



## CURRICULUM VITAE

**DIAS HARALAMBOPOULOS**, Professor  
Energy Management Lab, Director  
Dept. of Environment, University of the Aegean

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## *STUDIES*

- 1973-1978 National Technical University of Athens, Dept of Mechanical & Electrical Engineering, 1978.
- 1978-1979 Postgraduate Studies, Department of Management Sciences, University of Manchester Institute of Science and Technology (UMIST), Manchester UK. Diploma in Management Sciences, 1979.
- 1979-1980 Postgraduate Studies, Department of Production Engineering, University of Birmingham, UK. Master of Science (MSc), 1980.
- 1980-1983 Doctoral Programme, Department of Mechanical Engineering, University of Birmingham. Doctor of Philosophy (PhD), 1983.

## *Professional*

- 2008- Professor of Energy Sources, Dept of Environment – University of the Aegean.
- 2002- 2008 Associate Professor, Dept of Environment, - University of the Aegean.
- 1997 - 2002 Assistant Professor, Dept of Environment – University of the Aegean.
- 1990 - 1997 (Adjunct )Assist.Professor, Dept of Environment – University of the Aegean.
- 1989 - 1990 (Adjunct) Lecturer, Dept of Environment, University of the Aegean.
- 1987 - 1997 Scientific Advisor ELKEPA, for environment, solar energy and informatics.
- 1985 - 1987 Solar Village Ltd., Research Team.

## ***Member of Chambers & Societies***

- Member of the Technical Chamber of Greece (1978).
- Member of International Solar Energy Society (1980).
- Member of National Body of Mechanical and Electrical Engineers (1978).

## ***RESEARCH INTERESTS***

- Energy and Environmental modeling. Analysis of causal relationships and decision making.
- Multi-criteria Analysis and applications in Energy Planning.
- Energy Policy and Modelling (Kyoto Protocol, Interactions of environmental and energy policies).
- Renewable Energy Resources. Potential, Technology, Policy.
- Design of solar energy systems.
- Modelling of fluid tanks for thermal storage of solar energy.
- Environmental Pressures from the energy cycle.
- Μοντελοποίηση λειτουργίας γεωθερμικών θερμοκηπίων.
- Analysis of wind potential for electricity production.
- Energy conservation and auditing for buildings and industry..

## ***Scientific Journals***

- *Energy-The International Journal* (Elsevier): external reviewer.
- *International Journal of Energy Sector Management: External reviewer.*
- *Euro-Asian Journal of Sustainable Energy Policy*: Editorial Board.

## **PUBLICATIONS (SCIENTIFIC JOURNALS)**

1. Hatzigeorgiou, E., Polatidis, H., Haralambopoulos D. (2011). CO2 emissions, GDP and Energy Intensity: A multivariate cointegration and causality analysis for Greece, 1977-2007. *Applied Energy* 88: 1377-1385.
2. Hatzigeorgiou, E., Polatidis, H., and Haralambopoulos, D. 2010. Energy CO2 emissions for 1990-2020: A Decomposition Analysis for EU-25 and Greece. *Energy Sources, Part A*, (32):1908-1917.
3. Hatzigeorgiou E., H. Polatidis, D. Haralambopoulos, "CO2 emissions in Greece for 1990-2002: A decomposition analysis and comparison of results using the Arithmetic Mean Divisia Index and Logarithmic Mean Divisia Index techniques", *Energy* 33 (2008) 492-499.
4. Giannoulis S., D. Haralambopoulos, Distributed Generation in an isolated grid: Methodology of case study for Lesbos - Greece *Applied Energy* (2011).
5. Karetzos, S., D. Haralambopoulos, & K. Kotis (2011). An ontology-based framework for authoring tools in the domain of sustainable energy education. In *International Journal of Agricultural and Environmental Information Systems: Special issue on Intelligent Systems for Engineering Environmental Knowledge*, 2 (1), 40-62. DOI:10.4018/jaeis.2011010103.
6. Karetzos, S. & D. Haralampopoulos (2011). Integration of competencies in an ontology-based framework supporting teachers to construct learning designs in the domain of sustainable energy education. *Journal of Teacher Education for Sustainability* 13 (1), 129-139. DOI:10.2478/v10099-011-0010-4.
7. Georgiou A., H. Polatidis and Dias Haralambopoulos, "Wind energy resource assessment and development: Decision analysis for site evaluation and application", *Energy Sources, Part A: Quality, Utilization, and Environmental Effects*, 2011.
8. Tegou L.I., H. Polatidis and D. Haralambopoulos, "A multi-criteria framework for an isolated electricity system optimization/design with RES in the context of DG: the case study of Lesbos island Greece", *J. of Green Energy* (2011).
9. Salta M., H. Polatidis, Dias Haralambopoulos, "Industrial combined heat and power (CHP) planning: Development of a methodology and application in Greece", *Applied Energy* 88 (2011) 1519-1531.
10. Polatidis H., K. Haralambidou and Dias Haralambopoulos, "Multi Criteria Decision Analysis for geothermal energy: a comparison between the ELECTRE III and the PROMETHEE II methods", *Energy Sources, Part B: Economics, Planning, and Policy*, 2011.
11. Tegou, L.I., H. Polatidis and D. Haralambopoulos, "Environmental management framework for wind farm siting: Methodology and case study", *J. of Environmental Management*, 91 (2010), 2134-2147.
12. Dimitriou D., H. Polatidis and D. Haralambopoulos, "Integrated Energy Planning for the Residential Sector: The case-study of Cyprus", *Energy Sources, Part B*, (2010).
13. Salta M., H. Polatidis, D. Haralambopoulos, "Energy use in the Greek manufacturing sector: A methodological framework based on physical indicators with Aggregation and Decomposition Analysis", *Energy* (2009).
14. Polatidis H., D.A. Haralambopoulos, F. Bruinsma, R. Vreeker and G. Munda, Decision Aid with the MCDA-RES Software: A Wind-Hydro Energy Application for an Island of the Aegean, Greece. *Energy Sources, Part B*, 4:407-419, 2009

