

Elena Georgopoulou

PhD Engineering – MSc. Environmental Management

Personal data

Place/date of birth: Athens, 1966
 Nationality: Greek
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Employment – Professional experience

2000 - to date: Initially Junior Researcher (February 2000 – June 2003), then Assistant Researcher (June 2003 – March 2008), and since March 2008 Senior Researcher at the Institute of Environmental Research and Sustainable Development of the National Observatory of Athens (NOA).

Research topics: Assessment of climate change impacts and adaptation measures in energy, agriculture, tourism, cities and settlements; Environmental and economic assessment of policies and measures for the reduction of greenhouse gases (GHG) emissions; Development and assessment of scenarios on energy supply and demand; Integration of renewables and energy conservation in energy planning; Cost-benefit analyses; Assessment of externalities; Assessment of environmental and economic impacts from the introduction of decarbonization and clean technologies in industry; Economic instruments for the exploitation of renewables and energy conservation.

- 1997 - 1999:** External collaborator of NOA (compilation of GHG and other air emissions inventories, application and enforcement of environmental legislation, and economic evaluation of alternative water management strategies at regional level).
- 1992 - 1997:** External collaborator of the Laboratory of Industrial and Energy Economics, Dpt. of Chemical Engineering at the National Technical University of Athens-NTUA (exploitation of renewable energies at regional and local level).
- 1994 - 1993:** External collaborator of Greek private consulting companies (solid waste management, wastewater treatment, regional energy planning and economic development).
- 1991 - 1992:** External collaborator of NTUA (economic viability assessment of industrial activities in industrial zones).

Education

- 1998:** Ph.D. in Chemical Engineering, National Technical University of Athens (NTUA) - Greece. Title of thesis: Energy planning focusing on the development of renewable energies at regional level
- 1995:** MSc. in Environmental Management, European Association for Environmental Management Education (EAEME) - Ecole Polytechnique Fédérale de Lausanne (EPFL). Title of thesis: Environmental Evaluation of Alternative Strategies in Electricity Generation: The Case of Renewable Energy Option (Distinction)
- 1989:** BSc. in Chemical Engineering, National Technical University of Athens

Languages

Greek (mother tongue), English, French, Spanish

Self-assessment EU level (*)	Understanding				Speaking				Writing	
	Listening	Reading	Spoken interaction	Spoken production	Spoken interaction	Spoken production	Spoken production	Spoken production	Writing	Writing
Greek	C2 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user
English	C2 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user
French	C2 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user
Spanish	C1 Proficient user	C1 Proficient user	B1 Independent user	B1 Independent user	B1 Independent user	B1 Independent user	B1 Independent user	B1 Independent user	C2 Proficient user	C2 Proficient user

(*) Common European Framework of Reference for Languages

Computer Literate

- Evaluation of climate change impacts and management options in agriculture (DSSAT, VINELOGIC, APSIM)
- Statistical analysis (SPSS)
- Optimization of electricity generation systems (WASP)
- Modelling of linear, non-linear and mixed integer optimisation problems (GAMS)
- Assessment of alternative options utilizing multicriteria decision-aid (ELECTRE I-IV, ELECTRE TRI, PROMETHEE, MACBETH).
- Modelling, evaluation, and optimisation of integrated processes in industries, including environmental assessment (SuperPro Designer)

Participation in International Organizations as technical expert

- Lead Author of the 6th IPCC Assessment Report (Working Group II: Impacts, Adaptation, and Vulnerability/ Chapter 13: Europe responsible for Cities, Settlements and Key Infrastructures) – published in 2022.
- Lead Author of the 6th IPCC Assessment Report (Working Group II: Impacts, Adaptation, and Vulnerability/Cross-Chapter Paper on Mediterranean: responsible for projected risks) – published in 2022.
- Lead Author of the 5th IPCC Assessment Report (Working Group II: Impacts, Adaptation, and Vulnerability/ Chapter 23: Europe – responsible for energy, industry, transport, and tourism) – published in 2014.
- Expert Reviewer of the 4th IPCC Assessment Report (Working Group III: Mitigation) – published in 2007
- Since 2016, participation, at the invitation of the European Commission, in the evaluation process of the calls of Horizon Europe on climate services, assessment of climate change impacts, and adaptation actions.
- Since 2014, participation, at the invitation of the European Commission, in the review process of EC funded projects on climate services, change impacts, and adaptation.

