

CURRICULUM VITAE

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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

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

## Appointments held

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 Poullikkas 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. Ascough, 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

Power plants • Renewable energy sources • Distributed generation • 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

## Honors & awards

2022b Included in the *World's Top 2% Scientists List 2022*, Stanford University

2022a Included in the *World's Top 100000 Researchers List 2022*, Stanford University

2020b Included in the *World's Top 2% Scientists List 2020*, Stanford University

2020a Included in the *World's Top 100000 Researchers List 2020*, Stanford University

2019c Recipient of *Plenary Speaker Award*, from European Forum on Clean Energy for Islands, Rhodes, Greece

2019b Recipient of *Outstanding Contribution as a Keynote Speaker Award*, from International Conference on Innovative Applied Energy (IAPE'19), Oxford, UK

- 2019a Recipient of *Best Plenary Speech Award*, from Global Summit on Power & Energy Engineering, Dubai, UAE
- 2018 Recipient of *Award of Excellence*, 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 *Certificate of Outstanding Contribution in Reviewing in Renewable and Sustainable Energy Reviews*, from Elsevier, in recognition of the contribution to the quality of the journal
- 2016b Recipient of *Certificate for Highly Cited Research in Sustainable Energy Technologies and Assessments*, from Elsevier, in recognition of the contribution to the quality of the journal
- 2016a Recipient of *Award of Academic Excellence*, from Cyprus University of Technology, in recognition of research, teaching and scholarly contribution to the Cyprus University of Technology
- 2014b Recipient of *Sharjah Islamic Bank Research Awards, 3<sup>rd</sup> Prize*, for the research work on “Prospective Scenarios for the Adoption of Sustainable Power Generation Technologies in United Arab Emirates”
- 2014a Recipient of *Award of Excellence*, from Electricity Authority of Cyprus, in recognition of scientific contribution to the international literature
- 2013 Recipient of *Award of Outstanding Performance and Lasting Contribution to the Mechanical Engineering Department of the American University of Sharjah*, from the American Society of Mechanical Engineers
- 2011 Recipient of *Award of Scientific Contribution*, from IET Cyprus Network, in recognition of scientific contribution to Cyprus and international literature
- 2010 Recipient of *Award of Excellence*, from Electricity Authority of Cyprus, in recognition of scientific contribution to Cyprus and international literature
- 2009 Recipient of *Award of Merit*, from Cyprus Association of Technical Engineers, in recognition of scientific contribution to Cyprus and international literature
- 2007 Recipient of *Award for Highly Cited Research in Renewable and Sustainable Reviews*, from Elsevier, in recognition of the contribution to the quality of the journal
- 1999 Grant recipient from European Union; to attend the course on *Sustainability assessment of water desalination technologies* 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 • Scien-

tific 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 (CA-CHET)*, 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 (MASTB 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

## Software development

- 2000-2006 IPP Algorithm v2.1, Software for power technology selection in competitive electricity markets (technical, economic and environmental analysis), ©2000-2006.
- 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.

## Journal Editor & Guest Editor

- 2021-present Associate Editor of the journal *Discover Energy* • URL: <http://www.springernature/>
- 2021-present Guest Editor of the journal *Electric Power Systems Research* • URL: <http://www.epsr/>
- 2013-present Associate Editor of the *Journal of Power Technologies* • URL: <http://www.jpt/>
- 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

- 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 5<sup>th</sup> *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 18<sup>th</sup> *Mediterranean Electrotechnical Conference (MELECON 2016)*, Nicosia, Cyprus, Apr 18-20 (2016).
- 2015 Chairman of a session, 19<sup>th</sup> *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 9<sup>th</sup> *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 • 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 • 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 • Nuclear Engineering and Design • Oil and Gas Science and Technology • Proceedings of the IEEE • Propulsion and Power Research • Renewable and Sustainable Energy Reviews • Sensors • Separation Science and Technology • Solar Energy • Sustainable Energy Technologies and Assessments • Technological Forecasting and Social Change • Utilities Policy

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)

SCIENTIFIC TECHNICAL CHAMBER OF CYPRUS

- 2010-2012 Analysis of solar power technologies (professional course)

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)

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

## Other academic activities

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

## Consulting

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

## Service to the profession

- 2018-present *ex-officio* Member of the *IET Cyprus section committee* • Appointment by the IET.
- 2015-present Member of the *Board of Regulators of the Agency for the Cooperation of Energy Regulators* • Appointment by the European Commission.
- 2006-present National Liaison Officer for matters related to the *WASP-IV computer code* • Appointment by the International Atomic Energy Agency (IAEA).
- 2000-present Member of the *Desalination Economic Evaluation Programme (DEEP) user group* • Appointment by the International Atomic Energy Agency (IAEA).
- 2010-2015 Chairman of the Working Group for *Strategic plan for the promotion of renewable energy sources in the Cyprus electricity generation system* • Appointment by the Council of Ministers of the Cyprus Government.
- 2008-2014 Vice Chairman of the *CIGRE National Committee of Cyprus*.
- 2011-2014 Member of the *Energy Working Group* • Appointment by the Cyprus Employers and Industrialists Federation.
- 2003-2014 Vice Chairman of the *Energy Policy Working Group* • Appointment by the Scientific Technical Chamber of Cyprus (ETEK).
- 2006-2014 Member of the *Research and Development Working Group* • Appointment by the European Union of the Electricity Industry (EURELECTRIC).
- 2011-2012 Coordinator of the *Pre-feasibility study for the introduction of a pump storage system* • Appointment by the Electricity Authority of Cyprus.
- 2009-2012 Advisor on technology issues of the *Solar Thermal Working Group* • Appointment by the Electricity Authority of Cyprus.
- 2010-2011 Coordinator of the *EAC RES-E strategic plan for the period 2011-2020 Working Group* • Appointment

