

Completed Ph.D in March 2007 RESUME

PERSONAL INFORMATION

Name : **Dr.S. Jebaraj M.E, Ph.D.**
 Age : 39 years.
 Sex : Male.
 Date of birth : 15-07-1975
 Religion : Christian.
 Nationality : Indian.
 Marital Status : Married.
 Languages Known : Tamil, English and Malayalam.

Present Address : 2H/834, SBM Nagar,
 Tuticorin-628008,
 TamilNadu, India.

E-mail : sarshelton@rediffmail.com
jebaraj74@hotmail.com

Mobile No : **0091- 9952605711**

EDUCATIONAL QUALIFICATION

S. No	Qualification & Specialization	Name of the Institution/University	Duration	% marks & Class
1.	B.E Mechanical Engineering	Karunya Institute of Technology, Bharathiyar University, Coimbatore, India.	1992-96	67 I
2.	M.E Thermal Engineering.	Karunya Institute of Technology, Bharathiyar University, Coimbatore, India.	1997-98	73 I
3.	Ph.D Mechanical Engineering (Neural Network and Fuzzy Logic)	Anna University, Chennai, India.	2001 - 2006	-

EXPERIENCE DETAILS

S. No.	College	Duration	Designation	Responsibilities Held.
1	Karunya Institute of Technology, Coimbatore, India.	Oct'96 - Aug'99	Lecturer	<ol style="list-style-type: none"> 1. Teaching. 2. Thermal Lab In- charge. 3. Class In- charge. 4. Counseling to Students. 5. Preparation of Lab Manuals.
2	Bharath Institute of science & Technology, Chennai, India.	Sep'99 – Apr'2006.	Assistant Professor.	<ol style="list-style-type: none"> 1. Teaching & Research. 2. NAAC (National Board of Assessment and Accreditation Council) Coordinator. 3. HOD In charge. 4. Anna University Representative (AUR) to various colleges. 5. Chief examiner for the paper valuation (UG & PG) in BIHER Deemed University during January 2006. 6. Cad Lab In charge. 7. Class In charge. 8. Counseling to Students. 9. Preparation of Lab Manuals 10. Thermal Lab In charge. 11. Project Guide. 12. Internal Examiner for University Practical Examinations. 13. External Examiner for practical examinations in various colleges. 14. Project Coordinator
3	Rajiv Gandhi College of Engineering, Affiliated to Anna University, Chennai, India.	June 2006 –May 2007.	Professor & Head of the Department (Mechanical Engineering)	<ul style="list-style-type: none"> • Responsible for all works in the Mechanical Engineering Department. • ISO Coordinator in Rajiv Gandhi College of Engineering. • College administrative Committee Member.

				<ul style="list-style-type: none"> • Resource Person in Faculty Development Programme on “Effective Teaching”. • Chief Examiner in Anna University (Zone – 2) Paper Valuation during June 2006.
4	SRM University – Ramapuram Campus, Chennai, India.	June 2007 – August 2007	Professor & Vice Principal	<ul style="list-style-type: none"> • Head of the Institution. • Responsible for academics, administration, staff control, infrastructure, purchase, research.
5	King Khalid University, Abha, Kingdom of Saudi Arabia	September 2007 – July 2008	Assistant Professor	<ul style="list-style-type: none"> • Teaching and research. • Counseling to students. • Project Guidance. • Seminar
6	Muthayammal Engineering College Rasipuram	July 2008 – June 2009	Professor & Head	Administration Teaching Research
7	Dr. G.U. Pope College of Engineering, Tuticorin	July 2009 to June 2012	Principal & Professor	Teaching, Head of the Institution. Responsible for academics, administration, staff control, infrastructure, purchase, research.
8	Karpaga Vinayaga College of Engineering & Technology, Chennai	July 2012 To Till date	Professor & Dean	Teaching, Administration & Research

PROJECT DETAILS:

- B.E (Mechanical) : Computer Aided Design and Fabrication of Oil Free Diaphragm Compressor
- M.E (Thermal) : Computer Aided Design and Analysis of Shell and Tube Heat Exchanger.
- Ph.D : Development of Energy Forecasting Model using Artificial Neural Networks and Optimal Electricity Allocation Model

using Fuzzy Linear programming for India.

