

Curriculum Vitae (2001-2016)

I. Biographical Data

A. Name of candidate: Weerakorn Ongsakul

B. Education

M.S. & Ph.D. Electrical Engineering
Texas A&M University, College Station, Texas 77843, USA, Dec. 1994.
B.Eng. Electrical Engineering
Chulalongkorn University, Bangkok, Thailand, May 1988.

C. Positions held

Associate Professor	Energy Field of Study School of Environment, Resources and Development Asian Institute of Technology (AIT), Thailand	Jan. 2003-present
Secretary General	Secretary General, Greater Mekong Subregion Academic and Research Network (GMSARN)	May 2006-present
Advisor	The Executive Committee Provincial Electricity Authority (PEA)	Apr 22, 2015– present
Advisor	Executive Committee IEEE PES Thailand Chapter IEEE Thailand Section	2009-present
Short-Term Visiting Scholar	Dept. of Electrical & Computer Engineering, Michigan State University	July 5-19, 2014
Dean	School of Environment, Resources and Development Asian Institute of Technology	Sept 2009-June 2013
Acting President	Asian Institute of Technology	Feb 2-12, 2013
Acting Vice President For Resource Development	Asian Institute of Technology	Nov 2012
Honorary Advisor	Energy Standing Committee Senate of Thailand	July 2013-May 2014
Specialist	Energy Standing Committee Senate of Thailand	May 2008- Apr 2011
Consultant	Asian Development Bank Institute (ADBI)	June 2011-Oct 2012
Member (Seventh Class)	The Most Admirable Order of the Direkgunabhorn	Dec 2011
Member (Fifth Class)	The Most Exalted Order of the White Elephant	Dec 2010

Member (Fifth Class)	The Most Noble Order of the Crown of Thailand	Dec 2008
Member	Subcommittee on Studying and Organizing Energy Seminar, Energy Standing Committee Senate of Thailand	July 2008- Apr 2011
Member	Subcommittee on Impact of Gasoline Price Structure on Production Industry Economics, Commerce and Industry Standing Committee Senate of Thailand	July 2008- Jan. 2009
Coordinator	Energy Field of Study School of Environment, Resources and Development Asian Institute of Technology (AIT), Thailand	Jan. 2008 – Aug. 2009 Nov. 2003 – Oct 2005
Advisor	Subcommittee on Science and Technology in Energy and Environment Science, Technology, Communication, and Telecommunication Standing Committee Senate of Thailand	Aug 2008-Apr 2011
Member	Renewable Energy Long Term Planning Committee Ministry of Energy	Jun 2008 – May 2009
Member	Subcommittee for Scrutinization of Procurement of Goods and Services Metropolitan Electricity Authority	Feb. 2007 – Mar 2008
Member	Executive Committee Power Engineering Society Chapter of IEEE Thailand Section	2004-2008
Trustee	Greater Mekong Subregion - Tertiary Education Consortium Trust (GMSTEC)	June 5 –Dec 2006
Director	Regional Resources Information Center (RERIC) Asian Institute of Technology (AIT), Thailand	Nov.2003 – Oct. 2005
Coordinator	Electric Power System Management Field of Study Energy Program School of Environment, Resources and Development Asian Institute of Technology (AIT), Thailand	Oct. 2001 – Dec. 2002
Assistant Professor	Energy Program School of Environment, Resources and Development AIT, Thailand	Jan. 2001- Dec. 2002
Consultant	Energy Management System Section Control Center Technology Department System Control and Operation Division Electricity Generating Authority of Thailand (EGAT) Thailand	Jan. 1995-Sept. 2004
Head	School of Electrical Eng. and Information Tech. Sirindhorn International Institute of Technology (SIIT) Thammasat University, Thailand	June –Dec. 2000

