

CURRICULUM VITAE

I. PERSONAL DETAILS

Name : **S.INIYAN**

Date of Birth : May 28, 1961

Gender : Male

Marital status : Single

Citizenship status : Citizen of India

Languages known : Tamil and English

Present Position : Professor
Institute for Energy Studies
Department of Mechanical Engineering
Anna University
Chennai 600025, India

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Qualification : B.E., M.E., Ph.D.

II. EDUCATION

College of Engineering, : **Ph.D.** in Mechanical Engineering
Guindy, Anna University, **Thesis Title:** On the Development of a
Madras - 25, India Socially Acceptable and Reliability
(1998) based Optimal Renewable Energy
Mathematical Model for India

College of Engineering, : **M.E.** –Internal Combustion Engines
Guindy, Anna University,
Madras - 25, India
(1988)

College of Engineering, : **B.E.** in Mechanical Engineering
Guindy, Anna University,
Madras - 25, (1984)

III. RESEARCH AND WORK EXPERIENCE

- Sept. 1985 - Sept. 1988 : Worked as a Teacher Trainee in the Department of Mechanical Engineering, Anna University, Madras.
- Oct. 1988 - Sep. 1994 : Worked as a Lecturer in the Department of Mechanical Engineering, Anna University, Madras.
- Oct. 1994 – Oct. 1998 : Worked as a Senior Lecturer in the Department of Mechanical Engineering, Anna University, Chennai
- Oct. 1998 – Oct. 2006 : Worked as Assistant Professor in the Department of Mechanical Engineering, Anna University, Chennai
- July 1999 - Mar. 2000 : Done Post Doctoral research in the Department of Mechanical Engineering, The University of Hong Kong, Hong Kong
- Oct. 2006 – till date : Working as Professor, Institute for Energy Studies, Department of Mechanical Engineering, Anna University Chennai.
- Teaching UG :
1. Gas Dynamics and Jet Propulsion
2. Engineering Management
3. Renewable Energy Systems
- PG :
1. Design of condensers, evaporators and cooling towers
2. Energy conservation, modeling and project management
3. Renewable Energy Systems
- Research :
Guiding projects for Under Graduate and Post Graduate students in the field of Renewable Energy Sources.
- :
Supervising Ph.D research work in the field of energy modelling, energy forecasting, wind energy system and Solar PV system.

Total experience in teaching and research – 25 yrs.

IV. FUNDED PROJECT

AICTE Project	:	Reliability Studies on Wind Turbine Generators for Space Cooling in Rural Areas for Food Storage Applications
Grant	:	Rs. 500,000
Year	:	1999 – 2002
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IGIDR Project	:	Environment Life Cycle Analysis- Measuring consumer & Manufacturer Response to Environmental Pricing of Automotive Gadgets
Grant	:	Rs. 500,000
Year	:	2000 – 2003
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DST Indo-Croatia Project	:	Energy models for effective utilization of energy sources in India and Croatia.
Grant	:	Rs. 4,27, 000
Year	:	2006-2009
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DST Indo-Australia Project	:	Technical and economic assessment of improved solar photovoltaic linear concentrators and determination of market potential in India
Grant	:	Rs. 46,36,280
Year	:	2008-2010
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DST Indo-Italian Project	:	Energy Planning using Optimization methodology
Grant	:	Rs. 4,95,000
Year	:	2009-2012
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DST Indo-Israel Project	:	Solar power with steam injection gas turbine cycle
Grant	:	Rs. 18,28,900
Year	:	2011 - 2013
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UGC Major Research project:		Renewable Energy Substitution using Neuro-Fuzzy approach in Global Energy-Economy-Environment Model
Grant	:	Rs. 7,81,800
Year	:	2010 - 2013
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UGC project		Development of low carbon technologies for storage and drying of agricultural products
Grant	:	Rs. 60 lakhs
Year	:	2010 - 2015
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VII. CONTINUING EDUCATION PROGRAMME ORGANISED

