

SEVASTIANOS D. MIRASGEDIS, Senior Researcher, Dr.

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Personal Data

Born 26 October 1968, in Mytilene, Greece; married, 2 children

Education

1993-1998, Ph.D. in Energy and Environmental Economics, National Technical University of Athens (NTUA), Greece. Principal subject: assessment of externalities associated with electricity generation and integration in energy planning.
1986-1991, Diploma in Chemical Engineering, National Technical University of Athens (NTUA), Greece. Thesis subject: incorporation of renewable energy sources in energy planning procedures at regional level.

Computer literate

Simulation of energy systems (ENPEP, GTMax); Optimization of electricity generation systems (WASP); Risk Assessment (RISK); Evaluation of climate change impacts (VINELOGIC, DSSAT); Statistical analysis of datasets (SPSS)

Research

Assessment of energy and environmental externalities; simulation of energy systems; short- and long-term energy projections; regional and national energy and environmental planning; projection of emissions of greenhouse gases and other air pollutants; assessment of climate change impacts on various sectors; identification and assessment of policies and measures for the reduction of greenhouse gases emissions and formulation of action plans.

Professional Experience

2008 – present	Senior Researcher (B), National Observatory of Athens, Greece.
2003 – 2008	Assistant Researcher (C), National Observatory of Athens, Greece.
2000 – 2003	Junior Researcher (D), National Observatory of Athens, Greece.
1997 – 1999	Consultant for energy and environmental issues in SPEED Development Consultants S.A.
1993 – 1997	Scientific collaborator, Laboratory of Industrial and Energy Economics / National Technical University of Athens & National Centre of Scientific Research “Demokritos”
1991 – 1992	Military Service, Greek Army

Distinctions

From IPCC for the contribution to the award of the Nobel Peace Prize for 2007 to Intergovernmental Panel of Climate Change.

Teaching

Post-Graduate: Energy and Environmental Economics in the programme Industrial Organization and Management Systems organized by National Technical University of Athens and University of Piraeus.

Professional Service (selected appointments)

- Lead Author in IPCC 5th Assessment Report (WGIII: Mitigation).
- Lead Author in Global Energy Assessment (GEA), an initiative of IIASA to help decision makers address the challenges of providing energy services for sustainable development, whilst ameliorating existing and emerging threats associated with: security of supply; access to modern forms of energy for development and poverty alleviation; local, regional and global environmental impacts; and securing sufficient investment.
- Lead Author in IPCC 4th Assessment Report (WGIII: Mitigation).
- Technical expert to the Secretariat of the UNFCCC for the assessment of the methodologies applied and the assumptions made by Annex I Parties for their GHG emissions projections developed in the context of the 4th National Communication to the UNFCCC (2007).

- Member of the expert review team of the 1st National Communication of Belarus to the United Nations Framework Convention on Climate Change (UNFCCC).
- Technical expert to the International Atomic Energy Agency for the development of a database regarding external cost of electricity generation technologies (1999).
- Member of the Greek delegation as a technical expert in all formal regular meetings of the Subsidiary Bodies (SBI, SBSTA) of the United Framework Convention on Climate Change (UNFCCC) and the annual meetings of the Conference of the Parties (COP) to the Convention (2000-2006). Participation on the following expert groups: a) policies and measures to reduce GHG emissions b) development and implementation of the Kyoto Protocol flexible mechanisms and c) Land Use, Land Use Change and Forestry.

Research Experience and Grants & Administrative Grants and Government Funding

Participation in 35 Research Projects funded by Hellenic Ministry of Development, Hellenic Ministry of Environment, Hellenic General Secretariat of Research & Technology, Centre of Renewable Energy Sources, European Commission, UNFCCC, International Atomic Energy Agency, acting as:

- Project Leader in 7 projects.
- Senior Researcher in 28 projects.

Reviewer Service

Indicatively in the following journals: *Energy*, *Energy Policy*, *Energy Economics*, *International Journal of Global Energy Issues*, *IEEE Transactions on Power Systems*, *Energy & Buildings*.

