

CURRICULUM VITAE

Family Name: KARAKOSTA

First Name: Charikleia

Date of Birth: 27 March 1981

Nationality: Hellenic

Education:

Institution [Date from - Date to]	Degree(s) or Diploma(s) obtained:
National Technical University of Athens, School of Chemical Engineering [10/1999-4/2004]*	B.Sc., M.Sc. Diploma in Chemical Engineering (Grade: 8,91/10)
National Technical University of Athens [10/2004-7/2006]	M.Sc. in Energy Production and Management (Grade: 8, 67/10)
National Technical University of Athens, School of Electrical and Computer Engineering [12/2005-3/2014]	PhD in Electrical & Computer Engineering PhD Thesis Title "Integrated Methodology for the Decision Support of the Promotion of the Effective Technology Transfer within the frame of Climate Change" (Grade: 10/10)

* B.Sc., M.Sc. Diploma in Chemical Engineering awarded one year before the minimum required years (5) by the School Curriculum (April 2004).

Language Skills: Indicate competence on a scale of 1 to 5 (1 - excellent; 5 - basic)

Language	Reading	Speaking	Writing
English	1	1	1
French	3	3	3
Greek (Mother tongue)	1	1	1

Membership of Professional Bodies

Member of the Technical Chamber of Greece (2004)

Member of the Greek Chemical Engineers Association (2004)

Member of the Alexander S. Onassis Public Benefit Foundation Scholars' Association (2006)

Member of the Hellenic Association for Adult Education (2007)

Member of the Emerald Literati Network (2009)

Member of the EU-GCC Clean Energy Technology Network (2010)

Supporting Member of the SDEWES Centre - International Centre for Sustainable Development of Energy, Water and Environment Systems (2010)

Member of the Hellenic Operational Research Society - HELORS (2013)

Member of the Onassis Scholars Association Running Club (2014)

Founding Member of the Greek Association of Energy Engineers - AEE (2017)

Member of the Board of Directors of the Hellenic Operational Research Society – HELORS (2014, 2017-2021)

Vice-president of the Board of Directors of the Hellenic Operational Research Society – HELORS (2021-2023)

Member of the WISDOM: Women in Society Doing Operational Research and Management Science (2020)

Other skills: Full familiarisation with:

Operating Systems: MS-DOS, Windows NT/2000

Software packages: MS-Office, Matlab, Mathcad, Origin

Programming Languages: Fortran 90

Internet & e-communications

Internet and Computing Core Certification (IC3), Infotest

Present position: Senior Sustainable Energy and Climate Change Expert, Active Labour Market Policies Verifier, Greek Public Employment Service, Ministry of Labour and Social Security

