

JOHN K. KALDELLIS

CURRICULUM VITAE (Summary-December 2014)

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EDUCATION-QUALIFICATIONS

1988 October: Ph.D., National Technical University of Athens, Department of Mechanical Engineering, Fluid Sector, in collaboration with Ecole Centrale de Lyon, Mark of Distinction (sponsored by Snecma–Dassault, France and Bodossakis Foundation)
1988 June: Diploma in Business Administration, University of Piraeus, Mark of Distinction
1983 February: Diploma in Mechanical Engineering, National Technical University of Athens, Mark of Distinction

FIELDS OF SPECIALISATION–RESEARCH INTERESTS

- ✓ Feasibility Analysis of Energy Sector Applications
- ✓ Technological Progress in Wind, Hydro and Solar Energy Market
- ✓ Stand Alone Wind Energy and Photovoltaic Systems
- ✓ Wind-Hydro Energy Production Systems
- ✓ Evaluation of Energy Storage Systems
- ✓ Certification, Auditing, Monitoring and Assessment of RES-based Power Plants
- ✓ Renewable Energy Sources, Technological, Financial and Social Implications, and Implementation
- ✓ Social Attitude towards Renewable Energy Applications
- ✓ RES Based Desalination
- ✓ Waste Management and Recycling Techniques
- ✓ Environmental Technology-Atmospheric Pollution
- ✓ Aero-thermodynamic Analysis of High Speed Turbomachines

LINGUISTIC ABILITY

Greek : Native Language
English : Fluently
French : Fluently
German: Good

PROFESSIONAL EXPERIENCE-CURRENT STATUS

1991- :	Professor , Department of Mechanical Engineers, Piraeus University of Applied Sciences (former TEI of Piraeus)
2005- :	" Associate Editor " of the international scientific journal "Renewable Energy", head of the "Wind Energy-Hybrid Systems" sector
1991- :	Head of the Soft Energy Applications and Environmental Protection Laboratory (SEALAB)
2006- :	Scientific Director of the Postgraduate Course "MSc in Energy" for Piraeus University of Applied Sciences, carried out in cooperation with Heriot-Watt University of UK
2014- :	Scientific Director of the Postgraduate Course "MSc in Energy and Environmental Investments" of Mechanical Engineers Dept. of Piraeus University of Applied Sciences (former TEI of Piraeus)
2008- 2014	Head of the Mechanical Engineering Department, TEI of Piraeus Currently (2014-...), Deputy President of Mechanical Engineers Dept
2013- 2014	Member of the Senate of TEI of Piraeus
2012 - :	Member of the National Exam Committee for the evaluation of Building Energy Auditors
2012 - :	General Director of the SEALAB as a "Type A" Inspection Body for Grid Connected Photovoltaic Systems by Hellenic Accreditation System , Accreditation Certificate No 852
2003 - :	Director of the Energy Conservation Department, Center of Technological Research for Piraeus and Greek Islands, Member of the Directors Board
2004 - :	Member of the Examinations Board of the Greek State Scholarships Organization for Postgraduate Studies
2003 - 2007	EU External Expert for the Evaluation and Assessment of Proposals and Projects in FP6 RTD Programmes with code number EE19982B48775
2001 - :	Greek Ministry of Development, National Evaluator for the Investments concerning the "Applications of Renewable Energy Sources"
2004 - :	Greek Ministry of Education, National Evaluator for the Applied Research Activities, "Environmental Sector" and "Support of Small & Medium Size Enterprises in R&D Activities"
2000 - 2012	University of Wales, United Kingdom, External Examiner , Validation Board

RESEARCH ACTIVITIES

Participation in numerous research projects, funded by the European Community, NATO, European/Greek Industries and the Greek State.