Professional Licenses: Member of the Greek Technical Chamber (No. 63104), Member of the Hellenic Association of Chemical Engineers.

Consultant to government-public agencies & to private companies in Greece as well as to IAEA and UNFCCC.

PUBLICATIONS

total > 115, 33 in peer-reviewed journals; 4 book chapters; **SCI h-factor = 15** (566 citations).

MOST SIGNIFICANT PUBLICATIONS

Book Chapters

1. Ürge-Vorsatz D, Eyre N, Graham P, Harvey D, Hertwich E, Kornevall C, Majumdar M, McMahon J, Mirasgedis S, Murakami S, Novikova A, Jiang Y, Energy End-Use: Buildings, Global Energy Assessment, IIASA, 2012.
2. Ürge-Vorsatz D, Eyre N, Graham P, Harvey D, Hertwich E, Kornevall C, Majumdar M, McMahon J, Mirasgedis S, Murakami S, Novikova A, Jiang Y, (forthcoming in 2012), Energy End-Use: Buildings, Global Energy Assessment, IIASA.
3. Levine, M., Ürge-Vorsatz, D., Blok, K., Geng, L., Harvey, D., Lang, S., Levermore, G., Mehlwana, A.M., Mirasgedis, S., Novikova, A., Rilling, J., Yoshino, H., Residential and commercial buildings, Chapter 6 of the Fourth Assessment Report, Working Group III / IPCC: Climate Change 2007: Mitigation of Climate Change, 2007.
4. Diakoulaki, D., Mirasgedis, S., Koukios, E., Diamantidis, N., Stamos, C., Kollas, J., Beloyannis, N., Externalities of Energy: Results for Greece, "ExternE - Externalities of Energy: National Implementation", Vol. 10, European Commission, DG XII, EUR 18528, 1999.

Refereed Papers in International Journals

1. Mirasgedis, S., Diakoulaki, D., and Assimacopoulos, D., Solar energy and the abatement of atmospheric emissions, *Renewable Energy*, 7 (4), pp. 329-338, 1996.
2. Mirasgedis, S., Makatsoris, J., Assimacopoulos, D., Papagiannakis, L. and Zervos, A., Energy conservation and CO₂-emission abatement potential in the Greek residential services sector, *Energy*, 21 (10), pp. 871-878, 1996.
3. Mirasgedis, S., Diakoulaki, D., Multicriteria analysis vs externalities assessment for the comparative evaluation of electricity generation systems, *European Journal of Operational Research*, 102 (2), pp. 364-379, 1997.
4. Mirasgedis, S., Mavrotas, G. and Diakoulaki, D., The use of fuzzy sets in the assessment of the social cost of electricity generation, *Fuzzy Economic Review*, Vol. IV (2), pp. 3-20, 1999.