SUBJECTS HANDLED:

UG COURSES:

1. Engineering Thermodynamics.
2. Thermal Engineering.
3. Power Plant Engineering.
4. Heat and Mass Transfer.
5. Renewable Energy Sources.
6. Fluid Mechanics and Fluid Machinery.
7. Engineering Drawing.
8. Basic Mechanical Engineering.
9. Refrigeration and Air Conditioning.
10. Applied Mechanics

PG COURSES:

1. Energy Conservation and Management.
2. Solar Energy and Wind Energy.
3. Environmental Engineering and Pollution Control.
4. Design of Heat Exchangers.
5. Design of Condensers, Evaporators and Cooling Towers.
6. Energy Modelling.
7. Advanced Manufacturing Process.

TEXT BOOKS PUBLISHED – 1.

“Basic Mechanical Engineering” published by SciTech Publications (INDIA) Pvt. Ltd, Chennai -17 during the year 2000.

- Prescribed text book in SRM University, Chennai.
- Prescribed text book in Periyar Maniammai University, Thanjavur.

TOTAL RESEARCH PAPERS PUBLISHED – 39

International Journal - 8

1. **Jebaraj S** and Iniyar S (2006), ‘A Review of Energy Models’, *International Journal of Renewable & Sustainable Energy Reviews*, Vol.10, pp. 281-311.
2. **Jebaraj S** and Iniyar S (2006), ‘Renewable Energy Programmes in India’, *International Journal of Global Energy Issues*, Vol.26, pp.232-257.
3. **Jebaraj S** and Iniyar S (2007), ‘Forecasting of Commercial Energy Consumption in India Using Artificial Neural Network’, *International Journal of Global Energy Issues*, Vol.27, Issue 3, pp.276 - 301.
4. **Jebaraj S** and Iniyar S (2007), ‘An Optimal Energy Allocation Model Using Fuzzy Linear Programming for Energy Planning in India’, *International Journal of Energy Technology and Policy*. Vol.5, Issue 4, pp.509 - 530.
5. **Jebaraj S**, Iniyar S, Suganthi L and Ranko Goic (2008), ‘An Optimal Electricity Model for the Effective Utilisation of Energy Sources in India with

- Focus on biofuels', *International Journal of Management of Environmental quality*, Vol.19, Issue 4, 99. 480 – 486.
6. Syed Ameer Basha, Raja Gopal K and **Jebaraj S** (2009), 'A Review on Biodiesel Production, combustion, Emissions and Performance', *International Journal of Renewable & Sustainable Energy Reviews*, Vol.13, Issues 6-7, pp. 1628-1634.
 7. **Jebaraj S**, Iniyar S and Goic R (2011), 'Forecasting of Coal Consumption Using Artificial Neural Network and Comparison with Various Forecasting Techniques', *International Journal of Energy Sources, Part A: Utilization and Environmental Effects*. Vol. 33, Issue: 14, pp. 1305 – 1316.
 8. **Jebaraj S**, Iniyar S and Goic R (2012), 'An Optimal Energy Allocation Model for Sustainable Resource Use in India', *International Journal of Energy Research*.

National Journal – 1

1. **Jebaraj S** and Iniyar S (2005), 'Formulation of Forecasting Model using Artificial Neural Networks and Optimal Energy Allocation Model using Fuzzy Linear Programming for India', *BIHER Journal of Mechanical Engineering*, pp. 78-92.