Indicative Research Activities (2001-up today)

- ✓ Scientific Coordinator of the multi-national Research Program "*TILOS-Technology Innovation for the Local Scale, Optimum Integration of Battery Energy Storage*", supported by the EU in the Horizon 2020 Research Frame (2015-2019).
- ✓ Scientific Coordinator of the Research Program "*An Integrated Planning Tool for Meeting the Energy and Water Needs of Small and Medium Size Aegean Sea Islands Using Optimum Renewable Energy Sources Hybrid Systems – (PHAROS)*", supported by the Hellenic General Secretariat for Research and Technology under the Excellence-II Research Frame (2013-2015).
- ✓ Hellenic-French Collaboration, Scientific Coordinator of the Research Program "Platon" entitled "*Development of Sustainable Energy and Water Supply Patterns for Mediterranean Islands Using Renewable Energy*" (2013-2015).
- ✓ Scientific Coordinator of the Research Project "*A Comparative Evaluation of Hydrogen-Based Technologies and other Energy Storage Systems for the Support of Autonomous RES-Based Hybrid Power Stations*" (ARCHIMEDES III, 2012-2015).
- ✓ Scientific Coordinator of TEI of Piraeus Research team in the project of TEI of Piraeus: "*CRISP (CReating Innovative Sustainability Pathways across Europe)*", FP7, Collaborative project Foresight to enhance behavioural and societal changes enabling the transition towards sustainable paths in Europe (2011-2014).
- ✓ Scientific Coordinator of the Research Project "*Experimental Data Analysis and Evaluation of the Hellenic Ministry of Transport Air Pollution Lab*", of TEI of Piraeus for the Ministry of Transport and Communications (2008-2010).
- ✓ "*Optimum Micrositing of Selected Wind Parks in Peloponnesus*", supported by the Centre for Technological Research of Piraeus and Islands.
- ✓ VISION: "*A New Vision for Engineering Economy*" (TEMPUS, 2004, with Italy, Egypt and UK).
- ✓ "*Overview of Incentive Programmes on Alternative Motor Fuels and Review of their Impact on the Market Introduction of Alternative Motor Fuels*", PREMIA Project, sponsored by DG TREN.
- ✓ "*Integrated Study and Prediction of Electricity Related Air Pollution (NO_x, SO₂, CO₂) in Greece in View of the European Efforts for Improving the Air Quality*" (ARCHIMEDES II, 2005).
- ✓ "*Simulation-Study of the Energy Behavior of Buildings using Economically Acceptable Passive and Hybrid Solar Systems and Construction Materials in order to Improve the Thermal Behavior of Greek Buildings*" (ARCHIMEDES II, 2005; in collaboration with the Lab of Fluids of TEI of Piraeus).
- ✓ "*Optimisation of Water Systems in Islands with Limited Water Resources*" (ARCHIMEDES II, 2005, in collaboration with the Optimisation of Production Systems Lab of Mechanical Engineering Department of TEI of Piraeus).
- ✓ "*Maximization of the Energy Autonomy of Greek Islands with the Use of Hybrid Energy Systems*" (ARCHIMEDES I, 2004).
- ✓ "*Advanced Control Systems in the Water Supply Networks*" (ARCHIMEDES I, 2004; in collaboration with the Lab of Intelligent Systems of TEI of Piraeus).
- ✓ "*Transformation of a Typical Vapor Compression Air-Conditioning System to a Combined Air Conditioning System Based on Solar Energy*" (ARCHIMEDES I, 2004; in collaboration with the Lab of Steamboilers-Steamturbines of TEI of Piraeus).