15. Palaiologos, P., Kalabokidis K., H. Feidas, H. Polatidis, D. Haralambopoulos, "Wind Characteristics and Mapping for Power Production in the Island of Lesvos", *Computer and Geosciences*, 37, 962-972, (2011).
16. H. Polatidis, D. Haralambopoulos, 'Renewable Energy Sources Planning & Design: A multi-criteria approach', in Jeroen van den Bergh and Frank Bruinsma, *Managing the Transition to Renewable Energy: Theory and Practice*, p. 295-325, Edward Elgar 2008, Cheltenham, UK – Northampton, MA, USA (book chapter)
17. Papadopoulos E. and Haralambopoulos D.A., «Carbon Emissions: Responses to Energy Intensity, Energy Conversion and Energy Prices. Cointegration analysis for Greece», ECOS 2006, American Society for Mechanical Engineers (ASME), 19th Int. Conf. on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems, 2006.
18. Polatidis, H., Haralambopoulos D., 'Decomposition Analysis and Design of sustainable renewable energy systems; A new approach', *Energy Sources Part B* 2:4 (2007) 371-380
19. Polatidis H. and Haralambopoulos D., (2007). «Renewable energy systems: A societal and technological platform», *Renewable Energy*, 32, 329-341.
20. Polatidis, H., Haralambopoulos, D., Munda, G., Vreeker, R., (2006), «Selecting an appropriate Multi-Criteria Decision Aid Technique for renewable energy planning», *Energy Sources, Part B*, 1:181-193.
21. Polatidis H., Haralambopoulos D., (2004), «Local renewable energy planning; A participatory multi-criteria approach», *Energy Sources*, Taylor & Francis, Vol 26, No 13, pp. 1253 - 1264.
22. Potoglou D., A. Kouzeli-Katsiri and D. Haralambopoulos (2003), «Solar distillation of olive mill wastewater», *Renewable Energy*, Volume 29, 569-579.
23. Polatidis H., Haralambopoulos D.A., Kemp R., Rothman D. (2003), «Creating an energy system that we want but don't know yet, using Integrated Assessment, Transition Management and Multi-Criteria Analysis», *Integrated Assessment-Swets & Zeitlinger*, Vol 4, No 3, p. 205-213 (2003).
24. Haralambopoulos D.A. and Polatidis H. (2003), «Renewable Energy Projects: Structuring a Multi-Criteria Group Decision-Making Framework», *Renewable Energy*, Volume 28/6, 961-973.
25. Haralambopoulos D., Biskos G., Halvadakis C. and Lekkas T. «Dewatering of wastewater sludge through a solar still», *Renewable Energy*, 26 (2002) 247-256.
26. Haralambopoulos D.A., Fappas P., Safos M. and Kovras H. (1999), «Energy consumption in the domestic sector: The case of Mytilene», *Energy-The International Journal* 26 (2001) 187-196.
27. Melas D., Abate G., Haralambopoulos D. and Kelesidis A., «Estimation of meteorological parameters for air quality management: Coupling of sodar data with simple numerical model», *Journal of Applied Meteorology* (2000) 509-515.
28. Stefanou P. and Haralambopoulos D., «Energy demand and environmental pressures due to the operation of Olympic Airways in Greece». *Energy-The International Journal* 23/2, 125-136 (1998).
29. Haralambopoulos D.A. and Paparsenos G.F., «Assessing the thermal insulation of old buildings - The need for in-situ spot measurements of thermal resistance and planar infrared thermography», *Energy Conversion and Management*, Pergamon Press 39, 1/2, 65-79 (1998).