Representation of Greece in International Organizations

- IPCC Focal Point in Greece (2010 – March 2018).
- Member of the Greek Delegation (1999-2007) to the regular meetings of SBI and SBSTA of the UNFCCC and the Conference of the Parties (COPs), providing technical consultancy on reporting/accounting and the KP flexible mechanisms.
- Member of the Greek Delegation (2003-2007) to Working Group 3 of the European Commission on issues related to EU Emissions Trading and the Kyoto Protocol Flexible mechanisms.
- Member of the Greek Delegation (1999-2006) to the regular meetings of the Working Party on International Environment/Climate Change (WPIE/CC) of the Council of the European Union.
- Technical consultant (1999-2006) to the regular meetings of: a) the EU Expert Groups on Reporting / Accounting, KP Flexible Mechanisms, and Further Action/ WPIE/CC of the Council of the European Union, b) the Annex I countries of OECD.

Participation in research projects

As project leader

South East Europe Energy Transition Dialogue. Funding: Initiative Europäische Klimaschutzinitiative (EUKI) of the German Government. **Partners:** Agora Energiewende (Germany) – Project Leader, National Observatory of Athens (NOA) – Greece, Energy Policy Group (EPG) - Romania, University of Zagreb/Faculty of Mechanical Engineering and Naval Architecture (UNIZAG FSB) - Croatia, Center for the Study of Democracy – Bulgaria. **Duration:** 1/2018 – 2/2020. **Budget:** 720,000€ (NOA: 89,956€).

Low Carbon South East Europe (LOCSEE). Funding: Co-funded by the Transnational South East Europe (SEE) Programme (project code: SEE/D/0166/2.4/X). **Partners:** European Academy Bolzano (EURAC) – Italy [Project leader], Ministry of Agriculture and Environment (MKO) – Slovenia, National Observatory of Athens (NOA) – Greece, Joanneum Research (JR) – Austria, Regional Environmental Center (REC) – Hungary, Corvinus University of Budapest (BCE-REKK) – Hungary, Ministry of Environmental and Nature Protection – Croatia, Ministry of Sustainable Development and Tourism – Montenegro, Ministry of Environment, Forests and Water administration – Albania, Ministry of Energy, Development and Environmental Protection – Serbia, Ministry of Environment and Physical Planning – FYROM. **Duration:** 10/2012 – 9/2014. Budget: 1,515,451€ (NOA: 147,282€).

Support Actions for the fulfilment of national commitments under the UNFCCC and the Kyoto Protocol. Funding: Greek Ministry for the Environment, Physical Planning and Public Works within the 3rd Community Support Framework – Operational Programme Environment. Partners: National Observatory of Athens. Duration: 2003 – 2006. Budget: 748,800 €.

Support Actions for the national Partners of the EU Directive on Emissions Trading and the monitoring of measures for the reduction of GHG emissions from the energy sector. Funding: Greek Ministry for Development within the 3rd Community Support Framework – Operational Programme Competitiveness. Partners: National Observatory of Athens, EPEM S.A., LDK Ltd, KPMG Kyriacou Certified Auditors S.A.. Duration: 2003 – 2006. Budget: 1,209,500 € (NOA: 580,560€).

Decision Aid Framework for the assessment of impacts from the introduction of Best Available Techniques in industry (DAF-BAT). Funding: Greek General Secretariat for Research and Technology within the 3rd Community Support Framework – Operational Programme Competitiveness. Partners: National Observatory of Athens, EPEM S.A., LDK Ltd. Duration: 2003 – 2006. Budget: € 1,827,700 (NOA: 598,110€).

