

CURRICULUM VITAE

A. Name and Contact Address:

Name: P. Abdul Salam
 Contact Address: Sustainable Energy Transition Program
 Department of Energy, Environment, and Climate Change
 Asian Institute of Technology
 Klongluang, Pathumthani 12120, Thailand
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B. Education:

- Doctor of Engineering, Energy Technology, Asian Institute of Technology, Thailand, 2005.
- Master of Engineering, Energy Technology, Asian Institute of Technology, Thailand, 1994.
- Bachelor of Science in Mechanical Engineering, University of Peradeniya, Sri Lanka, 1991.

C. Positions held:

Jan.2021 - Present	Professor , Sustainable Energy Transition Program, Asian Institute of Technology (AIT)
Jan.2021 - Present	Chair , Sustainable Energy Transition Program, AIT
January 2019 – December 2020	Head , Department of Energy, Environment and Climate Change, School of Environment, Resources and Development, AIT
Feb. 2018 – Feb., 2020	Chair - Academic Senate , Asian Institute of Technology
July 2014 – Dec. 2020	Associate Professor , Asian Institute of Technology.
July 2014 – July 2016	Thematic Leader – Low Carbon, and Sustainable Production and Consumption Technologies and Management, AIT.
Oct. 2012 – Oct. 2016	Coordinator , Professional Master in Energy Business Management (PMEBM), AIT
Jan.2013 – July.2013	Acting Leader , Energy and Environment Thematic Area, AIT.
Aug. 2012 – Oct. 2013	Coordinator , MBA in Energy Business, AIT.
Sept.2011 – Dec. 2012	Coordinator , Energy Field of Study, AIT.
Sept.2011 – Oct. 2013	Director , Regional Energy Resources Information Centre, AIT.
Oct. 2009 – June 2014	Assistant Professor , Asian Institute of Technology.
April 2007 - Sept. 2009	General Manager Genesis Engineering and Technical Service Co. Ltd, Thailand.
April 2007 - Sept. 2009	Engineering Manager Genesis Engineering and Technical Service Co. Ltd, Thailand.
June 2005 – March 2007	Senior Research Specialist , Asian Regional Research Program in Energy, Environment and Climate (ARRPEEC), AIT.
June 2002 – May 2005	Research Specialist , ARRPEEC, AIT.
June 1999 - May 2002	Research Engineer , ARRPEEC, AIT.
Aug.1994 - May 1999	Research Associate , ARRPEEC, AIT.

D. Special honors and awards:

1. **Distinguished Researcher Award 2019.** Awarded by Asian Institute of Technology in recognition for contributions to the Institute and outstanding achievement in research on 17th May 2019.
2. **Distinguished Researcher Award 2018.** Awarded by Asian Institute of Technology in recognition for contributions to the Institute and outstanding achievement in research on 18th May 2018.
3. **Thailand Frontier Researcher Award for 2016 in Engineering.** In recognition of pioneering a new frontier research, based on core papers comprising the world's top 1% of Highly Cited Papers in the field of Engineering. By Thomson Reuters and Office of Higher Education Commission of Thailand. 25 August 2016. Bangkok, Thailand.

E. Membership in Professional organizations:

1. Member – World Bioenergy Association (WBA)
2. Member – International Solid Waste Association (ISWA)
3. Member – American Society of Mechanical Engineers (ASME)
4. Member–American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE)
5. Life Member – Sustainable Consumption and Production Forum Sri Lanka
6. Life Member – Sri Lanka Energy Managers Association (SLEMA)

F. Teaching:

Developed and taught the following subjects:

- Energy storage
- Smart energy buildings
- Rational use of energy in buildings
- Energy technology, transition, and sustainability
- Climate change mitigation
- Biomass conversion
- Bioenergy systems
- Clean coal technologies and carbon capture and sequestration
- Energy resources and technologies
- Design and management of energy systems
- Renewable energy technologies

G. Research:

1. Research Interest:

- Biomass and Bioenergy
- Sustainable and Renewable Energy
- Waste to energy technologies
- Smart energy buildings
- Energy storage
- Climate change mitigation
- Clean coal technologies and carbon capture and storage

2. Student research:

Two doctoral students and around seventy masters' students completed their research under my direct supervision. I have been a member of research committee of around 140 students.

3. List of research grants and sponsored projects:

Sr. No	Project Title	Duration	Role
1.	Waste to Energy Ash Disposal and Utilization in South East Asia	Jan.2021 -Dec.2021	PI
2.	Technology Needs Assessment IV	Jan.2021- Aug.2023	PI
3.	Circular system innovation for Polyurethane foam: Catalytic approach to upcycle foam waste from mattresses and beyond	2021-2023	Co-PI
4.	USAID Southeast Asia EDGE Hub	April 2020- Nov.2023	Co-PI
5.	Technology Enabled Learning Activities (TEAL 2.O)	January 2020- December 2020	PI
6.	Technology Needs Assessment - Phase III	June2018-May 2021	Co-PI
7.	CTCN incubator programme for implementation of Nationally Determined Contribution in Timor-Leste.	Sept.2018- July 2019	PI
8.	Bangchak Initiative and Innovation Centre at AIT	July 2017 – July 2022	Co-PI
9.	Developing policy framework and business model to promote sustainable use of biomass briquettes in Nepal	Sept. 2017 – Dec.2018	PI
10.	ICUE 2018 Green Energy for Sustainable Development	Oct.2017 – March.2019	Co-PI
11.	CTCN Technical Assistance Response Plan for Nepal	Nov.2016 – April 2017	PI
12.	Community scale decentralized anaerobic digestion for energy and resource efficiency (British Council – Newton Fund Institutional Link Grant)	May 2016 - Oct.2018	Co-PI
13.	CTCN Request Incubator Training and National Consultation in Bangladesh	Dec.2015 – April 2016	PI
14.	Assignment of Low-carbon Technology facilitation in Asia in the context of Climate Technology Centre and Networks (CTCN) in Thailand	Nov.2015 – April 2016	Co-PI
15.	Training on Design and Testing of Improved Cookstoves	Sept.2015 – April 2016	PI
16.	Development of a Decision Making Paper on GHG Mitigation Options in Thai Waste Sector	March 2015 – Feb. 2016	PI
17.	Provision of Technical Services in the Area of Renewable Energy Phase II	March 2015- Oct.2016	PI
18.	Turning Rice Straw into Cooking Fuel for Air Quality and Climate Co-benefit in Selected GMS Countries	Dec.2014 – Aug.2016	Co-PI
19.	Technology Needs Assessment for Asia and CIS Phase II	Jan.2015 – January 2017	Co-PI
20.	Technology Needs Assessment Phase II - Missions	Jan.2015 – January 2017	Co-PI
21.	Technology Needs Assessment Phase II - Workshops	Jan.2015 – January 2017	Co-PI
22.	Testing of and Training on Improved Cookstoves	Sep.2014-Feb.2015	PI