Key Qualifications

- Over 18 years of working experience in the areas of energy, environment, and decision support. She has held the position of project manager, consultant engineer on energy, environment and climate change in more than 30 EC funded projects (MEDA, TACIS, IEE, FP6, FP7, H2020, LIFE etc.), among which the ENERGATE, Triple-A, Paris REINFORCE, EFFIG, NDCs, SET-Nav, C-TRACK 50, TRANSrisk, EU-GCC Clean Energy Network, ENSPOL, Towards2030, POLIMP, DIACORE, BETTER, APRAISE, REACCESS, EFONET, ENTTRANS, NEEDS etc.
- Vast experience with the general and specific requirements of the EC, derived from her continuous participation in EC funded projects in the framework of multiple EC Framework Programmes (FP6, FP7, IEE, H2020, LIFE etc.).
- Highly experienced with the energy policy planning context at the local / regional and national level and working with these authorities.
- Extensive familiarization with the available and innovative technologies in the field of energy efficiency and renewable energy sources, as well as methodologies for the promotion of the transfer of the sustainable energy technologies to the developing world. Experienced in the elaboration of energy studies with energy efficiency activities for the reduction of the energy consumption in residences and commercial companies, aiming at economic and environmental cost reduction.
- Great familiarization with the related to the Covenant of Mayors procedures, such as development of Baseline Emission Inventories, Sustainable Energy Action Plans (SEAPs) and Monitoring Reports.
- Significant experience in reducing the energy footprint of energy intensive organizations. Knowhow in the conduction of energy audits, in accordance to the official Greek guidelines for energy inspectors.
- Familiarized with the handling of the respective energy audit equipment, such as infra-red cameras, combustion analysers and electrical power analysers, as well as the analysis of their results.
- Highly experienced with energy management information systems and their modelling in the frame of energy auditing support and decision making for the implementation of energy activities.
- In depth knowledge of Kyoto Greenhouse Gas (GHG) emissions reduction Flexible Mechanisms (design and development of operational procedures) Clean Development Mechanism (CDM), Joint Implementation (JI) and Emissions Trading (ET)), as well as EU Cooperation Mechanisms for renewable energy (RES-Directive 2009/28/EC).
- Specialization in the development of integrated systems for the facilitation of decision making on energy policy issues (climate change mitigation, rational use of energy, renewable energy sources, competitiveness of energy, security of energy supply etc.)
- Full familiarity and significant expertise in energy and environmental policy issues, energy planning and modelling, forecasting, energy efficiency measures (market, legislative, institutional, technical), renewable energy technologies and energy efficiency technologies, as well as EU energy policy cooperation with developing and third countries.
- Excellent knowledge in the use, design and development of multicriteria decision methods (MCDM) for the support of decision-making systems in various areas of expertise (energy, environment, economics etc.).
- Full knowledge of the EC Project Cycle Management / Logical Framework Analysis (PCM/LFA).
- Expertise in energy production (via fossil fuel, renewables etc.), and management (demand, distribution etc.).
- Experience in industrial issues regarding energy, environment and fossil fuels, acquired from her work in several laboratories conducting chemical analysis (qualitative, microbiological etc.) of fuel, dairy products etc.
- In depth expertise in establishing the communication and dissemination strategy within a project's framework, and in its follow up, from the design till the development of the necessary material (posters, brochures, newsletters etc.) depending on the target audience. Sound knowledge on the operation of the InDesign Program used for the design of such material. Has worked as project manager - dissemination leader in a series of EC funded projects (SET-Nav, TRANSrisk, ENSPOL, POLIMP, DIACORE, Towards2030, BETTER).
- Great organisational skills and competences (organisation of numerous conferences, workshops and seminars, teaching of university lessons etc.).

Academic - Educational Activities

- Postdoctoral Researcher, Department of Business Administration, University of Macedonia, Decision Support Systems for a Sustainable Energy Transition (2022-to date).
- Independent teaching of the courses Operations Research, Technologies for Learning & Human Resources Development and Internet of Things, Department of Business Administration, University of West Attica (2022-to date).

- Adjunct Faculty (Tutor) at the Master programme in “Sustainable Energy Systems” offered jointly by the Open University of Cyprus and the Frederick University for the Modules Renewable Energy for Power Generation and Capstone Project.
- Lecturer of the lesson “Environment” for the speciality “Pharmaceutical, cosmetics and similar products technician”, Sivitanidios Public School of Trades and Vocations, Vocational Training Institute.
- Facilitating the teaching of the following University lessons:
 - ✓ Decision Support Systems, 6th semester of the School of Electrical and Computer Engineering of NTUA.
 - ✓ Energy Management and Environmental Policy, 9th semester of the School of Electrical and Computer Engineering of NTUA.
 - ✓ Energy Management and Project Management, M.Sc. in Energy Production and Management, NTUA.
 - ✓ Decision Support Systems, M.Sc. in Environment and Development, NTUA.
 - ✓ Least Cost Energy Planning, Postgraduate Education in School of Electrical and Computer Engineering of NTUA, courses for PhD students.
- Supervision of more than 30 undergraduate and postgraduate theses.
- PhD thesis evaluator, A Framework for Integrated Sustainability Assessment to support decision making. Application to solar thermal and natural gas combined cycle electricity production in Mexico, Técnica Superior de Ingeniería Agronómica, Alimentaria y de Biosistemas, Universidad Politécnica de Madrid, UPM (2012-2017).
- Member of multiple Organisation and Scientific Committees in conferences in Austria, Belgium, Egypt, France, Greece, Morocco, Oman, Qatar, Slovenia, Turkey and UAE.
- Reviewer of many scientific publications in more than 33 international journals and conferences.
- Scientific Committee Member of the International Scientific conference EMAN for the years 2021-2024.