- ✓ *"Feasibility Study Concerning the Parameters of Ecological Behavior of Buildings in Natural and Urban Environment"* (ARCHIMEDES I, 2004; in collaboration with the TEI of Chalkida).
- ✓ *"Energy Saving in TEI Buildings"*, supported by TEI of Piraeus.
- ✓ Hellenic-French Collaboration Research Program "Platon" entitled *"Advanced Techniques of Automation in Wastewater Treatment Plants"* (accomplished).
- ✓ *"Development of an Experimental Hybrid Plant based on a Wind Turbine-Photovoltaic Station Collaboration"*, supported by TEI of Piraeus (accomplished).
- ✓ *"Reorganization of Mechanical Engineering Department"*, supported by EPEAEK-Greek Ministry of Education (accomplished).
- ✓ Program "RENES-Unet", for the *"Diffusion of Renewable/Soft Energy Applications in Greece and European Union"* (accomplished).
- ✓ *"Techno-economic Study of Small Hydro Power Stations"*, supported by the private company EMPEDOS SA (accomplished).
- ✓ *"Water Pumping Storage Systems for Crete Island"*, in collaboration with the Technical University of Crete and the Enercon Hellas SA (accomplished).
- ✓ *"Desalination System Based on Gas-Turbines Exhausted Gases"*, supported by PPC and Crete Municipalities Union (accomplished).
- ✓ *"NATURA-2000"*, supported by the Greek Ministry of Environment, Physical Planning and Public Works (accomplished).
- ✓ *"Natural Gas Cogeneration Opportunities in Urban Areas"*, in collaboration with the Municipality of Nikaia (accomplished).

ACADEMIC/EDUCATIONAL ACTIVITIES

The following courses are currently offered by the SEALAB:

1. Foundation of Soft Energy Applications (5th semester)
2. Laboratory Course on Soft Energy Applications (5th semester)
3. Turbomachines (5th semester)
4. Energy Engineering and Management of Natural Resources (4th semester)
5. Techno-economic Evaluation of Soft Energy Applications (6th semester)
6. Environment and Industrial Development (2nd semester)
7. Basic Principles of Ecology (3rd semester)
8. Air Pollution–Pollution Prevention Technologies (5th semester)
9. Waste Management Systems (7th semester)

The following courses are currently offered in the context of the MSc in Energy Systems Program:

- Foundation of Energy
- Renewable Energy Technologies
- Wind Energy Applications
- Solar Energy Applications
- Economics of Renewables
- Demand Side Management & Energy Storage
- Technology Futures & Business Strategy

- Dissertation

OTHER SCIENTIFIC ACTIVITIES

Associate Editor of the "*Renewable Energy*" International Journal, published by Elsevier Science Ltd and Member of the **Editorial Board** of "*ISRN Renewable Energy*" Journal

Member of the **Wind & Hybrid Energy Scientific Committee** of the International Conference "WREC XIII", London, 2014

Member of the **Wind & Hybrid Energy Scientific Committee** of the International Conference "WREC XII", Denver USA, 2012

Member of the **Scientific Committee** and **Session Chairman** in "ICAE-2011", Perugia, Italy, 2011

Member of the **Wind Energy Applications Scientific Committee** and **Session Chairman** of the International Conference "WREC XI", Abu-Dhabi, 2010

Member of the **Wind Energy Applications Scientific Committee** and **Session Chairman** of the International Conference "WREC X", Glasgow, 2008

Member of the **Scientific Committee** of the 2nd National Conferences of the "Hellenic Society of Mechanical and Electrical Engineers", Athens, Greece, May 2007

Member of the **Scientific Committee** of the International Conference on "Integration of RES into Buildings", Patras, Greece, July 2005

Member of the **Scientific Committee** of the 1st National Conference of the "Hellenic Society of Mechanical and Electrical Engineers", Athens, Greece, March 2005

Member of the **Scientific Committee** of the "Energy 2002 International Congress", Athens, June 2002

Member of the **Organizing and Scientific Committee** of the 1st Conference in "Soft Energy and Environmental Technologies", 2000

Editor of the 1st Conference in "Soft Energy and Environmental Technologies" Proceedings, 2000

Reviewer in more than 40 International Journals in the Energy and Environment Sector, like (*Renewable Energy, Energy Policy, Solar Energy, Energy Conversion and Management, Wind Engineering & Industrial Aerodynamics, Energy the International Journal, Desalination, Wind Energy, International Journal of Global Energy Issues, Journal of Environmental Management, IET Renewable Power Generation, Wind Engineering, Journal of Power and Energy, Journal of Environmental Planning and Management, International Journal of Energy Research, Journal of Intelligent Systems, International Journal of Electrical Power and Energy Systems, Fuel, Bioresource Technology, Fresenius Environmental Bulletin, Hydrogen Energy, Applied Energy, Biomass and Bioenergy, Journal of Renewable and Sustainable Energy, Journal of Cleaner Production, Simulation Modelling Practice and Theory, Operational Research: An International Journal, International Journal of Global Warming, Energy, IEEE Transactions on Sustainable Energy, Energy Studies Review, Desalination and Water Treatment, Water, International Journal of Renewable Energy Technology, Journal of Engineering Science and Technology Review, Computers & Chemical Engineering, Energies, Proceedings of the IEEE, IEEE Transactions on Smart Grid*).