23.	Capacity Building on Climate Change: Low Emission Development Assessments, Tools and Strategies	Nov.2014 – April 2015	PI
24.	Assignment on Technology Adaptation and National Capacity Building for CTCN in Thailand	Aug.2014 – April.2015	Co-PI
25.	Energy Efficiency Initiatives in Asia and Action Plan to Support Countries	June 2014 – March 2016	Co-PI
26.	Assessment of Potential Use of EFB Fly Ash	Sept.2014 – Aug.2015	PI
27.	Provision of Technical Services in the Area of Renewable Energy (UNIDO)	March 2014 – February 2015	PI
28.	AIT – Sustainable Living Laboratory – Bioenergy Project	February 2014 – September 2014	Co-PI
29.	Urban Energy Access in Myanmar: Knowledge and Outreach	Nov.2013 – January. 2015	Co-PI
30.	Sustainable Mekong Research Network (Sumernet) partnership initiation	July – August 2013	Co-PI
31.	Low Carbon Cooling Application Systems – study visits	July – August 2013	Co-PI
32.	SEA-EU-NET- II	November 2012 – October 2016	Co-PI
33.	Capacity development in clean coal technology and carbon sequestration	Feb.- Oct. 2012	Co-PI
34.	Professional Master in Energy Business Management (PMEBM)	2012 - 2014	PI
35.	Partnership for Market Readiness	March – December 2013	Co-PI
36.	Renewable Powered micro-/mini-grid generation	December 2012 – June 2013	Co-PI
37.	International Training on Design and Management of Domestic Biogas Systems	July 2012 – October 2012	PI
38.	SEA-EU-NET	November 2010 – December 2012	Co-PI
39.	Urban and Peri-urban Energy Access	June 2011 – June 2012	Co-PI
40.	Biofuel Sustainable Policy Study	May 2011 - November 2011	Co-PI
41.	Technology Needs Assessment for Climate Change Mitigation	July 2010 - April 2012	Co-PI
42.	Biomass Gasification Study in the Mekong Region	June 2010 - March 2011	PI
43.	RETScreen Version 4 Training	February 2010 - May 2010	Co-PI
44.	RETScreen Version 4 Integration	February 2010 - May 2010	Co-PI
45.	Micro-Hydro PV Hybrid System	February 2010 - April 2012	Co-PI
46.	Action Towards Resource Efficient and Low Carbon Cities in Asia	December 2009 - December 2012	Co-PI
47.	Pilot Appraisal of Low Carbon Technology Innovation and Diffusion in Thai Manufacturing Sectors	November 2009 - March 2010	Co-PI

PI-Principal Investigator, Co-PI – Co-Principal Investigator

H. Publications:

1. Books:

1. Sanket J.Joshi, Ramakrishna Sen, Atul Sharma, P. Abdul Salam. Status and Future Challenges for Non-conventional Energy Sources – Volume II. Springer Singapore. ISBN: 978-981-16-4508-2. November 2021.
2. Sanket J.Joshi, Ramakrishna Sen, Atul Sharma, P. Abdul Salam. Status and Future Challenges for Non-conventional Energy Sources – Volume I. Springer Singapore. ISBN:978-981-16-4504-4. November 2021.
3. P. Abdul Salam, Sangam Shrestha, Vishnu Prasad Pandey, Anil K Anal. Water-Energy-Food Nexus: Principles and Practices. Wiley and American Geophysical Union. ISBN: 978-1-119-24313-7. August 2017.
4. Sangam Shrestha, Anil K. Anal, P. Abdul Salam, Michael van der Valk. Managing Water Resources under Climate Uncertainty: Examples from Asia, Europe, Latin America, and Australia. Springer, 2015.
5. S. C. Bhattacharya and P. Abdul Salam. Biomass Energy in Developing Countries: A Multi-Faceted Study in Asian Countries. 2006. RERIC publication. ISBN 974-8257-33-9.
6. S. C. Bhattacharya and P. Abdul Salam. A Review of Selected Biomass Energy Technologies: Gasification, Combustion, Carbonization and Densification. 2006. RERICpublication. ISBN974-8257-14-2.

2. Book chapters:

1. Nguyen Thi Kim Oanh, Didin A Permadi, P. Abdul Salam, Nguyen Nhat Ha Chi, Pham Khac Lieu, Duong Van Hieu, Prapat Pongkiatkul, Ketwalee Kositkanawuth, Kok Sothea, Chea Eliyan, Philip Hopke and Chu Thai Hoanh. The benefits of using rice straw-derived solid fuel to reduce open burning emissions in the Mekong Region. In Development and Climate Change in the Mekong Region: case studies. Chayanis Krittasudthacheewa, Hap Navy, Bui Duc Tinh and SayKham Voladet (Eds). Pages 143-168. 2019.
2. Intharathirat R., Abdul Salam P. Analytical Hierarchy Process-Based Decision Making for Sustainable MSW Management Systems in Small and Medium Cities. In: Ghosh S. (eds) Sustainable Waste Management: Policies and Case Studies. Springer, Singapore. Pp 609-624.DOI https://doi.org/10.1007/978-981-13-7071-7_55. 2019.
3. P. Abdul Salam, Vishnu Prasad Pandey, Sangam Shrestha, Anil Kumar Anal. The Need for the Nexus Approach. In Water-Energy-Food Nexus: Principles and Practices. Pp 1-10. Wiley and American Geophysical Union. ISBN: 978-1-119-24313-7. August 2017.
4. S.C. Bhattacharya and P. Abdul Salam. Biomass Energy in Selected Asian Countries: A Review. In Biomass Energy in Developing Countries: A Multi-Faceted Study in Asian Countries. Pp 1-15, 2006. RERIC publication. ISBN 974-8257-33-9.
5. S.C. Bhattacharya, P. Abdul Salam, H.L.Pharm, N.H. Ravindranath, Li Junfeng, Hu Runqing, H.I.Somashekhar, P. Sudha, Sandhya Rao, M.P.Koh, W.K. Hoi, J.C. Elauria, M.L.Y. Castro, D.A. Racelis, K.K.C.K. Perera, P.G. Rathnasiri, A.G.T. Sugathapala, Boonrod Sajjakulnukit and Prasert Verapong. Sustainable Biomass Production for Energy in Selected Asian Countries. In Biomass Energy in Developing Countries: A Multi-Faceted Study in Asian Countries. Pp 19-32, 2006. RERIC publication. ISBN 974-8257-33-9.

6. S.C. Bhattacharya, P. Abdul Salam, Hu Runqing, H.I.Somashekar, D.A. Racelis, P.G.Rathnasiri, Rungrawee Yingyuad. An Assessment of the Potential for Non-Plantation Biomass Resources in Selected Asian Countries for 2010. In Biomass Energy in Developing Countries: A Multi-Faceted Study in Asian Countries. Pp 151-168, 2006. RERIC publication. ISBN 974-8257-33-9.
7. S.C. Bhattacharya, P. Abdul Salam, Li Junfeng, N.H. Ravindranath, J.C. Elauria, A.G.T. Sugathapala, B. Sajjakulnukit, B. Limmeechokchai. Ranking of Barriers to Biomass Energy Technologies in Selected Asian Countries. In Biomass Energy in Developing Countries: A Multi-Faceted Study in Asian Countries. Pp 333-359. 2006. RERIC publication. ISBN 974-8257-33-9.
8. S.C.Bhattacharya, P. Abdul Salam, X.Yan, U. Rao, J.C. Elauria, K.K.C.K. Perera and B. Limmeechokchai. A Study on Transfer of Biomass Energy Technologies in Selected Asian Countries. In Biomass Energy in Developing Countries: A Multi-Faceted Study in Asian Countries. Pp 363-373, 2006. RERIC publication. ISBN 974-8257-33-9.

