

Curriculum Vitae, Dr. Jai Govind Singh

Summary

Employment background:

July 2016 – present: Associate Professor, AIT

Dec 2009 – June 2016: Assistant Professor, AIT

July 2009 – Oct 2009: Postdoctoral Research Fellow, University of Queensland, Brisbane

April 2008 – June 2009: Postdoctoral Research Associate, KTH Stockholm

Aug 2003 – Feb 2008: Doctoral Research Scholar, IIT Kanpur, India

Jun, 2003 – July, 2003: Research Fellow in ARRPEEC-III, SERD, AIT, Thailand.

March, 2003 – July, 2003: Sr. Project Associate in Asian Regional Research Program in Energy, Environment and Climate-III (ARRPEEC-III),” Department of Electrical Engineering, IIT Kanpur, India

Teaching and Research focuses:

1. Smart Grid and Renewable Energy Management
2. Microgrid and Distributed Generations
3. Restructuring of Electricity Supply Industry
4. Power System Design and Operations
5. Generations and Integration of Renewable Energy
6. Power Distribution Systems
7. Electric, Hybrid Electric and Fuel Cell Vehicles

Academic degrees:

1. Ph.D.: IIT Kanpur, India
2. M. Tech.: IIT Roorkee, India
3. B.E.: MNNIT Allahabad, India

Member of research supervisions committee: 132

1. Master: **128**
2. Doctoral: **4**

Research supervisions as chairman of committee: 48

1. Master: **42** in AIT and 3 in KTH Stockholm
2. Doctoral: **6** in AIT Thailand

Research projects: 16

No. of training programs organized: 3

Publications: 90

1. Peer Reviewed International Journal Articles: **27**
2. Peer Reviewed International Conferences Papers: **57**
3. Book chapter: **1**
4. Monographs, reports, policy briefs: **5**

Int. conferences organized:

1. Conference director: **1**
2. Co-chair: **1**
3. Member of the technical organizing committee: **4**
4. Advisory board: **4+**

Invited expert talks/speeches/lectures:

1. Keynote speeches: **8**
2. Talks: **7**
3. Lectures in training programs for utilities: **25+**

No. of development projects:

1. Pump storage Micro-hydro
2. 3 kW solar PV testing
3. Online electricity monitoring

Details:

Full name:

Dr. Jai Govind Singh

Main employer:

Asian Institute of Technology, Thailand

Contact details:

58 Moo 9, Km. 42, Paholyothin Highway, Klong Luang,
Pathum Thani 12120. Thailand
Tel. +6625245426,
E-mail: jgsingh@ait.ac.th

Positions held:

July, 2016 – present

Associate Professor, Department of Energy, Environment and Climate Change, SERD, AIT, Thailand.

June 2017 –2018

Director, International Conference on Green Energy for Sustainable Development, 24-26 October, Phuket, Thailand

Dec., 2009 – June 2016

Assistant Professor, Department of Energy, Environment and Climate Change, SERD, AIT, Thailand.

Nov., 2013 – Dec. 2015	Coordinator Department of Energy, Environment and Climate Change, SERD, AIT, Thailand.
Nov., 2013 – Dec.2015	Coordinator MBA in Energy Business, SERD/SOM, AIT,
Nov., 2013 – Dec. 2015	Director Regional Energy Resources Information Centre, AIT
July, 2009 – Oct., 2009	Postdoctoral Research Fellow University of Queensland, Brisbane, Australia.
April, 2008 – June, 2009	Postdoctoral Research Associate EPS Division, Royal Institute of Technology-KTH, Sweden.
Jun, 2003 – July, 2003	Research Fellow Asian Regional Research Program in Energy, Environment and Climate-III (ARRPEEC-III), SERD, AIT, Thailand.
March, 2003 – July, 2003	Sr. Project Associate in Asian Regional Research Program in Energy, Environment and Climate-III (ARRPEEC-III),” Department of Electrical Engineering, IIT Kanpur, India

Academic qualifications:

Ph.D. (2008) in Power and Control, EED, Indian Institute of Technology, Kanpur, India
M. Tech. (2003) in Power System, EED, Indian Institute of Technology, Roorkee, India
B. E. (2001) Electrical Engineering, Motilal Nehru National Institute of Technology, Allahabad, India

Professional experience:

Dr. Jai Govind Singh is working as an Associate Professor in the Department of Energy, Environment and Climate Change at the Asian Institute of Technology. Dr. Singh teaches/supervises and do research in areas of Smart Grid; deregulation of power industry; power distribution system planning; renewable power generation and integration; power system design and operation; Electric, Hybrid Electric and Fuel Cell Vehicles. Before joining AIT, Dr. Singh worked at University of Queensland, Brisbane, Australia as Research Fellow; and also worked at Royal Institute of Technology, Stockholm, Sweden as Postdoctoral Research Associate. Dr. Singh is also a Senior member of IEEE Power and Energy Society.

Doctoral and Master research supervisions at AIT Thailand:

STUDENTS	COMPLETED			IN-PROGRESS		
	Chair of the Committee	Co-Chair of the Committee	Member of the Committee	Chair of the Committee	Co-Chair of the Committee	Member of the Committee
Doctoral	4	2	4	4	0	3
Master's	36+2*	3+1*	128	14	0	13

*Supervised at KTH, Stockholm

Total number of citations of published work, as shown below in table

SCOPUS			Researchgate			Google Scholar		
Citations	h-index	i10-index	Citations	h-index	RG Score	Citations	h-index	i10-index
311	9	9	432	10	22.11	562	11	18

(Scopus link: <http://www.scopus.com/authid/detail.url?authorId=37462123800&origin=cto>)

(Researchgate link: https://www.researchgate.net/profile/Jai_Govind_Singh)

(Google scholar link: <http://scholar.google.co.th/citations?user=yeX22UYAAA&hl=en>)

**Summary of Doctoral Research Supervisions as Chairperson/Co-chairperson:
(Name, Nationalities, Status/Year of Completion, Dissertation title)**

In progress:

1. Mr. Mr. Trung Quang Nguyen (**Vietnamese**, Pursuing): Optimal Sizing of Energy Storage in Electric Vehicles
2. Miss Panaya Sudta (**Thai**, Pursuing): Economic and Technical affectation of Prosumer Model and Disruptive Energy Technologies tools (**Publication**: One paper in international conference)
3. Mr. Pornchai Chaweewat (**Thai**, Pursuing): Electricity Pricing Forecasting in Smart Grid by using Python based Machine Learning tools (**Publication**: Two paper in international conference)
4. Ms. Raja Nivedha (**Indian**, Pursuing): Dynamic performance analysis of power system with low rotational inertia equipment (**Publication**: Three paper in international conference)

Completed:

5. Ms. Anongpun Man-Im (**Thai**, Co-chair, 2018): Multi-objective OPF using Stochastic Weight Trade-off NSPSO (**Status**: working in EGAT Thailand; **Publication**: Two papers in international conference and another one in international journal)
6. Mr. Nimal Madhu M (**Indian**, 2016): Power Flow and ATC Estimation in Modern Power Systems (**Status**: Postdoc in AIT Thailand; **Publication**: 5 articles in journal and 5 international conference papers are published)
7. Mr. Nikhil Sasidharan (**Indian**, 2016): Renewable Powered Hybrid AC/DC Home Community Grid (**Status**: Postdoc in AIT and now working as an assistant professor in NIT Calicut, India; **Publication**: 5 articles in journal and 3 international conference articles are published and another one journal article is revised and resubmitted submitted)
8. Mr. Vivek Mohan (**Indian**, 2016): Stochastic Optimal Energy, Reserve and Risk Management in Microgrid (**Status**: Postdoc in Hong Kong Polytechnic and now working as an assistant professor in NIT Trichy, India; **Publication**: 6 articles in journals and 6 papers in international conference are published)
9. Mr. I Made Wartana (**Indonesian**, 2012): Optimal Placement of Multiple FACTS Devices for Maximizing Loadability by PSO (**Status**: working as a lecturer in ITN Malang, Indonesia; **Publication**: Published two journal and four conference articles)
10. Mr. Sasidharan Sreedharan (**Indian**, Co-chair, 2010): Development of the PSO Based Robust Controller for Maximizing Wind Energy Penetration in Power Systems (**Status**: working as a professor in MES Kerala, India; **Publication**: Three journals and five conference articles)

**Summary of Doctoral Research Supervisions as Member of Program Committee:
(Name, Nationalities, Status/Year of Completion, Dissertation title)**

In progress:

1. Mr. Vatee Laoharajanaphand (**Thai**, Pursuing): Optimal Generation Scheduling of Hybrid Solar Photovoltaic-Wind-Hydro-Energy Storage under Thailand's National Energy Trading Platform
2. Mr. Sheraz Khan (**Pakistani**, TC/SET, Pursuing): Demand-Side Energy Management in Smart Grid Using Cognitive Radio Communications

3. Mr. Titipong Samakpong (**Thai**, Pursuing): Robust Optimization-Based AC Optimal Power Flow for Managing Wind and Solar Power Uncertainty

Completed:

4. Mr. Sittichoke Pookpant (**Thai**, 2017): Optimal Placement of Wind Turbine Using a Discrete Particle Swarm Optimization with Time-Varying Acceleration Coefficients
5. Mr. Minn Thu Aung (**Burmese**, WEM/SET, 2016): Assessment of Climate Change Impacts on Hydrology and Hydropower Generation in Belu Chaung Basin of Myanmar
6. Ms. Jirawadee Polprasert (**Thai**, 2016): Security Constrained Optimal Power Flow Using Self-Organizing Hierarchical Particle Swarm Optimization
7. Mr. Saksorn Chalermchaiarbha (**Thai**, 2012): Multi-Objective Economic Dispatch by Stochastic Weight Trade-Off Particle Swarm Optimization

Master Thesis Supervisions as Chairperson:

(Name, Nationality, Graduation Year, Thesis/Research/Project titles)

In progress

1. Mr. Lim Pila (**Cambodian**, Research study, December 2019):
2. Mr. Shubham Tiwari (**Indian**, December 2019):
3. Mr. Mr. Sathi Manikanteswara Reddy (**Indian**, Research study, May 2019):
4. Mr. Malisetty Revanth (**Indian**, May 2019): Determining the Optimal Incentive to Power Utility and the Customers in Electric Power markets
5. Mr. Srinivas Akasapu (**Indian**, Research study, May 2019): Estimation of Distance Travelled by Electric Vehicle at any SOC of Battery
6. Mr. Manish Kumar (**Indian**, December 2019): Congestion Management in Power System by Using Blockchain Technology
7. Mr. Pham Xuan Dien (**Vietnamese**, May 2019): Stochastic Hydro-Thermal-Solar-Wind Coordination in short-term using Cumulants and clustering-based scenario reduction
8. Mr. Prachya Laochoo (**Thai**, May 2019): Impact of EV Charging Station on PV-BESS Sizing and Transformer Loading
9. Mr. Tanit Chanraksa (**Thai**, May 2019): Impact of Demand Response with Electric Vehicles in Smart Grid: A Case Study of Pattaya City, Thailand
10. Mr. Tong Megnhour (**Cambodian**, May 2019): Optimal Distributed Generation Planning in Three Phase Unbalanced Distribution Network Considering integration of Energy Storage
11. Ms. Aagya Niraula (**Nepalese**, May 2019): State of Health Estimation of Lithium Ion Battery Considering Context of Electric Vehicle
12. Md. Ariful Islam (**Bangladeshi**, May 2019): Duck Curve Problem Solving Strategies with Neuro-Fuzzy Control Method by Using Solar PV, PEVs and Demand Response
13. Mr. Pullagura Syam Sundar (**Indian**, Research study, December 2018): Optimal Distributed Generation Placement with Distribution Network Reconfiguration in DIgSILENT
14. Mr. Meas Nimol (**Cambodian**, May 2019): Optimal Generation and Transmission Expansion Planning Considering Renewable Uncertainty by using NSPSO

Completed

15. Mr. Somalaraju Kalyan (**Indian**, Research study, December 2018): Design, Simulation and Experiment of a Novel High Efficiency Energy Harvesting Paver
16. Mr. Kean Pagna (**Cambodian**, Research study, December 2018): Load Profile Management by Using Energy Storage and Solar PV in Power Distribution Systems