Initiative on the assessment of climate change impacts in African developing countries. Funding: Greek Ministry of Foreign Affairs - Greek Ministry for the Environment, Physical Planning and Public Works. Partners: National Observatory of Athens. Duration: 2003 – 2004. Budget: 125,000 €.

Formulation of the National Action Plan of Cyprus for the limitation of greenhouse gases emissions according to the requirements of the UNFCCC and the Kyoto Protocol. Funding: Ministry for Agriculture, Natural Resources and the Environment of Cyprus. Partners: National Observatory of Athens. Duration: January 2001 – March 2002. Budget: 73,500 €

Capacity building for climate change related activities in the Federal Republic of Yugoslavia. Funding: Greek Ministry for the Environment, Physical Planning and Public Works. Partners: National Observatory of Athens. Duration: 2001 – 2002. Budget: 190,755 €.

Capacity building for climate change related activities in Bulgaria. Funding: Greek Ministry for the Environment, Physical Planning and Public Works. Partners: National Observatory of Athens. Duration: 2001 – 2002. Budget: 199,599 €.

[As a principal member of the research team](#)

JustReDI - Resilience, Inclusiveness and Development: Towards a Just Green and Digital Transition of Greek Regions. Funding: National Recovery and Resilience Plan Greece 2.0 with funding from the European Union – Next Generation EU. Partners: National Observatory of Athens, National Center for Social Research (EKKE), University of West Attica, ATHENA Research Center, Hellenic Center for Marine Research, International Hellenic University. Duration: 2023 – 2025.

Analysis of the effects of climate change on the agricultural and livestock sector in Greece (AGRIFOOD). Funding: Piraeus Bank S.A. Partners: FACE³TS S.A. (project leader), National Observatory of Athens, Agricultural University of Athens. Duration: 2022 – 2023.

Climpact II - Support for the Operational Upgrade of the National Network for Climate Change (Climpact). Funding: National Development Program, under the auspices of the Ministry of Development and the General Secretariat for Research and Innovation. Partners: National Observatory of Athens (coordination), Academy of Athens, Aristotle University of Thessaloniki, National and Kapodistrian University of Athens, National Center for Scientific Research Demokritos, National Centre for Social Research (EKKE), Hellenic Centre for Marine Research (HCMR), ATHENA Research Center, National Technical University of Athens (NTUA), University of Crete, Technical University of Crete, and 17 affiliated members from Greece and Cyprus. Duration: 2023 – 2025.

Climpact - National Network on Climate Change and its Impacts. Funding: National segment of the Public Investment Program – Ministry of Development – General Secretariat for Research and Innovation (GSRI). Partners: National Observatory of Athens (coordination), Academy of Athens/Research Center for Atmospheric Physics and Climatology, Aristotle University of Thessaloniki, National and Kapodistrian University of Athens, National Center for Scientific Research Demokritos, National Centre for Social Research (EKKE), Hellenic Centre for Marine Research (HCMR), ATHENA Research Center, National Technical University of Athens (NTUA), University of Crete, Technical University of Crete. Duration: 2019 – 2022.

KRIPIS II – THESPIA II - Development of synergistic and integrated methodologies and tools for the observation, management and forecast of environmental parameters and pressures. Funding: General Secretariat for Research and Innovation (GGEK)/ National Strategic Reference Framework (NSRF) 2014-2020. Partners: National Observatory of Athens (WP2 Leader). Duration: 1/9/2017-31/3/2021.