International Conference - 9

1. Wind Energy Programmes in India, *International Conference on New Millennium Alternative Energy Solutions for Sustainable Development*, PSG College of Technology, Coimbatore, 17 – 19 January 2003.
2. Hospital Solid Waste Management Systems, *International Conference on Energy and Environmental Technologies for Sustainable Development*, Malaviya National Institute of Technology, Jaipur, October 8 – 10, 2003.
3. Bio Energy Developments in India, *International Conference on Energy and Environmental Technologies for Sustainable Development*, Malaviya National Institute of Technology, Jaipur, October 8 – 10, 2003.
4. Sensitivity Analysis of the Optimal Energy Allocation Model (OEAM) Using Fuzzy Linear Programming for Energy Planning in India for the Year 2020, *International Interdisciplinary Conference on Sustainable Technologies for Environmental Protection*, Coimbatore Institute of Technology, Coimbatore, January 7-9, 2006.
5. Energy Models for Renewable Energy Utilization and to Replace Fossil Fuels, *Proceedings of the 5th conference on energy conservation in Building*, CIVILICA-Encyclopedia of Civil Engineering, Iran, June 2006.
6. An Optimal Electricity Allocation Model for the Effective utilization of energy Sources in India with Focus on Biofuels, *4th Dubrovnik Conference on Sustainable Development of Energy, Water and Environment Systems*, Croatia, June 4-8, 2007.
7. Energy Planning for India with Focus on Solar Based Electricity Generation, *Proceedings of the 29th ISES Biennial Solar World Congress 2009*, Johannesburg, South Africa, 11-14 October 2009, pp.1912, ISBN: 978-1-61738-852-1.

8. An Optimal Electricity Allocation Model for the Effective Utilisation of Energy Sources in India with Focus on Carbon Tax, *Proceedings of the 29th ISES Biennial Solar World Congress 2009*, Johannesburg, South Africa, 11-14 October 2009, pp.2935 - 2939, ISBN: 978-1-61738-852-1.
9. Allocation Model Using Fuzzy Linear Programming for Energy Management in India, proceedings on international conference on Biomedical Instrumentation, Engineering and Environmental Management, 22nd-23rd, July 2011 held at Karpaga Vinayaga College of Engineering and Technology, Chennai.

National Conference – 21

1. Photo-Voltaic Solar Energy Conversion, *National Conference on Future Trends in Mechanical Engineering – Research and Development*, Bharath Institute of Science and Technology, Chennai, 13 – 14 December 2002.
2. Solar Energy Programmes in India, *National Conference on Future Trends in Mechanical Engineering – Research and Development*, Bharath Institute of Science and Technology, Chennai, 13 – 14 December 2002.
3. Controlling of Centrifugal Pumps- A Review, *One-Day seminar on Recent Developments in Design of Hydraulic Machines*, Shri Angalamman College of Engineering and Technology, Tiruchirappalli, February 1, 2003.
4. Controlling of Positive Displacement Pumps- A Review, *One-Day seminar on Recent Developments in Design of Hydraulic Machines*, Shri Angalamman College of Engineering and Technology, Tiruchirappalli, February 1, 2003.
5. Design of Hydraulic Life without Compromise- a Review, *One-Day seminar on Recent Developments in Design of Hydraulic Machines*, Shri Angalamman College of Engineering and Technology, Tiruchirappalli, February 1, 2003.
6. Solar Thermal Energy Developments in India, *One Day seminar on Recent Developments in Design of Hydraulic Machines*, Shri Angalamman College of Engineering and Technology, Tiruchirappalli, February 1, 2003.
7. The Future Trend of e-Medicine: An Overview, *National Conference on Innovations in Information and Communication Technology- NCHICT – 2003*, PSG College of Technology, Coimbatore, pp 55- 58, March 7 – 8,2003.
8. Design of Hydraulic Controlled Gripper for a 3 D Robot, *MOSSIM-2003*, Annamalai University, Chidambaram, March 15-16,2003.
9. Concurrent Engineering: Pull Techniques – Design Management, *National Conference on Modeling and Analysis of Production systems – MAPS 2004*, National Institute of Technology, Tiruchirappalli, January 22 – 23, 2004.
10. Improved Chulhas Programmes in India, *National Conference on Advancement in Electrical and Mechanical Engineering (NCAEME)*, Mailam Engineering College, Mailam, February 20 – 21, 2004, pp. 91 – 95.
11. Four – Legged Robot – An Overview, *National Conference on Advancement in Electrical and Mechanical Engineering (NCAEME)*, Mailam Engineering College, Mailam, February 20 – 21, 2004, pp. 95 – 99.
12. Formulation of Forecasting Model for Wind Power in India, *National Conference on Advances in Mechanical Engineering*, S.V.U College of Engineering, Tirupati, 20 – 21, August 2004, pp. E59 – E61,