- by the Electricity Authority of Cyprus.
- 2010b Coordinator of the *NER300 funding scheme for innovative RES technologies-A guide for EAC strategy Working Group* • Appointment by the Electricity Authority of Cyprus.
- 2010a Coordinator of the *EAC RES-E avoidance cost Working Group* • Appointment by the Electricity Authority of Cyprus.
- 2009-2010 Member of the *Generation System Optimization Working Group* • Appointment by the Electricity Authority of Cyprus.
- 2008-2010 Member of the *Desalination Working Group* • Appointment by the Electricity Authority of Cyprus.
- 2007-2009 Member of the *European Technology Platform on Zero Emission Fossil Fuel Power Plants (ETP ZEP)-Taskforce Policy and Regulation* • Appointment by the European Commission.
- 2000-2009 Member of the *Environmental Protection Working Group* • Appointment by the European Union of the Electricity Industry (EURELECTRIC).
- 2007-2008 Member of the *3rd Energy Package Working Group* • Appointment by the Electricity Authority of Cyprus.
- 2007c Member of the *EAC market rules Working Group* • Appointment by the Electricity Authority of Cyprus.
- 2007b Member of the *EAC natural gas generation cost Working Group* • Appointment by the Electricity Authority of Cyprus.
- 2007a Member of the *EAC competition strategy Working Group* • Appointment by the Electricity Authority of Cyprus.
- 2006-2007 Coordinator of the *Evaluation of the power optimization generator and contract scheduling (Power-Op) software Working Group* • Appointment by the Electricity Authority of Cyprus.
- 2006b Member of the *Power system optimization Working Group* • Appointment by the Electricity Authority of Cyprus.
- 2006a Member of the *EAC cooperation with independent power producers Working Group* • Appointment by the Electricity Authority of Cyprus.
- 2005-2006 Member of the *Liquefied natural gas Working Group* • Appointment by the Electricity Authority of Cyprus.
- 2004-2006 Member of the *Generation strategic planning Working Group* • Appointment by the Electricity Authority of Cyprus.
- 2004-2006 Cyprus Delegate to the *European Commission for research and technological development activities in the field of energy* • Appointment by the Planning Bureau of the Cyprus Government.
- 2004-2005 Member of the *Ancillary Services Working Group* • Appointment by the Electricity Authority of Cyprus.
- 2004-2005 Member of the *HFO reserves Working Group* • Appointment by the Electricity Authority of Cyprus.
- 2003-2005 Member of the *National Plan for Energy Management Working Group* • Appointment by the Scientific Technical Chamber of Cyprus (ETEK).
- 2003-2005 Member of the *Mechanical Engineering Membership Applications Review Panel* • Appointment by the Scientific Technical Chamber of Cyprus (ETEK).
- 2000-2005 Vice Chairman of the *Research Working Group* • Appointment by the Scientific Technical Chamber of Cyprus (ETEK).
- 2003-2004 Member of the *Environmental Protection Committee* • Appointment by the Scientific Technical Chamber of Cyprus (ETEK).

- 2000-2002 Member of the *Harmonization with EU Legislation Working Group* • Appointment by the Scientific Technical Chamber of Cyprus (ETEK).
- 1999-2002 Member of the *EU Environmental Legislation Working Group* • Appointment by the Electricity Authority of Cyprus.
- 2000-2001 Member of the *Desalination Working Group* • Appointment by the Electricity Authority of Cyprus.
- 1999-2000 Member of the *EU Research Sources for Funding Working Group* • Appointment by the Electricity Authority of Cyprus.
- 1999b Member of the *EU Stranded Costs Working Group* • Appointment by the Electricity Authority of Cyprus.
- 1999a Member of the *EAC Spinning Reserve Policy Working Group* • Appointment by the Electricity Authority of Cyprus.
- 1998-1999 Member of the *Generation System Optimization Working Group* • Appointment by the Electricity Authority of Cyprus.
- 1998-1999 Member of the *Emissions Reduction Working Group* • 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).

# PUBLICATIONS & TALKS

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## 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

- 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).
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- 2021d Nicolaidis P., Poulikkas 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 Poulikkas 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., Hatziargyriou N.D., Poullikkas 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 Poullikkas 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., Poullikkas A., “An overview of load demand and price forecasting methodologies”, *International Journal of Energy and Environment*, 2, 123–150 (2011).
- 2010d Poullikkas 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

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- 2010c Poullikkas A., "An optimization model for the production of desalinated water using photovoltaic systems", *Desalination*, 258, 100-105 (2010).
- 2010b Poullikkas A., "Technology and market future prospects of photovoltaic systems", *International Journal of Energy and Environment*, 1, 617-634 (2010).
- 2010a Poullikkas 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., Poullikkas A., "Assessment of oxyfuel power generation technologies", *Renewable and Sustainable Energy Reviews*, 13, 2637-2644 (2009).
- 2009e Poullikkas 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 Poullikkas 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., Poullikkas 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 Poullikkas A., "A decouple optimization method for power technology selection in competitive markets", *Energy Sources, Part B*, 4, 199-211 (2009).
- 2009a Poullikkas 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., Poullikkas A., "Assessment of Integrated Gasification Combined Cycle technology competitiveness", *Renewable and Sustainable Energy Reviews*, 12, 2452-2464 (2008).
- 2008a Hadjipaschalis I., Christou C., Poullikkas 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 Poullikkas A., "Implementation of distributed generation technologies in isolated power systems", *Renewable and Sustainable Energy Reviews*, 11, 30-56 (2007).
- 2006c Poullikkas A., "Implementation of MAST gas turbine technologies for large scale power generation", *Energy Sources, Part A*, 28, 1433-1446 (2006).
- 2006b Poullikkas A., Karageorghis A., Georgiou G., "The method of fundamental solutions for three-dimensional elastostatics", *Parallel Processing and Applied Mathematics*, 2328, 747-755 (2006).
- 2006a Karageorghis A., Poullikkas A., Berger J.R., "Stress intensity factor computation using the method of fundamental solutions", *Computational Mechanics*, 37, 445-454 (2006).
- 2005c Poullikkas A., "Operating cost and water economy of mixed air steam turbines", *Applied Thermal Engineering*, 25, 1949-1960 (2005).
- 2005b Poullikkas A., "An overview of current and future sustainable gas turbine technologies", *Renewable and Sustainable Energy Reviews*, 9, 409-443 (2005).
- 2005a Poullikkas A., "Technical and economic analysis for the integration of small reverse osmosis desalination plants into MAST gas turbine cycles for power generation", *Desalination*, 172, 145-150 (2005).
- 2004c Poullikkas A., Kellas A., "The use of sustainable combined cycle technologies in Cyprus: A case study for the use of LOTHECO cycle", *Renewable and Sustainable Energy Reviews*, 8, 521-544 (2004).