- ACTRIS PPP-Aerosols, Clouds and Trace gases Preparatory Phase Project.** Funding: European Commission. Partners: FMI, UHEL (Finland), CNR (Italy), CNRS (France), INOE (Romania), CHMI (Czech Republic), TROPOS, KIT (Germany), NOA (Greece), NILU (Norway), UPC, CSIC, UVA (Spain), UMAN, NERC, STFC (UK), KNMI (Netherlands), PSI, EMPA (Switzerland), Cyl (Cyprus), IGF PAS (Poland), ULund (Sweden), BIRA-IASB (Belgium), NUIG (Ireland), EULS (Estonia), AU (Denmark), INRNE (Bulgaria), JRC (EC). Duration: 2017 – 2019.
- Lignite Phase Out – Long term energy planning scenarios for the Greek power generation system.** Funding: WWF Hellas. Partners: National Observatory of Athens. Duration: 2016 – 2017.
- Energy model adjustment for the calculation of GHG emissions from energy and estimation of the technical potential of GHG emission reductions.** Funding: Centre for Renewable Energy Sources (KAPE/CRES). Partners: National Observatory of Athens. Duration: 2011 – 2012.
- Simulation of the Greek energy system for the estimation of the energy conservation potential.** Funding: Centre for Renewable Energy Sources (KAPE/CRES). Partners: National Observatory of Athens. Duration: 2011 – 2012.
- Support for the free allocation of GHG emission credits to installations during the period 2013-2020 with the framework of the EU-ETS.** Funding: Ministry for Energy, Environment and Climate Change. Partners: National Observatory of Athens. Duration: 2012-2013.
- Expertise on the Scheme for the allocation of greenhouse gas emission allowances for industry for the period 2013-2020 under the support of the EARTH Directorate.** Funding: Ministry for Energy, Environment and Climate Change. Partners: National Observatory of Athens. Duration: 2012.
- Financial Institutions: Preparing the Market for Adapting to Climate Change (ClimaBiz).** Funding: DG Environment/LIFE+ 2008, Contract Nr. LIFE08 ENV/GR/00052. Duration: 2010 – 2012. (Note: within the framework of Green Awards, ClimaBiz was selected as one of the 15 most outstanding LIFE projects, out of a total of 4,300 projects implemented in the last 25 years (1992-2017), and as one of the 5 most outstanding LIFE projects on climate change. It was also one of the best 21 LIFE Environment projects for 2013. ClimaBiz was the first full-scale application of climate change adaptation by a financial institution in Greece). [E. Georgopoulou participated as a Scientific Consultant].
- Review of the 2nd National Program for GHG Emission Reduction - Assessment of the Need to Use the Kyoto Protocol Mechanisms.** Funding: Greek Ministry for the Environment, Physical Planning and Public Works. Partners: EUROSymbuloi SA, National Observatory of Athens (sub-contractor). Duration: 2006-2007
- Establishment of a National Allocation Plan for Greenhouse Gas Emission Rights 2008-2012.** Funding: Ministry for the Environment, Physical Planning and Public Works, Implementing Bodies: EPEM SA. Duration: 2006-2007.
- Estimation of the economic and social impacts of solid waste management.** Funding: Institute of Local Administration. Duration: 2006-2007.
- Tools for sustainability: development and application of an integrated framework (SusTools).** Funding: DG Research of the European Commission within the framework of EESD-ESD-3 (Environment and Sustainable Development). Partners: ARMINES (France), University of Bath (UK), NTUA (Greece), VITO (Belgium), EAIR (Germany). Duration: 2003 – 2004.
- Externalities of Energy: Extension of accounting framework and policy applications (ExternE-Pol).** Funding: DG Research of the European Commission within the framework of EESD-ESD-3 (Environment and Sustainable Development). Partners: ARMINES (Γαλλία), ΕΜΠ (Greece), VITO (Belgium), EAIR (Γερμανία). Duration: 2002 – 2004.
- Evaluating, monitoring and strengthening the environmental dimension of the Operational Program for Competitiveness.** Funding: Greek Ministry for Development within the 3rd Community Support Framework – Operational Programme Competitiveness. Partners: National Observatory of Athens. Duration: 2003.
- The effects of environmental constraints in the electricity generation sector.** Funding: Greek Public Power Corporation. Partners: National Observatory of Athens. Duration: 2002 – 2003.
- Capacity building for climate change related activities in Romania.** Funding: Greek Ministry for the Environment, Physical Planning and Public Works. Partners: National Observatory of Athens. Duration: 2001 – 2002.
- Capacity building for climate change related activities in Albania.** Funding: Greek Ministry for the Environment, Physical Planning and Public Works. Partners: National Observatory of Athens. Duration: 2001 – 2002.