Other Relevant Information:

Publications

- In total more than 200 scientific publications in the areas of climate change, energy policy, sustainable development, technology transfer, energy efficiency and renewables, energy and environmental management: Scopus citations: 1373 | h-index: 19, Google Scholar citations: 2183 | h-index: 24 | i10-index: 47, Semantic Scholar citations: 1590 | h-index: h-index 20.
- Managing Editor in the Energy Sources, Part B: Economics, Planning, and Policy, Taylor & Francis
- Guest Editor in Special Issues of International Journals:
 - ✓ The challenges of temporal and spatial aggregation in energy: Modelling and policy implications, Utilities Policy, Volume 57-58, 2019.
 - ✓ Renewable Energy Policy Dialogue towards 2030, Energy & Environment, Volume 28, 2017.
 - ✓ Renewable Energy Cooperation, International Journal of Energy Sector Management– IJESM, Volume 10, Issue 3, 2016.

Scholarships & Awards

2016: ECOPOLIS Science Award 2016 - ECOPOLIS Award 2016 for young scientist’s project or research and particular the PhD thesis “Integrated Methodology for the Decision Support of the Promotion of the Effective Technology Transfer within the frame of Climate Change”.

2016: Award and publication of the PhD thesis “Integrated Methodology for the Decision Support of the Promotion of the Effective Technology Transfer within the frame of Climate Change”, which has received recognition in the academic community.

Scholarship for doctoral and post-graduate (Master’s level) studies from the Public Benefit Foundation “Alexander S. Onassis” (2008-2010 & 2005-2006).

State Scholarship for students’ performance during the academic year 2002-2003 in the Chemical Engineering Department of NTUA from the State Scholarship Foundation (IKY).

D. THOMAIDIS” Award for scientific publications (2004-2018).

Voluntary Activities

- Volunteer and member of the Network of Ioannina for the Promotion of Culture and Learning, part of the Hellenic Association of Adult Education (AAE), 2007 – to date.
- Voluntary participation in the Games of the 28th Olympiad, Athens 13-29 August 2004.