17. Mr. Swejan Rangishetti (**Indian**, December 2018): Analysis of a Three Phase Electric Spring in Solar PV Connected Power Networks
18. Mr. Hruday Vemuri (**Indian**, Research study, May 2018): Smoothing the Load Profile by Using a Fuzzy Control Strategy of Plug-in Electric Vehicles (PEVs) in Smart Grids
19. Mr. Sukit Ingprasert (**Thai**, May 2018): Frequency Stability Analysis of Virtual Power Plants in a Microgrid Using Load Droop Control Method
20. Ms. Rachawadee Puangsukra (**Thai**, May 2018): Multi-Objective Optimization for Enhancing System Coordination Restoration by Placement of Fault Current Limiters on an Active Distribution System with System Reliability Considerations
21. Mr. Do Quang Viet (**Vietnamese**, May 2018): Optimal Procurement of Energy and Ancillary Services in Smart Grid
22. Mr. Srikanth Mukkamalla (**Indian**, July 2017): Optional Scheduling of Customers' Demand by using Availability of Power and its Price in Smart Grid (**Publication:** one paper in international conference)
23. Ms. Menaka Karki (**Nepalese**, May 2017): An Approach to Enhance the Life of Transformer and the Battery of Gridable Vehicles in Active Distribution Systems (**Publication:** one paper in international conference)
24. Mr. Md. Golam Mostafa (**Bangladeshi**, May 2017): Probabilistic and Combinatorial Approaches for Power Loss Minimization in Distribution Systems (**Publication:** two paper in international conference)
25. Mr. Pawarong Thepparat (**Thai**, December 2017): Short-Run Electricity Generation Scheduling Considering Different Fossil and Renewable Supply Constraints
26. Mr. Mrutyunjaya Nanda (**Indian**, December 2017): Modeling and Placement of an Electric Spring in a Distribution System
27. Mr. Watcharakorn Pinthurat (**Thai**, May 2016): Modeling and Stability Analysis of Thailand Power Grid Interconnection (**Publication:** two papers in scopus cited international conferences)
28. Mr. Tristan Guzman Magallones, Jr (**Filipino**, May 2016): Modelling and Dynamic Performance Analysis of the Philippine-Sabah Power Grid Systems (**Publication:** two papers in scopus cited international conferences)
29. Ms. Happy Aprillia (**Indonesian**, December 2014): Optimal Capacitor Placement by Considering Minimum Harmonic Distortion on Unbalanced Three Phase Radial Distribution System Using Direct Search Algorithm (**Publication:** one paper published in an international conference)
30. Mr. Pornchai Chaweewat (**Thai**, May 2014): Operational and Economic Assessment of Microgrid: A Case Study of Mae Sariang, Thailand (**Publication:** Two papers are published in international conferences)
31. Mr. Nachapol Wongwantanee (**Thai**, May 2014): Load Curtailment Minimization in Intentional Islanded Networks and Its Restoration Strategy Considering Voltage Stability Issues (**Publication:** Two papers are published in an international conference)
32. Mr. Subas Ratna Tuladhar (**Nepalese**, May 2014): Impact of Network Reconfiguration on Distribution Network Performance with Solar and Wind Generation using Non-Dominated Sorting Particle Swarm Optimization (**Publication:** One article in international journal (**Publication:** one paper in international journal (ISI IF 1.35) and another one paper in international conference)
33. Ms. Sonticha Panich (**Thai**, May 2014): Impact of Plug-in Electric Vehicles on Voltage Imbalance in Distribution System (**Publication:** One paper published in international conference and then same selected for publication in international journal)
34. Ms. Kongsiri Mongkholkaset (**Thai**, May 2014): Flicker Problem Assessment of Different Wind Turbine Models in a Distribution System

35. Ms. Pathatai Dharmasaroj (**Thai**, May 2014): Impact of Solar PV Penetration on Harmonic and Flicker Problems and Their Mitigation in the Distribution System
36. Ms. Thitiporn Chaipattanawan (**Thai**, May 2014): Impact of Location and Penetration Level of Solar PV on Fault Current in a Distribution System
37. Mr. Muhammad Shahzad Raee (**Pakistani**, Project, December 2013): A Comprehensive World Contemporary Disco's Approach for Reducing Technical and Non-Technical Losses in Electrical Power Distribution: A Case Study of MEPCO
38. Mr. Qaser Abbas (**Pakistani**, Project, December 2013): Improving the Performance of Electricity Distribution Feeder through Selecting Suitable Demand Side Management Activities: Making A Business Case
39. Mr. Muhammad Raza Zaffar (**Pakistani**, Project, December 2013): Line Losses Reduction through Bifurcation of Feeders: A Case Study of a Cost Benefit Ratio Analysis in MEPCO
40. Mr. Muhammad Saadat Siddique (**Pakistani**, Project, December 2013): Metering Losses in an Electricity Distribution System
41. Mr. Muhammad Waqas Zafar (**Pakistani**, Project, December 2013): An Approach for Suitable Maintenance Procedures to Improve the Technical and Financial Performance of Power Transformers
42. Mr. Pham Tuan Ngoc (**Vietnamese**, May 2013): Vietnam Optimal Placement of Fault Current Limiters to Reduce Short Circuit Current Level in Vietnam's Power Transmission Network (**Publication**: one paper published in an international journal)
43. Ms. Tipaporn Munkong (**Thai**, May 2013): Impact of Distributed Generations on Small Signal Stability in Power Distribution Networks
44. Mr. Mujtaba Manavi (**Afghani**, May 2013): Impact of Renewable Power Source Integration on Voltage Stability in Southern Power System Network of Afghanistan
45. Ms. Hathaikan Mee-Kham (**Thai**, May 2013): A Multi-Objective Approach for Optimal Placement of DG to Enhance Power Distribution Network Performance using NSPSO
46. Mr. Ta Nguyen Tan (**Vietnamese**, May 2013): Vietnam Optimal Operation of Cascade Hydropower Plants: A Case Study of IALY Hydropower Company in the Central Region of Vietnam
47. Mr. Nguyen Vinh Phuc (**Vietnamese**, May 2012): Vietnam A Probabilistic Power Flow Analysis Using the Cumulant Method and Gram-Charlier Series Expansion
48. Mr. Supan Thonprom (**Thai**, Co-chair, December 2012): A Study on Measures Towards Green Building: A Case Study of the AIT Energy Building
49. Mr. Natthaphatr Watthanasiriphuwadech (**Thai**, December 2011): A PSO Based Probabilistic Load Flow Approach for Minimization of the Load Shedding by Optimal Capacitor Placement in the Power Distribution System
50. Mr. Dinh Xuan Duc (**Vietnamese**, 2011): Vietnam Water Valuation in the Vietnamese Competitive Generation Market (**Publication**: one paper published in international conference)
51. Mr. Tran Tien Hung (**Vietnamese**, 2011): Vietnam Electromagnetic Transient Simulation for the 500 kV Vinh Tan - Song May Transmission Line
52. Ms. Pauranee Satphaisarnkit (**Thai**, Co-chair, December 2010): Impacts of Distributed Generation on the Protective Devices in the PEA Distribution System
53. Ms. Ratchaporn Vairuangsiripong (**Thai**, Co-chair, December 2010): Impact of Distributed Generation in Steady State, Voltage and Transient Stability Analysis: A Case of Dansai System, Thailand
54. Mr. Hassan Qazi Wazhat (**KTH Sweden, Pakistani**, 2009): Development of Sensitivity Based Indices for Optimal Placement of UPFC to Minimize Load Curtailment

- Requirements (**Publication:** One paper in international journal (Thomson Reuters IF= 1.084))
55. Mr. Priyanko Guha Thakurta (**KTH Sweden, Indian**, 2009): An Approach for Optimal Placement of SVC to Minimize Load Curtailment (**Publication:** One paper in international journal (Thomson Reuters IF= 1.084))
 56. Mr. Umair Mahmud Sheikh (**KTH Sweden, Pakistani**, Co-chair, 2009): Analysis of Power System Stability by Using Optimally Located SVC and STATCOM

Member list of Master Program Committee for Thesis/Research/Project:

In progress

1. Mr. Satyanarayana Murthy Yedla (**Indian**, December 2018): Enhancement power quality with Solar PV and Batter Storage in Microgrid
2. Mr. Firuz Ahamed Nahid (**Bangladeshi**, May 2019): Deep Learning Based Short Term Wind Speed Forecasting Using Long Short-Term Memory Recurrent Neural Network
3. Ms. Tenzin Choden (**Bhutanese**, May 2019): Barriers and Opportunities in Cross-border Electricity Trading for Bhutan: A SWOT-AHP Analysis
4. Mr. Itthipol Udomkitpaibool (**Thai**, May 2019): Impacts of Aged Lithium-Ion Battery for stationary application
5. Ms. Alisha Shrestha (**Nepalese**, May 2019): Impact of Climate Change on Hydropower Production of Kulekhani Hydropower Plant, Nepal
6. Mr. Vishnu Thulasi (**Indian**, ICT, Research Study, December 2018):
7. Mr. Patthanapun Boonthong (**Thai**, May 2018): Economic Dispatch using Cost-based Droop Schemes in Island Microgrids Case Study: Mea Saring microgrid Project
8. Mr. Abbireddy Siva Rama Chandra Reddy (**Indian**, December 2018): A Study on Ethanol Production from Sujarcane Bagasse
9. Mr. Nadimpalli Prudhvi Raju (**Indian**, Research Study, December 2018): A study on Algae as a source of jet fuel
10. Mr. Matham Kiran Kumar (**Indian**, December 2018): A Hybrid Battery Energy Storage System to Improve the Reliability of the Off-Grid Microgrid
11. Mr. Myo Min Htwe (**Burmese**, May 2019): Optimal Scheduling of Battery Energy Storage System of Residential Solar PV System to Mitigate Reverse Power Flow and Peak Load
12. Mr. Niel Madhav Patamsetti (**Indian**, December 2018): Strategic cost optimization via presume interactions in microgrids'
13. Mr. Bhargab Jyoti Bharali (**Indian**, December 2018): Valorisation of the producer gas by removing nitrogen gas in air gasification

Completed

14. Mr. Kolluru Venkata Surya Vinay Krishna (**Indian**, Research Study, December 2018): A Study on Energy Use in an Educational Institution Using RETScreen
15. Mr. Peparthy Murali (**Indian**, Research study, December 2018): A Study of Pyrolysis of Rice Residues in Andhra Pradesh, India
16. Mr. Pantakan Tangeuab (**Thai**, December 2018): Optimal and Stochastic Aggregation of Electric Vehicles in Smart Distribution System Considering Dynamic TOU Pricing
17. Mr. Shaik Madar Saheb (**Indian**, Research study, December 2018): Estimation of Process and Energy CO₂ Emissions of Indian Cement Industry
18. Mr. Vankayala Venkata Sandeep (**Indian**, December 2018): Analysis of Opportunities for Waste to Energy in Cassava Sago Industry
19. Mr. Se Samnang (**Cambodian**, Research study, December 2018): Impacts of Distributed Generation on the Protection System of Distribution Network

20. Mr. Ragi Sai Kiran Reddy (**Indian**, December 2018): Energy and Environmental Implications of a Passenger Transport in Hyderabad, India
21. Mr. Patipop Amornpanthang (**Thai**, December 2018): Implications of the Large Scale Introduction of Electric Vehicles (EVs) on Energy and the Environment in Thailand
22. Mr. Natakornpong Veerachayapornkul (**Thai**, Research study, December 2018): Technical and Economic Analysis of Household Solar Rooftop Photovoltaic System in Six Regions of Thailand Using RETScreen Program
23. Mr. Balla Gowtham Chandra (**Indian**, Research Study, December 2018): Assessment of Cold Densified Pellets Derived from Rice Residues as Cooking Fuel
24. Mr. Kondamuri V. V. Satyanarayana Swamy (**Indian**, Research Study, December 2018): Biogas Digestate as a Cooking Fuel
25. Mr. Indana Venkata Appala Mani Kumar (**Indian**, Research Study, December 2018): Municipal Solid Waste to Energy Opportunities in Kakinada City, India
26. Mr. Sharang Dev Sharma (**Indian**, ICT, May 2018): Evaluation of Solar Energy Potential and Site Suitability for PV Farms by Using Multi Criteria Decision Support System
27. Mr. Hazrat Mohammad Wahdaty (**Afghani**, ICT, May 2018): ICT based Land suitability modeling for urban development using Remote sensing and GIS: a case study of Kabul city, Afghanistan
28. Ms. Jyotsna (**Indian**, Research Study, May 2018): Success Determinants for Off-Grid Rural Electrification Program
29. Ms. Raagalipi Kattunga (**Indian**, Research Study, May 2018): Hybrid Electricity Generation Systems: A Case Study of Mandaipalle Village, Telangana, India
30. Mr. Naveen Venkatesh Vinod Pampana (**Indian**, Research Study, May 2018): A Study on Biogas Production from Food Waste in Hosur, India
31. Mr. Nilay Kumar Sarker (**Indian**, May 2018): Design and Evaluation of a Microalgae Cultivation System
32. Mr. Phuriphat Samphanthasit (**Thai**, May 2018): Harmonic Analysis of High Penetration of Solar Rooftop Systems in an Unbalanced EV Loading Distribution Network
33. Mr. Tanawat Laopaiboon (**Thai**, May 2018): Short-term Solar Forecasting Using Deep Long Short-Term Memory Recurrent Network Program
34. Mr. Bhavin Pradhan (**Nepalese**, May 2018): Implications of Electric Mobility for Kathmandu Valley on Energy Demand, Greenhouse Gas Emissions and Analysis of Barriers
35. Mr. Pradya Panyainkaew (**Thai**, May 2018): Irregular Power Consumption Identification by Using Support Vector Machine and Neural Network Classification
36. Mr. Phyo Kyaw (**Burmese**, Research study, December 2017): Dew Point Evaporative Cooling System
37. Mr. Nedunuri Venkata Rajesh (**Indian**, Research Study, December 2017): Coconut Residues to Energy and Value-Added Materials in Andhra Pradesh, India
38. Mr. Gatti Chaitanya Mourya (**Indian**, July 2017): Biodiesel Production from Jatropha in Kakinada, India
39. Mr. Naga Srikanth Midde (**Indian**, Research study, December 2017): Status and Potential of Biogas from Selected Waste Sources in Andhra Pradesh, India
40. Mr. Ganji Manoj Kumar (**Indian**, May 2017): CO₂ Capture and Storage in Saline Aquifers in Andhra Pradesh, India
41. Mr. Wahidullah Kharotai (**Afghani**, Research study, May 2017): Barriers and Opportunities for Off-grid Solar Home System in Afghanistan Based on Stakeholders Perception: A SWOT-AHP Analysis
42. Mr. Piriya Paokorkeatikul (**Burmese**, Research study, December, 2017): A Study on the Geothermal Energy Utilization in Thailand