Capacity building for climate change related activities in Bosnia – Herzegovina. Funding: Greek Ministry for the Environment, Physical Planning and Public Works. Partners: National Observatory of Athens. Duration: 2001 – 2002.

Capacity building for climate change related activities in FYROM. Funding: Greek Ministry for the Environment, Physical Planning and Public Works. Partners: National Observatory of Athens. Duration: 2001 – 2002.

Planning of Support Policies and Measures for the Limitation of CO₂ Emissions in the Residential – Tertiary Sector. Funding: Greek Ministry for the Environment, Physical Planning and Public Works. Partners: National Observatory of Athens. Duration: 2002.

2nd National Programme for the reduction of greenhouse gases in Greece during 2000-2010. Funding: Greek Ministry for the Environment, Physical Planning and Public Works. Partners: National Observatory of Athens. Duration: 2001 – 2002.

Facilitating the Kyoto Protocol Objectives by the Clean Development Mechanism in Small Island Developing States - CDMSIDS Project. Funding: European Commission / DG Environment. Partners: Instituto Superior Técnico (IST), National Observatory of Athens (NOA), Secretariado Executivo Para o Ambiente (SEPA), CEA (Cape Verde). Duration: 2001.

Inventory of air emissions, solid and liquid wastes from industry and air emissions from central heating installations. Funding: Greek Ministry for the Environment, Physical Planning and Public Works. Partners: Consortium LDK Ltd., EPEM S.A., ENVECO S.A., SIVILA Ltd., EXERGIA S.A., National Observatory of Athens (Technical Consultant), National Technical University of Athens (Technical Consultant). Duration: 2000 – 2001.

Climate Change. Funding: Greek Ministry for the Environment, Physical Planning and Public Works. Partners: National Observatory of Athens. Duration: 1998 – 2002.

Optimal integration of environmental requirements, deriving from the Kyoto Protocol, in national energy planning for the next decade. Funding: Greek Ministry for Development. Partners: National Observatory of Athens. Duration: 1999 – 2000.

Utilization of Groundwater Desalination & Wastewater Reuse in the Water Supply of Seasonally-Stressed Regions (WASSER). Funding: DG XII of the European Commission within the framework of the ENVIRONMENT program. Partners: National Observatory of Athens, the Kungl Tekniska Hogskolan University (Sweden), the Universidad de Las Palmas de Gran Canaria and the Universidad de Malaga (Spain), Tahal Consulting Engineers Ltd (Israel), Hellenic Center for Maritime Research (EKΘE) and the Ministry for Agriculture of Cyprus. Duration: 1998 – 2001.

Other professional activities

- Reviewer in scientific journals (Energy Policy, European Journal of Operational Research (EJOR), Journal of Environmental Management, Journal of Cleaner Production, Computers & Industrial Engineering, Sustainability)
- Member of the Executive Board of the National Centre for Environment and Sustainable Development (ΕΚΠΑΑ) during 2010-2011
- Member of the Hellenic Association of Chemical Engineers; Member of the EURO Working Group Multicriteria Decision Aiding; Member of the Hellenic Solid Waste Management Association; Member of the Hellenic Association of Researchers.