Professional experience – Recent Projects

Date from - Date to	Location	Company& reference person (name & contact details)	Position	Description
Jan 2023-to date	Greece	EPU-NTUA Prof. John Psarras john@epu.ntua.gr	Project Coordinator - Energy Efficiency Expert	ENERGATE: Energy Efficiency Aggregation platform for Sustainable Investments , EC LIFE-2021-CET.ENERGATE will make a marketplace for energy efficiency in buildings where market actors can interact by closing deals in a comfortable, predictable, and risk-free environment. ENERGATE aims to integrate into a single, robust, ICT- enabled solution different stages of the building EE project cycle by enabling and implementing: <ul style="list-style-type: none"> • A large (standardized) project development facility for EE project sponsors and project owners or private or public entities • An aggregation, due diligence, and cash flow enhancement process, where projects and measures shall be packaged and enhanced appropriately, to be offered to financiers. • A securitisation process that will enable the financial aggregation and conditioning to appropriate finance categories depending on predefined types of finance (e.g. private vs public). • Appropriate feedback loops that will measure the impact of the ENERGATE platform, i.e. by means of suitable M&V processes. • Providing added value services to all of its users, by enabling business matchmaking, quality assessments and rankings and generally facilitate data and information exchange.
Jan 21- 23	Greece	EPU-NTUA Prof. John Psarras john@epu.ntua.gr	Green Economic Policies Expert	NDCs: EU Global Support Facility for National Determined Contributions, EuropeAid/140859/DH/SER/MULTI . The project consists of setting up and running a global NDC Support Facility to contribute to accelerate the transition towards low-carbon, resource efficient and resilient economies in line with the EU Green Deal, the Paris Agreement, the Sendai Framework on Disaster Risk Reduction (DRR) and the Sustainable Development Goals. The aim is to deliver high level technical assistance and policy advice at country, regional and global level to support the design, update and implementation of partner countries NDCs, Long Term Strategies (LTSS) and National Adaptation Plans (NAPs) in the context of the Paris Agreement, the Sendai Framework and the 2030 Agenda.
Sept 19- 22	Greece	EPU-NTUA Prof. John Psarras john@epu.ntua.gr	Project Coordinator - Energy Efficiency Expert	Triple-A: Enhancing at an Early Stage the Investment Value Chain of Energy Efficiency Projects , EC - Horizon 2020 - Research & Innovation Programme. Provision of consultant services to identify which investments can be considered as Triple-A investments, fostering sustainable growth, while also having an extremely strong capacity to meet their commitments, already from the first stages of investments generation and pre-selection/ pre-evaluation. The Triple-A scheme is introduced, comprising three critical steps: Step 1-Assess: Member States (MS) risk profiles and mitigation policies, including a Web based database, enabling national and sectoral comparability, market maturity identification, good practices experiences exchange, reducing thus uncertainty for investors. Step 2-Agree: Standardised Triple-A tools, efficient benchmarks, and guidelines, translated in consortium partners' languages, accelerating and scaling up investments. Step 3-Assign: In-country demonstrations, replicability and overall exploitation, including recommendations on realistic and feasible investments in the national and sectoral context, as well as on short- and medium-term financing. The Triple-A case study countries were selected to promote diversity across a number of factors, including: a leading European economy (Germany), an innovation front-runner in energy (The Netherlands), a weak economy, went through one of the longest and most severe recessions (Greece), an economy with slow economic recovery (Italy), a diversified economy with a strategic geographical location having some of the largest European firms (Spain), a country that has experienced one of the fastest economic recoveries in Europe (Lithuania), a progressing country with a once sceptical stance towards low-carbon development (Czech Republic), and a country, recovering from a slow transition to a market economy, with growing regional strategic role and significant ambition towards EU processes (Republic of Bulgaria).
Jan 20- 22	Greece	EPU-NTUA Prof. John Psarras john@epu.ntua.gr	Project Manager / Energy Efficiency and Communication Expert	Launch and facilitate the implementation of a new EEFIG Working Group on "Further improvements of energy efficiency in industry" , Framework Contract with DG ENER, European Commission. Provision technical assistance in the field of communication, organisation of events, development & maintenance of IT tools, and of financial/economic expertise, in support to the Smart Finance for Smart Buildings Initiative development and implementation in the area of energy efficiency, by emphasising the role of energy efficiency finance in the clean energy transition, and as an essential focus area of sustainable finance. Increase the use of the EEFIG Underwriting Toolkit by the financial community, e.g. develop a training package for financial institutions that can be integrated in the institutions' trainings; promote DEEP to increase its use and facilitate data submission to this platform; promote EEFIG findings and recommendations to the identified target audiences (financial institutions, public authorities, market actors).
Jun 19- 22	Greece	EPU-NTUA Prof. John Psarras john@epu.ntua.gr	Sustainable Energy and Climate Expert	PARIS REINFORCE: Delivering on the Paris Agreement: A demand-driven, integrated assessment modelling approach , EC - Horizon 2020 - Research & Innovation Programme. Provision of consultant services to support EU policymakers in the process of developing EU's next NDCs, and European national policymakers to plan and implement National Energy and Climate Plans, in developing sectoral decarbonisation pathways, for developing a detailed 2050 energy roadmap. Provide an improved and enhanced understanding of EU policy interactions, and of interactions between climate action and the Sustainable Development Goals of the 2030 Agenda for Sustainable Development. Support policymakers from major emitting (non-EU) and less emitting countries in producing detailed future NDCs and long-term decarbonisation and/or adaptation strategies. Support the implementation of the Paris Work Programme and of the 2023 GST and achieve enhanced stakeholder engagement at all levels (national, regional, global), to ensure that stakeholder knowledge, expertise, interests, strategies and motives are taken into account and reflected in real-world and meaningful scientific processes. Deliver a transparent, open-access, multi-modelling data exchange platform, I2AM PARIS and provide input into IPCC's 6th assessment report (AR6) and other major scientific assessments on climate change and action. Case study countries: Greece, Spain, Belgium, the UK, Norway, Italy, Switzerland, Germany, the Netherlands, France, Brazil, China, Russia, Japan, India, Kenya, Ukraine, and Canada.