- i. Organized a short-term course on *Reliability of Renewable Energy Systems* for teachers and Industrialists during 17-18, July 2000.
 - ii. Organized a workshop on Recent Trends in Renewable Energy for Research scholars and Post graduate students during February 2011
 - iii. Organized a workshop on Renewable Energy Systems for Research scholars and Post graduate students during March 2012
 - iv. A Seminar on Tamilnadu Solar Energy Policy 2012 was organized for Heads of Institutions, Chennai Region on December 6, 2012
 - v. Organized an International Workshop on Renewable Energy, Climate Change & Energy Management during January 24 - 25, 2013
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VII. PROFESSIONAL BODY AFFILIATION

- i. Member of Indian Society for Technical Education (ISTE).
- ii. Member of Society of Mechanical Engineers (SME).
- iii. Executive Member of Quality Circle Forum of India (QCFI).
- iv. Referee for Solar Energy Society of India (SESI) Journal.
- v. Referee for The International Journal of 'ENERGY'
- vi. Referee for The International Journal of 'POWER & ENERGY systems.
- vii. Member of the technical committee of The International Association of Science and Technology for development (IASTED)
- viii. Referee for The International Journal of 'APPLIED ENERGY'

VIII. COMPUTER KNOWLEDGE

Computer Packages : MS OFFICE, SPSS, MATLAB
PACUP, TORA, LINDO

IX. Ph.D GUIDANCE (Degree awarded – 6 Nos. , Ongoing – 6 Nos.)

- ❖ Investigations on exergo-economic aspects of Auto Refrigerating Cascade (ARC) system using environment friendly refrigerants
P. Somasundaram (2005) - **Degree awarded**
- ❖ Critical studies on air distribution in Air-conditioned building to meet Indoor Air Quality (I A Q) standards
S.Kalaiselvam (2006) - **Degree awarded**
- ❖ Development of Energy Forecasting model using Artificial Neural Network and Optimal Electricity Allocation model using fuzzy linear programming for India - S. Jebaraj (2006) - **Degree awarded**
- ❖ Energy conservation in air-conditioning system
Mr. Karunakaran (2008) - **Degree awarded**
- ❖ Energy efficiency improvements in Solar cooker
Mr. Kumaresan - **Degree awarded**
- ❖ Renewable Energy modeling for Tamil Nadu
Mr. Joseph Daniel - **Degree awarded**
- ❖ An experimental investigation of a Desalination system
G. Venkatesan - **On going**

- ❖ Experimental Studies on Solar PV/T system
Mrs. Sakunthala - **On going**
- ❖ Solar assisted Power plant
Jee Joe Michele - **On going**
- ❖ Energy modeling for India
Mr. Immanuel - **On going**

X. REVIEWER FOR INTERNATIONAL JOURNALS

1. Applied Energy – An International Journal
2. Biomass and Bioenergy – An International Journal
3. International Journal of Exergy
4. IEEE – An International Journal
5. Fuzzy Sets and Systems – An International Journal
6. International Journal of Sustainable Energy
7. Thermal Science – An International Journal
8. Renewable Power Generation – An International Journal
9. ENERGY – The International Journal
10. Renewable and Sustainable Energy Reviews – International Journal
11. Solar Energy – An International Journal
12. Energy policy – An International Journal

X. SHORT-TERM COURSES ATTENDED

1. ISTE Sponsored Summer School entitled “Advanced Fuel Efficient I.C.Engines for Transportation” held between June 19 - June 30, 1989 in the Department of Mechanical Engineering, I.I.T, Delhi.
2. ISTE Summer School on “Cryogenic Technology” held between May 28 - June 9, 1990 in the Department of Mechanical Engineering, Anna University, Chennai.
3. ISTE Course on “Common Laboratory Equipment” held between December 10 - December 22, 1990 in the Department of Electrical Engineering, I.I.T., Kharagpur.