Publications in peer-reviewed journals and books

1. Muccione, V., Haasnoot, M., Alexander, P., Bednar-Friedl, B., Biesbroek, R., Georgopoulou, E., Le Cozannet, G., & Schmidt, D. N. (2024) **Adaptation pathways for effective responses to climate change risks.** *WIREs Climate Change* 15(4), e883, <https://doi.org/10.1002/wcc.883>
2. Georgopoulou, E., Gakis, N., Kapetanakis, D., Voloudakis, D., Markaki, M., Sarafidis, Y., Lalas, D.P., Laliotis, G.P., Akamati, K., Bizelis, I., et al. (2024) **Climate Change Risks for the Mediterranean Agri-Food Sector: The Case of Greece.** *Agriculture* 14, 770, <https://doi.org/10.3390/agriculture14050770>

3. Sarafidis, Y., Demertzis, N., Georgopoulou, E., Avrami, L., Mirasgedis, S., Kaminiaris, O. (2024) **Socioeconomic Impacts of Climate Mitigation Actions in Greece: Quantitative Assessment and Public Perception.** *Atmosphere* 15, 454, <https://doi.org/10.3390/atmos15040454>
4. Georgopoulou, E., Mirasgedis, S., Sarafidis, Y., Giannakopoulos, C., Varotsos, K.V., Gakis, N. (2024) **Climate Change Impacts on the Energy System of a Climate-Vulnerable Mediterranean Country (Greece).** *Atmosphere* 15, 286, <https://doi.org/10.3390/atmos15030286>
5. Kapetanakis, D., Georgopoulou, E., Mirasgedis, S., Sarafidis, Y. (2022) **Weather Preferences for Ski Tourism: An Empirical Study on the Largest Ski Resort in Greece.** *Atmosphere* 13, 1569, <https://doi.org/10.3390/atmos13101569>
6. Kapetanakis, D., Georgopoulou, E., Mirasgedis, S., Sarafidis, Y. (2022) **Weather Preferences for Urban Tourism: An Empirical Study in the Greek Capital of Athens, Greece.** *Atmosphere* 13, 282. <https://doi.org/10.3390/atmos13020282>
7. Lalas, D., Gakis, N., Mirasgedis, S., Georgopoulou, E., Sarafidis, Y., Doukas, H. (2021) **Energy and GHG Emissions Aspects of the COVID Impact in Greece.** *Energies* 14, 1955, <https://doi.org/10.3390/en14071955>
8. Bednar-Friedl, B., R. Biesbroek, D.N. Schmidt, P. Alexander, K.Y. Børshiem, J. Carnicer, E. Georgopoulou, M. Haasnoot, G. Le Cozannet, P. Lionello, O. Lipka, C. Möllmann, V. Muccione, T. Mustonen, D. Piepenburg, Whitmarsh, I.(2022) **Chapter 13 -Europe.** In: *Climate Change 2022: Impacts, Adaptation and Vulnerability. Contribution of Working Group II to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change* [H.-O. Pörtner, D.C. Roberts, M. Tignor, E.S. Poloczanska, K. Mintenbeck, A. Alegría, M. Craig, S. Langsdorf, S. Löschke, V. Möller, A. Okem, B. Rama (eds.)]. Cambridge University Press, Cambridge, UK and New York, NY, USA, pp. 1817–1927, DOI: 10.1017/9781009325844.015