5. Mirasgedis, S., Dialoulaki, D., Papagiannakis, L. and Zervos, A., Impact of social costing on the competitiveness of renewable energies: the case of Crete, *Energy Policy*, 28 (1), pp. 65-73, 2000.
6. Diakoulaki, D., Zervos, A., Sarafidis, J. and Mirasgedis, S., Cost benefit analysis for solar water heating systems, *Energy Conversion and Management*, 42 (14), pp. 1727-1739, 2001.
7. Kollas, G.I. and Mirasgedis, S., Health and environmental impacts of the hydroelectric fuel cycle, *International Journal of Risk Assessment and Management*, 3 (1), pp.23-39, 2002.
8. Sarafidis, Y., Mirasgedis, S., Georgopoulou, E., and Lalas, D.P., Economic evaluation of carbon dioxide emission abatement measures in the Greek energy sector, *Journal of Environmental Planning and Management*, 45 (2), pp.181-198, 2002.
9. Mirasgedis, S., Sarafidis, Y., Georgopoulou, E., and Lalas, D.P., The role of renewable energy sources within the framework of the Kyoto Protocol: the case of Greece, *Renewable and Sustainable Energy Reviews*, 6 (3), pp.249-272, 2002.
10. Georgopoulou, E., Sarafidis, Y., Mirasgedis, S., Zaimi S. and D. P. Lalas, A multiple criteria decision-aid approach in defining national priorities for greenhouse gases emissions reduction in the energy sector, *European Journal of Operational Research*, 146 (1), pp.199-215, 2003.
11. Argiriou A., and Mirasgedis, S., The solar thermal market in Greece – review and perspectives, *Renewable and Sustainable Energy Reviews*, 7 (5), pp. 397-418, 2003.
12. Bosioli, E., Sarafidis, Y., Georgopoulou, E., Mirasgedis, S., Lalas, D.P., and Pesmajoglou, S., The application of the RAINS model for Greece, *International Journal of Environment and Pollution*, 21 (2), pp.132-152, 2004.
13. Mirasgedis, S., Georgopoulou, E., Sarafidis, Y., Balaras, C., Gaglia A., and Lalas, D.P., CO₂ emission reduction policies in the Greek residential sector: a methodological framework for their economic evaluation, *Energy Conversion and Management*, 45 (4), pp.537-557, 2004.
14. Mirasgedis, S., Sarafidis, Y., Georgopoulou, E., Lalas, D.P., Papastavros, C., Mitigation policies for energy related greenhouse gas emissions in Cyprus: the potential role of natural gas imports, *Energy Policy*, 32 (8), pp. 1001-1011, 2004.