4. ISTE Winter School on “Cogeneration and Waste Heat Recovery” held between December 5 - December 18, 1993 in the Department of Mechanical Engineering, Anna University, Chennai.
5. ISTE Winter School on “Desalination” held between December 12 - December 24, 1994 in the Centre for New and Renewable Sources of Energy, Anna University, Chennai.
6. ISTE Winter School on “Modern Trends in Food Preservation Technology” held between March 18 - March 29, 1996 in the Department of Mechanical Engineering, Anna University, Chennai.
7. Short-term course on “Sustainable Transformation of Rural Areas” held between October 14 - October 18, 1996 in the Centre for Continuing Education, Indian Institute of Science, Bangalore.
8. Continuing Education Programme on “Developments in Environment Friendly Food Preservation and Processing Technologies for Sustainability” held between March 24 & March 25, 1997 in the Department of Mechanical Engineering, Anna University, Chennai.
9. AICTE Sponsored Short term Course on “TQM Implementation Strategies for Educational Institutions” held between May 8 & May 9, 1998 conducted by TQM Cell, Anna University, Chennai.
10. Orientation Programme on “Standardization in Engineering Practice” held on 4 & 5 February 1999 at Anna University, Chennai.
11. ISTE Short term training programme on “Recent Advances in Industrial Tribology” held at the Department of Mechanical Engineering, Regional Engineering College, Calicut from 15th to 27th March, 1999.
12. Workshop on “Alternative Refrigerants “ organized by Anna University and National Chemical Laboratory, Pune during 19-21 Dec. 2001
13. Short term course on “Effective Classroom Management” for engineering college teachers held on 15th and 16th February 2002.
14. Training Programme on “Entrepreneurship Development Programme (EDP)” held from 3–28, Nov. 2003 at Chennai organized by FICCI.
15. Faculty Training Programme on “Entrepreneurship Development Programme” conducted by CPDE, Anna University on 7- 9 July, 2004.

VII. TRAVEL ABROAD

Country Visited	Purpose	Duration of Visit
South Korea	Paper presented in the Solar World Congress	August, 24-29, 1997
Hawaii, USA	Attended leadership seminar	August 4-25, 1998
Singapore	Delivered guest lecture in National University	Sep, 1998
Hong Kong	Undergone Post Doctoral Research in the University of Hong Kong	July 2, 1999 – March 30, 2000
Singapore	Paper presented in the International Conference	Nov.2, 2000 – Dec.2, 2000
Hong Kong	Paper presented in the International Conference	Dec. 3, 2000 – Dec. 6, 2000
Hong Kong	Delivered guest lecture in the Polytecnic University	June 2002
Malaysia	Delivered guest lecture in the Putra University Malaysia	June 2002
Toronto, Canada	Paper presented in the International Conference	September 12-15,2006
Croatia	Indo – Croatia Joint project	June 28 – July 31, 2007
Bari, Italy	Established MoU with Politecnico di Bari , Italy	July 10-20, 2007
Croatia	Indo – Croatia Joint project	June 21 – July 20, 2008
Bari, Italy	Established research activities in renewable energy	July 5 – July 15, 2008
Croatia	Indo – Croatia Joint project	June – July 2009
Hungary	Research activity	July 2009
Austria	Research activity	July 2009
Spain	USAID visit	October 2009
China	International Conference	November 2009
Australia	Indo-Australia joint project	Feb-March 2010
Bari, Italy	Indo-Italy joint project	November 2010
Phoenix, USA	International conference	Jan-Feb 2011
Houghton, USA	Exchange visit to Michigantec	April-May 2011
Bari, Italy	Indo-Italy joint project	July-August 2011
Philadelphia, USA	International Conference	March, 2012
Israel	Indo-Israel joint project	June-July 2012