Chairperson	Electrical Engineering Program School of Electrical Eng. and Information Tech. SIIT, Thammasat University, Thailand	June 1999-Dec. 2000
Associate Professor	Electrical Engineering Program School of Electrical Eng. and Information Tech. SIIT, Thammasat University, Thailand	Mar.-Dec. 2000
Associate Professor	Electrical Engineering Program School of Electrical Eng. and Information Tech. SIIT, Thammasat University, Thailand	Mar.-Dec. 2000
Assistant Professor	Department of Electrical Engineering, SIIT Thammasat University, Thailand	Sept. 1995-Feb. 2000
Adjunct Faculty	Electric Power System Management (EPSM) Energy Program School of Environment, Resources, and Development Asian Institute of Technology (AIT), Thailand	Jan.-April 1998,1999 May-Nov. 2000
Adjunct Faculty	Twining Engineering Program Faculty of Engineering Thammasat University, Thailand	June 1998-Mar. 1999, June-Sept. 1999, 2000 April-May 2002, Mar- June 2003
Acting Chairperson	Department of Electrical Engineering, SIIT Thammasat University, Thailand	Nov. 1998-May 1999
Acting Deputy Chairperson	Department of Electrical Engineering, SIIT Thammasat University, Thailand	April 1998-Oct. 1998
Acting Institute Secretary	SIIT Thammasat University, Thailand	May -Sept. 1997
Deputy Chairperson	Department of Electrical Engineering, SIIT Thammasat University, Thailand	Sept. 1995-May 1997
Acting Chairperson	Department of Information Technology, SIIT Thammasat University, Thailand	March-May 1996
Lecturer	Department of Electrical Engineering, SIIT Thammasat University, Thailand	Jan.-Sept. 1995

D. Special honors and awards

- Invited Lecturer, Electric Power System and Wind Power in Thailand, Soongsil University, Seoul, May 18, 2005.
- Invited Lecturer, Reliability and Coordinated Fuzzy Constrained Optimal Power Dispatch in Thailand, The 3rd Workshop of Electrical power Reliability Research Center Workshop, Electrical Power Reliability & Power Research Center, Seoul, May 20, 2005.
- Member, Editorial Board of European Transactions on Electrical Power, Feb 2006- Dec 2012.
- Invited speaker and session chair, "Implementation of Renewable Energy Sources and Their Technologies in the ASEAN Region" and "Energizing Asia: Policy Update and Decentralized Energy Best practice in Asia", Asian Energy Week, Beijing, China, 4-7 April 2006.
- Conference Coordinator, A GMSARN International Conference 2006 on Sustainable Development: Issues and Prospects for the Greater Mekong Subregion, AIT, Dec. 6-7, 2006.