15. Mirasgedis, S., Sarafidis, Y., Georgopoulou, E., Lalas, D.P., Moschovits, M., Karagiannis, F. and Papakonstantinou, D., Models for mid-term electricity demand forecasting incorporating weather influences, *Energy*, 31 (2-3), pp. 208-227, 2006.
16. Georgopoulou, E., Sarafidis, Y., Mirasgedis, S., Balaras, C., Gaglia, A., Lalas, D.P., Evaluating the need for economic support policies in promoting greenhouse gas emission reduction measures in the building sector: the case of Greece, *Energy Policy*, 34 (15), pp. 2012-2031, 2006.
17. Georgopoulou, E., Sarafidis, Y., Mirasgedis, S., Lalas, D.P., Next allocation phase of the EU emissions trading scheme: how tough will the future be?, *Energy Policy*, 34 (18), pp. 4002-4023, 2006.
18. Balaras, C.A., Gaglia, G.A., Georgopoulou, E., Mirasgedis, S., Sarafidis, Y. and Lalas, D.P.: European residential buildings and empirical assessment of the Hellenic building stock, energy consumption, emissions and potential energy savings, *Building and Environment*, 42 (3), pp. 1298-1314, 2007.
19. Diakoulaki, D., Georgiou, P., Tourkolias, C., Georgopoulou, E., Lalas, D., Mirasgedis, S., Sarafidis, Y., A multicriteria approach to identify investment opportunities for the exploitation of the Clean Development Mechanism, *Energy Policy*, 35 (2), pp. 1088-1099, 2007.
20. Gaglia, G.A., Balaras, C.A., Mirasgedis, S., Georgopoulou, E., Sarafidis, Y. and Lalas, D.P., Empirical assessment of the Hellenic non-residential building stock, energy consumption, emissions and potential energy savings, *Energy Conversion and Management*, 48 (4), pp. 1160-1175, 2007.
21. Diakoulaki, D., Mirasgedis, S., Tourkolias, C., Assessment and exploitation of energy-related externalities in the industrial sector, *Energy Policy*, 35 (5), pp. 2925-2938, 2007.
22. Mirasgedis, S., Sarafidis, Y., Georgopoulou, E., Kotroni, V., Lagouvardos, K., Lalas, D. P., Modeling framework for estimating impacts of climate change on electricity demand at regional level: case of Greece, *Energy Conversion and Management*, 48 (5), pp. 1737-1750, 2007.
23. Mavrotas, G., Georgopoulou, E., Mirasgedis, S., Sarafidis, Y., Lalas, D., Hontou, V., Gakis, N., An integrated approach for the selection of Best Available Techniques (BAT) for the industries in the greater Athens area using multi-objective combinatorial optimization, *Energy Economics*, 29 (4), pp. 953-973, 2007.
24. 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., A decision-aid framework to provide guidance for the enhanced use of best available techniques in industry, *Environmental Management*, 40, pp.413-429, 2007.
25. Ürge-Vorsatz, D., Harvey, D., Mirasgedis, S., Levine, M.D., Mitigating CO2 emissions from energy use in the world's buildings, *Building Research and Information*, 35 (4), pp. 379-398, 2007.
26. Ürge-Vorsatz, D., Koeppel, S., Mirasgedis, S., Appraisal of policy instruments for reducing buildings' CO2 emissions, *Building Research and Information*, 35 (4), pp. 458-477, 2007.
27. 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., Environmental damage costs from airborne pollution of industrial activities in the greater Athens, Greece area and the resulting benefits from the introduction of BAT, *Environmental Impact Assessment Review*, 28(1), pp. 39 – 56, 2008.
28. 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., 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), pp. 359 – 373, 2008.
29. Mavrotas, G., Georgopoulou, E., Mirasgedis, S., Sarafidis, Y., Lalas, D., Hontou, V., Gakis, N., Multi-objective Combinatorial Optimization for Selecting Best Available Techniques (BAT) in the Industrial Sector: the COMBAT tool, *Journal of Operational Research Society*, 60, pp. 906-920, 2009.
30. Tourkolias, C. Mirasgedis, S. Damigos, D. Diakoulaki D., Employment benefits of electricity generation: a comparative assessment of lignite and natural gas power plants in Greece, *Energy Policy*, 37 (10), pp. 4155-4166, 2009.
31. Tourkolias, C. Mirasgedis, S., Quantification and monetization of employment benefits associated with renewable energy technologies in Greece, *Renewable and Sustainable Energy Reviews*, 15 (6), pp. 2876-2886, 2011.
32. Mirasgedis S., Georgopoulou E., Sarafidis Y., Papagiannaki K., Lalas D.P., The impact of climate change on the demand pattern of bottled water and non-alcoholic beverages. Accepted for publication in *Business Strategy and the Environment*.
33. Markaki M., Belegri-Roboli A., Michaelides P., Mirasgedis S., Lalas D.P., The Impact of Clean Energy Investments on the Greek Economy: an Input-Output Analysis (2010-2020). *Energy Policy*, 57, pp. 263-275.