SCIENTIFIC WORKS - PUBLICATIONS

Several Books and Monographs, Indicatively:

Editor of the "**Wind Energy**" Volume of the Comprehensive Renewable Energy Encyclopedia by Elsevier, published May 2012, ISBN 978-0080878720.

Editor of the book "**Technology of Stand-Alone and Hybrid Wind Energy Production and Storage**", Kaldellis J.K., Woodhead Publishing, 2010.

"**Wind Energy Management**", Stamoulis Editions, Athens, 1999; ISBN: 960-351-255-9.

"**Laboratory Applications of Soft Energy Resources**", Stamoulis Editions, Athens, 2000; ISBN: 960-351-345-8.

"**Environment and Technological Development**, Volume I and II", Stamoulis Editions, Athens, 2005; ISBN: 960-351-589-2 and ISBN: 960-351-601-5.

"**Computational Applications of Soft Energy Resources: Wind Energy-Hydro Power**", Stamoulis Editions, Athens, 2005; ISBN: 960-351-631-7.

"**Computational Applications of Soft Energy Resources: Solar Energy-Solar Collectors-Photovoltaics**", Stamoulis Editions, Athens, 2007, ISBN: 960-351-686-6.

Editor of the 1st Conference in "**Soft Energy and Environmental Technologies**" Proceedings, 2000, Ion Editions, Athens, ISBN: 960-411-088-8.

"**Techno-Economic Evaluation of Soft Energy Resources**", prepared for the post-graduated students of the *Hellenic Productivity Center*, Athens, 1992.

Prof J.K. Kaldellis has also over **450 scientific-research papers**, either published (**125**) in International Journals or presented in International and National conferences.

He has more than **2500 citations** in his research work, while his current **h-index** (Scopus) is **28**.

MEMBERSHIPS

- Member of Technical Chamber of Greece (since February 1983)
- Member of "Global-Network for Environmental Science and Technology, G-Nest" (since 1998)
- Member of "RENES-University Net" for the Diffusion of Renewable Energy Applications (since 1999)
- Member of the Scientific Committee of the Hellenic Society of Mechanical-Electrical Engineers (since 2001)
- Member of **World Renewable Energy Council/Network** (since 2006).

INVITED PRESENTATIONS

Prof J. K. Kaldellis has been invited in order to present his scientific work in various conferences, such as:

- the International Renewable Energy Storage Conference IRES-I (October 2006, Gelsenkirchen, Germany),
- the World Renewable Energy Conference XI, (Abu Dhabi, September 2010),
- the International Conference of Applied Energy -2011 (Italy, May 2011).

He is also been invited as external examiner for PhD evaluation in Sweden, India, etc.

INTERNATIONAL PRIZES / AWARDS

- 2013 **PROSE Award** by the Association of American Publishers, for Comprehensible Renewable Energy Encyclopedia, honoring the best in professional and scholarly publishing.
- 2012 **Academic & Scientific Excellence** by the Greek Ministry of Education for the Development and Application of RES Technologies in Wind, Hydro and Photovoltaic Sectors (<http://excellence.minedu.gov.gr>).
- The Board of Trustees of the World Renewable Energy Council has bestowed on Prof J. K. Kaldellis the **Title of WREN Pioneer** that has been presented at the World Renewable Energy Conference 2010, 25-30 September at Abu Dhabi.
- He has recently (April 2011) been awarded for being one of the 10 "**Best reviewers** of 2010" for the Applied Energy Journal.