XI. LIST OF RESEARCH PUBLICATIONS

PAPERS PUBLISHED IN REFEREED INTERNATIONAL JOURNALS

1. Iniyan S., Suganthi L. and Jagadeesan T.R., Mathematical Model for Utilization of Renewable Sources of Energy in a Developing Country like India, ***International Journal of Renewable Energy***, Vol.5, Part II, pp.2448-2451, September 1994.
2. Iniyan S. and Jagadeesan, On the Development of a Reliability Based Optimal Renewable Energy Model for the Sustainable Energy Scene in India, ***International Journal of Ambient Energy***, Vol.18, No.3, pp.153-164, July 1997.
3. Iniyan S. and Jagadeesan T.R., A Comparative Study of Critical Factors Influencing the Renewable Energy Systems use in the Indian Context, ***International Journal of Renewable Energy***, Vol.11, No.3, pp.299-317, 1997.
4. Iniyan S., Suganthi L. and Jagadeesan T.R., Renewable Energy Planning for India in 21st Century, ***International Journal of Renewable Energy***, Vol.14, No.1-4, pp.453-457, 1998.
5. Iniyan S., Suganthi L. and Anand A.Samuel, Stability and Consensus Analysis on the Delphi Study for the Utilisation of Renewable Energy Sources in India, ***International Journal of Ambient Energy***, Vol.19, No.4, pp.171-180, October 1998.
6. Iniyan S., Suganthi L. and Jagadeesan T.R., Critical Analysis of Wind Farms for Sustainable Generation, ***International Journal of Solar Energy***, Vol.64/4-6, pp.141-149, January 1999.
7. Iniyan S. and Jagadeesan T.R., Effect of Wind Energy System Performance on Optimal Renewable Energy Model - An Analysis, ***International Journal of Renewable and Sustainable Energy Reviews***, Vol.2/4, pp.327-344, January 1999.
8. Iniyan S., Suganthi, L., Jagadeesan T.R. and Anand A.Samuel, Reliability based socio economic optimal renewable energy model for India, ***International Journal of Renewable Energy***, Vol.19, pp.291-297, 2000.
9. Iniyan S., Sumathy, K. Suganthi L. and Anand A.Samuel, Sensitivity Analysis of Optimal Renewable Energy Mathematical Model on Demand Variations in India, ***International Journal of Energy Conversion And Management***, Vol.41(2), pp. 199-211, 2000.
10. Iniyan S., and Sumathy K. An optimal renewable energy model for various end-uses, ***International Journal of Energy***, Vol.25, pp.563-575, 2000.

11. Iniyan S., Suganthi L. and Anand A. Samuel, A survey of social acceptance in using renewable energy sources for the new millennium, ***International Journal of Renewable Energy***, Vol.24, pp. 657-661, 2001.
12. Iniyan S. and Sumathy K. The application of a Delphi technique in the linear programming optimization of future renewable energy options for India, ***International Journal of Biomass & Bioenergy***, Vol.24, Issue 1, PP.39-50, January 2003.
13. Kalaiselvam. S, Robin J.R, Iniyan S., Suganthi.L., and Anand A.Samuel, Empirical Formulation for Air Terminal Placement Favoring Thermal comfort, ***International Journal of Eco Librium – AIRAH***, Vol.2, pp. 18 – 22, Nov.2003.
14. Somasundaram, P,Dinakaran, R.,Iniyan,S .AnandSamuel,A.A. Exergy based refrigerant selection and simulation of auto refrigeration cascade (ARC) system, ***International Journal of Exergy***, Vol.1,No.1, pp. 60-81, 2004.
15. Kalaiselvam S., Robin J.R., Jose S., Iniyan. S. and Anand A. Samuel, A Survey Of Indoor Air Quality Problems In Air-Conditioned Buildings In India, ***Indoor Air***, vol.15, no.11,p.42, 2005.
16. Iniyan S., Suganthi L. and Anand A. Samuel, Energy models for commercial energy prediction and substitution of renewable energy sources, ***International Journal of Energy Policy***, Vol.34, pp.2640-2653, 2006.
17. Jebaraj S and Iniyan S, A Review of Energy Models, ***International Journal of Renewable & Sustainable Energy Reviews***, Vol.10 , pp. 281-311, 2006.
18. Jebaraj S and Iniyan S, Renewable Energy Programmes in India, ***International Journal of Global Energy Issues***, Vol.26, Nos.3/4, pp.232-257, 2006.
19. Joselin Herbert G.M., Iniyan S., Sreevalsan E. and Rajapandian, Prospects of wind energy in India, ***International Journal of Global Energy Issues***, Vol.26, Nos.3/4, pp.258-287, 2006.
20. Kalaiselvam. S, Vidhya sagar Velichet., Iniyan. S and Anand A. Samuel, Comparative energy analysis of a constant air volume (CAV) system and a variable air volume (VAV) system for an software laboratory, The ***International Journal of Ventilation***, Vol. 5, No.2, pp. 229 – 238, 2006.
21. Joselin Herbert G.M., Iniyan S., Sreevalsan E. and Rajapandian, A review of wind energy technologies, ***International Journal of Renewable & Sustainable Energy Reviews***, Vol.11, pp.1117-1145, 2007.