Publications in conference proceedings after full review

1. Mirasgedis, S., Diakoulaki, D., Papaioanou, L., 1995, "Environmental Costs of Electricity Production in Autonomous Systems", Proceedings of the 4th Conference on Environmental Science, Vol. B., pp. 586-595, University of the Aegean, Mytilene
2. Kollas, J. and Mirasgentis, S., Assessment of the External Costs of the Hydroelectric Fuel Cycle, 31st Universities Power Engineering Conference, vol. 1, pp. 226-229, Iraklio 1996.
3. Mirasgedis, S., Diakoulaki, D., Zervos, A., Papagiannakis., L., 1997, "Environmental Cost and Competitiveness of Renewable Energies: the Case of Crete", Proceedings of the 5th Conference on Environmental Science, University of the Aegean, Vol. B., pp. 289-298, Mytilene 1997
4. Diakoulaki, D., Mirasgedis, S., Papayannakis., L., Economics of Energy and Treatment of Uncertainty to Incorporate Environmental Considerations in Investment Decisions, VI International Conference AEDEM 1997, pp. 75-86, Chania.
5. Kollas, I.G. and Mirasgedis, S., A Comparison of the External Cost of Hydroelectric and Nuclear Power Plants, 9th Annual Conference, Risk Analysis: Facing the New Millennium, pp. 640-643, Rotterdam 1999.
6. 15. Mirasgedis, S. and Diakoulaki, D., 1999, "The Effect of Social Costing on the Greek Electric Sector", 6th Conference on Environmental Science G-NEST, Vol. C., pp. 143-152, Samos.
7. Diakoulaki, D., Mirasgedis, S. and Tziantzi, M., Environmental Externalities and the Development of Renewable Energy Sources, EAERE 2000 annual conference, European Association of Environmental and Resource Economists, Crete 2000.
8. Mirasgedis, S., Sarafidis, J., Georgopoulou, E., Adamopoulou, N. and Lalas, D.P., Evolution of Baseline Energy Consumption and Energy Related CO2 Emissions in Greece on the Basis of Alternative Energy Prices Scenarios, 7th Conference on Environmental Science and Technology G-NEST, Vol. B, pp. 639-650, Syros 2001.
9. Sarafidis, J., Mirasgedis, S. and Georgopoulou, E., Economic Evaluation of CO2 Emission Abatement Measures in the Greek Energy Sector, 7th Conference on Environmental Science and Technology G-NEST, Vol. B, pp. 780-791, Syros 2001.
10. Papagiannaki, K., Mirasgedis, S., Georgopoulou, E., Sarafidis, J., and Lalas, D.P., Estimate of Emissions Scenarios Effects on Climate Parameters in the Balkan Region, 8th Conference on Environmental Science and Technology G-NEST, pp. 659-666, Lemnos 2003.
11. Georgiou, P., Tourkoulas, C., Diakoulaki, D., Georgopoulou, E., Mirasgedis, S., Sarafidis, Y., Lalas, D.P., "Muticriteria evaluation of investment opportunities for the exploitation of the flexible mechanisms of the Kyoto Protocol", Proceedings of the 9th Conference on Environmental Science and Technology G-NEST, pp. 479-484, Rhodes, 2005.
12. Mavrotas, G., Georgopoulou, E., Mirasgedis, S., Sarafidis, Y., Lalas, D., Hontou, V., "Evaluation and Selection of Best Available Techniques (BAT) for the industries in greater Athens area using multiobjective combinatorial optimization", Proceedings of the 19th Mini-EURO Conference ORMMES 2006 'Operational Research Models and Methods in the Energy Sector', 6-8 September 2006, Coimbra-Portugal, 2006.
13. Koepfel, S., Ürgen-Vorsatz, D., Mirasgedis, S., 2007, Is there a silver bullet? – A comparative assessment of twenty policy instruments applied worldwide for enhancing energy efficiency in buildings, ECEEE 2007 Summer Study, La Colle sur Loup Côte d'Azur, France, 2007.
14. Tourkoulas, C., Diakoulaki, D., Mirasgedis, S., Mavrotas, G. Public health effects from energy use in the industrial sector, Proceedings of the 10th Conference on Environmental Science and Technology, pp. A-1441 – A-1448, Kos island, 2007.
15. Markaki M, Mirasgedis S, Belegri-Roboli A and Sarafidis Y, The environmental impact of clean energy investments on the Greek economy: an input-output analysis (2010-2020). 13th International Conference on Environmental Science and Technology CEST 2013, Athens.

Publications in conference proceedings

1. Diakoulaki, D., Mirasgentis, S., Papaioannou, L., 1994, "Noise Impacts and Disamenity Costs of Wind Energy", European Wind Energy Association Conference and Exhibition, vol. II, pp. 156-159, Thessaloniki.
2. Mirasgedis, S. and Kollas, J., 1996, "Environmental Impacts of Micro Hydroelectric Projects", Proceedings of the 5th National Conference on Renewable Energy Sources, Vol. B., pp. 79-88, Athens.
3. Mirasgedis, S. and Diakoulaki, D., 1996, "The Estimation of Energy Externalities as a Prerequisite for a Widespread Usage of Renewable Energy Sources", Proceedings of the 5th National Conference on Renewable Energy Sources, Vol. B., pp. 587-597, Athens.