43. Mr. Raunak Thapa (**Nepalese**, Research study, December 2017): Policy Effectiveness and Upscaling Challenges: The Case of Renewable Energy Subsidy Policy in Nepal
44. Mr. Hasan Masrur (**Bangladeshi**, Research study, May 2017): A Techno-Economic Feasibility Study of a Microgrid on the Coastal Area of Bangladesh: St. Martin's Island
45. Mr. Pratik Karki (**Nepalese**, December 2017): Barriers and Opportunities in Cross-border Electricity Trading for Nepal: A SWOT-AHP Analysis
46. Mr. Nguyen Phuoc (**Vietnamese**, December 2017): Optimal Day-Ahead Generation Scheduling with Independent Slack Bus Loss Sensitivity in Vietnam's Wholesale Electricity Market
47. Mr. Soeun Sophanith (**Cambodian**, December 2017): Active Power Loss Reduction and Voltage Profile Enhancement in a Radial Distribution System
48. Ms. Rana Shreeya (**Nepalese**, May 2017): The Cost of Electricity Not Served: An Analysis for the industrial Sector in Nepal
49. Mr. Sitav Bhadra (**Indian**, May 2017): Microalgae Based Biodiesel Production Using Coal Thermal Flue Gas and Wastewater in West Bengal: A Techno- Financial Analysis
50. Mr. Danupol Wetchasirikul (**Thai**, May 2017): Wind Speed Forecasting Using Deep Learning Algorithm
51. Ms. Pallavi Das (**Indian**, May 2016): Cost and Reliability Analysis for Off-Grid PV Electrification Options
52. Mr. Nutthapong Sivapraphagorn (**Thai**, Research study, 2016): A Study on the Reduction of Electricity Consumption and Cost in Some Buildings at AIT
53. Ms. Syeda Ismoth Iqbal (**Bangladeshi**, Research study, December 2016): Analysis of Challenges and Opportunities for Green Energy Banking in Bangladesh
54. Mr. Amrit Paudel (**Nepalese**, May 2016): Optimal Scheduling of Active Distribution Network Considering DG Placement, Network Reconfiguration and Electric Vehicles
55. Mr. Wannakorn Supingklad (**Thai**, May 2016): Optimal Power Dispatch Considering Dispatchable Solar and Wind Generation Using Particle Swarm Optimization
56. Mr. Abhishek Pathak (**Indian**, May 2016): Maximizing Energy Generation from Photovoltaic Arrays Through Shading Analysis from Restricted Urban Roof Areas
57. Mr. Sachin Muralee Krishna (**Indian**, May 2016): Economic and Performance Evaluation of Optimal Diesel-Biodiesel-Ethanol Blends (Publication: One international journal)
58. Mr. Masingha Kavinda Randima Wijayawardena (**Sri Lankan**, Research study, May 2018): Analysis of a Hybrid Renewable Microgrid System for Nainativu Island, Sri Lanka
59. Mr. Wais (**Afghani**, May 2016): Energy Consumption from Transport Sector: A Case of Kandahar City
60. Mr. Natthawut Weerarak (**Thai**, December 2015): Energy Consumption and CO2 Emission of Hotel Building in Thailand
61. Mr. Anand M.P. (**Indian**, May 2015): Optimal Day-Ahead Scheduling of a Smart Distribution Network: Considering the Effect of Demand Response, Electric Vehicles and Network Reconfiguration (Publication: Three papers published in international conferences)
62. Mr. Mohammad Nazrul Islam (**Bangladeshi**, May 2015): Online Voltage Stability Assessment Using Local Phasor Measurements
63. Mr. Amam Hossain Bagdadee (**Bangladeshi**, May 2015): Power Quality Improvement of Different Load Models in a Micro-Grid System
64. Ms. Wichayaphorn Phoosap (**Thai**, May 2014): Performance of Parabolic Trough Solar Collector

65. Mr. Thanongsak Kaewsibuathong (**Thai**, May 2014) : Application of Wattmon for System Design and Performance Improvement of PV Systems
66. Mr. Vinalong Phonekeo (**Laotian**, May 2014): Electric Vehicle as a Transportation Option for Vientiane: Impact on Transport Energy Demand, GHG Emission and Implications for Electricity Planning
67. Ms. Orawan Phochai (**Thai**, 2014): Voltage Control Strategies for Grid-Connected Solar PV Systems
68. Mr. Rung Punyachai (**Thai**, 2014): Impact of High Solar Rooftop PV Penetration on Voltage Profile in a Distribution System
69. Mr. Jukkrapun Prasomthong (**Thai**, 2014): Optimal Placement of Vehicle-to-Grid Charging Station in Distribution System Using Particle Swarm Optimization with Time Varying Acceleration Coefficients
70. Ms. Chanokwan Veerasathian (**Thai**, 2014): Voltage Stability Assessment of DFIG Wind Turbine in Different Control Modes
71. Ms. Anchuleeporn Chersin (**Thai**, 2014): Improvement of Uncertain Power Generation of Rooftop Solar PV Using Battery Storage Energy Management Strategy
72. Ms. Panipak Thipthiangthae (**Thai**, 2014, Research study): Estimating Greenhouse Gas Emission in the Corporate Sector: The Case of AIT, Thailand
73. Mr. Ekawut Chayakul (**Thai**, 2014, Research study): A Study on Street Lighting in the AIT Campus
74. Mr. Asim Ejaz (**Pakistani**, Project, December 2013): Use of an Enterprise GIS for an Electric Distribution Utility Company: Laying the Grounds for Achieving Smart Grid
75. Mr. Muhammad Ramzan (**Pakistani**, Project, December 2013): Impacts of Wind Energy on Coal Based Power Generation Planning of Pakistan
76. Mr. Syed Hasan Bilal Gilani (**Pakistani**, Project, December 2013): Proposed Billing and Monitoring System for MEPCO and its Financial Evaluation
77. Mr. Kamran Zahoor (**Pakistani**, Project, December 2013): Effects of Quality Training and Motivation on Teamwork Improvement and Task Efficiency at MEPCO
78. Mr. Muhammad Rizwan Fiaz (**Pakistani**, Project, December 2013): Cost and Benefit Analysis for Installing a Biogas Plant in the Rural Village of Warburton in Pakistan
79. Mr. Muhammad Abu Bakr Khan Sherwani (**Pakistani**, Project, December 2013): Estimation of Residential Customer Outage Costs in LESCO
80. Mr. Kamran Naveed (**Pakistani**, Project, December 2013): Motivation: An Analytical Study on Sources of Motivation for Officers of DISCOs
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127. Mr. Nuttawich Khamsawasd (**Thai**, 2010): Optimal Bidding Strategy in LMP-Based Electricity Market Considering Demand Elasticity by Particle Swarm Optimization with Time-Varying Acceleration Coefficients
128. Mr. Apinat Saksinchai (**Thai**, 2010): Multi-objective Bidding Strategy for Generation Company using Non-Dominated Sorting Particle Swarm Optimization
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Publication history: over 83

SCOPUS			Researchgate			Google Scholar		
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311	9	9	432	10	22.11	562	11	18

Recent research projects:

Sl. no.	Project Title	Duration	Sponsor	Role
1	Design and Development of Smart Grid Test Bed for Experimental Verification of Synchrophasor based Algorithms for Wide Area Monitoring, Protection and Control (WAMPAC) for Power Grids with Large Penetration of Renewable Energy Resources	Jan. 2018 to Dec. 2020	Department of Science and Technology (DST), India	PI(AIT)
2	Bangchak Initiative and Innovation Center at AIT	25 th July 2017 to 24 th July 2022	Bangchak Petroleum Company	Co-PI
3	International Conference (ICUE 2108)	Octo. 2017 – March 2019	Registration revenues, sponsorships and grants	PI
4	USAID Clean Power Asia Program	Oct/2016 to Sept/2021	USAID	PI
5	A Project for Sunny Bangchak to Improve the Efficiency of Solar Photovoltaic System	29 Feb – 30 June 2016	Bangchak Solar Energy Company Limited (Sunny Bangchak)	Co-PI

6	Smart Solar Home Demonstration Project	Sept 1, 2014 – Aug 30, 2015	Industrial Technology Assistance Program (iTap), National Science and Technology Development Agency (NSTDA)	Co-PI
7	Service Providing for Local Arrangement and Meeting Support Services to IEEE PES ISGT 2015	Sept 1, 2014 – May 31, 2016	IEEE PES Thailand Chapter	Co-PI
8	ICUE 2016 Cogeneration, Small Power Plants and District	Feb 1, 2016 to June 30, 2017	Registration revenues, sponsorships and grants	Co-PI
9	Renewable Powered micro-/mini-grid generation	Dec.2012 – Dec.2014	IRENA, Abu Dhabi	PI
10	Capacity development of the Assam power utilities	Oct. 2012 – Dece. 2013	South Energy Department ADB	PI
11	Gender inclusive Capacity development	July 2012 – Feb.2013	South Energy Department ADB	PI
12	Energy Publications project	January 2011 – Present	Subscription, registration etc.	Co-PI
13	AIT GCI Support Electrical Energy	March 2014 – Dece. 2014	ADEME/ France	PI
14	International Conference (ICUE 2104)	January 2013 – December 2014	Registration revenues, sponsorships and grants	Co-PI
15	PEA-AIT Scholarship 2011	2011-2015	PEA, Thailand	Co-PI
16	Micro-Hydro Solar PV Hybrid System	Feb. 2010 - April 2012	EBARA, Japan	Co-PI

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- xxxviii) Tuladhar, S.R.; **Singh, J.G.**; Ongsakul, W. (2014). A multi-objective network reconfiguration of distribution network with solar and wind distributed generation using NSPSO. *International Conference and Utility Exhibition on Green Energy for Sustainable Development (ICUE)*, 19-21 March 2014, Pattaya, Thailand.
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- xli) Chawewat, P.; **Singh, J.G.**; Ongsakul, W.; Srivastava, A.K. (2014). Synchronization control and droop control of microgrid operation. *International Conference and Utility Exhibition on Green Energy for Sustainable Development (ICUE)*, 19-21 March 2014, Pattaya, Thailand.
- xlii) M. Wartana, **J. G. Singh**, W. Ongsakul, and N. P. Agustini (2012). Optimal Placement of a Series FACTS Controller in Java-Bali 24-bus Indonesian System for Maximizing System Loadability by Evolutionary Optimization Technique. *Third International Conference on Intelligent System, Modelling and Simulation (ISMS2012)*, Kinabalu-Malaysia, 2012.
- xliii) Maya B, Sasidharan Sreedharan, **J G Singh** (2012). An Integrated Approach for the Voltage Stability Enhancement of Large Wind Integrated Power Systems. *IEEE PES International Conference, Epsicon 2012*, India.
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- xlvi) D. X. Duc, **Jai Govind Singh**, Weerakorn Ongsakul (2011). Water Valuation in Vietnamese Electricity Generation Market. *International Conference and Utility Exhibition 2011 on Power and Energy Systems: Issues and Prospects for Asia (ICUE 2011)*, 28-30 September, 2011, Pattaya, Thailand.
- xlvii) I Made Wartana, **Jai Govind Singh**, Weerakorn Ongsakul, Kittavit Buayai, and Sasidharan Sreedharan (2011). Optimal Placement of UPFC for Maximizing System Loadability and Minimize Active Power Losses by NSGA-II. *International*

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 - xlix) J. G. Singh, S. N. Singh, S. C. Srivastava (2007). Reactive Power Spot Price Based Optimal SVC Placement Considering Opportunity Cost. *International Conference on Power System 2007, CPRI, Bangalore, India*, 12-14 December 2007.
 - l) J. G. Singh, S. N. Singh, S. C. Srivastava (2007). Enhancement of Power System Security through Optimal Placement of TCSC and UPFC. *IEEE PES General Meeting*, Florida, USA, 24-28 Jun 2007.
 - li) J. G. Singh, S. N. Singh, S. C. Srivastava (2006). Placement of FACTS Controllers for Enhancement of Power System Loadability. *PES, 2006 IEEE Power India Conference*, New Delhi, April 10-12, pp. 89-96.
 - lii) J. G. Singh, S. N. Singh, S. C. Srivastava (2006). Optimal Placement of TCPAR for Enhancement of Power System Loadability. *National conference on Technical Challenge in Power Systems*, KNIT Sultanpur, India, 24-25 March 2006, pp. 207-211.
 - liii) J. G. Singh, S. N. Singh, S. C. Srivastava (2006). Optimal Placement of TCSC for Enhancement of Power System Loadability. *National conference on Modern Aspects of FACTS and its application*, MMMEC Gorakhpur, India, 17-18 February 2006, pp. 89-96.
 - liv) O. P. Dwivedi, **J. G. Singh** and S. N. Singh (2004). Simulation and Analysis of Multi-Converter Unified Power Flow Controller Using SIMULINK. *National Power System Conference*, IIT, Madras, India, 27-30 December, 2004, pp. 1048-1054.
 - lv) O. P. Dwivedi, **J. G. Singh** and S. N. Singh (2004). Power Flow Control Using Multi-Converter FACTS Controller. *International Conference on Power System*, IE, Tribhuvan University, Nepal and IIT Mumbai, India Kathmandu, Nepal, 3-5 November, 2004, pp. 711-718.
 - lvi) J. G. Singh, S. N. Singh (2003). Optimal Power Flow Control Using Generalized Unified Power Flow Controller. *National conference on Modern Aspects of FACTS and its application*, Coimbatore, India, 29 & 30 August 2003, pp. 89-96.
 - lvii) J. G. Singh and S. N. Singh. Enhancing Power Systems' Security Using FACTS Controllers, *National Seminar on Voltage Stability (SVC'06)*, at Arulmigu Kalasalingam College of Engineering, Tamil Nadu, October 13-14, 2006.