3. Articles in Refereed International Journals:

1. Cuong N.Dao, Abdul Salam, Nguyen Thi Kim Oanh, and Lope G Tabil. Effects of length-to-diameter ratio, pinewood sawdust, and sodium lignosulfonate on quality or rice straw pellets produced via a flat die pellet mill. Renewable Energy, October 2021. <https://doi.org/10.1016/j.renene.2021.09.088>
2. Bhadra S, Salam PA, Sarker NK. Microalgae-based biodiesel production in open raceway ponds using coal thermal flue gas: A case of West Bengal, India. Environmental Quality Management. 2020;1–10. <https://doi.org/10.1002/tqem.21677>
3. Sarker NK, and P. Abdul Salam. Design of batch algal cultivation systems and ranking of the design parameters. Energy, Ecology and Environment, February 2020. <https://doi.org/10.1007/s40974-020-00149-3>
4. Sarker N K, and P. Abdul Salam. Indoor and outdoor cultivation of *Chlorella vulgaris* and its application in wastewater treatment in a tropical city—Bangkok, Thailand. SN Applied Sciences. December 2019, 1: 1645. DOI: <https://doi.org/10.1007/s42452-019-1704-9>
5. Abdul Ghani Noori, P. Abdul Salam, and Agha Mohammad Fazli. Assessment of Selected Biomass Energy Potential in Afghanistan. European Journal of Engineering Research and Science. June 2019. Vol.4, No.6. pp 6-14.
6. Sachin Muralee Krishna, P. Abdul Salam, Manida Tongroon, and Nuwong Chollacoop. Performance and emission assessment of optimally blended biodiesel-diesel-ethanol in diesel engine generator. *Applied Thermal Engineering*. April 2019. 155 (2019) 525-533
7. Deepanraj.B, M. Srinivas, N. Arun, G.Sankaranarayanan, and P. Abdul Salam. Comparison of Jatropha and Karanja biofuels on their combustion characteristics. *International Journal of Green Energy*. Vol.14, No.15, 1231-1237 (2017).
8. Sheikh Aminur Rahaman and P. Abdul Salam. Characterization of cold densified rice straw briquettes and the potential use of sawdust as binder. *Fuel Processing Technology*. 158 (2017) 9-19.
9. Joseph Dal Khan Suan, Avishek Datta and P. Abdul Salam. Effect of oil palm fly ash on soil properties and yield of sweet corn in the tropical zone of Thailand. *Communications in Soil Science and Plant Analysis*. Vol.48, No.2, 236-244, 2017.

10. Rotchana Intharathirat and P. Abdul Salam. Valorization of MSW-to-Energy in Thailand: Status, Challenges and Prospects. *Waste and Biomass Valorization*. Volume 7, Issue 1, pp 31-57, February 2016.
11. Rotchana Intharathirat, P. Abdul Salam, S. Kumar and Akarapong Untong. Forecasting of municipal solid waste quantity in a developing country using multivariate grey models, *Waste Management*. 39(2015), 3-14.
12. Jakkapong Udomsirichakorn, Prabir Basu, P. Abdul Salam and Bishnu Acharya. CaO-based chemical looping gasification of biomass for hydrogen-enriched gas production with in situ CO₂ capture and tar reduction. *Fuel Processing Technology*. Vol. 127 (2014), pp 7-12.
13. Phutcharad Vicharnakorn, Rajendra P. Shrestha, Masahiko Nagai, Abdul P. Salam and Somboon Kiratiprayoon. Carbon Stock Assessment Using Remote Sensing and Forest Inventory Data in Savannakhet, Lao PDR. *Remote Sensing*. 2014, 6, 5452-5479; doi:10.3390/rs6065452.
14. Jakkapong Udomsirichakorn and P. Abdul Salam. Review of hydrogen-enriched gas production from steam gasification of biomass: The prospect of CaO-based chemical looping gasification. *Renewable and Sustainable Energy Review*. Vol.30 (2014), pp 565 -579.
15. Jakkapong Udomsirichakorn, Prabir Basu, P. Abdul Salam and Bishnu Acharya. Effect of CaO on tar reforming to hydrogen-enriched gas with in-process CO₂ capture in a bubbling fluidized bed biomass steam gasifier. *International Journal of Hydrogen Energy*. Vol.38 (34), 2013. Pp. 14495-14504
16. S. Kumar, Pujan Shrestha and P. Abdul Salam. A Review of Biofuel Policies in the Major Biofuel Producing Countries of ASEAN: Production, Targets, Policy Drivers and Impacts. *Renewable and Sustainable Energy Review*, Vol.26 (2013), pp 822-836.
17. S. Kumar, P. Abdul Salam, Pujan Shrestha and Emmanuel Kofi Ackom. An Assessment of Thailand's Biofuel Development. *Sustainability*. Vol 5, pp. 1577-1597, 2013.
18. Daya Nhuchhen and P. Abdul Salam. Estimation of Higher Heating Value of Biomass from Proximate Analysis: A New Approach. *Fuel*, 99 (2012), pp.55-63. Elsevier Science.
19. Daya Nhuchhen and P. Abdul Salam. Experimental Study on Two-Stage Air Supply Downdraft Gasifier and Dual Fuel Engine System. *Biomass Conversion and Biorefinery*, Vol. 2(2), 2012, pp 159 – 168. Springer.
20. P. Abdul Salam and S. C. Bhattacharya. A Comparative Hydrodynamic Study of Two Types of Spouted Bed Reactor Designs. *Chemical Engineering Science*, Vol. 61(6), 2006, pp 1946-1957. Elsevier Science.
21. P. Abdul Salam and S. C. Bhattacharya. A Comparative Study of Charcoal Gasification in Two Types of Spouted Bed Reactors. *Energy*, Vol.31 (2006), pp 228-243. Elsevier Science.
22. S. C. Bhattacharya, P. Abdul Salam, Hu Runqing, H.I. Somashekar, D.A. Racelis, P. G. Ratnasiri, Rungrawee Yingyuad. Assessment of Sustainable Energy Potential of Non-plantation Biomass Resources in Selected Asian Countries. *Biomass and Bioenergy*, Vol. 29 (2005), pp 153-166. Elsevier Science.
23. Li Junfeng, Hu Runqing, Song Yangin, Shi Jingli, S. C. Bhattacharya, P. Abdul Salam. Assessment of Sustainable Energy Potential of Non-plantation biomass Resources in China. *Biomass and Bioenergy*, Vol.29 (2005), pp 167 - 177. Elsevier Science.
24. N. H. Ravindranath, H. I. Somashekar, M. S. Nagaraja, P. Sudha, G. Sangeetha, S. C. Bhattacharya, P. Abdul Salam. Assessment of Sustainable Non-plantation biomass