13. Forecasting of Conventional Energy Sources in India, *National Conference on Energy Conservation & Policy Options for Small and Medium Scale Industries*, PSG College of Technology, Coimbatore, 23 – 24, July 2004, pp.39 – 43.
14. Testing of diesel engine with bio-diesel, All India Seminar/ Conference on Advances in Mechanical Engineering, Sri Venkateshwara University, Thirupathi, August 20-21, 2004.
15. Forecasting of Electricity Consumption in India using Artificial Neural Networks (ANN), *National Conference on Advances in Mechanical and Production Engineering in the Era of Globalization*, Tagore Engineering College, Chennai, 11 - 12 February 2005, pp.36.
16. Optimization of Energy Resources Allocation Using Fuzzy Linear Programming, *National Conference on Mechanical Engineering & Research NCMER 05*, Bharath Institute of Higher Education & Research, Chennai, 28th February 2005, pp. 270 – 277.
17. Energy Demand Forecasting by Using Artificial Neural Networks, *National Conference on Mechanical Engineering & Research NCMER 05*, Bharath Institute of Higher Education & Research, Chennai, 28th February 2005, pp. 278 – 290.
18. Forecasting of Coal Consumption in India using Artificial Neural Networks (ANN), *National Conference on Mechanical Engineering & Research NCMER 05*, Bharath Institute of Higher Education & Research, Chennai, 28th February 2005, pp. 388 – 397.
19. Forecasting of Petroleum Consumption in India using Artificial Neural Networks (ANN), *National Conference on Mechanical Engineering & Research NCMER 05*, Bharath Institute of Higher Education & Research, Chennai, 28th February 2005, pp. 398 – 408.
20. Bio-diesel preparation and its performance testing, National Conference on Mechanical Engineering Research, Bharath Institute of Higher Education and Research, Chennai. 28th February 2005.
21. An Optimal Energy Planning Model using Fuzzy Linear programming for India, *National Conference on Recent Trends in Thermal Engineering, Competative Manufacturing and Management*, St. Joseph's college of Engineering, Chennai, 30th January 2007.

CONFERENCES AND WORKSHOPS ATTENDED:

1. National Conference on Future Trends in Mechanical Engineering – Research and Development, Bharath Institute of Science and Technology, Chennai, 13 – 14th December 2002.
2. International Conference on New Millennium Alternative Energy Solutions for Sustainable Development, PSG College of Technology, Coimbatore, 17 – 19th January 2003.
3. One-Day seminar on Recent Developments in Design of Hydraulic Machines, Shri Angalamman College of Engineering and Technology, Tiruchirappalli, 1st February 2003.

4. National Conference on Innovations in Information and Communication Technology- NCICT – 2003, PSG College of Technology, Coimbatore, 7 – 8th March 2003.
5. International Conference on Energy and Environmental Technologies for Sustainable Development, Malaviya National Institute of Technology, Jaipur, 8 – 10th October 2003.
6. National Conference on Advancement in Electrical and Mechanical Engineering (NCAEME), Mailam Engineering College, Mailam, 20 – 21st February 2004.
7. National Conference on Energy Conservation & Policy Options for Small and Medium Scale Industries, PSG College of Technology, Coimbatore, 23 – 24th July 2004.
8. National Conference on Advances in Mechanical Engineering, S.V.U College of Engineering, Tirupati, 20 – 21st August 2004.
9. National Conference on Advances in Mechanical and Production Engineering in the Era of Globalization, Tagore Engineering College, Chennai, 11 – 12th February 2005.
10. National Conference on Mechanical Engineering & Research NCMER 05, Bharath Institute of Higher Education & Research, Chennai, 28th February 2005
11. International Interdisciplinary Conference on Sustainable Technologies for Environmental Protection, Coimbatore Institute of Technology, Coimbatore, 7-9th January 2006.
12. 6th National Level Workshop on Cryogenics and Low Temperature Applications, St. Joseph's college of Engineering, Chennai, 18th August 2006.
13. Faculty development Programme on “Effective Teaching”, Rajiv Gandhi College of Engineering, Chennai, 9th September 2006.
14. National level workshop on Technology Enhanced Learning for Enriching Engineering Education, Organized by NPTEL, IIT Madras, IIITM – Kerala and Carnegie Mellon University, USA, Technopark, Thiruvananthapuram, 5th and 6th January 2007.
15. National Conference on Recent Trends in Thermal Engineering, Competitive Manufacturing and Management, St. Joseph's college of Engineering, Chennai, 30th January 2007.
16. Workshop on Technomatix Digital Manufacturing Solutions, conducted by UGS and Empower Consultancy, Chennai, 29th and 30th March 2007.
17. Workshop on Environmental Management held at Muthayammal Engineering College, Rasipuram, 13th and 14th October 2008.
18. Workshop on Consultation on the Higher Education Ministry – 2011 conducted by Church of South India, Chennai, 9th and 10th August 2011.