- 2004b Poullikkas A., “Parametric study for the penetration of combined cycle technologies into Cyprus power system”, *Applied Thermal Engineering*, 24, 1675-1685 (2004).
- 2004a Poullikkas A., “Cost-benefit analysis for the use of additives in heavy fuel oil fired boilers”, *Energy Conversion and Management*, 45, 1725-1734 (2004).
- 2003 Poullikkas A., “Effects of two-phase liquid-gas flow on the performance of nuclear reactor cooling pumps”, *Progress in Nuclear Energy*, 42, 3-10 (2003).
- 2002 Poullikkas A., Karageorghis A., Georgiou G., “The method of fundamental solutions for three-dimensional elastostatics problems”, *Computers and Structures*, 80, 365-370 (2002).
- 2001c Poullikkas A., “A technology selection algorithm for independent power producers”, *The Electricity Journal*, 14/6, 80-84 (2001).
- 2001b Poullikkas A., Karageorghis A., Georgiou G., “The numerical solution of three dimensional Signorini problems with the method of fundamental solutions”, *Engineering Analysis with Boundary Elements*, 25/3, 221-227 (2001).
- 2001a Poullikkas A., “Optimization algorithm for reverse osmosis desalination economics”, *Desalination*, 133, 75-81 (2001).
- 2000 Poullikkas A., “Two phase flow performance of nuclear reactor cooling pumps”, *Progress in Nuclear Energy*, 36, 123-130 (2000).
- 1999b Poullikkas A., “Compressibility and condensation effects when pumping gas-liquid mixtures”, *Fluid Dynamics Research*, 25, 57-62 (1999).
- 1999a Poullikkas A., Karageorghis A., Georgiou G., “The numerical solution of three dimensional Signorini problems”, *International Series on Advances in Boundary Elements*, 6, 729-738 (1999).
- 1998d Poullikkas A., Karageorghis A., Georgiou G., Ascough J., “The method of fundamental solutions for Stokes flows with a free surface”, *Numerical Methods for Partial Differential Equations*, 14, 667-678 (1998).
- 1998c Poullikkas A., Karageorghis A., Georgiou G., “The method of fundamental solutions for inhomogeneous elliptic problems”, *Computational Mechanics*, 22, 100-107 (1998).
- 1998b Poullikkas A., Karageorghis A., Georgiou G., “Methods of fundamental solutions for harmonic and biharmonic boundary value problems”, *Computational Mechanics*, 21, 416-423 (1998).
- 1998a Poullikkas A., Karageorghis A., Georgiou G., “The method of fundamental solutions for Signorini problems”, *IMA Journal of Numerical Analysis*, 18, 273-285 (1998).
- 1997 Georgiou G.C., Boudouvis A., Poullikkas A., “Comparison of two methods for the computation of singular solutions in elliptic problems”, *Journal of Computational and Applied Mathematics*, 79, 277-287 (1997).
- 1995 Poullikkas A., “Surface roughness effects on induced flow and frictional resistance of enclosed rotating discs”, *ASME Journal of Fluids Engineering*, 117, 526-528 (1995).

## Book chapters

- 2023 Nikolaidis P., Poullikkas A., “Power-to-hydrogen concepts for 100% renewable sustainable energy systems”, Chapter 19 in *Hydrogen Economy*, Academic Press, ISBN 978-0-323-99514-6, 595-627 (2023).
- 2021 Poullikkas A., “Toward Hydrogen Economy – The Energy Transition of Cyprus”, Chapter 10 in *Sustainable Engineering Technologies and Architectures*, AIP Publishing, ISBN 978-0-7354-2400-5, 10-1-10-16 (2020).

- 2020 Nikolaidis P., Poullikkas A., “Sustainable services to enhance flexibility in the upcoming smart grids”, Chapter 12 in *Sustaining Resources for Tomorrow*, Springer Nature, ISBN 978-3-030-27675-1, 245-274 (2020).
- 2019b Poullikkas A., “Cyprus’s challenges in the new energy era”, Chapter 3 in *Greece – Cyprus in New Energy Era*, IENE, ISBN 978-9-60999-403-3, 26-33 (2019).
- 2019a Nikolaidis P., Poullikkas A., “Secondary battery technologies: A static potential for power”, Chapter 9 in *Energy Generation and Efficiency Technologies for Green Residential Buildings*, The Institution of Engineering and Technology, ISBN 978-1-78561-948-9, 191-208 (2019).
- 2015 Poullikkas A., “The cost of large scale integration of sustainable power generation technologies in United Arab Emirates”, *Recent Advances in Environmental and Earth Sciences and Economics*, ISBN: 978-1-61804-324-5, 202-207 (2015).
- 2014 Poullikkas A., “Modelling of advanced promotion mechanisms for solar technologies : Net-metering and capacity auctioning schemes”, Chapter 6 in *Solar Power: Technologies, Environmental Impacts and Future Prospects*, NOVA Science Publishers, Inc., New York, ISBN: 978-1-63321-318-0 (2014).
- 2013 Fokaides P., Poullikkas A., Christofides C., “Lost in the National Labyrinths of Bureaucracy: The Case of Renewable Energy Governance in Cyprus”, Chapter 10 in *Lecture Notes in Energy*, Volume 57, Renewable Energy Governance, Springer-Verlag, London, ISBN: 978-1-4471-5594-2, Ebook ISBN: 978-1-4471-5594-9 (2013).
- 2011 Poullikkas A., “Development of energy strategies and policies”, Chapter 21 in *Denmark-Cyprus*, En Tipsis, Nicosia, ISBN 978-9963-691-71-5 (2011).
- 2008b Poullikkas A., “Optimization procedures for the selection of reverse osmosis desalination plants”, Chapter 16 in *Desalination Research Progress*, NOVA Science Publishers, Inc., New York, ISBN: 978-1-60456-567-6, 449-478 (2008).
- 2008a Poullikkas A., “Performance of nuclear reactor cooling pumps under two phase liquid-gas flow conditions”, Chapter 6 in *Nuclear Energy Research Progress*, NOVA Science Publishers, Inc., New York, ISBN: 978-1-60456-365-8, 175-194 (2008).

## Thesis

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- 1997 Poullikkas A., *The Method of Fundamental Solutions for the solution of elliptic boundary value problems*, PhD Thesis, Loughborough University (1997).
- 1992 Poullikkas A., *Two-phase flow and cavitation in centrifugal pumps*, MPhil Thesis, Loughborough University of Technology (1992).
- 1991 Poullikkas A., *Disk friction study*, BENG Dissertation, Loughborough University of Technology (1991).

## Manuals

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- 2004b Poullikkas A., “CAPSE algorithm, Optimization software for the short term calculation of electricity unit cost from power systems”, *User Manual*, ©2002-2004.
- 2004a Poullikkas A., “CAROC algorithm, Optimization software for the calculation of water unit cost

from reverse osmosis desalination plants”, *User Manual*, ©1999-2004.

