Design • Oil and Gas Science and Technology • Proceedings of the IEEE • Progress in Nuclear Energy • Propulsion and Power Research • Renewable and Sustainable Energy Reviews • Sensors • Separation Science and Technology • Solar Energy • Sustainable Energy Technologies and Assessments • Technological and Economic Development of Economy • Technological Forecasting and Social Change • Utilities Policy

#### SERVED AS A REVIEWER FOR NEW BOOKS

- 2025 CRC press, Taylor and Francis Feb (2025).
- 2023 Institute of Physics Books, May (2023).

#### SERVED AS AN INDEPENDENT EXPERT & EVALUATOR FOR RESEARCH PROGRAMS REVIEW

- 2018 *Graded Membranes for Energy Efficient New Generation Carbon Capture Process (GREEN-CC)*, Final Review, Seventh Framework Program of Research and Development, European Commission, Apr (2018).
- 2017 *Graded Membranes for Energy Efficient New Generation Carbon Capture Process (GREEN-CC)*, Review II, Seventh Framework Program of Research and Development, European Commission, Feb (2017).
- 2015c *Graded Membranes for Energy Efficient New Generation Carbon Capture Process (GREEN-CC)*, Review I, Seventh Framework Program of Research and Development, European Commission, Jul (2015).
- 2015b Competition Judge for The Institution of Engineering and Technology (IET) *Present Around The World (PATW) 2015 competition*, Mar (2015).
- 2015a Proposals submitted for *Faculty Research Grant (Type 2-One Year Award)*, American University of Sharjah, Dec-Apr (2015).
- 2014c Proposals submitted in the field of *Carbon Capture and Storage, Horizon 2020 Framework Programme for Research and Innovation (H2020-LCE-2015-1)* of the European Commission, Oct (2014).
- 2014b Proposals submitted for *Faculty Research Grant (Type 2-One Year Award)*, American University of Sharjah, Dec-Apr (2014).
- 2014a Proposals submitted for *Faculty Research Grant (Type 2-Two Year Award)*, American University of Sharjah, Dec-Apr (2014).
- 2013 Proposals submitted in the field of *Concentrated Solar Power, Seventh Framework Program of Research and Development (FP7- ENERGY.2013.10.1.10)* of the European Commission, Dec-Aug (2013).
- 2011c *Carbon capture and hydrogen production with membranes (CACHET II)*, Seventh Framework Program of Research and Development, Nov 29 (2011).
- 2011b *Enhanced Energy Production of Heat and Electricity by a combined Solar Thermionic-Thermoelectric Unit System (EzPHEST2US)*, Seventh Framework Program of Research and Development, Sep 6

(2011).

- 2011a Proposals submitted in the field of *Concentrated Solar Power, Seventh Framework Program of Research and Development (FP7-ENERGY-2011-1)*, Dec-Aug (2011).
- 2010 *CO<sub>2</sub> Enhanced Separation Recovery (CESAR)*, Seventh Framework Program of Research and Development, Feb 9-12 (2010).
- 2008-2013 Proposals submitted, in the field of Energy, to *EUREKA for the Eurostars* call of applications (2008-2013).
- 2004 Proposals submitted, in the field of Energy, to *Hermes Research Center and Incubator*, Cyprus (2004).
- 2001 Proposals submitted, in the field of Energy, to the *Research Promotion Foundation for the Greece-Cyprus research program* for science and technology 2000-2002 (2001).

#### SERVED AS A REFEREE FOR PROCEEDINGS VOLUMES

- 2011b *Proceedings of the Renewable Energy Sources and Energy Efficiency Conference*, Nicosia, Cyprus, May 28-29 (2011).
- 2011a *Proceedings of the World Renewable Energy Congress 2011*, Linköping, Sweden, May 8-13 (2011).
- 2010b *Proceedings of the 7th Mediterranean Conference and Exhibition on Power Generation, Transmission, Distribution and Energy Conversion*, Ayia Napa, Cyprus, Nov 7-10 (2010).
- 2010a *Proceedings of IDETC/CIE 2010, ASME International Design Engineering Technical Conferences & Computers and Information in Engineering Conference*, Montréal, Quebec, Canada, Aug 15-18 (2010).
- 2009b *Proceedings of the Conference on the Promotion of Distributed Renewable Energy Sources in the Mediterranean region*, Nicosia, Cyprus, Dec 11-12 (2009).
- 2009a *Proceedings of the Renewable Energy Sources and Energy Efficiency Conference*, Nicosia, Cyprus, Oct 23-24 (2009).
- 2008b *Proceedings of the EuroMed 2008-Desalination Conference*, Dead Sea, Jordan, Nov 9-13 (2008).
- 2008a *Proceedings of the International Conference on Deregulated Electricity Market Issues in South-Eastern Europe*, Nicosia, Cyprus, Sep 22-23 (2008).
- 2007 *Proceedings of the Renewable Energy Sources and Energy Efficiency Conference*, Nicosia, Cyprus, Sep 28-30 (2007).
- 2004b *Proceedings of the Second International Conference on Industrial Gas Turbine Technologies*, Bled, Slovenia, Apr 29-30 (2004).
- 2004a *Proceedings of the Workshop on Methodologies for Distributed Energy Resources Economic Appraisal*, Brussels, Mar 23-26 (2004).
- 2003 *Proceedings of the First International Conference on Industrial Gas Turbine Technologies*, Belgium, Brussels, Jul 10-11 (2003).