PUBLICATIONS LIST

Dr John (Ioannis) Kaldellis

PUBLICATIONS IN INTERNATIONAL SCIENTIFIC JOURNALS

1. **Kaldellis J.K., Kapsali M., 2014**, "Evaluation of the Long-Term Environmental Performance of Greek Lignite-Fired Power Stations", *Journal of Renewable and Sustainable Energy Reviews*, Vol.31, pp.472-485.
2. **Kaldellis J.K., Kapsali M., Kavadias K., 2014**, "Temperature and Wind Speed Impact on the Efficiency of PV Installations. Experience Obtained from Outdoor Measurements in Greece", *Renewable Energy*, Vol.66, pp.612-624.
3. **Stathopoulos M., Zafirakis D., Kavadias K., Kaldellis J.K., 2014**, "The Role of Residential Load-Management in the Support of RES-based Power Generation in Remote Electricity Grids", *Energy Procedia Journal*, Vol.46, pp.281-286.
4. **Zafirakis D., Papapostolou Chr., Kondili E., Kaldellis J.K., 2013**, "Evaluation of Water-Use Needs in the Electricity Generation Sector of Greece", accepted for publication *International Journal of Environment and Resource*, IJER072.
5. **Zafirakis D., Elmasides C., Sauer D.U., Leuthold M., Merei G., Kaldellis J.K., Vokas G., Chalvatzis K.J., 2014**, "The Multiple Role of Energy Storage in the Industrial Sector: Evidence from a Greek Industrial Facility", *Energy Procedia Journal*, Vol.46, pp.178-185.
6. **Kaldellis J.K., Kavadias K., Zafirakis D., 2013**, "The role of hydrogen-based energy storage in the support of large-scale wind energy integration in island grids", accepted for publication *International Journal of Sustainable Energy*, dx.doi.org/10.1080/14786451.2013.846342; Published online: 21 Oct 2013.
7. **Kaldellis J.K., Anestis A., Koronaki I., 2013**, "Strategic Planning in the Electricity Generation Sector through the Development of an Integrated Delphi-based Multi-criteria Evaluation Model", *Fuel*, Vol.106, pp.212-218.
8. **Vokas G., Klironomos P., Kaldellis J.K., 2013**, "Evaluation of Building Integrated Photovoltaic Systems' Potential in the Industrial Sector: Case Study Oinofyta-Viotia Zone, Greece", *Journal of Energy and Power Engineering*, Vol.7(12), pp.2211-2219.
9. **Kaldellis J.K., Zafirakis D., 2013**, "The Influence of Technical Availability on the Energy Performance of Wind Farms: Overview of Critical Factors and Development of a Proxy Prediction Model", *Journal of Wind Engineering & Industrial Aerodynamics*, Vol.115, pp.65-81.
10. **Zafirakis D., Chalvatzis K., Kaldellis J.K., 2013**, ""Socially Just" Support Mechanisms for the Promotion of Renewable Energy Sources in Greece", *Journal of Renewable and Sustainable Energy Reviews*, Vol.21, pp.478-493.
11. **Kaldellis J.K., Kapsali M., Kaldelli El., Katsanou Ev., 2013**, "Comparing Recent Views of Public Attitude on Wind Energy, Photovoltaic and Small Hydro Applications", *Renewable Energy*, Vol.52, pp.197-208.

