

PUBLICATIONS (29) IN INTERNATIONAL SCIENTIFIC JOURNALS
with MSc in Energy Students Contribution (2010-2013)

1. **Stathopoulos M.**, Zafirakis D., Kavadias K., Kaldellis J.K., **2013**, "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.
2. 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.
3. 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", accepted for publication *Journal of Energy and Power Engineering*, JEPE13010604.
4. 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.
5. **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.
6. 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.
7. 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.
8. 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.
9. 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.
10. 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.
11. 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.
12. 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.

13. **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.
14. 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.
15. 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.
16. **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.
17. 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.
18. 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.
19. 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.
20. 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.
21. 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.
22. 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.
23. **Spyropoulos G.**, Balaras C.A., **2011**, "Energy consumption and the potential of energy savings in Hellenic office buildings used as bank branches-A case study", *Energy and Buildings*, Vol.43(4), pp.770-778.
24. 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.
25. 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.
26. **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.

27. **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.
28. 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.
29. **Zafirakis D.**, Kaldellis J.K., **2010**, "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.

**PAPERS (35) IN INTERNATIONAL SCIENTIFIC CONFERENCES
with MSc in Energy Students Contribution (2010-2013)**

- IC1. **Chliaoutakis Ar.**, Protoperopoulos Chr., Cameron M., Kaldellis J.K., **2013**, "Performance Comparison between Central and Multistring-Based Inverters for the Support of Large-Scale Photovoltaic Power Stations in Greece", 28th European PV Solar Energy Conference, September 30-October 4, Paris, France.
- IC2. **Kotsenos A.**, Kondili E., Paliatsos A.G., Kaldellis J.K., **2013**, "Comparative Evaluation of the Air Quality Indexes. Application for the Greater Athens Area", CEST2013, 13th *International Conference on Environmental Science and Technology*, September 2013, Athens, Greece.
- IC3. Kondili E., Papapostolou C., **Balaska A.**, Aggelakopoulos J., Papagiakomos A., Kaldellis J.K., **2013**, "Environmental Performance Improvement and Environmental Management Systems (EMS) in Universities. Special Focus in the TEI of Piraeus Campus", CEST2013, 13th *International Conference on Environmental Science and Technology*, September 2013, Athens, Greece.
- IC4. Kondili E., Papapostolou C., **Pantemi G.**, Kaldellis J.K., **2013**, "Energy and Environmental Education in Greek Secondary Education: Highlights, Prospects and Expectations", CEST2013, 13th *International Conference on Environmental Science and Technology*, September 2013, Athens, Greece.
- IC5. Kaldellis J.K., Kapsali M., **Giannaraki Chr.**, **Pavlou A.**, **2013**, "Opportunities for Wave Energy Exploitation in the East Mediterranean Region", 4th *International Conference on Renewable Energy Sources & Energy Efficiency*, June 2013, Cyprus.
- IC6. **Ristas G.**, Spyropoulos G., Kavadias K., Kaldellis J.K., **2013**, "Experimental Energy Analysis of a Hybrid Wind-PV Stand-Alone Installation", 4th *International Conference on Renewable Energy Sources & Energy Efficiency*, June 2013, Cyprus.
- IC7. **Papadopoulos G.**, Zafirakis D., Kavadias K., Kaldellis J.K., **2013**, "Investigating the Role of Hybrid PV-Diesel Stand-Alone Systems for the Electrification of Remote Telecommunication Stations in Greece", *International Conference on Applied Energy, ICAE-2013*, July 2013, Pretoria, South Africa.
- IC8. **Triantafyllidis K.**, Zafirakis D., Kapsali M., Kaldellis J.K., **2013**, "Development of Hybrid Wind-PV-CAES Configurations for the Electrification of Remote Communities", *International Conference on Applied Energy, ICAE-2013*, July 2013, Pretoria, South Africa.
- IC9. Zafirakis D., **Rozakeas K.**, Kaldellis J.K., **2013**, "Evaluation of Arbitrage Strategies Practiced by Pumped Hydro Storage in the Greek Mainland Electricity Market", *International Conference on Applied Energy, ICAE-2013*, July 2013, Pretoria, South Africa.
- IC10. **Alikaj D.**, Zafirakis D., Kavadias K., Kaldellis J.K., **2013**, "Optimum Sizing of Hybrid, Wind-Based Configurations for the Satisfaction of Remote Consumers' Total Energy Needs", *European Wind Energy Conference (EWEC-2013)*, February 2013, Vienna, Austria.