- Chairman, the IASTED International Conference on Power and Energy Systems (AsiaPES 2007), Phuket, April 2-4, 2007.
- Member of the International Program Committee (IPC), the IASTED International Conference on Power and Energy Systems (AsiaPES 2007), Phuket, April 2-4, 2007.
- Member of the International Steering Committee, The Fifth International Conference on Electrical and Electronics Engineering, ELECO'2007, Dec. 5-9, 2007, Bursa, Turkey.
- Session Chair and Speaker, Future Power Grids, Asian Energy Week, Imperial Queen's Park Hotel, Bangkok, April 23-26, 2007.
- Conference Coordinator, The Second GMSARN International Conference 2007 on Sustainable Development: Challenges and Opportunities for the Greater Mekong Subregion, AIT, Dec. 12-14, 2007, Ambassador City Jomtien Hotel, Pattaya.
- Resource Person, Regional Policy Formation Meeting Regional Support to Address Social Impacts of Infrastructure Corridors, Mekong Institute, June 14-16, 2007.
- Session Chair, The IEEJ-EIT Joint Symposium on Advanced Technologies in Power Systems, Rama Garden Bangkok, Nov. 19-20, 2007.
- Editor-in-Chief, GMSARN International Journal, June 2007-present.
- Invited speaker, "The Impact of Climate Change on the Future Electricity Networks", Asian Energy Week, Kuala Lumpur, Malaysia, 26 - 29 May 2008.
- Technical Program Co-organizer, An International Conference on Energy Security and Climate Change: Issues, Strategies, and Options (ESCC 2008), Bangkok, August 6-8, 2008.
- Conference Coordinator, The Third GMSARN International Conference 2008 on Sustainable Development: Issues and Prospects for the Greater Mekong Subregion, Kunming, Nov. 12-14, 2008.
- Member, International Organizing Committee, International Conference on Sustainability Science in Asia, AIT Conference Center, Nov. 23-24, 2009.
- Conference Coordinator, The Fourth GMSARN International Conference 2009 on Energy Security and Climate Change: Issues and Problems in GMS, Halong City, Vietnam, Nov. 25-27, 2009.
- Invited Speaker, "Clean Energy and Climate Change", Initiative on Clean Energy and Environment (ICEE), Hong Kong University, Sept 25, 2009.
- Distinguished Speaker, Issues Faced by VSPPs and IPPs on How to Get Access to the Grids, Transmission & Distribution/Smart Grids Asia Event, Bangkok, 1-3 December 2009.
- Keynote Speaker, "Energy Security and Climate Change", International Conference on Issues and Challenges in Energy Conversion and Management, Institute of Technology, Banaras Hindu University, Varanasi, December 18-20, 2009.
- Conference Director, The PEA-AIT International Conference on Sustainable Development 2010, Empress Hotel, Chiangmai, June 2-4, 2010.
- Conference Coordinator, The 5th GMSARN International Conference on Sustainable Development and Climate Change: Challenges and Opportunity in GMS, The Grand Luang Prabang, Luang Prabang, Laos, November 17-19, 2010.
- Guest of Honor to deliver keynote speech, International Conference on Electrical Power and Energy Systems (ICEPES 2010), Maulana Azad National Institute of Technology, Bhopal, August 25-27, 2010.
- Academic advisor, Dept. of Electrical and Computer Engineering, National University of Singapore and IEEE Power Chapter Singapore, September 3, 2010.
- Keynote Speaker, "Adaptation Options for Global Climate Change Impacts on Electric Power System," International Conference on Climate Change: Green Summit on Climate Changes – Issues & Concern, St. Ann' College for Woman, Hyderabad, Nov. 12-12, 2010.
- Member, International Program Committee, The Fifth Global Conference on Power Control and Optimization, Dubai, June 1-2, 2011.
- Session Chairman, Connecting Renewable to the Grid/Renewable Integration, Clean Power Asia Conference & Expo 2011, InterContinental Bangkok, June 28-30, 2011.
- Member, The Fourth International Conference on Electric Utility Deregulation and Restructuring and Power Technologies (DRPT), Weihai, Shandong, July 6-9, 2011.
- Speaker, Seminar in Energy and Environment Towards ASEAN 2030, Dept of Electrical and Computer Engineering, Michigan State University, July 29, 2011.

- Conference Director, The International Conference and Utilities Exhibition 2011 (ICUE 2011) on Power and Energy Systems: Issues and Prospects for Asia, Pattaya City, Sept 28-30, 2011.
- Lead Discussant, Environment Protection, Regional Seminar on Water Energy Development and Environmental Protection in the Greater Mekong Subregion, Mekong Institute, Phnom Penh, Mar 21-23, 2012.
- Conference Director, The 6th GMSARN International Conference on Social Energy Environmental Development: SEED towards Sustainability, The Grand Paradise, Nong Khai, March 28-30, 2012.
- Resource Person, Environmental Issues of the GMS Countries, International Conference on Energy and Environment Sector Cooperation of the GMS Countries. Foundation for International Human resource Development, May 21, 2012.
- Member, International Program Committee, The Sixth Global Conference on Power Control and Optimization, Las Vegas, August 6-8, 2012.
- Invited Speaker, Workshop on Joint Research Collaboration, Faculty of Engineering, Colorado State University, August 9, 2012.
- Invited Speaker, The 7th Annual Transmission & Distribution Smart Grid Asia 2012, Kuala Lumpur, September 18-19, 2012.
- Distinguished Speaker, Power Generation APAC Summit – Networking Forum, Macao, December 3-5, 2012.
- Member, International Advisory Board for International Journal of Energy Optimization and Engineering, (IJEEOE), Oct. 16, 2012-present.
- Conference Director, The 7th GMSARN International Conference on Green Economy for Energy, Environmental and Social Responsibility, The Prince'D Ankor, Siem Reap, December 19-21, 2012.
- Member, Editorial Board of Journal of Energy, Hindawi Publishing Corporation, Oct. 18, 2012-present.
- Invited Resource Person, Roundtable Discussion on Asian Development Outlook 2013, Special Theme Chapter "Asia's Energy Challenge", Asian Development Bank (ADB) Thailand Resident Mission, Apr 19, 2013.
- Invited Speaker, Seminar and Panel Discussion on "Black out: Is Power Shortage Real in Thailand?", Energy Standing Committee, Senate of Thailand, June 28, 2013.
- Conference Director, The 8th GMSARN International Conference on Green Growth in GMS: Energy, Environment and Social Issues, Mandalay, Dec 18-20, 2013.
- Member, Steering Committee, the Seventh Global Conference on Power Control and Optimization (PCO) 2013, Prague, Czech Republic, Aug 25-27, 2013.
- Member, Steering Committee, the Seventh Global Conference on Power Control and Optimization (PCO) 2013, Kota Kinabalu, Malaysia, Oct 7-9, 2013.
- Member, Steering Committee, the Seventh Global Conference on Power Control and Optimization (PCO) 2013, Yangon, Myanmar, Dec 2-3, 2013.
- Invited Speaker, Effect of Renewable Energy Development and Investment to Increasing Economic Value, DEDE, Rama Garden Hotel, March 3, 2014.
- Conference Coordinator, The International Conference and Utilities Exhibition 2014 (ICUE 2014) on Green Energy for Sustainable Development, Pattaya City, Mar 19-21, 2014.
- Invited Speaker, "Smart Grid Simulation Modelling in Thailand", German-Thai Technology Conference – Smart Grid Solutions Thailand, Bangkok, Sept 22, 2014.
- Conference Director, The 9th GMSARN International Conference on Connectivity and Sustainability in GMS: Energy, Environment and Social Issues, Ho Chi Minh City, Nov. 12-14, 2014.
- Member, Editorial Board of International Transactions on Electrical Energy Systems, Feb 2013- Present.
- Member, International Steering Committee, 2nd International Festival of Science, Technology, Engineering and Mathematics (STEMfest), 27th September to 3rd October 2015, Saskatoon Canada.
- Member, International Advisory Committee, The 7th IEEE PES Asia-Pacific Power and Energy Engineering Conference 2015 (IEEE PES APPEEC 2015), Brisbane, 15-18 Nov 2015.