- 30.** Haralambopoulos D. and Spilanis I., «Identification and assessment of environmental benefits from solar hot water production», *Renewable Energy*, Pergamon Press 11, 2, 177-189 (1997).
- 31.** Haralambopoulos D., Pantelakis I., Paraskevas P. and Lekkas Th., «Waste treatment and renewable energy potential in the Aegean islands», *Energy-The International Journal*, 22, 725-733 (1997).
- 32.** Haralambopoulos D., Paparsenos G.F. and Kovras H., «Assessing the economic aspects of solar hot water production in Greece», *Renewable Energy*, Pergamon Press 11, 2, 153-167 (1997).
- 33.** Haralambopoulos D.A., Haloulakos G. and Lekkas Th., «An investigation of wind electricity production to cover the energy needs of a solar evaporation salt plant», *Renewable Energy* 11, 1, 1-13 (1997).
- 34.** Haralambopoulos D., «Analysis of wind characteristics and potential in the east Mediterranean - The Lesvos case», *Renewable Energy*, Pergamon Press 6, 445-454 (1995).
- 35.** Mavros P., Belessiotis V. and Haralambopoulos D., «Stratified energy storage vessels. Characterization of performance and modeling of mixing behavior», *Solar Energy*, Pergamon Press 52, 327-336 (1994).
- 36.** Belessiotis V. and Haralambopoulos D., «Testing solar water heating systems in Athens-Greece», *Solar Energy*, Pergamon Press 50, 167-177 (1993).

## **PRESENTATIONS (CONFERENCES)**

1. Hatzigeorgiou, E., Polatidis, H., Haralambopoulos D.. “Energy-related CO2 emissions for Greece: Decomposition Analysis for 1990-2002, 4th International Congress for South Eastern Europe, Energy Efficiency and Renewable Energy Sources, Sofia, Bulgaria, 7-9 April (2008).
2. Karetzos, S., & Haralambopoulos, D. (2009). An ontology to support authoring tools for sustainable energy education. In L. Barolli, F. Xhafa, H-H. Hsu (Eds.), Proceedings of 3rd International Conference on Complex, Intelligent and Software Intensive Systems (CISIS)- Intelligent-Systems for Engineering Environmental Knowledge (i-SEEK 2009), Fukuoka, Japan, March 16-19 (2009) (pp.1144-1151). IEEE Computer Society. DOI: <http://doi.ieeecomputersociety.org/10.1109/CISIS.2009.186>.
3. Karetzos, S., D. Haralambopoulos. Ontologies to support teachers to construct learning designs in the domain of sustainable energy education. Paper presented at the 8th International JTEFS/BCC Conference on Sustainable Development - Culture - Education. Paris, France, 17-19 May (2010).
4. Karetzos, S., & Haralambopoulos, D. (2010). “A tool to support authoring of learning designs in the field of sustainable energy education”. In B.White, P. Isaias & D. Andone (Eds.), Proceedings of the IADIS International Conference WWW/INTERNET 2010 (pp.345-349), Timisoara, Romania, 14 - 18 October 2010. ISBN: 978-972-8939-25-0.
5. Salta, M., Polatidis, H., Haralambopoulos D., “Penetration of Cogeneration in the Industrial Sector in Greece; A Primary Energy Savings Indicator Based on Actual Final Energy Consumption”, Proceedings of the International Conference on Energy, Environment and Sustainable Development (EESD), World Academy of Science Engineering and Technology, vol. 54, pp. 40-53, Paris, 24-26 June (2009).
6. Tegou, L.-I., Polatidis, H., Haralambopoulos, D. (2009). “Wind turbines site selection on an isolated island”. 2nd International Conference on Management of Natural Resources, Sustainable Development and Ecological Hazards II (Ravage of the Planet II), Western Cape, South Africa, WIT Press, p. 313-324.
7. Tegou, L.-I., Polatidis, H., Haralambopoulos, D. (2007). “Distributed Generation with Renewable energy Systems: The spatial dimension for an autonomous grid”. 47th Conference of the European Regional Science Association (ERSA), paper No 728, Paris, France.
8. Γιαννούλης Σ., Η. Πολατίδης, και Δ. Χαραλαμπίδης. “Κατανομημένη παραγωγή: διείσδυση και προβλήματα σε νησιωτικές περιοχές: η περίπτωση της Λέσβου”. Ινστιτούτο Ηλιακής Τεχνικής, 8ο εθνικό συνέδριο για τις Ήπιες Μορφές Ενέργειας, Θεσσαλονίκη 29 – 31 Μαρτίου (2006).
9. Giannoulis S., H.Polatidis and D.Haralambopoulos, «*The penetration of Distributed Generation and the problems in the energy networks of islands; the case of Lesbos, Greece*», Proc. 8th National Conference on Renewable Energy Sources, Aristotle University of Salonica, Dept. of Mechanical Engineering, Institute of Solar Energy Technologies, 29-31 March 2006, Greece.
10. Φλούδα Ε., Α.Τρούμπης και Δ.Χαραλαμπίδης, «*Εκτίμηση βιο-αποθηκών άνθρακα των δασικών οικοσυστημάτων της Ελλάδας, με τη χρήση δορυφορικών δεδομένων και χωρικών μεταβλητών*», Συνέδριο Οικολογίας & Διατήρηση Βιοποικιλότητας, Ιωάννινα, 16-19 Νοεμβρίου, 2006.