## Publications in conference proceedings

- 2022 Dratsas P., Psarros G., Papathanasiou S., Evagorou D., Frixou A., Poullikkas A., “Mid-term electricity storage needs of the power system of Cyprus”, *Proceedings of CIGRE Session 2022*, C1/PS2, 10380 (2022).
- 2021 Nikolaidis P.N., Fotiou S., Kasparis T., Poullikkas A., “Dynamic analysis of high-response storage systems to minimize the generation ramping requirements”, *Proceedings of the 12<sup>th</sup> Mediterranean Conference on Power Generation, Transmission, Distribution and Energy Conversion (MedPower 2020)*, IET Conference Publications (2021).
- 2016 Spanias C.A., Nikolaidis P.N., Lestas I.C., Poullikkas A., “Techno-economic analysis of the potential conversion of outdated Moni power plant to a large scale research facility”, *Proceedings of the 5th International Conference on Renewable Energy and Sources and Energy Efficiency* (2016).
- 2015 Poullikkas A., “The cost of large scale integration of sustainable power generation technologies in United Arab Emirates”, *Proceedings of the 19th International Conference on Circuits, Systems, Communications and Computers*, IEEE Conference Proceedings (2015).
- 2014c Poullikkas A., “Assessment of capacity auctioning mechanism for solar photovoltaic systems”, *Proceedings of the 9th Mediterranean Conference and Exhibition on Power Generation, Transmission, Distribution and Energy Conversion*, IET Conference Publications (2014).
- 2014b Poullikkas A., “The cost of integration of sustainable power generation technologies in the United Arab Emirates”, *Proceedings of the Second International Conference on Sustainable Systems and the Environment* (2014).
- 2013a Poullikkas A., Papadouris S., Kourtis G., Hadjipaschalis I., “Storage solutions for power quality problems of the distribution network”, *Proceedings of the 2nd Conference on Power Options for the Mediterranean Region* (2013).
- 2013d Poullikkas A., Kourtis G., Hadjipaschalis I., “Cost-benefit analysis for the installation of cogeneration CSP technology in Cyprus”, *Proceedings of the 2nd Conference on Power Options for the Mediterranean Region* (2013).
- 2013c Babu B.S., Orhan M., Poullikkas A., “Mitigation of Environmental Impact via an Integrated Hydrogen production system based on solar and nuclear energy sources in U.A.E.”, *Proceedings of the 4th International Conference on Renewable Energy and Sources and Energy Efficiency* (2013).
- 2013b Poullikkas A., Kourtis G., Hadjipaschalis I., “Comparative assessment of a large-scale cogeneration CSP system in Cyprus”, *Proceedings of the 4th International Conference on Renewable Energy and Sources and Energy Efficiency* (2013).
- 2013a Poullikkas A., Rouvas C., Kourtis G., Hadjipaschalis I., “Selection of optimum steam turbines parameters for CSP plants”, *Proceedings of the 4th International Conference on Renewable Energy and Sources and Energy Efficiency* (2013).
- 2012e Poullikkas A., Hadjipaschalis I., Kourtis G., “Comparative assessment of an innovative dry-cooled CSP system”, *Proceedings of the 1st Conference on Power Options for the Mediterranean Region* (2012).
- 2012d Poullikkas A., Kourtis G., Hadjipaschalis I., “Up-scaling of an innovative cogeneration CSP system”, *Proceedings of the 1st Conference on Power Options for the Mediterranean Region* (2012).
- 2012c Zachariades T., Poullikkas A., “Assessing the costs of power outages in a modern economy: A case study from Cyprus”, *Proceedings of the 1st Conference on Power Options for the Mediterranean Region* (2012).

- 2012b Varnavas C., Poullikkas A., “A measure of capacity contribution of static mono-Si photovoltaic systems”, *Proceedings of the 1st Conference on Power Options for the Mediterranean Region* (2012).
- 2012a Poullikkas A., Grimes R., Walsh E., Hadjipaschalis I., Kourtis G., “Optimization analysis of innovative modular air-cooled condensers for CSP plants”, *Proceedings of the 8th Mediterranean Conference and Exhibition on Power Generation, Transmission, Distribution and Energy Conversion*, IET Conference Publications (2012).
- 2011c Poullikkas A., Hadjipaschalis I., Kourtis G., “Techno-economic evaluation for a concentrated photovoltaic park in Cyprus”, *Proceedings of the 3rd International Conference on Renewable Energy and Sources and Energy Efficiency* (2011).
- 2011b Poullikkas A., Kourtis G., Hadjipaschalis I., “An overview of CSP cooling systems”, *Proceedings of the 3rd International Conference on Renewable Energy and Sources and Energy Efficiency* (2011).
- 2011a Poullikkas A., “An optimization model for the integration of renewable technologies in power generation systems”, *Proceedings of the World Renewable Energy Congress 2011* (2011).
- 2010c Poullikkas A., Kourtis G., Hadjipaschalis I., “Parametric comparative study for the installation of solar dish technologies in Cyprus”, *Proceedings of the 7th Mediterranean Conference and Exhibition on Power Generation, Transmission, Distribution and Energy Conversion*, IET Conference Publications (2010).
- 2010b Poullikkas A., Hadjipaschalis I., Kourtis G., “Techno-economic analysis of CSP plants for isolated Mediterranean power systems”, *Proceedings of the 7th Mediterranean Conference and Exhibition on Power Generation, Transmission, Distribution and Energy Conversion*, IET Conference Publications (2010).
- 2010a Hatziargyriou N., Tsikalakis A., Karfopoulos E., Tomtsi T., Karagiorgis G., Christodoulou C., Poullikkas A., “Evaluation of virtual power plant (VPP) operation based on actual measurements”, *Proceedings of the 7th Mediterranean Conference and Exhibition on Power Generation, Transmission, Distribution and Energy Conversion*, IET Conference Publications (2010).
- 2009h Kourtis G., Poullikkas A., Hadjipaschalis I., “Feasibility analysis for the installation of photovoltaic parks in Cyprus”, *Proceedings of the Conference on the promotion of Distributed Renewable Energy Sources in the Mediterranean region* (2009).
- 2009g Poullikkas A., Hadjipaschalis I., Kourtis G., “Assessment of power generation using parabolic trough solar thermal technology in Cyprus”, *Proceedings of the Conference on the promotion of Distributed Renewable Energy Sources in the Mediterranean region* (2009).
- 2009f Poullikkas A., Tsikalakis A., Hatziargyriou N., “Economic evaluation of low Photovoltaics (PV) penetration in island power systems, application to Cyprus”, *Proceedings of the Conference on the promotion of Distributed Renewable Energy Sources in the Mediterranean region* (2009).
- 2009e Christodoulou C.N., Karagiorgis G.N., Poullikkas A., Karagiorgis N., “Green Hydrogen Production, Purification and Storage from Renewable Energy Sources (RES) with the use of a Stand-Alone PV/Wind system”, *Proceedings of the Conference on the promotion of Distributed Renewable Energy Sources in the Mediterranean region* (2009).
- 2009d Poullikkas A., Hadjipaschalis Y., Efthimiou V., “Storage technologies for electric power applications”, *Proceedings of the Renewable Energy Sources and Energy Efficiency* (2009).
- 2009c Poullikkas A., Hadjipaschalis Y., Kourtis G., “Assessment of power generation using large scale photovoltaic technologies in Cyprus”, *Proceedings of the Renewable Energy Sources and Energy Efficiency* (2009).
- 2009b Poullikkas A., “Parametric cost-benefit analysis for the production of desalinated water using photovoltaics”, *Proceedings of the 9th Conference on alternative energy sources* (2009).
- 2009a Christodoulou C.N., Karagiorgis G.N., Poullikkas A., Karagiorgis N., “Green hydrogen production