- Resources Potential for Energy in India. *Biomass and Bioenergy*, Vol.29 (2005), pp 178 - 190. Elsevier Science.
25. J. C. Elauria, M. L. Y. Castro, M. M. Elauria, S.C. Bhattacharya, P. Abdul Salam. Assessment of Sustainable Energy Potential of Non-plantation biomass Resources in the Philippines. *Biomass and Bioenergy*, Vol.29 (2005), pp 191 - 198. Elsevier Science.
 26. K. K. C. K. Perera, P. G. Rathnasiri, S. A. S. Senarath, A.G.T.Sugathapala, S. C. Bhattacharya, P. Abdul Salam. Assessment of Sustainable Energy Potential of Non-plantation biomass Resources in Sri Lanka. *Biomass and Bioenergy*, Vol. 29 (2005), pp 199 - 213. Elsevier Science.
 27. Boonrod Sajjakulnukit, Rungrawee Yingyuad, Virach Maneekhao, Veerawan Pongnarintasut, S. C. Bhattacharya, P. Abdul Salam. Assessment of Sustainable Energy Potential of Non-plantation biomass Resources in Thailand. *Biomass and Bioenergy*, Vol. 29 (2005), pp 214 - 224. Elsevier Science.
 28. S.C. Bhattacharya, P.Abdul Salam, H.L. Pham and N.H.Ravindranath. Sustainable Biomass Production for Energy in Selected Asian Countries, *Biomass and Bioenergy*, Vol.25 (2003), pp.471-482. Elsevier Science.
 29. S.C. Bhattacharya, D.O.Albina and P.Abdul Salam. Emission Factors of Wood and Charcoal-fired Cookstoves, *Biomass and Bioenergy*, Vol.23 (2002), pp 453-469. Elsevier Science.
 30. S.C. Bhattacharya and P.Abdul Salam. Low Greenhouse Gas Biomass for Cooking in the Developing Countries, *Biomass and Bioenergy*, Vol. 22 (2002), pp 305-317. Elsevier Science.
 31. S.C. Bhattacharya, P. Abdul Salam, and Mahen Sharma. Emissions from Biomass Energy Use in Some Selected Asian Countries, *Energy*, Vol 25 (2000), pp169-188, 2000. Elsevier Science.
 32. M. A. Kumaradasa, S. C. Bhattacharya, P. Abdul Salam and Ghulam Qambar Amur. A Study of Biomass as a Source of Energy in Sri Lanka, *RERIC International Energy Journal*. Vol.21 (1999). Pp 55-68.
 33. H. P. Narang, D. C. Parashar, S. C. Bhattacharya and P. Abdul Salam. A Study of Biomass as a Source of Energy in India, *RERIC International Energy Journal*. Vol 21 (1999), pp11-23.
 34. S.C. Bhattacharya, M. Arul Joe, Zahed Kandhekar, P. Abdul Salam and R. M. Shrestha. Greenhouse Gas Emission Mitigation from the Use of Agricultural Residues: the Case of Rice Husk, *Energy*, Vol.24 (1999). pp 43-59. Elsevier Science.
 35. S.C. Bhattacharya, R. A. Attalage, M. Augustus Leon, G.Q. Amur, P. Abdul Salam, and C. Thanawat. Potential of Biomass Fuel Conservation in Selected Asian Countries, *Energy Conversion and Management*, Vol.40 (1999). pp 1141-1162. Elsevier Science.
 36. S.C. Bhattacharya, Jossy M.Thomas and P.Abdul Salam. Greenhouse Gas Emissions and The Mitigation Potential of using Animal Wastes in Asia, *Energy*, Vol.22 (1997), pp.1079-1085. Elsevier Science.
4. Papers in conference proceedings:
1. Sachin Muralee Krishna and P. Abdul Salam. A comparative study on fuel properties of diesel-biodiesel-ethanol blends. 18th International Conference on Sustainable Energy Technologies. 19-23 October, 2019. Kuala Lumpur, Malaysia.
 2. Rotchana Intharathirat and P. Abdul Salam. Analytical hierarchy process based decision making for sustainable MSW management systems in small and medium

- cities. 7th International Conference on Solid Waste Management. 15-17 December 2017. Hyderabad, India.
3. Boonyawee Worapipat and P. Abdul Salam. Assessment of energy consumption and GHG emissions of van fleet: case study of Plykeaw tour company, chonburi province, Thailand. Paper presented at the 12th GMSARN International Conference on Energy Connectivity, Environment and Development in GMS. 28-30 November. 2017. Danang. Vietnam.
 4. P. Abdul Salam and Sheik Aminur Rahaman. Renewable Energy Systems for Sustainable Development of Rural Asia. Paper presented at the International Forum on Education for Rural Transformation. AIT, Thailand. 13-15 November 2017.
 5. Rathnayake T, Saeteaw N, Abdul Salam P, Visvanathan C. Characterization of food waste of Bangkok, Thailand as feedstock for mesophilic, wet anaerobic digestion. Paper presented at the International Conference on the "Challenges in Environmental Science and Engineering" (CESE-2017) Kunming, China. 11-15 November 2017.
 6. P. Abdul Salam, Visvanathan C, Rahaman S A, Srinivas R A, Radu T. Food Waste based Anaerobic Digestion with Centralized Monitoring System. Paper presented at the 7th International Symposium on Energy Manchester, England. 13-17 August. 2017.
 7. Joshi P, Do D. T, Saeteaw N, Jumpusri Y, Abdul Salam P, Visvanathan C. Development of a CSTR System for Mesophilic Wet Anaerobic Digestion of Food Waste in Thailand. Paper presented at the 5th International Symposium on Environmental Analytical Chemistry (ISEAC 5 - Asia), Ho Chi Minh City, Viet Nam. 16-20 May, 2017.
 8. Sachin Muralee Krishna. P. Abdul Salam and Nimal Madhu M. Optimal Sizing and Operational Strategies for Diesel Engine Driven CCHP System. International Conference on Cogeneration, Small Power Plants and District Energy. Bangkok, Thailand. September 14-16, 2016.
 9. Tanja Radu, Richard Blanchard, Andrew Wheatley, P. Abdul Salam, and C. Visvanathan, and Vincent Smedley. Community Scale, Decentralized Anaerobic Digestion for Energy and Resource Recovery. International Conference on Cogeneration, Small Power Plants and District Energy. Bangkok, Thailand. September 14-16, 2016.
 10. K. Das, P. Abdul Salam, and S. Nonhebel, Biofuel from Microalgae: Mapping The Developments In Industry, Proceedings of the 11th Conference on Sustainable Development of Energy, Water and Environment Systems, SDEWES2016.0503, 1-17 (2016), Lisbon.
 11. Sachin Muralee Krishna and P. Abdul Salam. Computational Investigations on Producing Diesel-Biodiesel-Ethanol Optimal Fuel Blends – Thailand Perspective. Global Conference on Engineering and Technology. Kuala Lumpur, Malaysia. June 1-2, 2016.
 12. Sachin Muralee Krishna and P. Abdul Salam. Economic Analysis on Implementing DBE Blends as Diesel Fuel Substitute in Thailand. International Conference on Recent Trends in Engineering and Material Sciences, Jaipur, India. March 17-19, 2016.
 13. Jakkapong Udomsirichakorn, Prabir Basu, P. Abdul Salam, and Bishnu Acharya. A Study on CaO-based Catalytic Tar Reforming in a Chemical Looping Gasification

System. 11th International Conference on Fluidized Bed Technology. Beijing, China, May 14-17, 2014.