11. Polatidis H. and D.Haralambopoulos, «Sustainable Design of Energy Systems-The case of geothermal energy», 46th Conf. European Regional Science Association (ERSA), Volos, Greece, 2006.
12. Salta M., D.Haralambopoulos and H.Polatidis, «The implementation of Renewable Energy Sources in Greece, Netherlands, and Spain; the decision-making process, conflicts and proposals», Proc. 3rd National Conf., "The implementation of Renewable Energy Sources; prospects and priorities towards the 2010 target», National Technical University of Athens, Renewable Energy Sources Unit, 23-25 Feb 2005.
13. Polatidis H. and D.Haralambopoulos, «Integrated Design of Alternative Energy Options: A Multi-Criteria Approach», Workshop The Transition to Renewable Energy: Complementary and Conflicting Perspectives, Special Session of the 45th Congress of the European Regional Science Association (ERSA), 2005, Amsterdam.
14. Eleftheriadou E., D.Haralambopoulos and H. Polatidis, «Spatial Multi-Criteria Analysis for wind energy projects; the case of Lesvos, Greece», Proc. 7th Pan-Hellenic Geographical Conf.-Hellenic Geographical Association, vol. II, p.390-395, Mytilene, Lesvos, Greece, 14-17 October 2004.
15. Polatidis H., E.Eleftheriadou and D.Haralambopoulos, «Multi-Criteria and Multi-Participatory Analysis of Wind Energy Projects in Lesvos, Greece», EURO XX Conf., 20th European Conference on Operational Research and the Management of Electronic Services, Rhodes, Greece, July 2004.
16. Polatidis H., E.Eleftheriadou and D.Haralambopoulos, «A Multi-Criteria Tool for Decision-Making regarding Renewable Energy Sources», Proc. RES Forum The market of Renewable Energies in Greece, Heliotopos Conferences, Milos 21-23 July 2004, Greece.
17. Polatidis H. and D.Haralambopoulos, «A Multi-criteria and Multi-participatory decision-aiding process for RES projects», Proc. Workshop Energy and Environment in Lesvos, Municipality of Mytilene, Mytilene, Greece, Sept. 2003.
18. Vogianis E., M.Niaounakis, C.P.Halvadakis and D.Haralambopoulos, «Radon-222 from hot spring waters of Lesvos island: Assessment and remediation of risk in the case of Polichnitos spa», 7th International Symposium - Natural Radiation Environment (NRE-VII) 20-24 May 2002, Rhodes, Greece.
19. Πολατίδης Η. και Δ.Χαραλαμπόπουλος, «Μεθοδολογικό πλαίσιο πολυκριτηριακής αξιολόγησης επενδύσεων ανανεώσιμων πηγών ενέργειας», 2ο Συνέδριο RENES: Η Εφαρμογή των Ανανεώσιμων Πηγών Ενέργειας -Προτεραιότητες σε Συνθήκες Απελευθερωμένης Αγοράς, Ε.Μ.Π. (2001).
20. Paraskevas P.A., D.L.Giokas, G.Kolokythas, D.Haralambopoulos and A.Stathelli, «Wastewater Management in the island of Lesvos, Greece», 7ο Συνέδριο Περιβαλλοντικής Επιστήμης και Τεχνολογίας (2001).
21. Κολοκυθάς Γ., Δ.Χαραλαμπόπουλος Δ., Π.Παρασκευάς και Θ.Λέκκας, «Κατανάλωση ενέργειας στις μονάδες επεξεργασίας υγρών αποβλήτων στα νησιά του Αιγαίου και δυνατότητα κάλυψης με αιολική ενέργεια». Πρακτικά Συνεδρίου Περιβαλλοντικής Επιστήμης και Τεχνολογίας, (1999).
22. Χαραλαμπόπουλος Δ., «Περιβαλλοντικό κόστος/όφελος από την διεύδυση της συμπαραγωγής θερμότητας και ηλεκτρισμού στην Ελλάδα», Proc. Conference on Cogeneration for Heat and Power, European Communities DG XVII, Athens, pp. 159-171, (1994).
23. Χαραλαμπόπουλος Δ., «Περιβαλλοντικές επιπτώσεις από την παραγωγή ηλεκτρισμού στην Ελλάδα», Πρακτικά 3ου Συνεδρίου Περιβαλλοντικής Επιστήμης και Τεχνολογίας, Λέσβος, Τόμος Β, σ. 219-226 (1993).
24. Παπαρσένος Γ. και Δ.Χαραλαμπόπουλος, «Αξιολόγηση της Θερμομόνωσης Κτιρίων στην Ελλάδα», Πρακτικά 4ου Εθνικού Συνεδρίου Ήπιες Μορφές Ενέργειας, Ι.Η.Τ., Ξάνθη, σ. 106-114 (1992).
25. Χαραλαμπόπουλος Δ., Δ.Παπακωνσταντίνου και Γ.Παπαρσένος, «Περιβαλλοντικό κόστος-όφελος στην Ελλάδα από την χρήση ηλιακών συστημάτων για θέρμανση ζεστού