12. **Kaldellis J.K., Kapsali M., 2013**, "Shifting Towards Offshore Wind Energy Recent Activity and Future Development", *Energy Policy*, Vol.(53), pp.136-148.
13. **Tiligadas D., Kondili E., Kaldellis J.K., 2013**, "Photovoltaic-Based Combined Electricity and Clean Water Production for Remote Small Islands", *Journal of Desalination and Water Treatment*, Vol.51(4-6), pp. 695-701.
14. **Kondili E., Kaldellis J.K., Paidousi M., 2013**, "A Multicriteria Analysis for the Optimal Desalination-RES System. Special focus: the Small Greek Islands", *Journal of Desalination and Water Treatment*, Vol.51(4-6), pp. 1205-1218.
15. **Kaldellis J.K., Gkikaki Ant., Kaldelli El., Kapsali M., 2012**, "Investigating the Energy Autonomy of Very Small Non-Interconnected Islands. A Case Study: Agathonisi, Greece", *Energy for Sustainable Development*, Vol.16(4), pp.476-485.
16. **Kaldellis J.K., Zafirakis, D., Stavropoulou V., Kaldelli El., 2012**, "Optimum Wind- and Photovoltaic-Based Stand-Alone Systems on the Basis of Life Cycle Energy Analysis", *Energy Policy*, Vol.50, pp.345-357.
17. **Kapsali M., Anagnostopoulos J.S., Kaldellis J.K., 2012**, "Wind Powered Pumped-Hydro Storage Systems for Remote Islands: A Complete Sensitivity Analysis Based on Economic Perspectives", *Applied Energy*, Vol.99, pp.430-444.
18. **Kaldellis J.K., Kavadias K., Zafirakis D., 2012**, "Experimental Validation of the Optimum Photovoltaic Panels' Tilt Angle for Remote Consumers", *Renewable Energy*, Vol.46, pp.179-191.
19. **Kaldellis J.K., Zafirakis D., 2012**, "Optimum Sizing of Stand-Alone Wind-Photovoltaic Hybrid Systems for Representative Wind and Solar Potential Cases of the Greek Territory", *Journal of Wind Engineering & Industrial Aerodynamics*, Vol.107-108, pp.169-178.
20. **Kaldellis J.K., Kapsali M., Emmanouilidis M., 2012**, "Long-Term Evaluation of Nitrogen Oxides and Sulphur Dioxide Emissions from the Greek Lignite-Based Electricity Generation Sector", *Fresenius Environmental Bulletin*, Vol.21(9), F-2012-197.
21. **Kondili E., Bartzis I., Kapsali M., Kaldellis J.K., 2012**, "Multicriteria Analysis of Municipal Solid Wastes Energy Recovery Technologies in Greece", *Global NEST Journal*, Vol.14(2), pp.225-234.
22. **Kaldellis J.K., Kapsali M., Katsanou Ev., 2012**, "Renewable Energy Applications in Greece - What is the Public Attitude?", *Energy Policy*, Vol.42, pp.37-48.
23. **Kaldellis J.K., Zafirakis D., Kavadias K., 2012**, "Minimum Cost Solution of Wind-Photovoltaic Based Stand-Alone Power Systems for Remote Consumers", *Energy Policy*, Vol.42, pp.105-117.
24. **Kaldellis J.K., Zafirakis D., 2012**, "Experimental Investigation of the Optimum Summer Period Photovoltaic Panels' Tilt Angle", *Energy*, Vol.38(1), pp.305-314.
25. **Kaldellis J.K., Garakis K., Kapsali M., 2012**, "Noise Impact Assessment on the Basis of Onsite Acoustic Noise Emission Measurements for a Representative Wind Farm", *Renewable Energy*, Vol.41, pp.306-314.
26. **Skarlis Str., Kondili E., Kaldellis J.K., 2012**, "Small Scale Biodiesel Production Economics: A Case Study Focus on Crete Island", *Journal of Cleaner Production*, Vol.20(1), pp.20-26.