- Organizing Chair, IEEE PES International Conference on Smart Grid Technology (ISGT) Asia 2015, Bangkok, Nov. 3-5, 2015.
- Conference Director, The 10th GMSARN International Conference on Smart Energy, Environment, and Community Development, Phnom Penh, Dec. 16-18, 2015.
- Conference Coordinator, International Conference and Utility Exhibition on Co-generation, Small Power Plants and District Energy (ICUE 2016), Bangkok, Sept 14-16, 2016.
- Invited Keynote/Plenary speaker, The First EAI International Conference on Computer Science and Engineering in Penang Island, Malaysia, Nov 11-12, 2016.
- Conference Director, The 11th GMSARN International Conference on Innovative Energy, Environment, and Development in GMS, Kunming, Nov. 16-18, 2016.

II. Pedagogy

A. Experience as a teacher

1. Courses taught, including courses taught at partner institutions. Student enrollment in each course taught and average grade in each course.

- ED72.10 Computer Aided Power System Analysis 3(2-3)
Semester: August 2013, August 2014, August 2015, August 2016
Description: Modeling of Power System Components; Load Flow Analysis; Analysis of AC/DC Systems; Computer Programming Aspects; Short Circuit Analysis; State Estimation in Power System; Computer Laboratory Sessions on Use of Application Software and Sample Studies.
Average number of students: 12.25
- ED72.11 Rural Electrification and Distributed Generation 3(3-0)
Semester: August 2012, August 2013
Description: Rural electrification; distributed generation; demand for electric power; reliability evaluation; gas turbine powered distributed generators; fuel cell powered distributed generators; renewable resources distributed generators; distributed generation cost analysis; and grid interconnection option.
Average number of students: 11.67
- ED72.22 Power Sector Management under Deregulation 3(3-0) (jointly offered with Dr J G Singh from January 2012 onwards)
Semester: January 2013, January 2014, January 2015, January 2016
Description: Privatization and deregulation; Components of deregulation; Different models; International experiences; Reform of electricity supply industry; Operational issues; Ancillary services; Wheeling methodologies; Transmission pricing.
Average number of students: 12.4
- ED72.23 Optimization and AI Applications in Power System 3(2-3)
Semester: January 2013, January 2014, January 2015, January 2016
Description: The realm and concepts of power system optimization; Real time control of power systems; Economic dispatch; Optimal power flow; Unit commitment; AI applications; Computer laboratory session on use of application software and sample studies.
Average number of students: 12.8
- ED60.9002 Selected Topic: Sustainability: Food and Energy 2(2-0)
Semester: Inter-semester 2006
Description: UT-AIT Intensive Program on Sustainability
Number of students: 10
- IN00.9017 Selected Topic: Energy Resources, Consumption and Management in the Greater Mekong Sub-Region 1(1-0) (jointly offered with Prof S Kumar)
Semester: Inter-semester 2009, 2010