22. Karunakaran R, Parameshwaran R, Iniyan S, Anand A. Samuel Experimental evaluation of Combined DCV and economizer cycle using a FLC Variable Air volume (VAV) system, ***International Journal for Ventilation***, Vol.5 No.4 pp 393-404, 2007.
23. Jebaraj S and Iniyan S, Forecasting of Commercial Energy Consumption in India Using Artificial Neural Network, ***International Journal of Global Energy Issues***, Vol.27, Issue 3, pp.276-301,2007.
24. Jebaraj S and Iniyan S, An optimal energy allocation model using fuzzy linear programming for energy planning in India for the year 2020, ***International Journal of energy technology and policy***, Vol. 5, Issue 4, pp.509-530,2007.
25. Iniyan S., Suganthi L. and Anand A. Samuel, A Mathematical model for renewable energy planning in developing countries, ***International Journal of Power and Energy systems***, Vol.27, No.2, 2007.
26. S. Jebaraj, S.Iniyan, L.Suganthi and Ranko Goic, An optimal electricity allocation model for the effective utilization of energy sources in India with focus on biofuels, ***Management of Environmental Quality:An International Journal***, Vol. 19, No. 4, pp.1477-7835, 2008
27. Karunakaran R, Parameshwaran R Iniyan S, Energy efficient controller for improving Thermal comfort, IAQ and Energy saving in HVAC system, ***AMSE journal***, Vol.76, No.3, pp.31-49, 2007.
28. R. Karunakaran, R. Parameshwaran, Ramakrishna Pyluru, S. Iniyan, D. Mohan Lal, Experimental Analysis of Genetic-Fuzzy Inverter DX VAV A/C System for Automatically Ventilated Buildings, ***International Journal for Ventilation***, Vol.6, No.3, pp.219-234, 2007.
29. Karunakaran. R, Parameshwaran. R, Iniyan. S, Senthil kumar. A, A Fuzzy based Efficient Air Conditioning System for Energy Conservation in Buildings”, ***International Journal of Computational Intelligence Theory and Practice*** , Vol.2, No.2, pp.89-104, 2008.
30. Kalaiselvam. S, Veerappan. M and Iniyan. S, Experimental and Analytical Investigation of solidification and melting characteristics of PCMs inside cylindrical encapsulation, ***International journal of Thermal Sciences***, Vol.47, Issue 7, pp.858-874, 2008.
31. J. Daniel, M. Dicorato, G. Forte, S. Iniyan, M. Trovato, A methodology for the electrical energy system planning of Tamil Nadu state (India), ***Energy Policy***, Volume 37, Issue 3, March 2009, Pages 904-914
32. M. Veerappan, S. Kalaiselvam, S. Iniyan, Ranko Goic Phase change characteristic study of spherical PCMs in solar energy storage, ***Solar Energy***, Volume 83, Issue 8, August 2009, Pages 1245-1252