ACHIVEMENTS AND AWARDS

- Reviewer in International Journal of Energy, Elsevier Publications, UK.
- Reviewer for 3rd International Conference on Mechanical and Electrical Technology ICMET 2011, Dalian, China. August 26-27, 2011
- Editorial Board Member in International Journal of Computer Theory & Engineering, Singapore.

- Editorial Board Member in International Journal of Computer & Electrical Engineering, Singapore.
- Approved Ph.D Supervisor in Anna University of Technology, Coimbatore.
- Approved Ph.D Supervisor in Anna University of Technology, Tirunelveli..
- Approved Ph.D Supervisor in Karpagam University, Coimbatore .
- Life Member of ISTE (MISTE).
- Life Member of Institution of Engineers (INDIA) – MIE (M-140387-1)
- Member of African Wind Energy Association. Membership Number 520.
- Member in Society of Automotive Engineers, INC, SAE
- Member of International Association of Computer Science and Information Technology (IACSIT), Membership Number 80337583.
- Bharat Gaurav Award, Citizens Integration Peace Society, New Delhi, 17th January 2010.
- Pride of India Award, Citizens Integration Peace Society, New Delhi, 9th May 2010.
- Rashtriya Vidya Saraswati Puraskar, Certificate of Excellence Award, international Institute of Education and Management, New Delhi, 3rd March 2010.
- Eminent Educationist Award, Certificate of Excellence, National and International Compendium, New Delhi, 14th April 2010.
- Shiksha Bharti Puraskar, All India Achievers Foundation (AIAF), New Delhi, 10th July 2010.
- Shiromani Award, Citizens Integration Peace Society, New Delhi, 25th September 2010.
- Life Time Education Achievement Award – 2009, Health and Education Development Association (HEDA), New Delhi, 20th September 2010.
- Sadbhavna Award, Citizens Integration Peace Society, New Delhi, 19th November 2010.
- Rajiv Gandhi Education Excellence Award, International Institute of Education & Management, New Delhi, 30th November 2011.
- Jewel of India Award, Indian Solidarity Council, New Delhi, 23rd November 2010.
- Best Educationist Award, Certificate of Excellence, International Institute of Education and Management, New Delhi, 12th April 2011.
- International Gold Star Millennium Award, Citizens Integration Peace Society, New Delhi, 30th January 2011.
- Bharat Vidya Ratan Award 2010, Health and Education Development Association, New Delhi, 10th October 2011.
- Education Leadership Award, Indian Solidarity Council, New Delhi, 28th September 2011.
- Bharat Vidya Shiromani Award, Indian Solidarity Council, New Delhi, 12th August 2011.

- Vidya Ratan Award, the Economic for Health and Educational Growth, New Delhi, 20th September 2011.

RESOURCE PERSON:

1. *Resource person*, Faculty Development Programme on “Effective Teaching” on the topic “*Semester Management*” held at Rajiv Gandhi College of Engineering, Chennai, 9th September 2006.
2. *Chief Guest* for the inauguration of Department of Mechanical Engineering, Muthayammal Engineering College, Rasipuram, 9th July 2008.
3. *Chief Coordinator*, “Training programme on Usage of Power Tools”, held at Muthayammal Engineering College, Rasipuram, 6th August 2008.
4. *Coordinator*, Energy Club, Muthayammal Engineering College, Rasipuram.
5. *Coordinator*, “Rajiv Gandhi Akshay Urja Diwas”, held at Muthayammal Engineering College, Rasipuram, 20th August 2008 on the eve of celebration of New and Renewable Energy Day.
6. *Chief Coordinator*, “Workshop on Renewable Energy Systems and its Impact on Environment”, held at Muthayammal Engineering College, Rasipuram, 29th August 2008.
7. *Resource person*, Workshop on “Renewable Energy Systems and its Impact on Environment” on the topic “*Energy Planning*” held at Department of Mechanical Engineering, Muthayammal Engineering College, Rasipuram, 29th August 2008.
8. *Resource person*, Workshop on “Environmental Management” on the topic “*Wind Energy and Energy Planning*” held at Department of Management Studies, Muthayammal Engineering College, Rasipuram, 13th and 14th October 2008.
9. *Convener* for the National Level Technical Symposium MECHSYM’09 held on 13th February 2009 at Muthayammal Engineering College, Rasipuram.
10. *Reviewer* for ASME Conference ES2010 for the Paper Numbers ES2010-90116, 90135, 90360, 90369, 90012
11. *Chief Guest* for the 13th Annual Scholarship Test CADD QUEST – 2010 held on 20th December 2009, Tuticorin.
12. *Reviewer* for the 3rd International Conference on Machine Learning and Computing, Singapore 26-28th February 2011.
13. *Chief Guest* for the 12th Annual Day Celebration held on 26th March 2011 at Bharath Nursery & Primary School, Sebathiapuram, Tuticorin District.
14. *Convener* for the Two Day National Level Seminar Cum Workshop on Emerging Trends in Alternate Fuels and Automotive Electronics held on 6th and 7th September 2012 at Karpaga Vinayaga College of Engineering & Technology, Chennai.

CITATIONS IN JOURNALS AND PROCEEDINGS:

1. Eunnyyeong Heo and Yi Fen, Recent Development of Energy Use in China at the Industrial Sector Level, www.caea.gov.cn/n602669/n602674/n602697/n602761/appendix/2006828162053.doc, June 2005.
2. Ali Hamada Fakra et al, Modélisation d'un système Photovoltaïque en régime variable: Approche par réseaux de neurons Bayesiens, Congrès Français de Thermique, SFT 2006, 16-19 may 2006.
3. Aumnad Phdungsilp, Energy-Environment Modelling, Energy and Environment Course (4A1613), Royal Institute of Technology, Stockholm, Sweden, March 2006.
4. Louise Trygg, Swedish Industrial And Energy Supply Measures In A European System Perspective, Ping Studies in Science and Technology- Dissertation, No. 1049, Ping University, Sweden, 2006.
5. Jesse David Maddaloni, Techno-economic Optimization of Integrating Wind Power into Constrained Electric Networks, Thesis- Master Of Applied Science, University of Victoria, 2007.
6. Diyar Akay and Mehmet Atak, Grey prediction with rolling mechanism for electricity demand forecasting of Turkey, International Journal of Energy, Vol.32, Issue 9, pp. 1670-1675, 2007.
7. Al-Ghandour, Y.A Nahleh, Y. Sandouqa, and M. Al-Salaymeh, A Multivariate Linear Regression Model for the Jordanian Industrial Electric Energy Consumption, *Proceeding-Applied Simulation and Modelling* , ACTA Press, A Scientific and Technical Publishing Company, Canada, 2007.
8. Gronet, Chris M., Interconnects for solar cell devices , United States Patent 7259322, <http://www.freepatentsonline.com/7259322.html>, August 2007.
9. Konstantinos D. Patlitzianas and John Psarras, Formulating a modern energy companies' environment in the EU accession member states through a decision support methodology, International Journal of Energy Policy, Vol.35, Issue 4, pp. 2231-2238, 2007.
10. Saadi. A and Moussi. A, Evaluation of the Developed ANN Algorithms for Maximizing Efficiency of Photovoltaic Pumping System, www.jee.ro/articles/WB1168949461W45acc0d51eb08.pdf, 2007.
11. Koroneos C, Dompros A and Roumbas G, Renewable Energy Driven Desalination Systems Modelling, International Journal of Cleaner Production, Vol.15, Issue 5, 2007, pp.449 – 464.
12. Peter Ralevic, An Optimization Study of Integrated Agriculture Production Systems for Meeting Household Food, Fodder, and fuel Demands: A Case Study in the Dryland Region of India, Master's Thesis, Queen's University, Kingston, Ontario, Canada, 2008, P.13.
13. References of Oil and Gas Technology – Rev, IFP, Vol.63, No.2, 2008, pp.251 – 261.
14. Osmar Abilio de Carvalho Junior, Leonardo Figueiredo de Freitas, Renato Fontes Guimaraes, Roberto Arnaldo Trancoso Gomes and Daniel Gomes-Loebmann, A Methodology to Identify Potential Areas in Planning Small Hydro