- IC11. **Gazis F.S.**, Vokas G.A., Kaldelis J.K., **Katsimardou I.J.**, 2013, "Micro Inverters for PV Plants Compared to the Ordinary String or Central Inverters", International Scientific Conference eRA-8, September 2013, Piraeus, Greece.
- IC12. **Katsimardou I.J.**, Vokas G.A., Kaldelis J.K., **Gazis F.S.**, 2013, "Performance Evaluation of a Building Integrated Photovoltaic Thermal (BIPVT) Air collector Using Different Photovoltaic Technologies", International Scientific Conference eRA-8, September 2013, Piraeus, Greece.
- IC13. **Proias G.T.**, Moustiris K.P., Koukouletsos K.V., Paliatsos A.G., 2013, "Air quality assessment in the city of Volos, Greece, by using environmental indices", International Conference of Changing Cities. Spatial, morphological, formal and socio-economic dimensions, June 2013, Skiathos, Greece.
- IC14. **Emmanouilidis M.**, Kapsali M., Kaldellis J.K., 2012, "Detailed Examination of Greek Lignite Thermal Power Stations on The Basis of NO_x Emissions", *International Conference of Protection and Restoration of the Environment XI*, July 3-6, 2012, Thessaloniki, Greece.
- IC15. **Skarlis S.**, Papapostolou C., Kondili E., Kaldellis J.K., 2012, "Willingness To Pay for Biodiesel from Vegetable Oil Crops in Rural Areas in Greece", *International Conference of Protection and Restoration of the Environment XI*, July 3-6, 2012, Thessaloniki, Greece.
- IC16. **Klironomos P.G.**, Vokas G.A., Kaldellis J.K., 2012, "Potential of Building Integrated Photovoltaic Systems (BIPV): Study on the Oinofyta Viotias Industrial Buildings Zone", 8th Mediterranean Conference on Power Generation, Transmission Distribution and Energy Conversion (*MedPower 2012*), October 1-3, 2012, Cagliari, Italy.
- IC17. **Tiligadas D.**, Kondili E., Kaldellis J.K., 2012, "Photovoltaic-Based Combined Electricity and Clean Water Production for Remote Small Islands", *Desalination and the Environment Conference (EDS)*, April 2012, Barcelona, Spain.
- IC18. Kondili E., Kaldellis J.K., **Paidousi M.**, 2012, "A Multicriteria Analysis for the Optimal Desalination-RES System. Special focus: the Small Greek Islands", *Desalination and the Environment Conference (EDS)*, April 2012, Barcelona, Spain.
- IC19. Zafirakis D., Kavadias K.A., **Efthimiadis S.**, Kapsali M., Kaldellis J.K., 2012, "100% RES Integration in the Island of Agios Efstratios-Greece with the Use of Different Wind-Energy Storage Systems", *European Wind Energy Conference (EWEC-2012)*, April 2012, Copenhagen, Denmark.
- IC20. Zafirakis D., **Gavrilopoulou El.**, Kavadias K.A., Kaldellis J.K., 2012, "The Need for the Development of a New Readjusted Weibull Distribution for Increased Reliability of Energy Yield Estimation", *European Wind Energy Conference (EWEC-2012)*, April 2012, Copenhagen, Denmark.
- IC21. **Kazakidis S.A.**, Kokkosis A.I., Moustiris K.P., Paliatsos A.G., 2012, "Electricity consumption prognosis with the combination of smart metering and artificial neural networks", 8th Mediterranean Conference on Power Generation, Transmission, Distribution and Energy Conversion-MedPower 2012, October 2012, Cagliari, Italy.
- IC22. **Bartzis I.**, Kondili E., Kaldellis J.K., 2011, "Investigation of Energy Production by the Utilization of Municipal Solid Wastes in Greece", CEST2011, 12th International Conference on Environmental Science and Technology, September 2011, Rhodes, Greece.