- from renewable energy sources”, *Proceedings of the 9th Conference on alternative energy sources* (2009).
- 2008f Poullikkas A., Hadjipaschalis I., “Assessment of future sustainable natural gas combined cycle technologies”, *Proceedings of the 6th Mediterranean Conference on Power Generation, Transmission and Distribution* (2008).
- 2008e Menicou M., Christodoulou C., Karagiorgis G., Poullikkas A., “A Sustainable Green Hydrogen Production and Usage Cycle from Solar Thermal and PV Technologies”, *Proceedings of the International Conference on Deregulated Electricity Market Issues in South-Eastern Europe (DEMSEE2008)*, Paper ref No: 150 (2008).
- 2008d Hadjipaschalis I., Kourtis G., Poullikkas A., “A cost-benefit analysis on the use of oxyfuel combustion power plants”, *Proceedings of the International Conference on Deregulated Electricity Market Issues in South-Eastern Europe (DEMSEE2008)*, Paper ref No: 124 (2008).
- 2008c Hadjipaschalis I., Christou C., Poullikkas A., “Assessment of zero emission power plants using a decoupled optimization method”, *Proceedings of the International Conference on Deregulated Electricity Market Issues in South-Eastern Europe (DEMSEE2008)*, Paper ref No: 123 (2008).
- 2008b Giakoumelos E., Malamatenios C., Hadjipaschalis I., Kourtis G., Poullikkas A., “Energy policy development for the promotion of distributed generation technologies in the Mediterranean region”, *Proceedings of the International Conference on Deregulated Electricity Market Issues in South-Eastern Europe (DEMSEE2008)*, Paper ref No: 122 (2008).
- 2008a Christodoulou C.N., Karagiorgis G.N., Poullikkas A., Karagiorgis N., “Renewable Energy Sources (RES) electricity storage in the form of “green” hydrogen”, *Proceedings of the International Conference on Deregulated Electricity Market Issues in South-Eastern Europe (DEMSEE2008)*, Paper ref No: 116 (2008).
- 2007g Kouyialis N., Poullikkas A., “Assessment of future sustainable natural gas combined cycle technologies”, *Proceedings of the 16th International Electrotechnical and Computer Science Conference* (2007).
- 2007f Christou C., Hadjipaschalis I., Poullikkas A., “Promotion of renewable distributed generation technologies in the Mediterranean region - The DISTRES project”, *Proceedings of the Renewable Energy Sources and Energy Efficiency* (2007).
- 2007e Tsikalakis A., Hatziargyriou N., Poullikkas A., “Impact of wind power installations on the operation of the Cyprus power system using probabilistic analysis”, *Proceedings of the Renewable Energy Sources and Energy Efficiency* (2007).
- 2007d Christodoulou C., Karagiorgis G., Poullikkas A., Karagiorgis N., Hadjiargyriou N., “Green electricity production by a grid-connected H<sub>2</sub>/fuel cell in Cyprus”, *Proceedings of the Renewable Energy Sources and Energy Efficiency* (2007).
- 2007c Hadjipaschalis I., Christou C., Poullikkas A., “A case study for the use of HYPOGEN plants in the European Union future power system”, *Proceedings of the Renewable Energy Sources and Energy Efficiency* (2007).
- 2007b Poullikkas A., “Technological developments in renewable energy sources and the role of the Electricity Authority of Cyprus”, *Proceedings of the Renewable Energy Sources and Energy Efficiency* (2007).
- 2007a Christou C., Hadjipaschalis I., Poullikkas A., “Parametric cost-benefit analysis of Integrated Gasification Combined Cycle technology”, *Proceedings of the Third International Conference on Clean Coal Technologies for our Future*, International Energy Agency (2007).
- 2006b Poullikkas A., “A decoupled optimization method for power technology selection in competitive electricity markets”, *Proceedings of the 5th Mediterranean Conference on Power Generation, Trans-*