33. Mirunalini Thirugnanasambandam, S. Iniyar, Ranko Goic A review of solar thermal technologies, **Renewable and Sustainable Energy Reviews**, Volume 14, Issue 1, January 2010, Pages 312-322
34. R. Karunakaran, S. Iniyar, Ranko Goic Energy efficient fuzzy based combined variable refrigerant volume and variable air volume air conditioning system for buildings, **Applied Energy**, Volume 87, Issue 4, April 2010, Pages 1158-1175
35. Joseph Daniel, Nandigna.V, Bensely.A, Iniyar.S, Evaluation of significant renewable energy technologies in India using Analytical Hierarchy process, **Multiple Criteria Decision Making for Sustainable Energy and Transportation Systems**, , Vol 634, 2010.
36. G.M. Joselin Herbert, S.Iniyar, L.Suganthi and Ranko Goic, Performance analysis of a wind farm, **International Journal of Green Energy, Energy and Environment**, Volume 1, Number 1, April 2010.
37. G.M. Joselin Herbert, S.Iniyar, and Ranko Goic, Performance, Reliability and Failure Analysis of Wind Farm In A Developing Country, **International Journal of 'Renewable Energy'** Volume 35, December 2010, pp2739-2751
38. R.Parameshwaran, R. Karunakaran, C. Vinu Raja Kumar, S. Iniyar, Energy conservative building air conditioning system controlled and optimized using fuzzy-genetic algorithm, **Energy and Buildings**, Volume 42, Issue 5, May 2010, pp. 745-762.
39. Bhubaneswari Parida, S. Iniyar and Ranko Goic, A review of solar photovoltaic technologies, **Renewable And Sustainable Energy Reviews**, Volume 15, Issue 3, April 2011, pp. 1625-1636.
40. S. Jebaraj, S. Iniyar and R.Goic, Forecasting of coal consumption using an artificial neural network and comparison with various forecasting techniques, **Energy Sources Part A**, Volume 33, Pages 1305-1361, 2011.
41. S. Jebaraj, S. Iniyar and R. Goic, An Optimal Electricity allocation Model for Effective Utilization of Energy Sources, **Energy Sources, Part B: Economics, Planning, and Policy**, paper accepted - Production tracking number: UESB 542434
42. J. Daniel, M. Vivar, L. Suganthi, S. Iniyar, I. Skryabin, Market acceptable cost for a Hybrid Solar Linear Concentrator in India – A sensitive study, **Energy Sources, Part B: Economics, Planning, and Policy**, paper accepted - Production tracking number: UESB 590845
43. N. Thilak Raj, S. Iniyar and Ranko Goic, A Review of renewable energy based cogeneration technologies, **Renewable and Sustainable Energy Reviews**, Volume 15, Issue 7, July 2011, pp. 3640-3648.

44. S. VijayavenkataRaman, S. Iniyan, Ranko Goic, A review of climate change, mitigation and adaptation, **Renewable and Sustainable Energy Reviews**, Volume 16, Issue 1, January 2012, pp. 878-897.
45. S. Jebaraj, S. Iniyan and Ranko Goic, An Optimal Electricity Allocation Model for sustainable resource use in India, **International Journal of Energy Research**, Feb 2012, DOI:10.1002/er.2896.
46. J. Daniel, M. Vivar, L. Suganthi, S. Iniyan, & I. Skryabin, On the economics of CHAPS system based on the photovoltaic linear concentrators in India, **International Journal of Green Energy**, Volume 9, Issue 4, May 2012, Pages 335-351.
47. S. VijayavenkataRaman, S. Iniyan, Ranko Goic, A review of solar drying technologies, **Renewable and Sustainable Energy Reviews**, Volume 16, Issue 5, June 2012, pp. 2652-2670.
48. G. Venkatesan, S. Iniyan, Ranko Goic, A prototype flash cooling desalination system using cooling water effluents, **International Journal of Energy Research**, June 2012, DOI:10.1002/er.2932