14. Rotchana Intharathirat and P. Abdul Salam. Uncertainty of Forecasting Municipal Solid Waste Generation and Composition: A Case Study of Thailand. Euroasia Waste Management Symposium 2014. 28-30 April 2014. Istanbul, Turkey.
15. Karabee Das and P. Abdul Salam. Development of a Generic Methodology for Assessment of Microalgae Cultivation Potential Using GIS. International Conference and Utility Exhibition on Green Energy. 19-21 March 2014. Pattaya, Thailand.
16. Jakkapong Udomsirichakorn, Prabir Basu, P. Abdul Salam, and Bishnu Acharya. Effect of CaO on Dual Function of Tar Reforming and CO₂ Capture to Produce Hydrogen-enriched Gas in a Chemical Looping Gasification System. 63rd Canadian Chemical Engineering Conference. Fredericton, NB, Canada, October 20-23, 2013.
17. S. Kumar, Pujan Shrestha and P. Abdul Salam. Energy Access of the Urban Poor in Bangkok, Thailand. An International Energy Conference and 10th Sustainable Energy and Environment (SEE) Forum. Brunei Darussalam . 21st - 23rd November 2012.
18. Wipawan Thammachataree and P. Abdul Salam. Biogas as an Option for a Low Carbon Campus: a Case Study at AIT. Presented at the International Conference and Utility Exhibition 2011 on Power and Energy Systems: Issues and Prospects for Asia. 28 – 30 September 2011, Amari Hotel, Pattaya, Thailand.
19. P. Abdul Salam, S. Kumar and Manjula Sriwardhana. A Review of Biomass Gasification in the Mekong Region. Presented at the International Conference on Innovations for Renewable Energy, September 2010, Hanoi, Vietnam.
20. P. Abdul Salam. Biomass Resource Potential and Sustainable Use in Selected Asian Countries. Presented at the International Conference on Sustainability Science in Asia. Nov. 23-24, 2009, held at Asian Institute of Technology. Organized by Integrated Research System for Sustainability Science (IR3S), The University of Tokyo, Asian Institute of Technology, and United Nations University.
21. S. C. Bhattacharya, Elson R.Homes and P.Abdul Salam, Emission of Greenhouse Gases from Charcoal Making, presented in ISES 1997 Solar Energy Congress, Taejon, Korea, August 24 - 29, 1997.
22. S. C. Bhattacharya, Venu M.Singamsetti, P.Abdul Salam, Assessment of Bioenergy Potential in Asia, Presented in the Asian Seminar on Fuel Cell Technology for Rural Electrification, Coimbatore, India, April 25-26, 1996.

5. Papers in workshops:

1. P. Abdul Salam, Bioenergy for sustainable development and climate change mitigation. MES-AIT International Research Collaboration Workshop. 20-24 March, 2019. Kuttipuram. Kerala, India.
2. P. Abdul Salam. Best Waste Management Practices and Business Models for Community to Promote Food Waste to Energy and Resource Recovery. Food Waste to Energy and Resource Recovery in Thailand: Options, Opportunities, Issues and Challenges. Bangkok, Thailand. July 19th, 2018.
3. P. Abdul Salam. Biomass briquetting in Nepal: Possible solutions and examples. Stakeholder dissemination workshop and training on promotion of sustainable use of biomass briquettes in Nepal. Dining Park Restaurant and Park, Kathmandu. 20-22 June 2018.

4. P. Abdul Salam. Organic Residues as a Source of Energy and Value Added Products: Options and Issues. Workshop on Technovation and Management of Organic Residues. AIT, 15th May, 2018.
5. P. Abdul Salam. Overview of biomass densification technologies. Stakeholder consultation workshop on promotion of sustainable use of biomass briquettes in Nepal. Dining Park Restaurant and Park. Kathmandu. 22-23 January 2018.
6. P. Abdul Salam. Examples of WEF Nexus approach from different regions of the world. Regional consultation on innovation strategies for sustainable development through Water-Energy-Food Nexus. Organized by UNCC, Bangkok, Thailand. 28-29 June 2017.
7. P. Abdul Salam and Sheik Aminur Rahaman. Rice Straw Densification for Cooking. National Dissemination Workshop of the Project “Turning Rice Straw into Cooking Fuel for Air Quality and Climate Co-benefit in Selected GMS Countries”. 21-22 October 2016, Phnom Penh, Cambodia.
8. P. Abdul Salam. Influence of Feedstock Variables on Selection of Biomass Based CHP Systems. Regional workshop on “Overcoming Critical Bottlenecks to Accelerate Renewable Energy Deployment in ASEAN+6 Countries. Organized by APCCT and IRENA. 14-15 June 2016.
9. P. Abdul Salam and Didin Agustian. Impacts of using rice straw derived fuels for cooking. PEER Evidence to Action Workshop: Assessment of impacts of emission reduction measures of short-lived climate forcing pollutants on air quality and climate in Southeast Asia (PEER-SEA). AIT, Thailand. 23-25 May 2016.
10. P. Abdul Salam. Energy Efficiency Status and Opportunities in Asia. Global Workshop to Accelerate Energy Efficiency: Challenges, Opportunities and Roadmaps. Organized by Copenhagen Centre for Energy Efficiency. Copenhagen. Denmark. 8-13 November 2015.
11. P. Abdul Salam and S. Kumar. Urban and Peri-urban Energy Access in Myanmar. Workshop on Energy Framework and Rural Electrification for Universal Energy Access. Organized by TERI. New Delhi. 14-15 October 2015.
12. P. Abdul Salam. Economic Potential of Biomass Utilization: Case of Thailand. Sixth Regional 3R Forum in Asia and the Pacific. 16-19 August, 2015. Male’, Maldives.
13. P. Abdul Salam. Energy Food Nexus: The Case of Rice Production in the Mekong Region. Workshop on “Water Energy Food Nexus: International Cooperation and Technology Transfer”. Science and Technology Days. Organized by SEA-EU-NET. 17-19, March 2015. Paris.
14. P. Abdul Salam. Development of Biomass Gasification in ASEAN Region. Second ASEAN Bioenergy Workshop. National Science Technology and Innovation Policy Office. May 29-30, 2014. Bangkok.
15. P. Abdul Salam. Project Ideas – Tips and Pitfalls. Presented at the Second Regional Capacity Workshop for Asia and CIS on Barrier Analysis, Enabling Environment and Development of Technology Actions Plans. 21-24 February 2012. Novotel Hotel, Bangkok.
16. P. Abdul Salam. Modern Energy Use by the Urban Poor in Thailand: A Study of Slum Households in Bangkok and Khon Kaen. Workshop on Urban and Peri-urban Energy Access and Development in Asia., Sofitel Centara, Bangkok. Thailand. 4th October 2011.
17. P. Abdul Salam. Biomass Gasification in Thailand: Status and Potential. Presented at the International Cooperation Network Promotion Project (ICNPP) in Thailand, Organized by International Centre for Environmental Technology Transfer. Bangkok Imperial Queens Park Hotel, 16 November 2010.

18. P. Abdul Salam, S. Kumar. Renewable Energy Technology Research at AIT. Presented at the Consultative Meeting on “Establishing an Institutional Cooperation Mechanism to Promote Renewable Energy”, Organized by Asia Pacific Centre for Technology Transfer. 7 - 8 October 2010, AIT.
19. P. Abdul Salam. Low Carbon Technologies for Cement Sector. Presented at the National Workshop on Low Carbon Technologies for Thai Manufacturing Sectors. 28 February 2010. Century Park Hotel, Bangkok.