- mission and Distribution* (2006).
- 2006a Poullikkas A., “A cost-benefit analysis for large scale implementation of MAST gas turbine technologies”, *Proceedings of 3rd International Conference on the future of gas turbine technology*, Paper ID Number S3 T1 / 2 Poullikkas (2006).
- 2005c Lymberopoulos N., Varkaraki E., Zoulias E.I., Kalyvas E., Christodoulou C., Karageorgis G.N., Stolzenburg K., Poullikkas A., “Hydrogen: an alternative product for wind park developers”, *Proceedings of International Hydrogen Energy Congress* (2005).
- 2005b Poullikkas A., “The development of Cyprus electricity industry and prospects for the improvements of its environmental indicators”, *Proceedings of the International Conference on Management, Policy and Environmental Technology* (2005).
- 2005a Poullikkas A., “A parametric cost-benefit analysis for the use of distributed generation technologies in the island of Cyprus”, *Proceedings of CIGRE Symposium on Power Systems with Disperse Generation* (2005).
- 2004g Poullikkas A., “A cost - benefit analysis of water consumption in mixed air steam turbine technologies”, *Proceedings of the 4rd Mediterranean Conference on Power Generation, Transmission, Distribution and Energy Conversion* (2004).
- 2004f Lymberopoulos N., Zoulias E.I., Varkaraki E., Kalyvas E., Christodoulou C., Karageorgis G.N., Stolzenburg K., Poullikkas A., “Hydrogen as an alternative product for wind park developers”, *Proceedings of the 4rd Mediterranean Conference on Power Generation, Transmission, Distribution and Energy Conversion* (2004).
- 2004e Christodoulou C., Karagiorgis G., Menikou M., Karagiorgis N., Poullikkas A., “Metal Hydrides and Hydrogen Storage Systems: On-going activities in the island of Cyprus”, *Proceedings of the Workshop on Mapping European Knowledge on Hydrogen Storage* (2004).
- 2004d Christodoulou C., Karageorgis G.N., Menikou M., Karageorgis N., Poullikkas A., Lymberopoulos N., Zoulias E.I., Varkaraki E., Bozukov L., “Hydrogen storage in LaNi<sub>5</sub> metallic hydrates”, *Proceedings of the 1st National Conference on Hydrogen Technologies* (2004).
- 2004c Christodoulou C., Karagiorgis G., Menikou M., Karagiorgis N., Poullikkas A., “Green hydrogen production, storage and H<sub>2</sub>/fuel cell electricity production: On going projects in the island of Cyprus”, *Proceedings of International Conference RES for islands* (2004).
- 2004b Kakaras E., Leithner R., Doukelis A., Giannakopoulos D., Koumanakos A., Aronis N., Poullikkas A., “CO<sub>2</sub> sequestration of the combined cycle power plant with integrated low temperature heat”, *Proceedings of the Second International Conference on Industrial Gas Turbine Technologies* (2004).
- 2004a Poullikkas A., “A review of current and future gas turbine technologies”, *Proceedings of the Second International Conference on Industrial Gas Turbine Technologies* (2004).
- 2003 Poullikkas A., “Parametric study for the penetration of combined cycle technologies into Cyprus power system”, *Proceedings of the First International Conference on Industrial Gas Turbine Technologies* (2003).
- 2002 Kellas A., Poullikkas A., “Cyprus future generation system”, *Proceedings of the 3rd Mediterranean Conference on Power Generation, Transmission, Distribution and Energy Conversion* (2002).
- 2000b Poullikkas A., Karageorghis A., Georgiou G., “The method of fundamental solutions in three-dimensional elastostatics”, *Proceedings of the 4th International Conference on Parallel Processing and Applied Mathematics*, LNCS 2328, 747-755 (2002).
- 2000a Poullikkas A., “Effects of entrained air on the performance of nuclear reactor cooling pumps”, *Proceedings of the 10th Mediterranean Electrotechnical Conference*, 3, 1028-1031 (2000).
- 1999c Poullikkas A., Karageorghis A., Georgiou G., “The method of fundamental solutions for three-

- dimensional Signorini problems”, *Boundary Elements XXI, Proceedings of the 21st World Conference on the Boundary Element Method*, WIT Press, C.A. Brebia and H. Power (Eds.), 729-738 (1999).
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- 1999a Poullikkas A., Karageorghis A., Georgiou G., “The method of fundamental solutions for three-dimensional Signorini problems”, *Proceedings of the 13th International Conference on Boundary Element Technology*, Las Vegas, USA, June 8-10 (1999).
- 1998 Poullikkas A., “Two phase flow pump modeling for nuclear power safety analysis”, *Proceedings of the 1st Mediterranean Conference on Power Generation, Transmission and Distribution* (1998).
- 1997 Poullikkas A., Karageorghis A., Georgiou G., “The method of fundamental solutions for free surface flow problems”, *Fundamental Solutions in Boundary Elements: Formulation and Integration*, F.G. Benitez (Ed.), 253-263 (1997).
- 1996 Poullikkas A., Karageorghis A., Georgiou G., “The method of fundamental solutions for the solution of elliptic problems”, *Proceedings of the 2nd Greek National Congress on Computational Mechanics*, D.A. Sotiropoulos and D.E. Beskos (Eds.), 866-873 (1996).
- 1995 Georgiou G.C., Poullikkas A., Crochet M., “On the stability of the shear flow of an Oldroyd-B fluid with non-linear slip along the fixed wall”, *Proceedings of the 4th Greek National Congress on Mechanics*, Vol. II, P.S. Theocaris and E.E. Gdoutos (Eds.), 793-800 (1995).

## Invited lectures and seminars

- 2022h “Energy transition: Regulatory challenges in electricity and natural gas markets”, *10<sup>th</sup> Energy Symposium*, Nicosia, Cyprus, 17 Nov 2022.
- 2022g “Optimum strategies for hydrogen economy”, *9<sup>th</sup> International Conference on Energy, Sustainability and Climate Crisis (ESCC2022)*, Paphos, Cyprus, 29 Aug–2 Sep 2022.
- 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.
- 2021k “Fit-for-55 and the challenges for European Energy policy”, *25<sup>th</sup> National Energy Conference*, Athens, Greece, 1–2 Dec 2021.
- 2021j “The Regulator view: The Cyprus future energy landscape”, *Eastern Mediterranean Conference & Exhibition (EMC)*, Nicosia, Cyprus, 10–12 Nov 2021.
- 2021i “Cyprus Energy Regulatory Authority strategy towards 2030”, *9<sup>th</sup> Energy Symposium*, Nicosia,