PAPERS PUBLISHED IN REFEREED NATIONAL JOURNALS

1. Kalaiselvam.S, Robin J.R, Iniyan, and Anand A.Samuel., Aerospace Cabin Environment Quality Maintenance, **Journal of Mechanical Engineers**, Vol. 6, No.1, pp. 55 – 62, Dec.2002.
2. Iniyan S., Suganthi L. and Anand A. Samuel, Pareto Analysis on Grid Problems of Wind Turbine Generators for Sustainable Development, **Journal of Wind Pro**, Vol, 65, pp.34-37, March 2003.
3. Joselin Herbert. G.M, Rajapandian. S, Iniyan. S, Sreevalsan. E, Pareto Analysis On Various Problems Of Grid Connected Wind Energy Conversion System, **Journal of Wind Pro**, Vol, 89, pp.25-30, March 2005.
4. Jebaraj S and Iniyan S, 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, 2005.
5. Suganthi L., Iniyan S. and Anand A. Samuel, Impact of carbon tax on Electricity demand in India, **Energy & Fuel Users' Journal**, pp. 36-40, 2006.
6. R. Karunakaran, A. Senthilkumar, R. Parameshwaran, S. Iniyan, Experimental Analysis of DX VAV Inverter Air Conditioning Unit Optimized by Artificial Neural Network, **Engineering Today**, 2007.

PAPERS PRESENTED IN INTERNATIONAL / NATIONAL CONFERENCES

1. Iniyan S., Suganthi L. and Jagadeesan T.R., Environmental and Social Impact of Renewable Energy Substitution for Optimum Demand Variation in the National Energy Scene, *National Solar Energy Convention*, Dec.1992.
2. Iniyan S., Suganthi L. and Jagadeesan T.R., Exergy Based Energy Modelling for Renewable Source of Energy in India - A Conceptual Approach, *Energy and Fuel Users' Association*, January 1993.
3. Iniyan S., Suganthi L. and Jagadeesan T.R., Techno Economic Optimization Model for Renewable Energy Resources in Indian Rural Sector, *International Workshop on Integrated Rural Energy Planning*, April 1993.
4. Iniyan S., Suganthi L. and Jagadeesan T.R., Mathematical Model for Utilization of Renewable Sources of Energy in a Developing Country like India, *World Renewable Energy Congress, U.K.*, September 1994.
5. Iniyan S., Suganthi L. and Jagadeesan T.R., Critical Policy Constraints for Biomass Utilisation in India using Resource Allocation Model, *International Conference on Bio Resource*, India, October 1994.
6. Iniyan S., Suganthi L. and Jagadeesan, Optimal Energy Mix for Sustainable Environment Quality, *International Conference on Energy*, India, November 1994.
7. Iniyan S., Suganthi L. and Jagadeesan T.R., Fault Analysis of Wind Energy Systems in India, *World Renewable Energy Congress, USA*, June 1996.
8. Suganthi L., Iniyan S. and Jagadeesan T.R., Adoptability Studies of Renewable Energy Sources in Indian Context, *World Renewable Energy Congress, USA*, June 1996.
9. Iniyan S., Suganthi L. and Jagadeesan T.R., Delphi Analysis for the Utilisation of Renewable Energy Sources in India, *International Conference on Energy, Asia Energy Vision 2020, World Energy Council*, New Delhi, India, November 1996.
10. Suganthi L., Iniyan S. and Jagadeesan T.R., A Mathematical Model Predicting Environmental Degradation from Energy Utilisation in India in 2020-21, *International Conference on Energy, Asia Energy Vision 2020, World Energy Council*, New Delhi, India, November 1996.
11. Iniyan S., Suganthi L. and Jagadeesan T.R., Optimal Renewable Energy Model for Part Load Commercial Energy Substitution in India, *International Symposium on Advances in Alternative Renewable Energy, Malaysia*, 22-27 July 1997.