27. **Kaldellis J.K., Kapsali M., Tiligadas D., 2011**, "Presentation of a Stochastic Model Estimating the Wind Energy Contribution in Remote Island Electrical Networks", *Applied Energy*, Vol.97, pp.68-76.
28. **Kaldellis J.K., Zafirakis D., Kavadias K., Kondili E., 2011**, "Optimum PV-Diesel Hybrid Systems for Remote Consumers of the Greek Territory", *Applied Energy*, Vol.97, pp.61-67.
29. **Kaldellis J.K., Ninou I., 2011**, "Energy Balance Analysis of Combined Photovoltaic-Diesel Powered Telecommunication Stations", *International Journal of Electrical Power & Energy Systems*, Vol.33(10), pp. 1739-1749.
30. **Papapostolou C., Kondili E., Kaldellis J.K., 2011**, "Development and Implementation of an Optimisation Model for Biofuels Supply Chain", *Energy*, Vol.36(10), pp. 6019-6026.
31. **Kaldellis J.K., 2011**, "Critical evaluation of financial supporting schemes for wind-based projects: Case study Greece", *Energy Policy*, Vol.39(5), pp.2490-2500.
32. **Kaldellis J.K., Zafirakis D., 2011**, "The wind energy (r)evolution: A short review of a long history", *Renewable Energy*, Vol.36(7), pp.1887-1901.
33. **Kaldellis J.K., Mantelis N., Zafirakis D., 2011**, "Evaluating the Ability of Greek Power Stations to Comply with the Obligations Posed by the Second National Allocation Plan Concerning Carbon Dioxide Emissions", *Fuel*, Vol.90(9), pp.2884-2895.
34. **Kaldellis J.K., Meidanis E., Zafirakis D., 2011**, "Experimental Energy Analysis of a Stand-Alone Photovoltaic-Based Water Pumping Installation", *Applied Energy*, Vol.88(12), pp. 4556-4562.
35. **Kaldellis J.K., Kapsali M., 2011**, "Simulating the Dust Effect on the Energy Performance of Photovoltaic Generators Based on Experimental Measurements", *Energy*, Vol.36(8), pp.5154-5161.
36. **Kaldellis J.K., Ninou I., Zafirakis D., 2011**, "Minimum long-term cost solution for remote telecommunication stations on the basis of photovoltaic-based hybrid power systems", *Energy Policy*, Vol.39(5), pp.2512-2527.
37. **Kaldellis J.K., Zafirakis D., Mantelis N., 2011**, "Critical Evaluation of the National Allocation Plans under the European Union Emission Trading Scheme. Case Study Greece", *Fresenius Environmental Bulletin*, Vol.20(7), pp. 1629-1641.
38. **Kaldellis J.K., Fragos P., Kapsali M., 2011**, "Systematic experimental study of the pollution deposition impact on the energy yield of photovoltaic installations", *Renewable Energy*, Vol.36(10), pp. 2717-2724.
39. **Kaldellis J.K., Fragos P., 2011**, "Ash Deposition Impact on the Energy Performance of Photovoltaic Generators", *Journal of Cleaner Production*, Vol.19(4), pp.311-317.
40. **Kaldellis J.K., Kokala A., Kapsali M., 2010**, " Natural Air Pollution Deposition Impact on The Efficiency of PV Panels in Urban Environment", *Fresenius Environmental Bulletin*, Vol.19(12), pp.2864-2872.
41. **Kaldellis J.K., Kokala A., 2010**, "Quantifying the decrease of the photovoltaic panels' energy yield due to phenomena of natural air pollution disposal", *Energy*, Vol.35(12), pp.4862-4869.