## Teaching experience

DEPARTMENT OF ELECTRICAL ENGINEERING, COMPUTER ENGINEERING AND INFORMATICS, CYPRUS UNIVERSITY OF TECHNOLOGY

- 2014-2015 Renewable Energy Systems (graduate course)
- 2014-2015 Power systems II (undergraduate/graduate course)
- 2014-2015 Power generation operation and control (undergraduate/graduate course)

DEPARTMENT OF MECHANICAL ENGINEERING, AMERICAN UNIVERSITY OF SHARJAH, UAE

2013	Advanced thermofluids (graduate course)
2013	Energy systems (undergraduate course)
2012-2013	Thermodynamics (undergraduate course)
2012	Analysis of power generation technologies (graduate course)
2012	Energy management and conservation (undergraduate course)

DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING, UNIVERSITY OF CYPRUS

2008-2012	Analysis of power generation technologies (graduate course)
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SCIENTIFIC TECHNICAL CHAMBER OF CYPRUS

2010-2012	Analysis of solar power technologies (professional course)
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HARVARD SCHOOL OF PUBLIC HEALTH, HARVARD UNIVERSITY, USA

2005-2009	Introduction to thermodynamics, power plants and alternative energy sources (graduate course)
2005-2009	Power systems (graduate course)

DEPARTMENT OF MECHANICAL ENGINEERING, FREDERICK UNIVERSITY, CYPRUS

2007	Energy policies (graduate course)
2007	Economics of energy systems (graduate course)
2004-2007	Power systems I and II (undergraduate course)
2005-2007	Fluid Mechanics (undergraduate course)
2004	Thermodynamics (undergraduate course)
2003	Internal Combustion Engines (undergraduate course)
2000-2002	Fluid Mechanics (undergraduate course)
1993-1995	Electromagnetism and Optics (undergraduate course)
1994-1995	Calculus and Analytic Geometry (undergraduate course)
1994-1995	Heat and Mass Transfer (undergraduate course)
1993-1995	Energy Management and Conservation (undergraduate course)
1993-1994	Mechanical Vibrations (undergraduate course)

DEPARTMENT OF MECHANICAL ENGINEERING, LOUGHBOROUGH UNIVERSITY OF TECHNOLOGY, UK

1991-1992	Turbomachinery (undergraduate course)
1991-1992	Fluid Mechanics (undergraduate course)

## Other academic activities

2025-present	Frederick University, <i>Senate Secretary</i> • Appointment by the University Council.
2025-present	Frederick University, <i>Commissioner for Publications and Rankings</i> • Appointment by the University Council.

2019-2024	United Nations Economic Commission for Europe (UNECE), <i>Group of Experts on Renewable Energy Sources.</i>
2019-2024	United Nations Economic Commission for Europe (UNECE), <i>Group of Experts on Gas.</i>
2018-2024	Oxford University, <i>Member of the Oxford Energy Policy Club.</i>
2015-2018	Cyprus Open University, <i>Member of the Academic Committee for the MSc in Sustainable Energy Systems.</i>
2014-2015	Cyprus University of Technology, <i>Chair of the Department Council.</i>
2014-2015	Cyprus University of Technology, <i>Member of the Engineering School Council.</i>
2014-2015	Cyprus University of Technology, <i>Member of the Postgraduate Studies Senate Committee.</i>
2014-2015	Cyprus University of Technology, <i>Chair of various Search Committees.</i>
2014	University of Central Lancashire, <i>External Evaluator of the Electrical Engineering Course.</i>
2003-2014	ERMIS Research and Incubator Center, <i>Member of the Advisory Board.</i>
2008-2014	University of Cyprus, <i>Member of the Industrial Advisory Board of KIOS Research Center.</i>
2009-2012	University of Nicosia, <i>Member of the Advisory Board of the Department of Engineering.</i>
2011	Cyprus Institute, <i>Member of the Search Committee for the appointment of Assistant Professors for the Energy, Environment and Water Research Center.</i>
2009	Cyprus Institute, <i>Member of the Search Committee for the appointment of Assistant Professors for the Energy, Environment and Water Research Center.</i>
1993-1995	Frederick University, <i>Head of the Department, Member of Academic, Research and Administrative Committees.</i>