- IC23. Spyropoulos G.C., **Emmanouilidis M.**, Kaldellis J.K., **2011**, "Investigating the Long-Term Environmental Performance of the Greek Electricity Sector on the Basis of SO₂ Emissions", CEST2011, 12th International Conference on Environmental Science and Technology, September 2011, Rhodes, Greece.
- IC24. **Mantelis N.**, Zafirakis D., Spyropoulos G.C., Kaldellis J.K., **2011**, "Critical Evaluation of the Second National Allocation Plan Concerning the Control of CO₂ Emissions in Greece", CEST2011, 12th International Conference on Environmental Science and Technology, September 2011, Rhodes, Greece.
- IC25. **Rokas St.**, Ktenidis T., Kondili E., Kaldellis J.K., **2011**, "RES-based Power Plants Siting Using Geographical Information Systems", ICCEP-2011, International Conference on "Clean Electrical Power", IEEE, June 2011, Ischia, Italy.
- IC26. Kapsali M., **Tiligadas D.**, Kaldellis J.K., **2011**, "Analytical stochastic model calculating the wind energy contribution in remote micro-grids", presented in ICAE-2011, May 2011, Perugia, Italy.
- IC27. **Katsanou Ev.**, Zafirakis D., Kondili E., Kaldellis J.K., **2011**, "Recent Views on the Public Acceptance of Wind Energy and Photovoltaic Applications in Greece", presented in the EWEC-2011, Brussels, Belgium.
- IC28. **Katsirou V.**, Zafirakis D., Kavadias K.A., Kaldellis J.K., **2011**, "An Integrated Methodology for the Experimental Validation of a Wind Turbine's Power Curve", presented in the EWEC-2011, Brussels, Belgium.
- IC29. **Stavropoulou V.**, Zafirakis, D., Spyropoulos, G., Kaldellis J.K., **2011**, "Comparison of the Energy Pay-Back Period between Wind and Photovoltaic Stand-Alone Power Systems", presented in the EWEC-2011, Brussels, Belgium.
- IC30. **Garakis C.**, Kaldellis J.K., **2010**, "Evaluation of noise impact on the basis of acoustic noise emissions measurements for onshore wind farms", World Renewable Energy Congress -WRECXI, 25-30 September 2010, Abu Dhabi, United Emirates.
- IC31. Kaldellis J.K., **Fragos P.**, Kapsali M., Zafirakis D., Spyropoulos G., **2010**, "Dust Deposition Impact on Photovoltaic-Assisted Water Pumping Systems", World Renewable Energy Congress -WRECXI, 25-30 September 2010, Abu Dhabi, United Emirates.
- IC32. **Kapsali M.**, Anagnostopoulos K., Kaldellis J.K., **2010**, "Size optimization of wind-based pumped hydro storage systems based on economic criteria", World Renewable Energy Congress -WRECXI, 25-30 September 2010, Abu Dhabi, United Emirates.
- IC33. Kondili E., Kaldellis J.K., **Tiligadas D.**, **2010**, "Wind-based Combined Electricity and Clean Water Production for Remote Islands", World Renewable Energy Congress -WRECXI, 25-30 September 2010, Abu Dhabi, United Emirates.
- IC34. **Proias G.T.**, Kaldellis J.K., Paliatsos A.G., **2010**, "Optimum Autonomous Wind Power System Sizing for Remote Consumer in Pelion Mountain in Volos – Greece", 5th International Conference on Deregulated Electricity Market issues in South-Eastern Europe (DEMSEE 2010), September 2010, Sitia, Greece.
- IC35. Papapostolou Chr., **Minoyiannis M.**, Kondili E., Kaldellis J.K., **2010**, "Biomass supply chain development in Greece with special focus on the

utilization of biomass residues", 1st International Conference on Supply Chains, October 2010, Katerini, Greece.