- νερού χρήσης», Πρακτικά 4ου Εθνικού Συνεδρίου Ήπιες Μορφές Ενέργειας, Ι.Η.Τ., Ξάνθη, σ. 511-517, 1992.
26. Fotilas P. and D.Haralambopoulos, «*Energy and environmental concerns*», Proc. 8th Seminar-Workshop of the Asian-European Community Energy Management Training and Research Centre, Jakarta, 18 pp. (1992).
  27. Μορίκη Α., Δ.Συκιώτης και Δ.Χαραλαμπίδης, «*Γεωθερμικός σταθμός σε ένα μικρό νησί του Αιγαίου - Προκαρκτική εξέταση περιβαλλοντικών επιπτώσεων*», Πρακτικά 2ου Συνεδρίου Περιβαλλοντικής Επιστήμης και Τεχνολογίας, Μυτιλήνη, σ. 343- 348 (1991).
  28. Paparsenos G. and D.Haralambopoulos, «*Energy conservation in buildings: An auditing methodology of thermal insulation applied to Greek public buildings*», Proc. World Renewable Energy Congress, Reading, UK, pp. 2749-2753 (1990).
  29. Jesch L.F., D.A.Haralambopoulos and T.W.Greeves, «*The Birmingham experience with solar data acquisition and handling systems*», Proc. UK-ISES Conference Solar Energy Benefits Evaluated-Techniques and Results, Birmingham, pp. 297-301 (1982).
  30. Jesch L.F., D.A.Haralambopoulos and T.W.Greeves, «*Simulation and validation of solar heating control strategies*», Proc. Solar World Congress, ISES, Perth Australia, Vol. 1, pp. 74-78 (1983).
  31. Greeves T.W., D.A.Haralambopoulos and L.F.Jesch, «*Comparison of collector performance in two large active solar water heating systems*», Proc. Solar World Congress, ISES, Perth Australia, Vol. 1, pp. 185-189 (1983).
  32. Jesch L.F., H.H.Al-Ayfari and D.A.Haralambopoulos, «*Meteorological data logging and information processing for solar energy applications*», Proc. Solar World Congress, ISES, Perth Australia, Vol. 4, pp. 2274-2279 (1983).
  33. Jesch L.F., T.W.Greeves and D.A.Haralambopoulos, «*Simulation of optimal control strategies for large solar water preheat systems*», Proc. ISES Solar World Forum, Brighton UK, pp. 119-123 (1981).