Monographs, reports, policy briefs

- i) A peer reviewed study report on 'Rural electrification using renewable-powered micro/mini grid system: A scenario of Thailand' and prepared by Jai Govind Singh and, P. Abdul Salam was submitted to **IRENA, Abu Dhabi** in 2014.
- ii) A peer reviewed study report on 'Micro-grids in rural areas: Case Study of Indonesia' and prepared by Maxensius Tri Sambodo, Jai Govind Singh and, P. Abdul Salam was submitted to **IRENA, Abu Dhabi** in 2014.
- iii) A peer reviewed study report on 'Expanding Energy Access through Renewable Energy based Mini/Micro Grids Lessons from India' and prepared by Rohit Kansal, Jai Govind Singh and, P. Abdul Salam was submitted to **IRENA, Abu Dhabi** in 2014.
- iv) A peer reviewed study report on 'Renewable-powered micro/mini-grid systems: Philippine Experience' and prepared by Rene Barruela, Jai Govind Singh and, P. Abdul Salam was submitted to **IRENA, Abu Dhabi** in 2014.

- v) S. Kumar, P. Abdul Salam, C.O.P. Marpaung, J.G. Singh and B. Sireesha: AIT-EHMF Collaborative Project Report on *Micro-Hydro Generation System*. This development report was submitted to EBARA foundation in November 2012.

Non-refereed Publications:

- i) Smart Grid: A Vision of Future Energy by Jai Govind Singh and Weerakorn Ongsakul, Technology Magazine, AIT Consulting, 2014.
- ii) Hybrid AC/DC Net Zero Electric Energy Status Solar Home by Nikhil Sasidharan and Jai Govind Singh, Chulachomklao Royal Military Academy (CRMA), 2014, 128-129.
- iii) An eight minutes interview on ‘Distributed Power Grids: A Future Energy Systems of Asia’ at link <http://energy.ait.asia/news-a-events/38-news/341--dr-jai-govind-singhinterview-at-asian-utility-week>.

Development Project Reports

S. Kumar, P. Abdul Salam, C.O.P. Marpaung, J.G. Singh and B. Sireesha: AIT-EHMF Collaborative Project Report on *Micro-Hydro Generation System*. It was submitted to EBARA foundation in November 2012.

Invited keynote speeches:

- i) Invited for a **keynote speech** on ‘Electric Vehicles and Renewable Integration in Smart Grid’ in ‘International Conference on Artificial Intelligence, Smart Grid and Smart City Applications,’ 4-5, January, 2019, PSG College of Technology, Coimbatore, India.
- ii) Delivered an invited keynote speech on ‘Electric Vehicles and Future Prospective’ in ‘1st International Conference on Mechanical Innovative and Emerging Trends (MIET), Department of Mechanical Engineering, MIET, Meerut, India, 4-5, December, 2018.
- iii) Delivered an invited **keynote speech** on ‘Smart Grid and ICT’ in ‘International Conference on Emerging Trends in Computing & Communication Technology,’ organized by Department of Computer Science & Engineering, Graphic Era Hill University, Dehradun, India, 17-18th November 2017.
- iv) Delivered an invited **keynote speech** on ‘Economic and Environmental Assessment of Microgrid: A Case study of Mai Sarieng, Thailand’ in ‘International Conference on Control Computing Communication and Materials (ICCCCM-2016),’ organized by United College of Engineering & Research, Allahabad, UP, India, 22nd October 2016.
- v) Delivered an invited **keynote address** on ‘Scope and Challenges of Smart Grid in Renewable Energy Integration’ in ‘International Conference on Smart Grid Technology (INCETS’16),’ organized by College of Engineering Trikaripur, Kasaragod, Kerala, India, 23rd April 2016.
- vi) Delivered an invited **keynote address** on ‘Distributed Power Grids: A Future Energy Systems of Asia’ at International Conference on SMART GRID Technologies, August 6-8, 2015, Amrita School of Engineering, Coimbatore, India.
- vii) Delivered an invited **keynote speech** on ‘Smart Grid for Low Carbon Society’ in International Conference on Energy, Economics and Environment, 27-28th March, 2015, Noida, India.
- viii) Delivered an invited **keynote speech** on ‘Homegrids to the Smart Grid: A Sustainable Energy Expressway for Green Future’ in ‘International Conference on Recent Developments in Control, Automation & Power Engineering (RDCAPE-2015),’ 12-13th March, 2015, Noida, India.

Invited expert talks:

- i) Delivered an invited expert talk on ‘Load Management in Smart Grid’ in ‘Malaviya Research Conclave 2018 (MRC-2018)’, organized by MMMUT Gorakhpur, UP, India, 6–8 July 2018.
- ii) Delivered an invited expert talk on ‘Research Methodology: A Case of AIT's Practice’ in ‘Malaviya Research Conclave 2017 (MRC-2017)’, organized by MMMUT Gorakhpur, UP, India, 6–8 July 2018.
- iii) Delivered an invited expert talk on ‘Scope and Challenges of Smart Grid in Renewable Energy Integration’ in ‘Malaviya Research Conclave 2017 (MRC-2017)’, organized by MMMUT Gorakhpur, UP, India during 9–11 July 2017.
- iv) Delivered an expert talk on ‘Distributed Power Grids: A Future Energy Systems’ at **Asian Utility Week 2015**, 9-10 June, Bangkok, Thailand.
- v) Delivered an expert talk on ‘ICT for Smart Grid’ in ICUE2014 Pre-Conference Training Workshop on Smart Grid and Renewable Energy, 18th March 2014.
- vi) An electricity seminar on “An Electrical Infrastructure for Sustainable Development in THAILAND”, FRENCH-THAI ELECTRICITY FORUM, 2012, organized by The Trade Commission of French Embassy, Thailand.
- vii) Sequential M. Tech. Program of Uttar Pradesh Technical University, Lucknow, UP, India, on “Economic operation and control of power systems”.

Invited lectures in training/workshop programs:

- i) Delivered one day invited lectures on ‘**Gas Insulated Substations, Substation Automation and SCADA**’ in a training program organized by AITE for personnel from **Power Grid Company of Bangladesh Ltd. (PGCB)** 21st September 2017.
- ii) Delivered two and half day invited lectures on ‘**Smart Grid**’ in a training program organized by AITE for personnel from Bangladesh Power Utility from 13th to 15th November 2017.
- iii) I have been invited to deliver several lectures on various power system topics in different trainings program organized by AIT Extension.

Participation in organizational responses to policy, practice, or structural issues, which affect the field.

- i) General co-chair of “5th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering UPCON 2018” is jointly organized by Madan Mohan Malaviya University of Technology (MMMUT), Gorakhpur (UP) India & University of Ryukyus, Okinawa, Japan from 2-4 November 2018 in MMMUT, Gorakhpur (UP) India.
- ii) Member of International Advisory Committee of ‘International Conference on Artificial Intelligence, Smart Grid and Smart City Applications,’ 3-5 January, 2019 at PSG College of Technology, Coimbatore, Tamil Nadu, India
- iii) Member of Organizing Committee of ‘4th IEEE Uttar Pradesh Section International Conference on Electrical, Computer & Electronics’ 26-28 October, 2017 at GLA University Mathura, India.
- iv) ADB through its energy for All Initiative is invited to the Bali Clean Energy Forum on 11-12 February 2016 and related Global Knowledge Partnership Group Workout meeting on 13 February 2016 to be held in Nusa Dua, Bali, Indonesia.
- v) ADB invited and I attended ‘Global Knowledge Partnership Group Workout for Center of Excellence on Clean Energy Indonesia and beyond’ in Jakarta during 16-18 December 2015.
- vi) I have attended AIT Retreat meeting held during May 16-18, 2015.