- Power in Preto River Basin Through the use of Geographical Information Systems, *Revista Brasileira de Cartografia* N° 60/02, 2008, pp.196 (ISSN 1808-0936).
15. Himri Y, Boudghene Stambouli A and Draoui B, Prospects of Wind Farm development in Algeria, *American Journal of Environmental Sciences*, 4 (6), 2008, pp.589 – 594.
 16. Joseph Daniel et al, Evaluation of the Significant Renewable Energy Resources in India Using Analytical Hierarchy Process, *Lecture Notes in Economics and Mathematical Systems*, 1, Volume 634, Multiple Criteria Decision Making for Sustainable Energy and Transportation Systems, Part 1, Pages 13-26 (Springer Journal).
 17. Gabriel Anandarajah et al, Pathways to a Low Carbon Economy: Energy Systems Modelling, UKERC Energy 2050 research Report 1, March 2009: UKERC/RR/ESM/2009/001.http://www.carbontrust.co.uk/resource/conversion_factors/default.htm.
 18. Abbaspour et al, Design for Optimum Utilization of Integrated Energy Systems with Application to Rural Areas. *ISESCO Science and Technology Vision*, Vol.5, Number 8, November 2009, pp.18 – 25.
 19. Kapilan et al, Technical Aspects of Biodiesel and its Oxidation Stability, *International Journal of ChemTech Research CODEN(USA): IJCRGG*, Vol.1, No.2, pp.278 – 282.
 20. Modi and Gosai, Experimental Study on Thermal Barrier Coated Diesel Engine Performance with Blends of Diesel and Palm Biodiesel, *SAE International*, Paper No. 2010 – 01-1519, V119-4.
 21. Clodomiro Unsihuay-Vila et al, Integrated Operation and Expansion Planning of Natural Gas and Electricity Systems: Technical and Economical Aspects, *IEEE*, 2009, 978-1-4244-4241-6/09.
 22. Al-Ghandoor and Samhouri, Electricity Consumption in the Industrial Sector of Jordan: Application of Multivariate Linear Regression and adaptive Nero-Fuzzy Techniques, *Jordan Journal of Mechanical and Industrial Engineering JJMIE*, Vol.3, No.1, March 2009, pp.69-76.
 23. Bouam et al, Gas Turbine Performances Improvement Using Steam Injection in the Combustion Chamber Under Sahara Conditions, *Oil & Gas Science and Technology – Rev. IFP*, 2008, Vol.63, No.2, pp. 251-261.
 24. Andreia et al, Screening, Optimization and Kinetics of Jatropha Curcas Oil Transesterification with Heterogeneous Catalysts, *Renewable Energy*, Vol.36, Issue 2, Feb.2011, pp.726 – 731.
 25. Mustapha Hatti and Mustapha Tioursi, Neural Network Controller for Proton Exchange Membrane Fuel Cells, *2IWH 2007*, 27 – 29 October 2007, Ghardaia – Algeria.
 26. Camilo Hyoma Araya and Toshihiko Nakata, Technology Transfer of Innovative Distributed Energy Systems from Developed to Developing Countries; an Energy System Model, *USAEE Proceedings*.
 27. Saadi et al, An Efficient ANN Control Used in Grid- Connected Photovoltaic Systems, *International Conference and Exhibition on Green Energy &*