## **THESES AND REPORTS**

1. Χαραλαμπίδης Δ., «Σύστημα αυτομάτου ελέγχου του pH των αποβλήτων μιας χημικής βιομηχανίας», Διπλωματική Εργασία, ΕΜΠ, Αθήνα, 101 σσ. (1978).
2. Haralambopoulos D.A., «*A case study examining the build-up of costs in an engineering firm in the North*», Dissertation, Dept. of Management Sciences, U.M.I.S.T., 34 pp. (1979).
3. Haralambopoulos D.A., «*Systems approach for the control of consumable tools in a large manufacturing industry*», MSc Thesis, Dept of Engineering Production, University of Birmingham, 134 pp. (1980).
4. Haralambopoulos D.A., «*Experimental and Theoretical Studies of a Plastic Flat Plate Collector*», MSc Thesis, Dept. of Mechanical Engineering, University of Birmingham, 139 pp. (1982).
5. Haralambopoulos D.A., «*Experimental and Theoretical Studies on Large Solar Heating Systems*», Διδακτορική Διατριβή, University of Birmingham, 159 pp. (1983).
6. Σχέδιο Προτύπου ΕΛΟΤ 1354.3, «*Κεντρικά Ενεργητικά Ηλιακά Συστήματα για Θέρμανση Νερού Χρήσης- Γενικός Σχεδιασμός*», (1992).
7. Χαραλαμπίδης Δ., Α. Μορική και Δ. Συκιώτης, «*Προκαταρκτική Μελέτη Περιβαλλοντικών Επιπτώσεων από την Λειτουργία ενός Γεωθερμικού Σταθμού Παραγωγής Ηλεκτρισμού*», Πανεπιστήμιο Αιγαίου, Τμήμα Περιβάλλοντος, Μυτιλήνη, Εσωτερική Έκθεση (1991).
8. «*Τα Πολυμέσα στην Τριτοβάθμια Εκπαίδευση*». Έκθεση, Γραμματεία Έρευνας του Πανεπιστημίου Αιγαίου (1995).
9. «*Geothermal distillation and heating for greenhouses*», Report-DGXVII Program THERMIE (1996).
10. «*Renewable Energy Penetration in the Touristic Industry*», Report-DG XVII-ALTENER programme (2001).
11. «*Development of a geothermal field in Chios island*», Report-DG XVII-ALTENER programme (2001).
12. «*Multi-Criteria Decision Analysis for Renewable Energy Sources*», Report DG TREN, FP5, European Commission, 2004.

## ***DOCTORAL THESES (SUPERVISION)***

1. H. Polatidis, «Energy Analysis and Decision Making: Multicriteria Analysis and Methodological Framework»(2003).
2. E.Papadopoulos, «Liberalisation of Electricity Markets. Causal Relationships and the effect of taxation in the utilities», (2006).
3. E.Giannoulis, «Modelling Distributed Electricity Production in an isolated energy system», (2011)
4. M.Salta, «Distributed Generation: Model of analytic decomposition and Indices », (2011)
5. I.Tegou, «Distributed Generation: the spatial dimension», (2011)
6. S.Karetsos, «Education for Sustainable Energy with semantic web Ontologies», (2012).

## ***ADMINISTRATION WORK***

- Head of the Dept of Environment, 2010-2012.
- Vice Head of the Dept of the Environment, 2005 - 2010.
- Vice Head of Research Committee of University of the Aegean, 2005-9.
- Member of the Rectory, School of Environment, University of the Aegean, 2006 - today.
- Director of Energy Management Laboratory, 2004 - 2012.
- Head of Environmental Engineering and Science Sector, 2005.
- Representative of the Dept of Environment at the Research Unit of the University of the Aegean, 2005-2006.
- Representative of Assoc.Professors at the Senate, University of the Aegean, (2004 - 2005).
- Representative of Assist.Professors at the Senate, University of the Aegean, (2000-2001).
- Member of the Committee for the Building of the Dept. of Environment.