- vii) I have been invited from Murdoch University, South St, Murdoch, Western AUSTRALIA (January 2014) to provide feedback and suggestion to assist in the development of the curriculum frameworks, to provide advice in how best to offer the programs/degrees developed, as well as in related reports and academic papers/publications.
- viii) I have been invited to participate and deliver an electricity seminar on “An Electrical Infrastructure for Sustainable Development in THAILAND”, FRENCH-THAI ELECTRICITY FORUM, 2012, organized by The Trade Commission of French Embassy, Thailand.
- ix) I have been invited to participate in a panel discussion on Renewable Energy activities of International Renewable Energy Agency (IRENA), Abu Dhabi, UAE in a workshop of ‘Indo-ASEAN cooperation in Renewable Energy’ organized by India in New Delhi from 5-6th November 2012. Moreover, this workshop’s outcomes were presented to ASEAN–India Ministerial Meeting on Renewable Energy on 7th November for cooperation on renewable energy.
- x) I have delivered several talks to personnel of power utilities of India, Pakistan, Bangladesh, and African countries.

Organization of training courses, conferences, seminars, and workshops.

- i) Director of the “**International Conference and Utility Exhibition on: Green Energy for Sustainable Development (ICUE 2018)**”, 24-26 October, 2018, Phuket, Thailand.
- ii) Organized a training program on ‘**Pre-Conference Training Workshop on Smart Grid and Renewable Energy**’ on 18th March, 2014, Pattaya, Thailand.
- iii) Organized a training program on ‘**Capacity Development Program on New Trends in Power Transmission Planning, Operation and Maintenance in Assam, India**’ during 3 - 7th December, 2012, AIT, Bangkok, Thailand sponsored by Energy Division, South Asia Department, ADB.
- iv) Organized a training program on ‘**New Trends in Power Distribution Planning and Loss Reduction Strategies for Rural Areas of Assam**’ during 26 - 30th November, 2012, AIT, Bangkok, Thailand sponsored by Energy Division, South Asia Department, ADB.
- v) Organized a training program on ‘**Power Distribution Planning and Loss Reduction Strategies for Rural Areas of Madhya Pradesh, India**’ during 20 - 24th August, 2012, AIT, Bangkok, Thailand sponsored by Energy Division, South Asia Department, ADB.
- vi) Member of the technical organizing committee of the “**International Conference and Utility Exhibition on: Green Energy for Sustainable Development (ICUE 2014)**”, 19-21 March, 2014, Pattaya, Thailand.
- vii) Member of the technical organizing committee of the “**2nd AIT-PEA International Conference and Utility Exhibition on Power and Energy Systems: Issues and Prospects for Asia (ICUE 2011)**”, 28-30 September 2011, Pattaya city, Thailand.
- viii) Member of the technical organizing committee of the “**International Conference on Sustainable Energy Development: Issues and Strategy**”, 2-4 June 2010, Chiang Mai, Thailand.

Participation in development projects

- i) I am involved in a project “3 kW solar PV installation and testing” at AIT in partnership of NSTDA and IHEM Thailand.
- ii) I worked in implementation of online electrical energy footprint monitoring in Energy buildings under project ‘AIT GCI SUPPORT ELECTRICAL ENERGY’.

- iii) I was involved in a project “Micro Hydro and PV Hybrid Generation System” implementation at AIT in partnership of EBARA foundation, Japan.

Serving as external examiner/evaluator of doctoral dissertations

- i) Mr Taskin Jamal’s PhD Thesis on ‘An Innovative Planning Approach to Improve PV Integration into Remote Electricity Networks’ from **Murdoch University, Australia**, 2018.
- ii) Ms. Mandadi Kalyani’s PhD Thesis on ‘Measured Signal Based Identification of Inter-Area Oscillations for Generator Coherency and Controlled Islanding in Power Systems’ from **Indian Institute of Technology Madras, India**, 2018.
- iii) Mr. Hemang S Pandya’s PhD thesis entitled ‘Optimized Microgrid Demand Response Management in Smart Grid Paradigm’ from **Sardar Vallabhbhai National Institute of Technology, Surat, Gujrat, India**, 2017.
- iv) Mr. Satyendra Singh’s PhD thesis entitled ‘Optimal Power Flow Using Artificial Intelligence Techniques Incorporating FACTS Devices’ from **Dr. APJ Abdul Kalam University, UP, India**, 2017.
- v) Mr. Shabbiruddin’s PhD thesis entitled ‘An Exploratory Analysis of Planning and Operation for Power Distribution System’ from **Sikkim Manipal University, India**, 2017.
- vi) Mr. Sachin Tiwari’s PhD thesis entitled ‘Series Compensation of Self Excited Induction Generator for Distributed Power Generation’ from **Maulana Azad National Institute of Technology, Bhopal, MP, India**, 2016.
- vii) Ms. Pallavee Bhatnagar’s PhD thesis entitled ‘Linear Current Controlled Maximum Power Point Tracking using DSP Controller’ from **Maulana Azad National Institute of Technology, Bhopal, MP, India**, 2015.
- viii) Mr. S.B. Karajgi’s PhD thesis entitled ‘PV & MSW as Distributed Generation Resources: Modeling, Analysis & Benefit Quantification’ from **National Institute of Technology Surathkal, Mangalore, Karnataka, India**, 2013.
- ix) Ms. Smita Srivastava’s PhD thesis entitled ‘Development of Improved Islanding Detection Schemes in Distributed Generation Environment’ from **MANIT, Bhopal, India**, 2012.
- x) Mr. Anwar Ahmed Ansari’s PhD entitled ‘Optimization of Asynchronous Machine Performance Using Fuzzy Voltage Controller’ from **MANIT, Bhopal, India**, 2012.
- xi) Ms. Shafali Jain’s PhD thesis entitled ‘Productivity and Efficiency Analysis of Electricity Generating Companies in Emerging Indian Scenario’ from **MANIT, Bhopal, India**, 2012.

Serving on program committees of international conferences

- i) General co-chair (10th Feb to 4th November 2018), 5th **IEEE** Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (**UPCON-2018**), jointly organized by MMMMUT Gorakhpur India and University of Ryukyus Okinawa, Japan, during 2–4 November, 2018 in MMMUT Gorakhpur India.
- ii) Member, International Advisory Committee of International Conference on Computing, Communication and Security, December 4-5, 2015, Pamplemousses, Mauritius.
- iii) Member, Advisory Committee of International Conference on Creativity & Innovations in Technology Development, 1-2nd April, 2015.
- iv) Member, Advisory Committee of International Conference on Energy, Economics and Environment, 27-28th March, 2015.
- v) Member, International Program Committee for 2nd International Conference on Green Energy and Technology (ICGET) 5~6 September, 2014, Dhaka, Bangladesh.

Updates: 20th December 2018