4. Mirasgedis, S., Mavrotas, G. and Diakoulaki, D., 1997, "Treatment of Uncertainty in Environmental Impact Assessment by Using the Fuzzy Set Theory", 11th National Conference on Sustainable Development organized by the Hellenic Union of Operational Research, Vol. I, pp. 70-79, Athens 1997.
5. Mirasgedis, S. and Diakoulaki, D., 1998, "Cost - Benefit Analysis for the Evaluation of Projects Concerning Environmental Protection", 12th National Conference on Companies and New Technologies organized by the Hellenic Union of Operational Research, Samos.
6. Kollas, I.G., Mirasgedis, S., Diakoulaki, D. and Mimikou, M.A., Comparative Risk Assessment of Energy Sources Used for Electricity Production in Greece, PSAM5, International Conference on Probabilistic Safety Assessment and Management, Edited by S. Kondo and K. Furuta, Vol.1, pp. 77-83, Universal Academy Press, Inc. Tokyo Japan, 2000.
7. Kollas, I.G., Mirasgedis, S., Health and Environmental Impacts of Electricity Production from Hydroelectric Power Plants, Proceedings of ESREL 2000, Foresight and Precaution, Cottam, Harvey, Pape & Tait (Eds), ISBN 90 5809 1406, pp. 551-558, Rotterdam 2000.
8. Mirasgedis, S., Gonzelmann, G., Georgopoulou, E., Koritarov, V., and Sarafidis, Y., Long-Term GHG Emissions Outlook for Greece: results of a detailed bottom-up energy system simulation, 6th European Conference on Modeling in Energy Economics and Policy, International Association for Energy Economics (IAEE), Zurich 2004.
9. Georgiou, P., Tourkolias, C., Diakoulaki, D., Georgopoulou, E., Mirasgedis S., Sarafidis, Y., Exploring and multi-criteria evaluation of investment opportunities in the Context of the Flexible Mechanisms of the Kyoto Protocol. 5th Hellenic Conference on Chemical Engineering, Thessaloniki, May, 2005.
10. Diakoulaki D., Mirasgedis S., Tourkolias, C., The Manufacturing Industry in Attiki: Substitution or Relocation? Proceedings (CD) 3rd Conference of Technical Chamber: "Greek Industry: Towards Knowledge Economy". Athens, 2006.
11. Diakoulaki D., Dimitropoulos G., Georgiou P., Tourkolias C., Georgopoulou E., Mirasgedis S., Sarafidis Y., Lalas D., Promoting wind energy through the flexible mechanisms of the Kyoto Protocol, Proceedings (CD) of the European Wind Energy Conference, Athens 2006.
12. Gaglia, A., Balaras, K., Georgopoulou, E., Mirasgedis, S., Sarafidis, Y., Lalas, D., 2007: "Potential for energy conservation and emissions reduction in Greek buildings – Mitigation measures", 2nd Hellenic Conference of Mechanical-Electrical Engineering, 16-18 May, Athens (in Greek).
13. Mavrotas, G., Georgopoulou, E., Mirasgedis, S., Sarafidis, Y., Lalas, D., Hontou, V., Gakis, N., 2007: "An Integrated Approach for the Evaluation and Selection of Best Available Techniques in Attiki's Industries through Multi-criteria Mathematical Programming. 6th National Conference of Chemical Engineering, pp. 669-672, Athens, May-June 2007.
14. Tourkolias C, Diakoulaki D, Mirasgedis S and Damigos D. "The Social Cost of the Greek Power System; Comparative Evaluation of Energy Scenarios for 2020". RENES 2010, 4th National Conference: The Implementation of Renewable Energy Sources towards and Ambitious and Reliable National Action Plan. Athens, 2010.
15. Tigas K, Giannakidis G, Lalas D, Mirasgedis S, Sarafidis Y, Sakellaridis N, Nakos C, Mantzaris I, Campouris I. "Analysis of the Potential for RES and Energy Conservation Potential in the Greek Energy System in the Context of the EU Energy and Climate Package" RENES 2010, 4th National Conference: The Implementation of Renewable Energy Sources towards and Ambitious and Reliable National Action Plan. Athens, 2010.
16. Tourkolias C, Tzovla E, Mirasgedis S, Valuing the Visual Intrusion of a Large Scale Exploitation of Wind Farms. 9th National Conference of Chemical Engineering: The Contribution of Chemical Engineering in Sustainable Development, Athens, 2013.
17. Basdekis C, Tourkolias C, Mirasgedis S, Carbon Footprint of Products: an Instrument for Competitiveness. Ανθρακικό αποτύπωμα προϊόντων: εργαλείο για την απόκτηση ανταγωνιστικού πλεονεκτήματος. 9th National Conference of Chemical Engineering: The Contribution of Chemical Engineering in Sustainable Development, Athens, 2013.