April 16- March 19	Greece	EPU-NTUA Prof. John Psarras john@epu.ntua.gr	Project Manager - Energy Expert	SET-Nav - Navigating the Roadmap for Clean, Secure and Efficient Energy Innovation , Horizon 2020 research and innovation programme. Provision of consultant services to support strategic decision making in Europe's energy sector, enhancing innovation towards a clean, secure and efficient energy system. SET-Nav research will enable the EC, national governments and regulators to facilitate the development of optimal technology portfolios by market actors. We will comprehensively address critical uncertainties and derive appropriate policy and market responses. SET-Nav findings will support the further development of the SET-Plan and its implementation by continuous stakeholder involvement.
Dec 15- 20	Greece	EPU-NTUA Prof. John Psarras john@epu.ntua.gr	Energy Expert	EU-GCC Clean Energy Technology Network II , EU General Budget. The Project is a continuation of the first "EU-GCC Clean Energy Network", under which a Network of EU and GCC energy stakeholders was set up, to act as a catalyst and element of coordination for the development of cooperation on clean energy, including related policy and technology aspects. This Project, through a series of actions, widens the participation in the Network, enhances its sustainability and enforces its capability to increase the effective EU-GCC cooperation in the field of energy (mainly clean energy) and further supports –with technical input– the wider interventions for climate change and economic diversification. During the period of its implementation the project organises, coordinates & practically contributes to the implementation of cooperation activities (policy discussions, joint research, implementation of technology projects), basically through the Working Groups (W/Gs) and its Network's web based cooperation platform. Dissemination of information about the existing cooperation and relevant funding opportunities and the Network itself is a third pillar of the project content.
Sept 15- Februar y 19	Greece	UPRC Assoc. Prof. Alexandros Flamos aflamos@unipi.gr	Project Manager - Energy Expert	TRANSRISK - Transitions pathways and risk analysis for climate change mitigation and adaptation strategies , Horizon 2020 research and innovation programme. Provision of consultant services to: (a) To create a novel assessment framework for analysing costs and benefits of transition pathways; and (b) to design decision support tools to help policymakers better understand uncertainties and risks and enable them to include risk assessments into more robust policy design. Uncertainties are pervasive in climate change, and this includes the under-researched area of climate change policy. In order to help policy-makers manage irreducible uncertainties, TRANSrisk not only employs a range of different models to explore scenarios and pathways, but also engages a wide range of stakeholders to help develop plausible pathways in the light of potential difficulties in public acceptance, and the risk of policy failures. This unique approach, integrating quantitative and qualitative analysis, offers policy-makers help in a situation where 'optimal' policies are rarely feasible, recognising the critical importance of innovation in achieving climate change targets. In addition TRANSrisk provides country case study of ways that the framework and tools developed in the project can produce useful empirical results for policy-makers.
March 14-16	Greece	EPU-NTUA Prof. John Psarras john@epu.ntua.gr	Project Manager - Energy Expert	Towards2030 - Dialogue -Dialogue on a RES Policy framework for 2030 , European Commission Intelligent Energy - Europe II. Provision of consultant services to facilitate and guide the RES policy dialogue for the period towards 2030 aiming for an intense stakeholder dialogue that establishes a European vision of a joint future RES policy framework. A detailed assessment of suitable RES policy pathways towards 2030 & guidance for practical implementation, as well as impact assessment of 2030 targets & related effort sharing will be conducted. Trends in electricity market design and their implications on RES policy design will be analysed together with supplementary measures to better cope with an enhanced RES take-off. In addition, a closer consideration of global energy trends and reflections of linkages between RES and climate policy will be done.