## RESEARCH PROGRAMMES

### AS COORDINATOR

- 1 TITLE: TEMPUS-Joint European Project: «Innovative Curriculum on Sustainable Energy-Development of a Master Program in Renewable Energy and Efficient Building Technologies for graduate engineers and architects».
- FUNDING: European Commission COORDINATOR: D.Haralambopoulos
- BUDGET: 498,191 € DURATION: 2007-2009
- BUDGET U.A.: 47,123 €
- 2 TITLE: «Ανάπτυξη Ολοκληρωμένης Μεθοδολογίας για την Έρευνα και Οργάνωση Δομών για την Εκμετάλλευση της Γεωθερμίας Χαμηλής Ενθαλπίας στη Νησιωτική Ελλάδα – ΘΕΡΜΟΠΟΛΙΣ»
- FUNDING: Γ.Γ.Ε.Τ. COORDINATOR: D.Haralambopoulos  
G..Matsinos
- BUDGET: 651,825 € DURATION: 2006-2007
- BUDGET U.A.: 71,325 €
- 3 TITLE: «Δυναμικός Ενεργειακός Σχεδιασμός: Ανάπτυξη Πλαισίου για Ενεργειακά Συστήματα με Κατανεμημένη Παραγωγή, Ανανεώσιμες Πηγές Ενέργειας και Ενεργειακή Απόδοση. Η Τεχνολογική, Χωρική και Αναλυτική Διάσταση. European National Fund. Programme for the Support of Human Resources in Research - ΠΕΝΕΔ»
- FUNDING: Υπουργείο Ανάπτυξης COORDINATOR: Δ.Χαραλαμπόπουλος
- BUDGET: 139,860 € DURATION: 2005-2008
- 4 TITLE: «Μεθοδολογικό Πλαίσιο για την Αναλυτική Αποδόμηση Ενεργειακών και Περιβαλλοντικών Δεικτών: Ανάπτυξη Λογισμικού Εργαλείου και Εφαρμογή στην Ελλάδα, European National Fund, Programme ΠΥΘΑΓΟΡΑΣ II»
- FUNDING: Υπουργείο Παιδείας COORDINATOR: D.Haralambopoulos
- BUDGET: 50,000 € DURATION: 2006-2007
- 5 TITLE: «Development and Application of a Multi-Criteria Decision Analysis Software Tool for Renewable Energy Sources, Category: Accompanying Measures, Contract No: NNE 5/273/2001. Commission, Directorate General for Energy and Transport (DG TREN), RTD and Demonstration on Energy, Environment and Sustainable Development-Part B: Energy Programme».
- FUNDING: European Commission COORDINATOR: D.Haralambopoulos

BUDGET: 696,732 € DURATION: 2002-2004

BUDGET U.A.: 301,325 €

- 6 TITLE: Development of a Geothermal Source in a Remote Island Region: The case of Chios in the Northern Aegean. Contract No: XVII/4.1030/Z/99-233. European Commission, Directorate General for Energy DG XVII, ALTENER II programme.
- FUNDING: European Commission COORDINATOR D.Haralambopoulos
- BUDGET 157,000 € DURATION: 1999-2001
- 7 TITLE: «The Penetration of Renewable Energy Sources in Tourist Industry, Contract No XVII/4.1030/Z/99-233, European Commission, Directorate General for Energy DG XVII, ALTENER Programme».
- FUNDING: European Commission COORDINATOR D.Haralambopoulos
- BUDGET 160,000 € DURATION: 1999-2001
- 8 TITLE: «Geothermal Heating of Greenhouses and Production of Distilled Water - THERMIE, DG XVII, E.C.»
- FUNDING: European Commission COORDINATOR D.Haralambopoulos
- BUDGET 68,940,000 δρχ DURATION: 1991-1994
- 9 TITLE: «Ορθολογική Χρησιμοποίηση Ενέργειας από τις Μικρομεσαίες Μεταποιητικές Επιχειρήσεις". Χρηματοδότης ΕΟΜΜΕΧ-VALOREN»
- FUNDING: European Commission COORDINATOR D.Haralambopoulos
- BUDGET: 2,800,000 δρχ. DURATION: 1989-1990
- 10 TITLE: «Γεωθερμικό Πεδίο Νισύρου. Προκαταρκτική Μελέτη Περιβαλλοντικών Επιπτώσεων από την λειτουργία Σταθμού Παραγωγής Ηλεκτρικής Ενέργειας».
- FUNDING: Δήμος Νισύρου COORDINATOR D.Haralambopoulos
- BUDGET: 660,000 δρχ DURATION: 1989

### ***PARTICIPATION IN RESEARCH PROGRAMMES***

- 11 TITLE: «The Contribution of landfill biogas to climate change, air pollution and the possibilities for renewable energy development, European National Fund, Programme ΠΥΘΑΓΟΡΑΣ Ι»
- FUNDING: Υπουργείο Παιδείας COORDINATOR: ΚΧαλβαδάκης
- BUDGET: € DURATION: 2004-2005
- 12 TITLE: INTERACT: Interaction in EU Climate Policy. European Commission, Directorate General for Energy and Transport (DG TREN), RTD and Demonstration on "Energy, Environment and