## Consulting

2014	Minister of Energy, Cyprus Government, <i>Roadmap concerning the set up of natural gas market in Cyprus</i>
2013	Cyprus Government Council of Ministers, <i>Strategic plan for the promotion of renewable energy sources in the Cyprus electricity generation system - Review Update I</i>
2012	Cyprus Government Council of Ministers, <i>Strategic plan for the promotion of renewable energy sources in the Cyprus electricity generation system - Update for small commercial PV systems Feed-in-Tariff</i>
2011c	Cyprus Energy Regulatory Authority, <i>Feasibility study for the integration of pumped hydroelectric energy storage systems in Cyprus power system</i>
2011b	Cyprus Energy Regulatory Authority, <i>Assessment of net metering policies for PV residential installations</i>
2011a	Cyprus Government Council of Ministers, <i>Strategic plan for the promotion of renewable energy sources in the Cyprus electricity generation system - Update for PV systems early deployment</i>
2010	Cyprus Government Council of Minister, <i>Development of a strategic plan for the promotion of renewable energy sources in the Cyprus electricity generation system</i>
2007	European Commission, <i>Strategic plan for the integration of future sustainable power technologies with carbon capture and storage in the European energy system</i>

## Service to the profession

2006-present	National Liaison Officer for matters related to the <i>WASP-IV computer code</i> • Appointment by the International Atomic Energy Agency (IAEA).
2000-present	Member of the <i>Desalination Economic Evaluation Programme (DEEP) user group</i> • Appointment by the International Atomic Energy Agency (IAEA).
2023-2024	Vice Chairman of the <i>Regulatory Authority Advisory Committee (RAAC)</i> • Appointment by the East Gas Mediterranean Forum (EMFG).
2015-2024	Member of the <i>Board of Regulators of the Agency for the Cooperation of Energy Regulators</i> • Appointment by the European Commission.
2018-2023	<i>ex-officio</i> Member of the <i>IET Cyprus section committee</i> • Appointment by the IET.
2010-2015	Chairman of the Working Group for <i>Strategic plan for the promotion of renewable energy sources in the Cyprus electricity generation system</i> • Appointment by the Council of Ministers of the Cyprus Government.
2008-2014	Vice Chairman of the <i>CIGRE National Committee of Cyprus</i> .
2011-2014	Member of the <i>Energy Working Group</i> • Appointment by the Cyprus Employers and Industrialists Federation.
2003-2014	Vice Chairman of the <i>Energy Policy Working Group</i> • Appointment by the Scientific Technical Chamber of Cyprus (ETEK).
2006-2014	Member of the <i>Research and Development Working Group</i> • Appointment by the European Union of the Electricity Industry (EURELECTRIC).
2011-2012	Coordinator of the <i>Pre-feasibility study for the introduction of a pump storage system</i> • Appointment by the Electricity Authority of Cyprus.
2009-2012	Advisor on technology issues of the <i>Solar Thermal Working Group</i> • Appointment by the Electricity Authority of Cyprus.
2010-2011	Coordinator of the <i>EAC RES-E strategic plan for the period 2011-2020 Working Group</i> • Appointment by the Electricity Authority of Cyprus.
2010b	Coordinator of the <i>NER300 funding scheme for innovative RES technologies-A guide for EAC strategy Working Group</i> • Appointment by the Electricity Authority of Cyprus.
2010a	Coordinator of the <i>EAC RES-E avoidance cost Working Group</i> • Appointment by the Electricity Authority of Cyprus.
2009-2010	Member of the <i>Generation System Optimization Working Group</i> • Appointment by the Electricity Authority of Cyprus.
2008-2010	Member of the <i>Desalination Working Group</i> • Appointment by the Electricity Authority of Cyprus.
2007-2009	Member of the <i>European Technology Platform on Zero Emission Fossil Fuel Power Plants (ETP ZEP)-Taskforce Policy and Regulation</i> • Appointment by the European Commission.
2000-2009	Member of the <i>Environmental Protection Working Group</i> • Appointment by the European Union of the Electricity Industry (EURELECTRIC).
2007-2008	Member of the <i>3rd Energy Package Working Group</i> • Appointment by the Electricity Authority of Cyprus.
2007c	Member of the <i>EAC market rules Working Group</i> • Appointment by the Electricity Authority of Cyprus.
2007b	Member of the <i>EAC natural gas generation cost Working Group</i> • Appointment by the Electricity Authority of Cyprus.