I. Service/Outreach:

1. Invited lectures and keynote addresses:

1. Invited Lecture. Sustainable Energy Transition: Employment Opportunities and Enhancement of Employability. South Eastern University of Sri Lanka. 7th December 2020.
2. Keynote Address. Advances in Biomass Energy Technologies. The 2nd International Conference on Green Technology and Design 2020 (ICGTD-2020). Organized by Institut Teknologi Nasional Bandung (ITENAS), Indonesia, 2-3 December, 2020.
3. Invited Lecture. Bioenergy with Carbon Capture and Storage (BECCS) for Sustainable Development and Climate Change Mitigation. Recent Trends in Energy Technologies. Curtin University Malaysia, Sarawak Malaysia. 13-19 July 2020. Through Webinar.
4. Invited Lecture. Advances in Biomass Energy Technologies. Know-How-Webinars Series. Organized by TechnoBiz Thailand. 19th June 2020.
5. Invited Lecture. Bioenergy Technologies, Assessments and Considerations. Empowering Youth to take Climate Action. Youth Energy Academy, 28 October – 3 November, 2019. AIT.
6. Invited Lecture. Sustainable and Renewable Energy. Summer camp for the undergraduate students from India. Organized at AIT. July 2019.
7. Resource Speaker. Training in the process and methodologies for undertaking Technology Needs Assessment (TNA) in the countries. Organized by UDP and AIT, at UN Environment Country Office, New Delhi, India, 6-7 May 2019.
8. Invited Lecture. Bioenergy for Sustainable Development and Climate Change Mitigation. MES-AIT Collaborative International Research Workshop. 22-23, March, 2019, MES College of Engineering, Kuttipuram, Kerala, India.
9. Invited Resource Person. Regional Consultation Workshop on Empowering Women to Secure Climate Resilient Societies. Organized by UN Women and UN Environment, 11 September 2018. Novotel, Bangkok, Thailand.
10. Invited lecture. Sustainable and Renewable Energy. Summer Camp Students from JIS Kolkata. AIT. 9 January 2018.
11. Invited lecture. Renewable Energy Solutions for Sustainable Development. AIT Day Event in the Philippines. Cagayan De Oro, Mindano, Philippines. 27 May 2017.
12. Invited lecture. Experience sharing and way forward on CTCN technical assistance provided on climate change mitigation technologies. Regional forum for CTCN National Designated Entities (NDEs). Bali, Indonesia, 25-28 April, 2017.
13. Invited lecture. Rice Straw Densification and Cookstove Systems. PEER Evidence to action workshop on “Assessment of impacts of the emission reduction measures of short-lived climate forcing pollutants on air quality and climate in Southeast Asia”. Organized by AIT and USAID. 23-25 May, 2016. AIT.

14. Invited lecture. Low Energy Housing in the Tropics. Innovation Seminar on Energy Efficiency in Buildings. Organized by German-Thai Chamber of Commerce, 1 February 2016. AIT.
15. Invited lecture. Mapping of climate technology projects, national policies, stakeholders and other issues in Bangladesh. CTCN Request National Consultation in Bangladesh. 21st January 2016, Dhaka, Bangladesh.
16. Invited lecture. State of the art Biogas Technologies for Farms and Industries. Reduction of GHG emission through promotion of commercial biogas plants – UNIDO project launching. July 06. 2015, Phnom Penh. Cambodia.
17. Invited lecture. Development and Testing of Biomass Cookstoves: Status, Challenges and Opportunities. International Symposium on Renewable Energy and Energy Efficiency. Organized by Department of Renewable Energy Bhutan and UNDP Bhutan. Bhutan. 3-5 June 2015.
18. Invited lecture. Bioenergy and Climate Change Mitigation: Options and Opportunities. International Symposium on Renewable Energy and Energy Efficiency. Organized by Department of Renewable Energy Bhutan and UNDP Bhutan. Bhutan. 3-5 June 2015.
19. Invited lecture. Solid Waste Management and Energy: AIT's Experience. AIT Consulting and Eight Japan Consultants Technical Exchange Seminar. AIT. 23rd April 2015.
20. Invited lecture. Current Situation of Renewable Energy Technology in Thailand and its Future Perspective. SMEs Industry Stakeholders Consultation on “Greening Industry through Low Carbon Technology Application for SMEs”. 11th March 2015. Sukosol Hotel. Bangkok.
21. Invited lecture. Biomass Gasification. 3W Expo and Conference 2015. 29-31 January 2015, Bangkok.
22. Invited lecture. AIT's Experience in Bioenergy. Bioenergy and Food Security Rapid Appraisal Technical Training in Asia. 27-31 October, 2014. Bangkok.
23. Keynote address. Sustainable Development: Role of Engineers. The Institution of Engineers Sri Lanka – Ampara District Centre. Faculty of Engineering. South Eastern University of Sri Lanka. 25th July 2014.
24. Invited lecture. Development of Biomass Gasification in ASEAN Region. Second ASEAN Bioenergy Workshop. National Science Technology and Innovation Policy Office. May 29-30, 2014. Bangkok.
25. Keynote address. Carbon Capture, Sequestration and Clean Coal Technologies. International Workshop on Carbon Capture and Clean Coal Technologies. Bankura Unnavani Institute of Engineering. Bankura, West Bengal, India. 14-15 February, 2014.
26. Keynote address. Carbon Sequestration: Options and Opportunities. International Workshop on Low Carbon Development: Carbon Capture and Carbon Sequestration Route. MCKV Institute of Engineering, Kolkata, West Bengal, India. 12-13 February 2014.
27. Invited lecture. Ocean Energy. Narula Institute of Technology, Kolkata, West Bengal, India. 11th February, 2014.
28. Keynote address. Climate Change Mitigation: Options and Opportunities. SAIMM Research Symposium on Engineering Advancements 2013 (RSEA, 2013). 27 April 2013. Sri Lanka.
29. Invited lectures. Biomass Conversion Technologies: Status and Issues. 3W Expo 2013. BITEC, 22-24 January 2013.
30. Invited lectures. Biofuels in ASEAN. Low Emission Development Strategy (LEDS) forum. Organized by USAID. Sofitel Hotel. Bangkok. 18 – 21 September 2012.

31. Invited lectures. Save our planet carbon score card. Save our planet conference series 2011. Organized by ASEAN Affairs. 18 March 2011. Shangri-La Hotel, Bangkok. Thailand.
 32. Trends in energy consumption and impacts on environment. AIT-EBARA International Training Course on “Energy Saving for Fluid Machinery Equipment and Effective Usage of Unused Energies”, 25 – 31 August, 2010, AIT, Thailand.
 33. E-learning lecture on Best Practices and Case Studies in Renewable Energy Development. Under the UNESCO E-learning course. 25 March 2010, AIT.
 34. E-learning lecture on Role of Private Sector in Renewable Energy Development. Under the UNESCO E-learning course. 22 March 2010, AIT.
2. Organization of training courses, conferences, seminars, and workshops:
1. International Advisory Committee Member. International Conference on Energy and Environment (ICEE-2021). April 9-10, 2021. Organized by Jyothi Engineering College. India.
 2. International Conference on Energy, Environment and Climate Change (ICUE 2020). Technical Director. 20-22 October 2020. Asian Institute of Technology, Thailand.
 3. First regional capacity building workshop. Technology Needs Assessment – Phase III – Asia & Pacific. 28 February – 2 March, 2019. The Sukosol Bangkok Hotel, Thailand.
 4. International Conference on Green Energy for Sustainable Development (ICUE 2018). Technical Director. 23-27 October 2018. Thavorn Palm Beach Resort, Karon, Phuket, Thailand.
 5. Global Technology Needs Assessment – Phase III : Project Kick-off workshop. 17-18 October 2018. Bangkok. Thailand.
 6. Workshop on “Implementation of Nationally Determined Contributions in Timor-Leste”. During 10-12 October 2018. Timor Plaza, Dili, Timor-Leste.
 7. Food Waste to Energy and Resource Recovery in Thailand: Options, Opportunities, Issues and Challenges. Dissemination workshop of AIT-LU Newton Fund Project. Hotel Novotel, Bangkok, 19th July 2018.
 8. Biomass briquetting in Nepal: Possible solutions and examples. Stakeholder dissemination workshop and training on promotion of sustainable use of biomass briquettes in Nepal. Dining Park Restaurant and Park, Kathmandu. 20-22 June 2018.
 9. Stakeholder Consultation Workshop on Sustainable use of Biomass Briquettes in Nepal. 22-23 January 2018. Kathmandu, Nepal (with Dr. Shobhakar)
 10. National Dissemination Workshop of the Project “Turning Rice Straw into Cooking Fuel for Air Quality and Climate Co-benefit in Selected GMS Countries”. 21-22 October 2016, Phnom Penh, Cambodia. (with Prof. Kim Oanh)
 11. International Conference on Cogeneration, Small Power Plants and District Energy (ICUE 2016). Conference Director. 14-16 September 2016. BITEC. Bangkok. Thailand.
 12. Biomass and Bioenergy: Technology Options, Challenges and Opportunities. A Training programme organized in Association with Tehno-Biz. Kuala Lumpur. 30-31 May 2016.
 13. Second Regional Capacity Building Workshop for Technology Needs Assessment Phase II (Asia & CIS). Bangkok, Thailand. 8-11 March 2016 (with Prof. Kumar and Prof. Rajendra)
 14. Second Bangkok Regional Workshop on Low Carbon Technology Transfer and Diffusion. Bangkok. Thailand. 23-24 February 2016 (with Dr. Shobhakar)