9. Ali, E., W. Cramer, J. Carnicer, E. Georgopoulou, N.J.M. Hilmi, G. Le Cozannet, Lionello, p. (2022) **Cross-Chapter Paper 4 - Mediterranean Region.** In: *Climate Change 2022: Impacts, Adaptation and Vulnerability. Contribution of Working Group II to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change* [H.-O. Pörtner, D.C. Roberts, M. Tignor, E.S. Poloczanska, K. Mintenbeck, A. Alegría, M. Craig, S. Langsdorf, S. Löschke, V. Möller, A. Okem, B. Rama (eds.)]. Cambridge University Press, Cambridge, UK and New York, NY, USA, pp. 2233–2272, <https://doi.org/10.1017/9781009325844.021>
10. Georgopoulou, E., Mirasgedis, S., Sarafidis, Y., Hontou, V., Gakis, N., Lalas, D.P. (2019) **Climatic preferences for beach tourism: an empirical study on Greek islands.** *Theor Appl Climatol* 137, 667–691, <https://doi.org/10.1007/s00704-018-2612-4>
11. Georgopoulou, E., Mirasgedis, S., Sarafidis, Y., Vitaliotou, M., Lalas, D.P., Theloudis, I., Giannoulaki, K.-D., Dimopoulos, D., Zavras, V. (2017) **Climate change impacts and adaptation options for the Greek agriculture in 2021–2050: A monetary assessment.** *Climate Risk Management* 16, 164-182, <https://doi.org/10.1016/j.crm.2017.02.002>
12. Gaglias, A., Mirasgedis, S., Tourkolias, C., Georgopoulou, E. (2016) **Implementing the Contingent Valuation Method for supporting decision making in the waste management sector.** *Waste Management* 53, 237-244, <https://doi.org/10.1016/j.wasman.2016.04.012>
13. Georgopoulou, E., Mirasgedis, S., Sarafidis, Y., Hontou, V., Gakis, N., Lalas D., Xenoyianni, F., Kakavoulis, N., Dimopoulos, D., Zavras, V. (2015) **A methodological framework and tool for assessing the climate change related risks in the banking sector.** *Journal of Environmental Planning and Management* 58(5), 874–897, <https://doi.org/10.1080/09640568.2014.899489>
14. Georgopoulou, E., Mirasgedis, S., Sarafidis, Y., Gakis, N., Hontou, V., Lalas, D. P., Steiner, D., Tuerk, A., Fruhmann, C., Pucker, J. (2015) **Lessons learnt from a sectoral analysis of greenhouse gas mitigation potential in the Balkans.** *Energy* 92, 577-591, <https://doi.org/10.1016/j.energy.2015.04.068>
15. Mavrotas, G., Gakis, N., Skoulaxinou, S., Katsouros, V., Georgopoulou, E. (2015) **Municipal solid waste management and energy production: Consideration of external cost through multi-objective**