2007a	Member of the <i>EAC competition strategy Working Group</i> • Appointment by the Electricity Authority of Cyprus.
2006-2007	Coordinator of the <i>Evaluation of the power optimization generator and contract scheduling (Power-Op) software Working Group</i> • Appointment by the Electricity Authority of Cyprus.
2006b	Member of the <i>Power system optimization Working Group</i> • Appointment by the Electricity Authority of Cyprus.
2006a	Member of the <i>EAC cooperation with independent power producers Working Group</i> • Appointment by the Electricity Authority of Cyprus.
2005-2006	Member of the <i>Liquefied natural gas Working Group</i> • Appointment by the Electricity Authority of Cyprus.
2004-2006	Member of the <i>Generation strategic planning Working Group</i> • Appointment by the Electricity Authority of Cyprus.
2004-2006	Cyprus Delegate to the <i>European Commission for research and technological development activities in the field of energy</i> • Appointment by the Planning Bureau of the Cyprus Government.
2004-2005	Member of the <i>Ancillary Services Working Group</i> • Appointment by the Electricity Authority of Cyprus.
2004-2005	Member of the <i>HFO reserves Working Group</i> • Appointment by the Electricity Authority of Cyprus.
2003-2005	Member of the <i>National Plan for Energy Management Working Group</i> • Appointment by the Scientific Technical Chamber of Cyprus (ETEK).
2003-2005	Member of the <i>Mechanical Engineering Membership Applications Review Panel</i> • Appointment by the Scientific Technical Chamber of Cyprus (ETEK).
2000-2005	Vice Chairman of the <i>Research Working Group</i> • Appointment by the Scientific Technical Chamber of Cyprus (ETEK).
2003-2004	Member of the <i>Environmental Protection Committee</i> • Appointment by the Scientific Technical Chamber of Cyprus (ETEK).
2000-2002	Member of the <i>Harmonization with EU Legislation Working Group</i> • Appointment by the Scientific Technical Chamber of Cyprus (ETEK).
1999-2002	Member of the <i>EU Environmental Legislation Working Group</i> • Appointment by the Electricity Authority of Cyprus.
2000-2001	Member of the <i>Desalination Working Group</i> • Appointment by the Electricity Authority of Cyprus.
1999-2000	Member of the <i>EU Research Sources for Funding Working Group</i> • Appointment by the Electricity Authority of Cyprus.
1999b	Member of the <i>EU Stranded Costs Working Group</i> • Appointment by the Electricity Authority of Cyprus.
1999a	Member of the <i>EAC Spinning Reserve Policy Working Group</i> • Appointment by the Electricity Authority of Cyprus.
1998-1999	Member of the <i>Generation System Optimization Working Group</i> • Appointment by the Electricity Authority of Cyprus.
1998-1999	Member of the <i>Emissions Reduction Working Group</i> • Appointment by the Electricity Authority of Cyprus.
1996	Member of a special committee to prepare written examinations for the appointment of engineers to work for the Limassol sewage treatment plant • Appointment by the Scientific Technical Chamber of Cyprus (ETEK).



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# PUBLICATIONS & TALKS

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MPHIL, PHD, DTECH, FIET

Last updated: May 6, 2025

## Books

- 2021 Poulikkas A., *40 Questions About Energy*, Easy Conferences Ltd., Nicosia, ISBN: 978-9925-7710-2-8 (2021) • URL: <https://www.40Qs/>
- 2020 Poulikkas A., *Long-term Sustainable Energy Strategy: Cyprus's Energy Transition to Hydrogen Economy*, Easy Conferences Ltd., Nicosia, ISBN: 978-9925-7710-0-4 (2020) • URL: <https://www.CyprusH2/>
- 2018 Poulikkas A., *Views from the 90s*, Easy Conferences Ltd., Nicosia, ISBN: 978-9963-7355-9-4 (2018) • URL: <https://www.views90s/>
- 2016 Poulikkas A., *Fundamentals of Energy Regulation*, Easy Conferences Ltd., Nicosia, ISBN: 978-9963-7355-8-7 (2016) • URL: <https://www.energyregulation/>
- 2015b Poulikkas A., *Sustainable Energy Policymaking for Cyprus*, Easy Conferences Ltd., Nicosia, ISBN: 978-9963-7355-6-3 (2015) • URL: <https://www.energypolicymaking/>
- 2015a Poulikkas A., *Energy Union and Strategy for Cyprus*, Easy Conferences Ltd., Nicosia, ISBN: 978-9963-7355-7-0 (in Greek) (2015) • URL: <https://www.energyunion/>
- 2013b Poulikkas A., *Renewable Energy: Economics, Emerging Technologies and Global Practices*, NOVA Science Publishers, Inc., New York, Hardcover ISBN: 978-1-62618-231-8, Ebook ISBN: 978-1-62618-264-6 (2013) • URL: <https://www.renewableenergy/>
- 2013a Poulikkas A., *Sustainable Energy Development for Cyprus*, Easy Conferences Ltd. Nicosia, ISBN: 978-9963-7355-3-2 (in Greek) (2013) • URL: <https://www.sustainableenergy/>
- 2009b Poulikkas A., *Introduction to Power Generation Technologies*, NOVA Science Publishers, Inc., New York, Hardcover ISBN: 978-1-60876-472-3, Ebook ISBN: 978-1-61728-525-7 (2009) • URL: <https://www.powertechnologies/>
- 2009a Poulikkas A., *The Cyprus Energy Future*, Theopress Ltd., Nicosia, ISBN: 978-9963-9599-4-5 (in Greek) (2009) • URL: <https://www.energyfuture/>