PARTICIPATION IN FUNDED RESEARCH PROJECTS

Participation in research programmes as project leader

"Simulation of the Greek energy system with equilibrium models for estimating the energy conservation potential". Source of funding: Centre for Renewable Energy Sources, Duration: 6/2011-6/2012, Budget: €17,500.

"Methodological approaches and assumptions used by Annex I parties for the preparation of their GHG projections reported in the 4th National Communications". Source of funding: United Nations Framework Convention on Climate Change (UNFCCC), Duration: 2007, Budget: €3,600.

"The effects of environmental constraints in the electricity generation sector". Source of funding: Greek Public Power Corporation, Duration: 2002 – 2003, Budget: €23,600.

"Capacity building for climate change related activities in Albania". Source of funding: Greek Ministry for the Environment, Physical Planning and Public Works, Duration: 2001 – 2002, Budget: €200,000.

"Capacity building for climate change related activities in Bosnia - Herzegovina", Source of funding: Greek Ministry for the Environment, Physical Planning and Public Works, Duration: 2001 – 2002, Budget: €191,000.

«Facilitating the Kyoto Protocol Objectives by the Clean Development Mechanism in Small Island Developing States - CDMSIDS Project», Source of funding: European Commission / DG Environment, Duration: January – December 2001, Budget: 75.000 € (total), 17.820 € (NOA).

«Implications of flexible mechanisms under the Kyoto protocol for Europe». Source of funding: International Atomic Energy Agency, Duration: January – December 2001. Research Project of Technical Assistance.

Participation in research programmes as senior researcher:

"Low Carbon South East Europe (LOCSEE)". Commissioned by: Transnational South East Europe (SEE) Programme (project code: SEE/D/0166/2.4/X). Duration: 10/2012 – 9/2014. Budget: 1,515,451€ (NOA: 147,282€).

"Adaptation of an energy model for the estimation of greenhouse gases emissions". Commissioned by: Centre for Renewable Energy Sources (KAPE/CRES). Duration: 2011-2012, Budget: 17,500€.

"Support for the free allocation of GHG emission credits to installations during the period 2013-2020 with the framework of the EU-ETS". Commissioned by: Ministry for Energy, Environment and Climate Change. Duration: 2012, Budget: 15,000€.

"Support Actions for the national implementation of the EU Directive on Emissions Trading and the monitoring of measures for the reduction of GHG emissions from the energy sector". Commissioned by: Greek Ministry for Development within the 3rd Community Support Framework – Operational Programme "Competitiveness", Duration: 2004 – 2007, Budget: €1,210,800 (€ 580,560 for NOA).

"Support Actions for the fulfillment of national commitments under the UNFCCC and the Kyoto Protocol". Commissioned by: Greek Ministry for the Environment, Physical Planning and Public Works within the 3rd Community Support Framework – Operational Programme "Environment", Duration: 2003 – 2009, Budget: €748,800.

"Initiative on the assessment of climate change impacts in African developing countries". Commissioned by: Greek Ministry of Foreign Affairs - Greek Ministry for the Environment, Physical Planning and Public Works, Duration: 2004 – 2008, Budget: 125.000 €

"Decision Aid Framework for the assessment of impacts from the introduction of Best Available Techniques in industry (DAF-BAT)". Commissioned by: Greek General Secretariat for Research and Technology within the 3rd Community Support Framework – Operational Programme "Competitiveness", Duration: 2003 – 2006, Budget: €1,787,200 (€598,110 for NOA).

"Evaluating, monitoring and strengthening the environmental dimension of the Operational Program for Competitiveness". Commissioned by: Greek Ministry for Development within the 3rd Community Support Framework – Operational Programme "Competitiveness", Duration: 2003, Budget: €90,000.