42. **Kapsali M., Kaldellis J.K., 2010**, "Combining hydro and variable wind power generation by means of pumped-storage under economically viable terms", *Applied Energy*, Vol.87(11), pp.3475-3485.
43. **Zafirakis D., Kaldellis J.K., 2010**, "Autonomous dual-mode CAES systems for maximum wind energy contribution in remote island networks", *Energy Conversion and Management*, Vol.51(11), pp.2150-2161.
44. **Kaldellis J.K., Kapsali M., Kavadias K.A., 2010**, "Energy balance analysis of wind-based pumped hydro storage systems in remote island electrical networks", *Applied Energy*, Vol.87(8), pp.2427-2437.
45. **Kaldellis J.K., 2010**, "Optimum hybrid photovoltaic-based solution for remote telecommunication stations", *Renewable Energy*, Vol.35(10), pp. 2307-2315.
46. **Kaldellis J.K., Zafirakis D., Kondili E., 2010**, "Energy Pay-Back Period Analysis of Stand-Alone Photovoltaic Systems", *Renewable Energy Journal*, Vol.35(7), pp.1444-1454.
47. **Kaldellis J.K., Zafirakis D., Kondili E., 2010**, "Optimum sizing of photovoltaic-energy storage systems for autonomous small islands", *International Journal of Electrical Power & Energy Systems*, Vol.32(1), pp.24-36.
48. **Kondili E., Kaldellis J.K., Papapostolou C., 2010**, "A novel systemic approach to water resources optimisation in areas with limited water resources", *Desalination*, Vol.250(1), pp.297-301.
49. **Kaldellis J.K., Simotas M., Zafirakis D. Kondili E., 2009**, "Optimum autonomous photovoltaic solution for the Greek islands on the basis of energy pay-back analysis", *Journal of Cleaner Production*, Vol.17(15), pp.1311-1323.
50. **Kaldellis J.K., Zafirakis D., Kondili E., 2009**, "Optimum autonomous stand-alone photovoltaic system design on the basis of energy pay-back analysis", *Energy*, Vol.34(9), pp.1187-1198.
51. **Kaldellis J.K., Kavadias K.A., Filios A.E., 2009**, "A new computational algorithm for the calculation of maximum wind energy penetration in autonomous electrical generation systems", *Applied Energy*, Vol.86(7-8), pp.1011-1023.
52. **Zafirakis D., Kaldellis J.K., 2009**, "Economic evaluation of the dual mode CAES solution for increased wind energy contribution in autonomous island networks", *Energy Policy*, Vol.37(5), pp.1958-1969.
53. **Kaldellis J.K., Zafirakis D., Kaldelli El., Kavadias K., 2009**, "Cost benefit analysis of a photovoltaic-energy storage electrification solution for remote islands", *Renewable Energy*, Vol.34(5), pp.1299-1311.
54. **Kaldellis J.K., Spyropoulos G.C., Kavadias K.A., Koronaki I.P., 2009**, "Experimental validation of autonomous PV-based water pumping system optimum sizing", *Renewable Energy*, Volume 34, Issue 4, April 2009, Pages 1106-1113
55. **Kaldellis J.K., Zafirakis D., Kavadias K., 2009**, "Techno-economic comparison of energy storage systems for island autonomous electrical networks", *Renewable and Sustainable Energy Reviews*, Vol. 13(2), pp.378-392.
56. **Kaldellis J.K., Zafirakis D., Kondili E., 2009**, "Contribution of lignite in the Greek electricity generation: Review and future prospects", *Fuel*, Vol.88(3), pp.475-489.

57. **Kaldellis J.K., Zafirakis D., Kavadias K., Kondili E., 2009**, "An Optimum Sizing Methodology for Combined Photovoltaic-Energy Storage Electricity Generation Configurations" *ASME Journal of Solar Energy Engineering*, Vol.131(2), pp. 021010 (1-12).
58. **Kaldellis J.K., Zafirakis D., Kaldelli El., Kondili E., 2009**, "Combined Photovoltaic and Energy Storage Systems. An Integrated Electrification Solution for Small Islands", *International Journal of Environmental Technology & Management*, Vol.10(2), pp.123-149.
59. **Tsoutsos Th., Tsouchlaraki A., Tsiropoulos M., Kaldellis J.K., 2009**, "Visual Impact Evaluation Methods of Wind Parks: Application for a Greek Island", *Wind Engineering Journal*, S1089, Vol.33(1), pp.83-92.
60. **Zafirakis D., Papapostolou, C., Tsoutsos Th., Kondili E., Kaldellis J.K., 2009**, "Environmental Non-Governmental Organizations And Public Awareness Concerning The Environment In Greece", *Fresenius Environmental Bulletin*, Vol.18(7b), pp.1324-1335.
61. **Tachos N.S., Filios A.E., Margaritis D.P., Kaldellis J.K., 2009**, "A Computational Aerodynamics Simulation of the NREL Phase II Rotor", *Open Mechanical Engineering Journal*, Vol.3, pp.9-16.
62. **Kaldellis J.K., 2008**, "Integrated electrification solution for autonomous electrical networks on the basis of RES and energy storage configurations", *Energy Conversion and Management*, Vol.49(12), pp.3708-3720.
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