## Refereed journal papers

- 2025b Venizelou V., Poulikkas A., “Navigating the Evolution of Cyprus’ Electricity Landscape: Drivers, Challenges and Future Prospects”, *Energies*, 18, 1199, (2025).
- 2025a Venizelou V., Poulikkas A., “The effect of carbon price towards green hydrogen power generation”, *Renewable and Sustainable Energy Reviews*, 211, 115254, (2025).
- 2024b Venizelou V., Poulikkas A., “Trend analysis of cross-border electricity trading in pan-European network”, *Energies*, 17, 5318, (2024).
- 2024a Venizelou V., Poulikkas A., “Comprehensive overview of recent research and industrial advancements in nuclear hydrogen production”, *Energies*, 17, 2836, (2024).
- 2022c Nicolaidis P., Poulikkas A., “Optimal carbon-electricity trade-offs through the virtual power plant concept”, *Discover Energy*, 2, 7 (2022).
- 2022b Nicolaidis P., Poulikkas A., “A thorough emission-cost analysis of the gradual replacement of carbon-rich fuels with carbon-free energy carriers in modern power plants: The case of Cyprus”,

*Sustainability*, 14, 10800 (2022).

- 2022a Nicolaidis P., Poullikkas A., “Co-optimization of active power curtailment, load shedding and spinning reserve deficits through hybrid approach: Comparison of electrochemical storage technologies”, *IET Renewable Power Generation*, 16, 92-104 (2022).
- 2021d Nicolaidis P., Poullikkas A., “Evolutionary priority-based dynamic programming for the adaptive integration of intermittent distributed energy resources in low-inertia power systems”, *Eng*, 2, 643-660 (2021).
- 2021c Poullikkas A., “Perspectives for the development of energy strategies – Challenges towards a hydrogen economy in Cyprus”, *Green Energy and Sustainability*, 1(2):0004, (2021).
- 2021b Nicolaidis P., Poullikkas A., “Increasing the photovoltaic hosting capacity in autonomous grids and microgrids via enhanced priority-list schemes and storage”, *Green Energy and Sustainability*, 1(1):0002, 1-21 (2021).
- 2021a Nicolaidis P., Poullikkas A., “A novel cluster-based spinning reserve dynamic model for wind and PV power reinforcement”, *Energy*, 234, 1-13 (2021).
- 2020b Nicolaidis P., Poullikkas A., “Enhanced Lagrange Relaxation for the optimal unit commitment of identical generating units”, *IET Generation, Transmission & Distribution*, 14, 3920-3928 (2020).
- 2020a Nicolaidis P., Chatzis S., Poullikkas A., “Optimal planning of electricity storage to minimize operating reserve requirements in an isolated island grid”, *Energy Systems*, 11, 1157-1174 (2020).
- 2019b Nicolaidis P., Chatzis S., Poullikkas A., “Life cycle cost analysis of electricity storage facilities in flexible power systems”, *International Journal of Sustainable Energy*, 38, 752-772 (2019).
- 2019a Nicolaidis P., Chatzis S., Poullikkas A., “Renewable energy integration through optimal unit commitment and electricity storage in weak power networks”, *International Journal of Sustainable Energy*, 38, 398-414 (2019).
- 2018b Poullikkas A., “An adaptive longterm electricity price forecasting modelling using Monte Carlo simulation”, *Journal of Power Technologies*, 98, 277-283 (2018).
- 2018a Nicolaidis P., Poullikkas A., “Cost metrics of electrical energy storage technologies in potential power system operations”, *Sustainable Energy Technologies and Assessments*, 25, 43-59 (2018).
- 2017c Nicolaidis P., Poullikkas A., “A comparative review of electrical energy storage systems for better sustainability”, *Journal of Power Technologies*, 97, 220-245 (2017).
- 2017b Saghafifar M., Poullikkas A., “Comparative analysis of power augmentation in air bottoming cycles”, *International Journal of Sustainable Energy*, 36, 47-60 (2017).
- 2017a Nicolaidis P., Poullikkas A., “A comparative overview of hydrogen production processes”, *Renewable and Sustainable Energy Reviews*, 67, 597-611 (2017).
- 2016 Poullikkas A., “Modelling of auctioning mechanism for solar photovoltaic capacity”, *International Journal of Sustainable Energy*, 35, 875-886 (2016).
- 2015f Saghafifar M., Poullikkas A., “Thermo-economic optimization of air bottoming cycles”, *Journal of Power Technologies*, 95, 211-220 (2015).
- 2015e Al-Tajer Y., Poullikkas A., “Parametric analysis for the implementation of wind power in United Arab Emirates”, *Renewable and Sustainable Energy Reviews*, 52, 635-644 (2015).
- 2015d Poullikkas A., “Review of design, operating and financial considerations in flue gas desulphurization systems”, *Energy Technology & Policy*, 2, 92-103 (2015).
- 2015c Poullikkas A., “Quantifying energy not serve in power capacity expansion planning”, *Journal of Power Technologies*, 95, 25-33 (2015).
- 2015b Poullikkas A., Zueter A.F., Dirar M.H., “Prospective scenarios for the adoption of sustainable power