- Sustainable Development-Part B: Energy Programme, 2001-2002.
- |         |                     |             |   |
|---------|---------------------|-------------|---|
| FUNDING | European Commission | COORDINATOR | ΚΕΠΑ- Καποδιστριακό Πανεπιστήμιο Αθηνών |
| BUDGET: | 9,000 €             | DURATION:   | 2001-2002                               |
- 13 TITLE: "Ενεργειακή διαγνωστική σε ξενοδοχειακές μονάδες της Κρήτης", SAVE programme, DG XVII και Περιφέρεια Κρήτης. Directorate General for Energy and Transport (DG TREN), RTD and Demonstration on "Energy, Environment and Sustainable Development-Part B: Energy Programme, 2001-2002.
- |          |                     |             |                   |
|----------|---------------------|-------------|-------------------|
| FUNDING: | European Commission | COORDINATOR | D.Haralambopoulos |
| BUDGET:  | 20,000 €            | DURATION:   | 1997              |
- 14 TITLE: «Περιβαλλοντική Εκπαίδευση-Ανανεώσιμες Πηγές Ενέργειας στην Δευτεροβάθμια εκπαίδευση. ΕΠΕΑΕΚ».
- |          |                    |                   |                   |
|----------|--------------------|-------------------|-------------------|
| FUNDING: | Υπουργείο Παιδείας | ΕΠΙΣΤ. ΥΠΕΥΘΥΝΟΣ: | D.Haralambopoulos |
| BUDGET:  | 10,000 €           | DURATION:         | 1998              |
- 15 TITLE: «Μετρήσεις ενεργειακής απόδοσης και ενεργειακή διαγνωστική σε ξενοδοχειακές μονάδες της Κρήτης».
- |          |                   |              |                   |
|----------|-------------------|--------------|-------------------|
| FUNDING: | Περιφέρεια Κρήτης | COORDINATOR: | D.Haralambopoulos |
| BUDGET:  | 10,000 €          | DURATION:    | 1996              |
- 16 TITLE: «Energy auditing with spot measurements and infrared camera of large buildings in Salonica-Greece»
- |          |           |              |                   |
|----------|-----------|--------------|-------------------|
| FUNDING: | ΕΛ.ΚΕ.ΠΑ. | COORDINATOR: | D.Haralambopoulos |
| BUDGET:  | 10,000 €  | DURATION:    | 1996              |
- 17 TITLE: "Regional Energy Centre of the North Aegean Region", E.C. DG XVII Urban and Regional Planning Programme (1996-1999).
- |          |                     |              |                   |
|----------|---------------------|--------------|-------------------|
| FUNDING: | European Commission | COORDINATOR: | D.Haralambopoulos |
| BUDGET:  | 150,000 €           | DURATION:    | 1996-1999         |
- 18 TITLE: «Εφαρμογή της τεχνολογίας πολυμέσων στην διδασκαλία μαθημάτων στο Πανεπιστήμιο Αιγαίου».
- |              |                                   |             |                   |
|--------------|-----------------------------------|-------------|-------------------|
| ΧΡΗΜΑΤΟΔΟΤΗΣ | Επιτροπή Ερευνών Παν/μίου Αιγαίου | COORDINATOR | D.Haralambopoulos |
| BUDGET:      | 7,000 €                           | DURATION:   | 1994-1995         |
- 19 TITLE: «Monitoring and Testing of Thermal Insulation Characteristics for Greek Public Buildings». Greek Ministry of Industry and ELKEPA, Valoren Programme.
- |          |                     |              |           |
|----------|---------------------|--------------|-----------|
| FUNDING: | European Commission | COORDINATOR: | ΕΛ.ΚΕ.ΠΑ. |
| BUDGET:  | 10,000 €            | DURATION:    | 1989-1990 |
- 20 TITLE: «Τυποποίηση Μελέτης & Κατασκευής Μεγάλων Ηλιακών Συστημάτων Παραγωγής Ζεστού Νερού Χρήσης σε Κτίρια με

Επίπεδους Συλλέκτες». Μεσογειακά Ολοκληρωμένα Προγράμματα Αττικής.

FUNDING:	European Commission	COORDINATOR:	ΕΛ.ΚΕ.ΠΑ.
BUDGET:	30,000 €	DURATION:	1989-1993
		:	

21 TITLE: «Τυποποίηση Μελετών Κεντρικών Ηλιακών Συστημάτων” Τεχνική Επιτροπή ΕΛΟΤ No 35».

FUNDING:	European Commission	COORDINATOR:	ΕΛΟΤ
BUDGET:	30,000 €	DURATION:	1992

22 TITLE: «Ανάπτυξη λογισμικού για τον υπολογισμό κεντρικών δικτύων παροχής θερμού & κρύου νερού σε μεγάλες εγκαταστάσεις, σε συνδυασμό με ηλιακό σύστημα παραγωγής θερμού νερού & δεξαμενές αποθήκευσης»

FUNDING:	European Commission	COORDINATOR:	ΕΛ.ΚΕ.ΠΑ.
BUDGET:	20,000 €	DURATION:	1990