15. Second Annual Review Workshop of the Project “Turning Rice Straw into Cooking Fuel for Air Quality and Climate Co-benefit in Selected GMS Countries”. AIT. 30th January 2016 (with Prof. Kim Oanh).
16. CTCN Request Incubator National Consultation Meeting in Bangladesh. Dhaka, Bangladesh. 21st January 2016.
17. CTCN Request Incubator Training Program for Bangladesh. Dhaka, Bangladesh. 19-20 January 2016.
18. International Expert Workshop “Towards Urban Water Security in Southeast Asia: Managing Risks of Extreme Events.” Phnom Penh. Cambodia. 19-20 November 2015 (with Dr. Anil and Dr. Sangam)
19. International Training on Design and Testing of Improved Cookstoves. AIT, Thailand. 5-9 October 2015.
20. TNA Phase II First Regional Capacity Building Workshop for Asia and CIS, Bangkok. 6-8 July 2015 (with Prof. Kumar and Prof. Rajendra)
21. TNA Phase II Project Launching and Experience Sharing Workshop. Novotel. Bangkok. 26-27 May 2015 (with Prof. Kumar and Prof. Rajendra)
22. Workshop on Urban and Peri-urban Energy Access in Myanmar: Knowledge and Outreach, Yangon, Myanmar. 30 April 2015 (with Prof.Kmar)
23. Bangkok Regional Workshop on Low Carbon Technology Transfer and Diffusion, 2 – 3 March 2015, Hotel Novotel Siam Square, Bangkok (with Dr. Shobhakar).
24. Workshop on Low Carbon Technology Transfer and Diffusion, 12 February 2015, Hotel Novotel Siam Square, Bangkok (with Dr. Shobhakar).
25. SE4ALL Energy Efficiency Consultation Workshop. Hanoi, Vietnam. 27 January 2015 (with Prof. Kumar).
26. International Expert Workshop on Development Planning and Decisions: Impact on Water Energy Food Nexus on Mekong Region. 22-23 January 2014 Bangkok, Thailand (with Dr.Anil and Dr. Sangham).
27. SE4ALL Energy Efficiency Consultation Workshop. Jakarta, Indonesia. 25 November, 2014 (with Prof. Kumar).
28. Training on Climate Change: Low Emission Development Assessments, Tools and Strategies. 17-23 November, 2014. AIT, Bangkok. (35 Participants from Bhutan).
29. SE4ALL Energy Efficiency Consultation Workshop. Bangkok, Thailand. 11 November 2014 (with Prof.Kumar).
30. Training on Design and Testing of Improved Cookstoves for Participants from Bhutan. 8 – 11 November, 2014. AIT, Bangkok.
31. Bioenergy and Food Security Rapid Appraisal Technical Training in Asia (BEFS-RA). 27-31 October, 2014. Bangkok. (in collaboration with FAO).
32. Workshop on Identifying Barriers to Clean Energy Access in Myanmar. Myanmar Engineering Society, 27 June 2014, Myanmar (with Prof. Kumar).
33. International Conference and Utility Exhibition on Green Energy for Sustainable Development. Pattaya, Thailand. 19-21 March 2014 (with Energy FoS faculty and PEA).
34. Towards Low Carbon Cities: Experience Sharing Workshop. Action Towards Resource-efficient and Low Carbon Cities in Asia. Asia Airport Hotel, Rangsit. 11-12 February 2013 (with Prof. Kumar, Dr. Charles, Dr. K. Kusakabe, Dr. R. Perera and Prof. C. Visvanathan. 60 Participants).
35. Technology Needs Assessment: Global Experience Sharing Workshop. 10-12 September 2012. Pullman Hotel. Bangkok (with Prof. Kumar, Dr. Charles, and Dr. P. Rajendra. 80 participants).
36. International Training on Design and Management of Domestic Biogas Systems. 6 – 10th August 2012. Asian Institute of Technology (with Prof. Kumar, 27 Participants)

37. Policy Dialogue on Urban and Peri Urban Energy Access. Novotel Hotel, Bangkok, Thailand. 6th March 2012. (with Prof. Kumar, 15 Participants)
38. Second Regional Capacity Building Workshop in Asia on Barrier Analysis, Enabling Environment and Development of Technology Action Plan (2nd round countries), 21-24, February 2012. Novotel Hotel, Bangkok, Thailand. (with Prof. Kumar, Dr. Charles, and Dr. P. Rajendra. 40 Participants)
39. Workshop on Urban and Peri-urban Energy Access and Development in Asia., Sofitel Centara, Bangkok. Thailand. 4th October 2011. (with Prof. Kumar. 15 Participants)
40. International Conference & Utility Exhibition 2011 on Power and Energy Systems: Issues and Prospects for Asia (ICUE 2011). Amari Hotel, Pattaya, Thailand. 28-30 September 2011. (with Energy FoS faculty and PEA. 300 Participants)
41. First Regional Capacity Building Workshop in Asia for Technology Needs Assessment Project (2nd round countries). Bangkok, Thailand. 8 – 11 August 2011. (with Prof. Kumar, Dr. Charles, and Dr. P. Rajendra. 23 Participants)
42. Training on “Territorial Climate and Energy Plan (TCEP)”, AIT. 18-21 May 2011. (with Prof. Kumar, Dr. Charles, Dr. K. Kusakabe, Dr. R. Perera and Prof. C. Visvanathan. 35 Participants)
43. Seminar on Low Carbon Initiatives of Cities for GHG Mitigation and Adaptation to Climate Change. Sofitel Centara Grand Hotel, Bangkok, Thailand. 16-17 May 2011. (with Prof. Kumar, Dr. Charles, Dr. K. Kusakabe, Dr. R. Perera and Prof. C. Visvanathan. 62 Participants)
44. Second Training on “Bilan Carbone[®] Methodology and Tool for Calculating GHG Emissions”, AIT. 09-12 March 2011. (with Prof. Kumar, Dr. Charles, Dr. K. Kusakabe, Dr. R. Perera and Prof. C. Visvanathan. 10 Participants)
45. Second Regional Capacity Building Workshop in Asia on Barrier Analysis, Enabling Environment and Development of Technology Action Plan (1st round countries), 18-21 January 2011. (with Prof. Kumar, Dr. Charles, and Dr. P. Rajendra. 23 Participants)
46. Training on “Bilan Carbone[®] methodology and tool for calculating GHGs”, AIT. 5-9, January, 2011. (with Prof. Kumar, Dr. Charles, Dr. K. Kusakabe, Dr. R. Perera and Prof. C. Visvanathan. 18 Participants)
47. Consultative Meeting on “Establishing a Regional Institutional Cooperation Mechanism to Promote Renewable Energy in Asia and the Pacific”. 7-8 October 2010. AIT (with Prof. S. Kumar. 20 Participants)
48. First Regional Capacity Building Workshop in Asia for Technology Needs Assessment Project (1st round countries). Bangkok, Thailand. 15 – 17 September 2010. (with Prof. Kumar and Dr. Charles. 50 Participants).
49. Workshop on Masters in Energy Business Management (MEBM), 17 August 2010. Bangkok. (with Energy and SOM Faculty. 30 Participants)
50. Advisory Group Meeting for AIT – ADEME Project: Actions Towards Resource Efficient and Low Carbon Cities in Asia. 10 August 2010, Bangkok. (with Prof. Kumar, Dr. K. Kusakabe, Dr. R. Perera and Prof. C. Visvanathan. 25 Participants)
51. International Conference on Energy and Sustainable Development: Issues and Strategies (ESD 2010). The Empress Hotel and Convention Centre, Chinagmai. Thailand. 2 -4 June 2010. (with Energy FoS faculty and PEA. 450 Participants)
52. Training course on Energy Efficiency Using RETScreen. AIT. 11 May 2010. (with Prof. Kumar. 26 Participants)
53. National Workshop on Low Carbon Technologies for Thai Manufacturing Sectors. Bangkok. Thailand. 28 February 2010. (with Prof. Kumar and Prof. C. Visvanathan. 45 Participants)