- generation technologies in United Arab Emirates”, *International Journal of Sustainable Energy*, 34, 23-37 (2015).
- 2015a Poullikkas A., “Sustainable options for electric vehicle technologies”, *Renewable and Sustainable Energy Reviews*, 41, 1277-1287 (2015).
- 2014b Poullikkas A., “Technology prospects of wave power systems”, *Electronic Journal of Energy and Environment*, 2, 47-69 (2014).
- 2014a Poullikkas A., Papadouris S., Kourtis G., Hadjipaschalis I., “Storage solutions for power quality problems in Cyprus’ electricity distribution network”, *AIMS Energy*, 2, 1-17 (2014).
- 2013m Poullikkas A., Gadalla M., “Assessment of solar electricity production in United Arab Emirates”, *International Journal of Sustainable Energy*, 32, 631-642 (2013).
- 2013l Poullikkas A., Kourtis G., Hadjipaschalis I., “Cost-benefit analysis for the installation of cogeneration CSP technology in Cyprus”, *AIMS Energy*, 1, 48-62 (2013).
- 2013k Poullikkas A., Kourtis G., Hadjipaschalis I., “A review of net metering mechanism for electricity renewable energy sources”, *International Journal of Energy and Environment*, 4, 975-1002 (2013).
- 2013j Poullikkas A., Grimes R., Walsh E., Hadjipaschalis I., Kourtis G., “Optimal sizing of modular air-cooled condensers for CSP plants”, *Journal of Power Technologies*, 93, 178-184 (2013).
- 2013i Poullikkas A., “An overview of future sustainable nuclear power reactors”, *International Journal of Energy and Environment*, 4, 743-776 (2013).
- 2013h Poullikkas A., “A comparative overview of large-scale battery systems for electricity storage”, *Renewable and Sustainable Energy Reviews*, 27, 778-788 (2013).
- 2013g Poullikkas A., Hadjipaschalis I., Kourtis G., “A comparative overview of wet and dry cooling systems for Rankine cycle based CSP plants”, *Trends in Heat & Mass Transfer*, 13, 27-50 (2013).
- 2013f Poullikkas A., Hadjipaschalis I., Kourtis G., “Comparative assessment of an innovative drycooled”, *Conference Papers in Energy*, Article ID 849407 (2013).
- 2013e Poullikkas A., Kourtis G., Hadjipaschalis I., “Up-scaling of an innovative cogeneration CSP”, *Conference Papers in Energy*, Article ID 496145 (2013).
- 2013d Varnavas C., Poullikkas A., “A measure of capacity contribution of static mono-si photovoltaic systems”, *Conference Papers in Energy*, Article ID 526320 (2013).
- 2013c Poullikkas A., “Optimization analysis for pumped energy storage systems in small isolated power systems”, *Journal of Power Technologies*, 93, 78-89 (2013).
- 2013b Poullikkas A., “A comparative assessment of net metering and feed-in tariff schemes for residential PV systems”, *Sustainable Energy Technologies and Assessments*, 3, 1-8 (2013).
- 2013a Poullikkas A., Hadjipaschalis I., Kourtis G., “Parametric assessment of concentrated photovoltaic parks for the Mediterranean region”, *International Journal of Sustainable Energy*, 32, 42-52 (2013).
- 2012d Zachariadis T., Poullikkas A., “The costs of power outages: A case study for Cyprus”, *Energy Policy*, 51, 630-641 (2012).
- 2012c Poullikkas A., “Heat rate curve approximation for power plants without data measuring devices”, *International Journal of Energy and Environment*, 5, 651-658 (2012).
- 2012b Poullikkas A., Kourtis G., Hadjipaschalis I., “An overview of the EU Member States support schemes for the promotion of renewable energy sources”, *International Journal of Energy and Environment*, 4, 553-566 (2012).
- 2012a Poullikkas A., Rouvas C., Hadjipaschalis I., Kourtis G., “Optimum sizing of steam turbines for concentrated solar power plants”, *International Journal of Energy and Environment*, 3, 9-18 (2012).