12. Iniyam S., Suganthi L. and Jagadeesan T.R., Critical Analysis of Wind Farms for Sustainable Generation, *Solar World Congress of International Solar Energy Society, Korea*, 24-30 August 1997.
13. Iniyam S., Suganthi L. and Jagadeesan T.R., Energy Models Focussing on Environmental and Rural Factors in the Indian Scene, *29th National Seminar on Energy Strategies for 21st Century*, Energy and Fuel Users' Association of India, Madras, 27th September 1997.
14. Iniyam S., Suganthi L. and Jagadeesan T.R., Reliability Analysis of 200 kW Wind Turbine Generators in India, *National Solar Energy Convention - 97*, Anna University, Madras, 22-24 December 1997.
15. Iniyam S., Suganthi L. and Jagadeesan T.R., Environmental Based Optimal Renewable Energy Model (OREM) to Protect Atmospheric Pollution in India, *International Workshop cum Seminar on Environment, Medical Ethics and Biodiversity*, Maharashtra, India, 13-16 January 1998.
16. Iniyam S., Suganthi L. and Jagadeesan T.R., Availability and Reliability Analysis of 15 kW Solar PV Power Plant in India, *3rd International Conference on Solar Electricity, Sharjah, UAE*, 21-25 March 1998.
17. Iniyam S., Suganthi L. and Jagadeesan T.R., Renewable Energy Planning for India in 21st Century, *The Sixth Arab International Solar Energy Conference*, March 29 - April 1st, 1998.
18. Iniyam S., Suganthi L. and Jagadeesan T.R., Reliability Based Socio economic Optimal Renewable Energy Model for India, *World Renewable Energy Congress V, Florence, Italy*, 20-25 September 1998.
19. Iniyam S., Suganthi L. and Anand A.Samuel, Social Acceptance Analysis in the Utilisation of Solar Energy in India for the 21st Century, *World Renewable Energy Congress V, Florence, Italy*, 20-25 Sep. 1998.
20. Suganthi L., Iniyam S. and Anand A.Samuel, Prediction of Commercial Energy Demand and Environmental Degradation using Modified Model with Special Reference to the Transport Sector, *TIFAC - 3rd International Association of Technology Assessment and Forecasting Institutions (ATAFI)*, 17-19 November 1998.
21. Suganthi L., Iniyam S., Mohan Lal D. and Anand A.Samuel, Critical Conditions for Optimal Energy Recovery from Vapour Compression Refrigeration System, *7th International Energy Conference and Exhibition, Bahrain*, 19-21 November 1998.
22. Iniyam S., Suganthi L. and Anand A.Samuel, An Optimal Renewable Energy Model (OREM) for the Effective Utilisation Renewable Energy Sources in India, *7th International Energy Conference and Exhibition, Bahrain*, 19-21 November 1998.

23. Suganthi L., Iniyan S., Karthikeyan G. and Anand A.Samuel, Investigations on a Three Phase Vapour Absorption Refrigeration System for Solar Energy Application, *National Solar Energy Convention '98*, 30-2 December 1998.
24. Iniyan S., Suganthi L. and Anand A.Samuel, Reliability Analysis of 15 kW Solar PV Power Plant in Tamil Nadu, *National Solar Energy Convention'98*, 30-2 December 1998.
25. Suganthi L., Iniyan S. and Anand A.Samuel, Towards Environment Friendly Power Sector in India, *30th National Seminar on Emerging Challenges in Energy and Environment Energy and Fuel Users Association*, 11-12 December 1998.
26. Iniyan S., Suganthi L. and Anand A.Samuel, An Optimal Renewable Energy Model for Effective Utilisation of Renewable Energy Sources in India, *WREN - Regional Renewable Energy Congress '99 - Murdoch University, Australia*, 10-13 February 1999.
27. Iniyan S. and Suganthi L. and Anand A.Samuel, Renewable Energy Scenario in India - A Futuristic Approach, *ISES Solar World Congress, Jerusalem, Israel*, 4-9 July 1999.
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Papers Published	Nos.
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