- Sustainability for Arid Regions & Mediterranean Countries ICEGES 2009, Jordan.
28. Himri et al, Wind Power Potential Assessment for Three Locations in Algeria, *Renewable and Sustainable Energy Reviews*, Vol.12, pp.2495 – 2504.
 29. Grzegorz et al, A Comparison of Performance and Emissions of an Engine Fuelled with Diesel and Biodiesel, SAE International, Paper No.2010-01-1474.
 30. Ghaly et al, Production of Biodiesel by Enzymatic Transesterification; Review, *American Journal of Biochemistry and Biotechnology*, 2010, vol. 6, issue 2, PP.54 – 76.
 31. Dagoumas and Barker, Pathways to a low-carbon economy for the UK with the macro-econometric E3MG model, *Energy Policy*, Vol.38, 2010, pp.3067 – 3077.
 32. Kadi et al, analyze of gas turbine performances with the presence of the steam water in the combustion chamber, *Revue des Renouvelables ICRESD-07 Tlemcen (2007)* 327-335.
 33. Ilkka Keppo, on Energy Modelling For a Range of Spatial, Temporal and Technological Scales, Doctoral Dissertation, TKK Dissertations 198, Espoo 2009
 34. Kai, T., Y. Mataka, T. Nakazato and H. Takanashi, 2010. Reaction conditions of two-step batch operation for biodiesel fuel production from used vegetable oils. *J. Applied Sci.*, 10: 1171-1175.
 35. Coşkun Hamzaçebi, Forecasting of Turkey's net electricity energy consumption on sectoral bases, *Energy Policy*, Volume 35, Issue 3, March 2007, PP 2009-2016.
 36. Mariana B. Oliveriraa, Antonio Jose Queimadab, Joao A.P. Coutinhoo, Prediction of near and supercritical fatty acid ester + alcohol systems with the CPA EoS, *J. of Supercritical Fluids* 52 (2010) 241-248
 37. Dana M. Johnson, Woody Biomass Supply Chain and Infrastructure for the Biofuel Industries, Industries Studies Association, 2011 Annual Conference, May31- June 3, Pittsburgh, PA.
 38. Dr. Oscar Alfredo Jaramillo Salgado, Energia Eolica, Implementacion De Proyectos Aplicando Sistemas Hibridos, Capacitacion Para Los Estados Miembros De La, Olade, CURSO CAPEV 2012, 6 de Agosto 2012.
 39. Bui Thanh Hung, Hoang Ba Chu, Bui Huy Phung, Application of Optimization Model to Analyze the Development of Vietnam Energy System Considering CO₂ Emission Constraint, E-09P, PP.297 – 302, www.shibaura-it.ac.jp/foreign_students/pdf/seatuc.../07_contents_01.pdf
 40. Petter Solding, More energy efficient casting without loss of output, www.energimyndigheten.se/.../Swecast/4
More%20energy%20efficient%20casting%20without%20loss%20of%20out.
 41. Sheikh Saeed Ahmad, Saima Muhammad, Rabia Shabbir and Abdul Wahid, Predicting Future Energy Requirements of Punjab (Pakistan) Agriculture Sector Using Leap Model, *World Applied Sciences Journal* 8 (7): 833-838, 2010, ISSN 1818-4952, © IDOSI Publications, 2010.

42. Neil Strachan, Uncertainties in UK decarbonisation transition pathways, Kings College, London, www.aeee.at/2009.../A_110_Strachan_Neil_25-Mar-2009,%2016:11.doc.
43. Jeroen Beliën, Jan Colpaert, Liesje De Boeck, Johan Eyckmans and Wouter Leirens, An Integer Programming Model for an Energy Supply Game, Hub Research Papers 2012/04, Economics & Management, January 2012.
44. Raheleh Fadavi, Naeimeh Samavatean., Alireza Keyhani and Seyyed Saied Mohtasebi, An Analysis of Improving Energy use with Data Envelopment Analysis in Apple Orchard, Asian Journal of Agriculture and Rural Development, Publisher: Asian Economic and Social Society, ISSN (P): 2304-1455, ISSN (E): 2224-4433, Volume 2, No. 2, June 2012.
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REFERENCES

1. Dr. INIYAN S,
Director & Professor,
Institute of Energy Studies,
Department of Mechanical Engineering,
Anna University,
Chennai-25.
Email: iniyan777@hotmail.com.
2. Dr. SUGANTHI L,
Professor, Department of Management Studies,
Anna University,
Chennai-25.
Email: suganthi_au@yahoo.com

I hereby declare that all the above-mentioned statements are true and correct to the best of my knowledge and belief.

S.Jebaraj