Oct 13- Sep 16	Greece	EPU-NTUA Prof. John Psarras john@epu.ntua.gr	Energy Expert	SUSTAIN - Strengthening higher education in Urban Sustainability and Transitions towards internationalisation of Academic Institutions and Networks , Erasmus Mundus (EC), SUSTAIN provides various activities to strengthen inter-university and inter-disciplinary cooperation in education, training and curricula development and to stimulate exchange of knowledge of international best practices in Sustainable Urban Development (SUD), establishing knowledge sharing in a practical, achievable and innovative manner.
April 13- 16	Greece	EPU-NTUA Prof. John Psarras john@epu.ntua.gr	Project Manager - Dissemination Leader	DIACORE - Policy Dialogue on the assessment and convergence of RES policy in EU Member States , European Commission Intelligent Energy - Europe II. Provision of consultant services to establish an interactive and web-based database on key input parameters for policy implementation and assessed performance of existing and planned policies by MS for RES in all three energy sectors, monitoring the effectiveness and the economic efficiency of RES policies by country with technology-specifics. An intense and interactive policy dialogue with key stakeholders at EU and national level will be developed based on a series of topical workshops and continuous involvement of key decision makers. DIA-CORE will provide assessment of costs and benefits of RES today and in the future (2020, 2030), incl. impacts from a system perspective, distributional effects and macro-economic impacts. EPU-NTUA is the dissemination leader, and as the project manager, in depth involvement in the design of the project website, brochures, other communication material (leaflets, newsletters, posters) and project communication in the social media (Facebook, twitter) was realised.
July 12- March 15	Greece	EPU-NTUA Prof. John Psarras john@epu.ntua.gr	Dissemination leader - Energy Expert	Executive Agency for Competitiveness and Innovation (EACI): "BETTER - Bringing Europe and Third countries closer together through renewable Energies" . Evaluation through case studies and integrated analysis of the impacts that the implementation of the cooperation mechanism in North Africa, the Western Balkans and Turkey can have in helping Europe achieve its RES targets, as well as the associated co-effects (market opportunities, grid requirements, environmental and socio-economic impacts, etc.) for both Europe and third countries. Development of an action plan to foster renewable energy production, transfer and use in the EU member states, as well as third countries through cooperation initiatives highlighting its strengths, weaknesses opportunities and threats. Provision of policy recommendations with regards to: (i) the implementation of the RES cooperation mechanism for each case study region and for the European Union, (ii) the implementation of the joint project with third countries mechanism in general and (iii) the comparison of the third countries cooperation mechanism with the other EU internal RES cooperation mechanisms. Establishment of a solid stakeholder network between Europe and selected third countries to foster RES cooperation and knowledge transfer. Generation of knowledge and dissemination material and activities in order advocate in favour of EU RES cooperation mechanisms as well as RES deployment. EPU-NTUA is the dissemination leader, and as the project manager, in depth involvement in the design of the project website, brochures, other communication material (leaflets, newsletters, posters) and project communication in the social media (Facebook, twitter) was realised.