- Cyprus, 4 Nov 2021.
- 2021h “Energy transition for island systems”, *1<sup>st</sup> Regulators’ Meeting*, Southern Regulators’ Informal Group (SRIG), Athens, Greece, 20 Oct 2021.
- 2021g “Energy transition towards carbon neutral energy systems”, *The Mediterranean Forum 2021*, Athens, Greece, 19 Oct 2021.
- 2021f “Energy transition regulatory challenges”, *6<sup>th</sup> Energy Transition Symposium of the Hellenic Association for Energy Economics*, Athens, Greece, 28 Sep–1 Oct 2021.
- 2021e “Challenges towards carbon neutral energy systems”, *85<sup>th</sup> Thessaloniki International Fair*, Hellenic Regulatory Energy Authority, Thessaloniki, Greece, 15 Sep 2021.
- 2021d “Energy strategies towards hydrogen economy”, *Webinar: Green hydrogen and its applications*, Pontifical Catholic University of Peru, Lima, Peru, 13 Sep 2021.
- 2021c “Towards carbon neutral energy systems”, *All Things Energy Forum*, Athens, Greece, 2–4 Jun 2021.
- 2021b “Long-term energy strategy for Cyprus”, *Top Kinisis Virtual Discussions*, Nicosia, Cyprus, 19 Jan 2021.
- 2021a “Cyprus’ strategies towards hydrogen economy”, *Institute of Alternative Policies ENA*, Athens, Greece, 18 Jan 2021.
- 2020e “Cyprus’ strategies towards decarbonization”, *2<sup>nd</sup> CSP4Climate International Conference*, Nicosia, Cyprus, 15–17 Dec 2020.
- 2020d “Energy regulatory regime towards 2050”, *8<sup>th</sup> Energy Symposium*, Nicosia, Cyprus, 15 Dec 2020.
- 2020c “Sustainable Cyprus 2050” *12<sup>th</sup> Mediterranean Conference on Power Generation, Transmission, Distribution and Energy Conversion (MedPower 2020)*, Paphos, Cyprus, Nov 9–12 (2020).
- 2020b “Energy transition towards 2050”, *Sustaining Tomorrow 2020 Symposium and Industry Summit*, University of Windsor, Windsor, Ontario, Canada, 18–19 Jun 2020.
- 2020a “Future challenges for SE Mediterranean region natural gas reserves”, *Athens Energy Dialogues 2020*, Athens, Greece, 23–24 Jan 2020.
- 2019k “Challenges and strategies for electricity and natural gas markets”, *7<sup>th</sup> Energy Symposium*, Nicosia, Cyprus, 5 Dec 2019.
- 2019j “Regulation of electricity and natural gas markets in Cyprus”, *IET lecture series*, Nicosia, Cyprus, 26 Nov 2019.
- 2019i “The Cyprus Energy System: Long-term Transformation and SE Mediterranean Cooperation”, *KAS-AIES Round-table Conference: A Mediterranean Energy Hub and the Commercialization of Energy Resources in Cyprus: Challenges and Opportunities*, Austrian Institute for European and Security Policy (AIES), Vienna, Austria, 29–31 Oct 2019.
- 2019h “Strategies towards clean energy for islands”, *European Forum on Clean Energy for Islands*, Rhodes, Greece, 3–4 Oct 2019.
- 2019g “Large Scale Integration of Renewable Energy Systems into Electricity Markets”, *6<sup>th</sup> International Conference on Energy, Sustainability and Climate Change (ESCC2019)*, Crete, Greece, 3–7 Jun 2019.
- 2019f “Future technologies for sustainable energy systems”, *4<sup>th</sup> Annual Symposium of the Hellenic Association for Energy Economics*, Athens, Greece, 6–8 May 2019.
- 2019e “Energy challenges towards 2050 – The case of Cyprus”, *Cyprus Branch of the I.C.E. and the I.Mech.E. of U.K.*, Nicosia, Cyprus, 20 Mar 2019.
- 2019d “Development of future sustainable energy systems and strategies towards 2050”, *International Conference on Innovative Applied Energy (IAPE’19)*, Oxford, UK, 14–15 Mar 2019.

- 2019c “Future Sustainable Energy Systems Towards 2050”, *Global Summit on Power & Energy Engineering*, Dubai, UAE, 18–20 Feb 2019.
- 2019b “Exploiting energy resources to enhance cooperation and prosperity in the Southeast Mediterranean region”, *1<sup>st</sup> Tripartite Meeting of the Presidents of the Parliaments of Cyprus, Greece, Egypt*, Nicosia, Cyprus, 11 Feb 2019.
- 2019a “Natural gas strategies for sustainable energy systems”, *The New York Times Athens Energy Forum 2019*, Athens, Greece, 28–29 Jan 2019.
- 2018j “Natural gas challenges towards sustainable energy systems”, *6<sup>th</sup> Energy Symposium*, Nicosia, Cyprus, 4 Dec 2018.
- 2018i “Large scale integration of renewable energy systems into electricity market”, *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.
- 2018h “Energy regulatory challenges towards 2050”, *Nicosia Risk Forum 2018*, Nicosia, Cyprus, 14 Nov 2018.
- 2018g “Development of energy strategies for sustainable future”, *6<sup>th</sup> International Conference on Renewable Energy Sources and Energy Efficiency – New Challenges (RESEE 2018)*, Nicosia, Cyprus, 1–2 Nov 2018.
- 2018f “Moving towards new energy era”, *5<sup>th</sup> International Conference on Energy, Sustainability and Climate Change (ESCC2018)*, Mykonos, Greece, 4–6 Jun 2018.
- 2018e “Electricity market and prices in Cyprus”, *Investment and Investment Finance: The Cypriot Case*, European Investment Bank and Nicosia Chamber of Commerce and Industry, Nicosia, Cyprus, 31 May 2018.
- 2018d “The role of natural gas towards sustainable energy systems”, *9<sup>th</sup> Mediterranean Oil & Gas Forum*, Nicosia, Cyprus, 27–28 Mar 2018.
- 2018c “Electricity market – The EU Winter Package”, *European Union – Latest developments*, Cyprus University of Technology, Limassol, Cyprus, 23 Mar 2018.
- 2018b “Electricity markets complexities”, *Energy Forum*, Frederick University, Nicosia, Cyprus, 21 Mar 2018.
- 2018a “EU energy strategies towards sustainable energy systems”, *The future of energy – EU and UAE cases*, Rochester Institute of Technology, Dubai, UAE, 6 Feb 2018.
- 2017h “Integration of renewable energy technologies in the future energy systems”, *XIII Research & Development in Power Engineering Conference (RDPE 2017)*, Warsaw, Poland, 28 Nov–1 Dec 2017.
- 2017g “Energy regulatory challenges”, *5<sup>th</sup> Energy Symposium*, Nicosia, Cyprus, 1 Nov 2017.
- 2017f “Future sustainable energy systems – moving towards 2050”, *52<sup>nd</sup> International Universities’ Power Engineering Conference (UPEC 2017)*, Crete, Greece, 28–31 Aug 2017.
- 2017e “EU 2050 energy strategy towards sustainable energy systems”, *4<sup>th</sup> International Conference on Energy, Sustainability and Climate Change (ESCC2017)*, Santorini, Greece, 12–14 Jun 2017.
- 2017d “Towards the new energy era – Challenges for the electricity market”, *Institute of Environment & Sustainable Development and Frederick University*, Nicosia, Cyprus, 6 Apr 2017.
- 2017c “Future sustainable EU energy systems and the case of Cyprus”, *8<sup>th</sup> Mediterranean Oil & Gas Forum*, Nicosia, Cyprus, 1–2 Feb 2017.
- 2017b “Fundamentals of electricity systems and economics”, *Cyprus Employers and Industrialists Federation*, Nicosia, Cyprus, 8 Feb 2017.
- 2017a “Fundamentals of electricity systems and economics”, *IET lecture series*, Paphos, Cyprus, 4 Feb 2017.