- 2011c Tsikalakis A., Tomtsi T., Hatziaargyriou N.D., Poulikkas A., Malamatenios Ch., Giakoumelos E., Cherkaoui J.O., Chenak A., Fayek A., Matar T., Yasin A., "Review of best practices of solar electricity resources applications in selected Middle East and North Africa (MENA) countries", *Renewable and Sustainable Energy Reviews*, 15, 2838-2849 (2011).
- 2011b Poulikkas A., Kourtis G., Hadjipaschalis I., "A hybrid model for the optimum integration of renewable technologies in power generation systems", *Energy Policy*, 39, 926-935 (2011).
- 2011a Kourtis G., Hadjipaschalis I., Poulikkas A., "An overview of load demand and price forecasting methodologies", *International Journal of Energy and Environment*, 2, 123-150 (2011).
- 2010d Poulikkas A., Kourtis G., Hadjipaschalis I., "Parametric analysis for the installation of solar dish technologies in Mediterranean regions", *Renewable and Sustainable Energy Reviews*, 14, 2772-2783 (2010).
- 2010c Poulikkas A., "An optimization model for the production of desalinated water using photovoltaic systems", *Desalination*, 258, 100-105 (2010).
- 2010b Poulikkas A., "Technology and market future prospects of photovoltaic systems", *International Journal of Energy and Environment*, 1, 617-634 (2010).
- 2010a Poulikkas A., Hadjipaschalis I., Kourtis G., "The cost of integration of parabolic trough CSP plants in isolated Mediterranean power systems", *Renewable and Sustainable Energy Reviews*, 14, 1469-1476 (2010).
- 2009f Hadjipaschalis I., Kourtis G., Poulikkas A., "Assessment of oxyfuel power generation technologies", *Renewable and Sustainable Energy Reviews*, 13, 2637-2644 (2009).
- 2009e Poulikkas A., "Economic analysis of power generation from parabolic trough solar thermal plants for the Mediterranean region-A case study for the island of Cyprus", *Renewable and Sustainable Energy Reviews*, 13, 2474-2484 (2009).
- 2009d Poulikkas A., "Parametric cost-benefit analysis for the installation of photovoltaic parks in the island of Cyprus", *Energy Policy*, 37, 3673-3680 (2009).
- 2009c Hadjipaschalis I., Poulikkas A., Efthimiou V., "Overview of current and future energy storage technologies for electric power applications", *Renewable and Sustainable Energy Reviews*, 13, 1513-1522 (2009).
- 2009b Poulikkas A., "A decouple optimization method for power technology selection in competitive markets", *Energy Sources*, Part B, 4, 199-211 (2009).
- 2009a Poulikkas A., Hadjipaschalis I., Christou C., "The cost of integration of zero emission power plants-A case study for the island of Cyprus", *Energy Policy*, 37, 669-679 (2009).
- 2008b Christou C., Hadjipaschalis I., Poulikkas A., "Assessment of Integrated Gasification Combined Cycle technology competitiveness", *Renewable and Sustainable Energy Reviews*, 12, 2452-2464 (2008).
- 2008a Hadjipaschalis I., Christou C., Poulikkas A., "Assessment of future sustainable power technologies with carbon capture and storage", *International Journal of Emerging Electric Power Systems*, 9/1, Art. 5 (2008).
- 2007 Poulikkas A., "Implementation of distributed generation technologies in isolated power systems", *Renewable and Sustainable Energy Reviews*, 11, 30-56 (2007).
- 2006c Poulikkas A., "Implementation of MAST gas turbine technologies for large scale power generation", *Energy Sources*, Part A, 28, 1433-1446 (2006).
- 2006b Poulikkas A., Karageorghis A., Georgiou G., "The method of fundamental solutions for three-dimensional elastostatics", *Parallel Processing and Applied Mathematics*, 2328, 747-755 (2006).
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## Invited lectures and seminars

- 2025a “The future of green hydrogen energy systems”, *Energy Storage and Hydrogen Solutions Conference*, British High Commission Nicosia & Ideopsis, Nicosia, Cyprus, 20 Mar 2025.
- 2024i “The role of hydrogen technology in energy storage”, *IET Cyprus Local Network*, Nicosia, Cyprus, 12 Nov 2024.
- 2024h “The future electricity systems towards climate neutrality”, *KIOS Distinguished Lecture in Memory of Prof. Elias Kyriakides*, University of Cyprus, Nicosia, Cyprus, 12 Nov 2024.
- 2024g “Energy transition for island systems: Challenges and Opportunities”, *14<sup>th</sup> Mediterranean Conference on Power Generation, Transmission, Distribution and Energy Conversion (MedPower 2024)*, Athens, Greece, 3-6 Nov 2024.
- 2024f “Future energy systems towards climate neutrality”, *7th Series of Lectures*, Cyprus Open University, Nicosia, Cyprus, 25 Sep 2024.
- 2024e “The role of energy storage technologies in zero-carbon energy systems”, *Workshop on Energy*