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

1. First collaboration and joint development workshop on the project Technology Enabled Learning Activities (TEAL 2.0). Organized by University of Peradeniya, Sri Lanka. 3-7 March 2020, Kandy, Sri Lanka.
2. Asia Pacific Climate Week. United Nations Conference Centre (UNCC), Bangkok, Thailand. 2-6 September 2019.
3. CTCN regional forum for National Designated Entities of Asian countries. United Nations Conference Centre (UNCC), Bangkok, Thailand. 2-3 September 2019.
4. Asia Clean Energy Forum 2019. Organized by Asian Development Bank. 17-21 June 2019. ADB, Manila, Philippines.
5. International Conference on Energy 4.0: Designing the Future of Thailand's Power Sector. Organized by ADB and Ministry of Energy, Thailand. 24-25 January, 2019. Queen Sirikit National Convention Centre, Bangkok, Thailand.
6. Asia Clean Energy Forum 2018. Organized by Asian Development Bank. 4-8 June 2018. ADB, Manila, Philippines.
7. Lower Mekong Policy Forum on Energy, Agriculture and Natural Resources. Da Nang, Vietnam, Organized by Lower Mekong Public Policy Initiative. 07-08 December 2017.
8. 2017 Clean Cooking Forum at New Delhi. Organized by Global Alliance for Clean Cooking. New Delhi, India. 24-28 October 2017.
9. InnoBioPlastic2016: Smart Bioplastics, Prospects and Challenges for Future Bio-Economy. BITEC, Thailand. 15-16 September 2016.
10. Lower Mekong Policy Forum on Environment, Agriculture and Livelihoods. 11-12 August 2016, Siem Reap, Cambodia.
11. Science and Technology Innovation Days (STI Days) and General Assembly meeting of SEA-EU-NET. Organized by ASEAN-EU. Hanoi, Vietnam. 10-12 May, 2016.
12. Workshop on Biogas Application in Industry and Agriculture. Morakot Regional Centre for Industrial Biogas and Wastewater Research and Development. Chiangmai, Thailand. 15-18 March 2016.
13. Workshop on Future Energy Research: Competences-Opportunities-Networking. AIT, 17-18 December 2015.
14. Fourth Vienna Energy Forum. Organized by UNIDO-Austria. 18-20 June, 2015. Vienna, Austria.
15. Workshop on Biogas for Productive Uses, Industrial and Mobility Applications. Organized by UNIDO-Austria. 17th June 2015. Vienna, Austria.
16. Science and Technology Innovation Days (STI Days). Organized by ASEAN-EU. Paris, France. 17-19 March, 2015.
17. SUMERNET Annual Meeting 2015. Bangkok, Thailand. 10-12 February 2015.
18. SE4ALL Consultation Workshop on Energy Efficiency Initiatives and Action Plans to Support Countries, 27 January 2015, Hanoi, Vietnam.
19. Introduction to Low Emissions Development Strategies (LEDS) for Policy Makers in the Asia Region. LEDS Leadership Course, Bangkok, Thailand. 24-26 September 2014.
20. CTNFC Meeting for Regional Institutions with Climate Change Expertise and Project Focal Points, 20-22 August 2014, Bangkok, Thailand.
21. SUMERNET 3 Full Proposal Development Workshop. 2-4 July 2014. Eastin Hotel. Bangkok, Thailand.
22. Fourth Regional Forum and Eight Steering Committee Meeting of Energy Environment Partnership for Mekong Region. Siem Reap, Cambodia. 24-25 October 2013.

23. Clean Cooking Forum 2013: Igniting Change, Fueling Markets and Sparking Adoption. March 18-22, 2013. Phnom Penh, Cambodia. Organized by Global Alliance for Clean Cookstoves.
24. Low Emissions Development Strategies (LEDS) Global Partnership *Learning and Leading on LEDS* workshop, held from February 27–March 1, 2013, Amari-Orchid, Pattaya, Thailand, Organized by LEDS Global Partnership Secretariat, NREL, USA.
25. ASEAN– EU Week on Science and Technology Cooperation. Organized by International Bureau of the Federal Ministry of Education and Research. Germany. 10-12, December 2012. Brussels.
26. Third Regional Forum and Fourth Steering Committee Meeting of Energy Environment Partnership for Mekong Region. Hanoi, Vietnam. 20-21 November 2012.
27. Global Network on Energy for Sustainable Development (GNESD) Working Group and Expert Group Meeting. Copenhagen, Denmark. 29-30 May 2012.
28. Sixth UN-CECAR International Workshop on Strategic Planning. Pathumwan Princess Hotel, Bangkok, Thailand. Organized by University Network for Climate and Ecosystem Change Adaptation Research, Institute for Sustainability and Peace. United Nations University. 24-25 May 2012.
29. Sixth UN-CECAR International Conference on Renewable Energy. Chulalankorn University, Bangkok, Thailand. Organized by University Network for Climate and Ecosystem Change Adaptation Research, Institute for Sustainability and Peace. United Nations University. 22-23 May 2012.
30. Global Network on Energy for Sustainable Development (GNESD) Working Group and Expert Group Meeting. Vienna, Austria. 23-24 June 2011.
31. Vienna Energy Forum. Organized by United Nations Industrial Development Organization (UNIDO). Vienna, Austria, 21-22 June 2011.
32. Sustainable Bio-energy Symposium. Organized by Food and Agriculture Organization. BITEC Conference Centre, Bangkok, 2 June 2011.
33. International Conference on Renewable Energy: Energy Security in 21st Century. Organized by Joint Graduate School for Energy and Environment (JGSEE). BITEC Conference Centre, Bangkok, 1 June 2011.
34. World Energy Council (WEC) Asia regional conference and meeting. BITEC Conference Centre, Bangkok. 24 March 2011.
35. Global Network on Energy for Sustainable Development (GNESD) Working Group and Expert Group Meeting. Cancun. Mexico. 5-8 December 2010.
36. Workshop and Field Trip. A cooperative project among APCTT-UNESCAP member countries on the commercialization of Technology in the Area of Jatropha Oil and Wood Pellet Machines and Tools. Chiangmai. Thailand. 28-30 April 2010.

Date: 17th March 2022