- 2016h “Towards sustainable energy systems”, *Energy Developments and Lessons for Cyprus*, University of Nicosia, Nicosia, 5 Dec 2016.
- 2016g “Towards the new energy era”, *European Representation in Cyprus*, Nicosia, Cyprus, 20 Oct 2016
- 2016f “Future energy systems - Challenges and required actions”, *House of Representatives, Cyprus Government*, Nicosia, Cyprus, 20 Sep 2016.
- 2016e “Renewable and sustainable energy futures”, *5th International Conference on Renewable Energy and Sources and Energy Efficiency*, Nicosia, Cyprus, 5–6 May 2016.
- 2016d “Fundamentals of electricity systems and economics”, *IET lecture series*, Nicosia, Cyprus, 13 Apr 2016.
- 2016c “The future sustainable energy systems”, *Cyprus University of Technology*, Limassol, Cyprus, 12 Apr 2016.
- 2016b “Sustainable energy futures”, *Cyprus Institute CCCI Training programme on Concentrated Solar Energy Systems, Multi-Generation Plants and Further Applications*, Nicosia Cyprus, 11 Apr 2016.
- 2016a “The future energy systems”, *DHKO*, Limassol, Cyprus, 13 Feb 2016.
- 2015d “The future European energy system”, *Deloitte*, Nicosia, Cyprus, 5 Jun 2015.
- 2015c “The renewable energy sources potential for power generation in Cyprus”, *Cyprus-Russia Business and Investment Forum*, Limassol, Cyprus, 20 March 2015. “The future sustainable energy systems”, *Rotary Club of Limassol*, Limassol, Cyprus, 4 Mar 2015.
- 2015a “The future European energy system - Targeting towards 2030”, *Europe Direct*, Limassol, Cyprus, 10 Feb 2015.
- 2014c “Renewable energy strategies for sustainable development in isolated systems”, *9th Mediterranean Conference and Exhibition on Power Generation, Transmission Energy and Distribution (MedPower 2014)*, Athens, Greece, 2–5 Nov 2014.
- 2014b “The development of Cyprus’s strategic plan for RES-E promotion: From feed-in-tariffs to net-metering and auctioning supporting schemes”, *9th International Conference on Deregulated Electricity Market Issues in South-Eastern Europe (DEMSEE2014)*, Nicosia, Cyprus, 25-26 Sep 2014.
- 2014a “Integration of sustainable power generation technologies in United Arab Emirates”, *IET lecture series*, Nicosia, Cyprus, 22 Jan 2014.
- 2013d “Cyprus strategic plan for the integration of renewable energy sources”, *Frederick University*, Nicosia, Cyprus, 21 Jun 2013.
- 2013c “Strategies for solar technologies integration in UAE power system”, *Cyprus Institute*, Nicosia, Cyprus, 13 Jun 2013.
- 2013b “Photovoltaics versus concentrated solar power for high solar potential regions” *4th International Conference on Renewable Energy and Sources and Energy Efficiency*, Nicosia, Cyprus, 6–7 Jun 2013.
- 2013a “Introduction to technical and economic analysis of solar power plants”, *American Society of Mechanical Engineers*, Sharjah, UAE, 17 Apr 2013.
- 2012d “Future sustainable power generation technologies - Carbon capture and storage and renewable energy sources”, *American University of Sharjah*, UAE, 18 Oct 2012.
- 2012c “Sustainable Energy Policy in the EU”, *Workshop on Wave Energy Potential in the Eastern Mediterranean Sea, Quantification and Exploitation*, Nicosia, 9 Jul 2012.
- 2012b “Energy strategies for Cyprus”, *Institute of Technical Graduates*, Limassol, Cyprus, 25 May 2012.
- 2012a “EU energy policy - Strategies for renewable energy sources in Cyprus”, *Cyprus Union of Physicist*, Nicosia, Cyprus, 4 Feb 2012.

- 2011j “Long term energy strategy and power economics”, *IET lecture series*, Paphos, Cyprus, 3 Dec 2011.
- 2011i “Long term energy strategy and power economics”, *IET lecture series*, Nicosia, Cyprus, 7 Nov 2011.
- 2011h “Future sustainable power generation technologies”, *Workshop on Energy Issues facing Cyprus*, Nicosia, Cyprus, Oct 14 (2011).
- 2011g “Cyprus energy situation and future prospects”, *Cyprus Employers and Industrialists Federation*, Nicosia, Cyprus, 5 May 2011.
- 2011f “European energy policy - Future sustainable power generation technologies”, *Institute of Technical Graduates*, Limassol, Cyprus, 13 Apr 2011.
- 2011e “Future energy systems and renewable energy sources technological developments”, *Department of Environmental Management, Cyprus University of Technology*, Limassol, Cyprus, 6 Apr 2011.
- 2011d “Cyprus power system and future developments”, *Association of Scottish Visitor Attractions*, Nicosia, Cyprus, 31 Mar 2011.
- 2011c “Future energy systems and Cyprus energy challenges”, *Department of Mechanical Engineering, Cyprus University of Technology*, Limassol, Cyprus, 24 Mar 2011.
- 2011b “Climate change challenges for power generation in Cyprus”, *Cyprus Union of Physicist*, Nicosia, Cyprus, 26 Feb 2011.
- 2011a “Future sustainable energy systems”, *Free University Lecture Series*, Nicosia, Cyprus, 24 Feb 2011.
- 2010d “Future energy systems”, *Workshop on Cyprus Energy Challenges*, Limassol, Cyprus, 11 Nov 2010.
- 2010c “Optimum large scale integration of renewable technologies in power generation systems”, *7th Mediterranean Conference and Exhibition on Power Generation, Transmission, Distribution and Energy Conversion*, Ayia Napa, Cyprus, 7-10 Nov 2010.
- 2010b “Strategies for power generation in Cyprus”, *Workshop on Co-generation of electricity and desalinated water from CSP*, Nicosia, Cyprus, 23 Jun 2010.
- 2010a “The Strategic Role of R&D in Electric Utilities”, *EURELECTRIC Conference on the Role of Research & Development in Electric Utilities*, Brussels, Belgium, 12 May 2010.
- 2009g “Future sustainable energy systems”, *Conference on the promotion of Distributed Renewable Energy Sources in the Mediterranean region*, Nicosia, Cyprus, 11-12 Dec 2009.
- 2009f “2050 energy challenges”, *Energy Workshop*, Nicosia, Cyprus, 19 Nov 2009.
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