- Storage – The role of storage for decarbonizing the Eastern Mediterranean and Middle East*, Cyprus Institute, Nicosia, Cyprus, 25 Sep 2024.
- 2024d “Developing the Hydrogen value chain: Regulatory framework and investment potential in the East Med region”, *Harnessing the Potential for Clean Energy Cooperation in the East Med*, East Mediterranean Gas Forum (EMGF), Athens, Greece, 28 May 2024.
- 2024c “Long-term sustainable energy strategy: The role of policies and regulation”, *9th HAEE Energy Transition Symposium*, Hellenic Association of Energy Economics, Athens, Greece, 22–24 May 2024.
- 2024b “Energy transition: The role of H<sub>2</sub> for sustainable cities”, *2<sup>nd</sup> International Fair on Cycling Economy*, Hellenic Regulatory Energy Authority, Thessaloniki, Greece, 08 Mar 2024.
- 2024a “Characteristics of Cyprus’s electricity and natural gas systems”, *Institute of Environment & Sustainable Development*, Nicosia, Cyprus, 15 Jan 2024.
- 2023m “Creating the regulatory framework to grow the region’s resource development”, *Eastern Mediterranean Energy Conference & Exhibition (EMC)*, Limassol, Cyprus, 28–30 Nov 2023.
- 2023l “Energy security in an internationally unstable environment”, *Energy Security and Green Growth*, Hellenic Ministry of Energy, Athens, Greece, 27–29 Nov 2023.
- 2023k “Energy transition: Regulatory challenges in Cyprus energy sector”, *DHKO*, Nicosia, Cyprus, 25 Nov 2023.
- 2023j “Regulatory framework for the electricity and natural gas sectors in Cyprus”, *11<sup>th</sup> Energy Symposium*, Nicosia, Cyprus, 31 Oct 2023.
- 2023i “Energy transition towards hydrogen economy”, *7<sup>th</sup> International Conference on Renewable Energy Sources and Energy Efficiency (RESEE 2023)*, Nicosia, Cyprus, 12–14 Oct 2023.
- 2023h “Energy transition – Regulatory challenges for the completion of the electricity market in Cyprus”, *Cyprus Bar Association*, Nicosia, Cyprus, 4 Oct 2023.
- 2023g “Rethinking energy markets and regulation”, *8th HAEE Energy Transition Symposium*, Hellenic Association of Energy Economics, Athens, Greece, 27–29 Sep 2023.
- 2023f “Green H<sub>2</sub> strategies towards hydrogen economy”, *Green Hydrogen in Cyprus*, Cyprus Employers & Industrialists Federation, Nicosia, Cyprus, 15 Sep 2023.
- 2023e “Electricity Market: What lies ahead?”, *CyprusTalksGreen5: Charging ahead – The role of transportation and storage in a clean energy Future*, Nicosia, Cyprus, 29 Jun 2023.
- 2023d “H<sub>2</sub> strategies & H<sub>2</sub> competitiveness”, *Hydrogen & Green Gases Forum*, Athens, Greece, 23 Jun 2023.
- 2023c “Energy transition: International good practices and the Cyprus energy sector”, *Award Ceremony*, Frederick University, Nicosia, Cyprus, 15 May 2023.
- 2023b “Regulatory challenges towards energy transition”, *Green Transition and Entrepreneurship – Opportunities and Challenges towards a Sustainable Economy*, Cyprus Employers & Industrialists Federation, Nicosia, Cyprus, 07 Apr 2023.
- 2023a “Tackling the energy and climate crises: Striving for a cleaner Europe with energy security”, *2<sup>nd</sup> Conference of the University of Cyprus Model United Nations (UCYMUN)*, Nicosia, Cyprus, 01 Apr 2023.
- 2022j “Energy transition: Regulatory challenges in electricity and natural gas markets”, *10<sup>th</sup> Energy Symposium*, Nicosia, Cyprus, 17 Nov 2022.
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- 2022h “Towards climate neutral (H<sub>2</sub>) cities”, *86<sup>th</sup> Thessaloniki International Fair*, Hellenic Regulatory En-

ergy Authority, Thessaloniki, Greece, 12 Sep 2022.

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- 2022f “Towards sustainable energy future”, *EDS Summer University Conference: Repowering Europe, how to achieve EU energy independence through new emerging markets and green transition*, Nicosia, Cyprus, 28 July 2022.
- 2022e “The regulator views towards hydrogen economy”, Online Webinar: *Green Hydrogen & Ammonia Cyprus Hydrogen Association*, Nicosia, Cyprus, 26 July 2022.
- 2022d “The regulator view: The Cyprus future energy landscape”, 1<sup>st</sup> *Joint Workshop of the Cypriot and Greek Regulators on Energy Regulatory Affairs*, Larnaca, Cyprus, 29 Jun 2022.
- 2022c “Future sustainable power systems towards decarbonization”, *Renewable Energies & Holistic Solutions*, Nicosia, Cyprus, 19 Apr 2022.
- 2022b “Energy transition for island systems”, *Energy transition – Facing the challenges*, Cyprus Employers & Industrialists Federation, Nicosia, Cyprus, 18 Mar 2022.
- 2022a “Energy markets regulation and sustainable technologies integration”, *Energy transition – Energy storage and hydrogen technologies*, House of Representatives of the Republic of Cyprus, Nicosia, Cyprus, 14 Jan 2022.
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- 2020d “Energy regulatory regime towards 2050”, 8<sup>th</sup> *Energy Symposium*, Nicosia, Cyprus, 15 Dec 2020.
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- 2006d “Technological and economic prospects of electricity from wave and tidal energy, wind energy, biomass, solar thermal and photovoltaics”, *1st EURELECTRIC seminar on small/medium sized island electricity systems*, Limassol, 24 Oct 2006.
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- 2006a “Unit commitment modeling and approaches”, *Electricity Authority of Cyprus*, 28 Feb 2006.
- 2005f “Technical, economic and environmental analysis of future sustainable gas turbine technologies”, *IEE lecture series*, 8 Dec 2005.
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