"Capacity building for climate change related activities in Bulgaria". Commissioned by: Greek Ministry for the Environment, Physical Planning and Public Works, Duration: 2001 – 2002, Budget: €200,000

"Capacity building for climate change related activities in the Federal Republic of Yugoslavia". Commissioned by: Greek Ministry for the Environment, Physical Planning and Public Works, Duration: 2001 – 2002, Budget: €191,000.

"Capacity building for climate change related activities in Romania". Commissioned by: Greek Ministry for the Environment, Physical Planning and Public Works, Duration: 2001 – 2002, Budget: €200,000.

"Capacity building for climate change related activities in FYROM". Commissioned by: Greek Ministry for the Environment, Physical Planning and Public Works, Duration: 2001 – 2002, Budget: €191,000.

"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". Commissioned by: Ministry for Agriculture, Natural Resources and the Environment of Cyprus, Duration: January 2001 – March 2002, Budget: €73,500.

"Planning of Support Policies and Measures for the Limitation of CO2 Emissions in the Residential – Tertiary Sector". Commissioned by: Greek Ministry for the Environment, Physical Planning and Public Works, Duration: 2002, Budget: €103,888.

"2nd National Programme for the reduction of greenhouse gases in Greece during the 2000-2010 time horizon". Commissioned by: Greek Ministry for the Environment, Physical Planning and Public Works, Undertaken by: National Observatory of Athens, Duration: 2001 – 2002, Budget: included in the budget of the program "Climate Change" (see below)

"Inventory of air emissions, solid and liquid wastes from industry and air emissions from central heating installations", Commissioned by: Greek Ministry for the Environment, Physical Planning and Public Works, Undertaken by: 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, Budget: 235.000 € (total, of which NOA: 52.000 €)

"Climate Change". Commissioned by: Greek Ministry for the Environment, Physical Planning and Public Works, Undertaken by: National Observatory of Athens, Duration: 1998 – 2002, Budget: 530.000 €

"Optimal integration of environmental requirements, deriving from the Kyoto Protocol, in national energy planning for the next decade", Commissioned by: Greek Ministry for Development, Undertaken by: National Observatory of Athens, Duration: 1999 – 2000, Budget: 143.000 €

"Green economy, social cohesion and employment". Commissioned by: Institute of Employment / General Confederation of Workers of Greece, Duration: 2009-2011, Budget: €120,000.

"Estimation of the economic and social impacts of solid waste management". Commissioned by: Institute of Local Administration, Duration: 2006-2007, Budget: ~ €60,000.

"Assessment of the external costs and benefits of the Greek power systems on the basis of the updated ExternE methodology". Commissioned by: Public Power Corporation, Duration: 2007-2008, Budget: €120,000.

"Tools for sustainability: development and application of an integrated framework (SusTools)". Commissioned by: DG Research of the European Commission within the framework of EESD-ESD-3 ("Environment and Sustainable Development"), Duration: 2003 – 2004, Budget: €593,000.

"Externalities of Energy: Extension of accounting framework and policy applications (ExternE-Pol)", Commissioned by: DG Research of the European Commission within the framework of EESD-ESD-3 ("Environment and Sustainable Development"), Duration: 2002 – 2004, Budget: €969,000.

"The National Implementation in the EU of the ExternE Accounting Framework (ExternE)", Scientific coordinator of the project team, Commissioned by: European Commission (DGXII), Duration: 1996-1998.

"Application of the Method Developed in the "External Costs of Fuel Cycles. Project to Selected Cases Relevant to the Greek Energy System (ExternE)", Commissioned by: European Commission (DGXII), Duration: 1993-1995.

"Climate Change – the Greek Action Plan for Reducing CO2 Emissions", Commissioned by: Greek Ministry for the Environment, Physical Planning and Public Works, Undertaken by: National Technical University of Athens, Duration 1994-1995, Budget: 88000 €.

"Comparative Risk Assessment of Energy Sources in Greece", Commissioned by: International Atomic Energy Agency, Undertaken by: National Center of Scientific Research "Demokritos", Duration: 1994-1998.

"Estimation of Hydro Fuel Cycle Externalities", Commissioned by: European Commission (DGXII), Duration: 1996-1998.