- optimization and its effect on waste-to-energy solutions.** *Renewable and Sustainable Energy Reviews* 51, 1205-1222, <https://doi.org/10.1016/j.rser.2015.07.029>
16. Jacob, D., Petersen, J., Eggert, B., Alias, A., Christensen, O., Bouwer, L.M., Braun, A., Colette, A., Déqué, M., Georgievski, G., Georgopoulou, E., Gobiet, A., Menut, L., Nikulin, G., Haensler, A., Hempelmann, N., Jones, C., Keuler, K., Kovats, S., Kröner, N., Kotlarski, S., Kriegsmann, A., Martin, E., van Meijgaard, E., Moseley, C., Pfeifer, S., Preuschmann, S., Radermacher, C., Radtke, K., Rechid, D., Rounsevell, M., Samuelsson, P., Somot, S., Soussana, J.-F., Teichmann, C., Valentini, R., Vautard, R., Weber, B., Yiou, P. (2014) **EURO-CORDEX: new high-resolution climate change projections for European impact research.** *Regional Environmental Change* 14, 563-578, <https://doi.org/10.1007/s10113-013-0499-2>
 17. Kovats, R.S., R. Valentini, L.M. Bouwer, E. Georgopoulou, D. Jacob, E. Martin, M. Rounsevell, and J.-F. Soussana (2014) **Chapter 23 - Europe.** In: *Climate Change 2014: Impacts, Adaptation, and Vulnerability. Part B: Regional Aspects. Contribution of Working Group II to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change* [Barros, V.R., C.B. Field, D.J. Dokken, M.D. Mastrandrea, K.J. Mach, T.E. Bilir, M. Chatterjee, K.L. Ebi, Y.O. Estrada, R.C. Genova, B. Girma, E.S. Kissel, A.N. Levy, S. MacCracken, P.R. Mastrandrea, and L.L.White (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA, pp. 1267-1326, <https://doi.org/10.1017/CBO9781107415386.003>
 18. Mavrotas, G., Skoulaxinou, S., Gakis, N., Katsouros, V., Georgopoulou, E. (2013) **A multi-objective programming model for assessment the GHG emissions in MSW management.** *Waste Management* 33 (9), 1934-1949. <https://doi.org/10.1016/j.wasman.2013.04.012>
 19. Mirasgedis, S., Georgopoulou, E., Sarafidis, Y., Papagiannaki, K., Lalas, D.P. (2014) **The impact of climate change on the pattern of demand for bottled water and non-alcoholic beverages.** *Business Strategy and the Environment* 23, 272-288, <https://doi.org/10.1002/bse.1782>
 20. Koussis, A. D., Georgopoulou, E., Kotronarou, A., Lalas, D. P., Restrepo, P., Destouni, G., Prieto, C., Rodriguez, J. J., Rodriguez-Mirasol, J., Cordero, T. and Gomez-Gotor, A. (2010) **Cost-efficient management of coastal aquifers via recharge with treated wastewater and desalination of brackish groundwater: general framework.** *Hydrological Sciences Journal* 55(7), 1217-1233, <https://doi.org/10.1080/02626667.2010.512467>
 21. Koussis, A. D., Georgopoulou, E., Kotronarou, A., Mazi, K., Restrepo, P., Destouni, G., Prieto, C., Rodriguez, J. J., Rodriguez-Mirasol, J., Cordero, T., Ioannou, C., Georgiou, A., Schwartz, J. and Zacharias, I. (2010) **Cost-efficient management of coastal aquifers via recharge with treated wastewater and desalination of brackish groundwater: application to the Akrotiri basin and aquifer, Cyprus.** *Hydrological Sciences Journal* 55(7), 1234-1245. <https://doi.org/10.1080/02626667.2010.512469>
 22. Mavrotas, G., Georgopoulou, E., Mirasgedis, S., Sarafidis, Y., Lalas, D., Hontou, V., Gakis, N. (2009) **Multi-objective Combinatorial Optimization for Selecting Best Available Techniques (BAT) in the Industrial Sector: the COMBAT tool.** *Journal of Operational Research Society* 60 (7), 906-920, <https://doi.org/10.1057/palgrave.jors.2602618>
 23. Mirasgedis, S., Hontou, V., Georgopoulou, E., Sarafidis, Y., Gakis, N., Lalas, D.P., Loukatos, A., Gargoulas, N., Mentzis, A., Economidis, D., Triantafilopoulos, T., Korizi, K., Mavrotas, G. (2008) **Environmental damage cost from industrial activities in the greater Athens, Greece area and the resulting benefits from the introduction of BAT.** *Environmental Impact Assessment Review* 28(1), 39 – 56, <https://doi.org/10.1016/j.eiar.2007.03.006>
 24. Georgopoulou, E., Hontou, V., Gakis, N., Sarafidis, Y., Mirasgedis, S., Lalas, D. P., Loukatos, A., Gargoulas, N., Mentzis, A., Economidis, D., Triantafilopoulos, T., Korizi, K. (2008) **BEAsT: A decision-support tool for assessing the environmental benefits and the economic attractiveness of best available techniques in industry.** *Journal of Cleaner Production* 16(3), 359 – 373, <https://doi.org/10.1016/j.jclepro.2006.12.002>
 25. Georgopoulou, E., Mirasgedis, S., Sarafidis, Y., Hontou, V., Gakis, N., Lalas, D.P., Loukatos, A., Gargoulas, N., Mentzis, A., Economidis, D., Triantafilopoulos, T., Korizi, K., Mavrotas, G. (2007) **A**

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