Description: Energy resources in the GMS region, current energy consumption trends, accessibility of modern energy in the various sectors, rural electrification issues in the GMS, energy policies in the GMS countries, and sub regional cooperation possibilities to optimally use the energy resources

Number of students: 17.5

- ED72.07 Power System Design and Operation 3(2-3) (jointly offered with Dr J G Singh)
Semester: August 2014, August 2015, August 2016
Description: Structure of Power Systems; Design and Operating Criteria; System Protection; Automatic Generation Control; Computer Aided Systems Monitoring and Communication; Reactive power and Voltage Control; Computer Laboratory Sessions on Use of Application Software and Sample System Studies

Average number of students: 8

B. Evaluation of teaching

1. Summary of student teaching evaluations.

Please see the attached AIT course work evaluation for

- ED72.10 Computer Aided Power System Analysis 3(2-3), August 2013, 2014, 2015, 2016
- ED72.22 Power Sector Management under Deregulation 3(3-0), January 2013, 2014, 2015, 2016
- ED72.23 Optimization and AI Application in Power System 3(2-3), January 2013, 2014, 2015, 2016
- ED72.07 Power System Design and Operation 3(2-3), August 2014, 2015, 2016
- ED72.11 Rural Electrification and Distributed Generation 3(3-0), August 2012, 2013

2. Summary of student research evaluation reports

Please see attached.

3. Copies of peer teaching evaluation reports.

Completed on 30 August 2013. Please refer to memo attached.

C. Pedagogical Development

1. Publications: textbooks, laboratory manuals, articles in journals oriented toward pedagogy.

- Laboratory Manual on ED72.10 Computer Aided Power System Analysis 3(2-3)
- Laboratory Manual on ED72.23 Optimization and AI Application in Power System 3(2-3)
- Laboratory Manual on ED72.07 Power System Design and Operation 3(2-3)

2. Grants related to pedagogy and curriculum development.

Project	AIT Support to National University of Laos (NUOL), Vientien 2007-2010 (Curriculum Development)
Position	Co-Principal Investigator
Duration	September 21, 2009-Dec 2010
Sponsor	Swedish International Development Cooperation Agency (Sida)
Budget	3,285,600 Baht
Status	Completed

3. Initiation of new courses, degree programs, curricula.

New courses offered in 2001

- ED14.98P Rural Electrification and Distributed Generation 3(3-0)
- ED22.98B Power Sector Management under Deregulation 3 (3-0)

New course offered in 2003

- ED72.22 Power Sector Management Under Deregulation 3(3-0)

New course offered in 2006

- ED60.9002 Selected Topic: Sustainability: Food and Energy 2(2-0)

New Course offered in 2007

- ED72.11 Rural Electrification and Distributed Generation 3(3-0)

New Course offered in 2009 (with Prof S Kumar)

- IN00.9017 Selected Topic: Energy Resources, Consumption and Management in the Greater Mekong Sub-Region 1(1-0)

New course offered in 2013 (with Dr J G Singh for Professional Master in Energy Business Management)

- ED72.22 Power Sector Management Under Deregulation 3(3-0)

New course offered in 2014 (with Dr J G Singh)

- ED72.07 Power System Design and Operations 3(2-3)

4. Development and introduction of innovative pedagogical techniques.

- Teaching Materials for ED72.11 Rural Electrification and Distributed Generation 3(3-0)
- Teaching Material for ED72.10 Computer Aided Power System Analysis 3(2-3)
- Teaching Material for ED72.23 Optimization and AI Applications in Power System 3(2-3)
- Teaching Material for ED72.22 Power Sector Management Under Deregulation 3(3-0)
- Teaching Material for IN00.9017 Selected Topic: Energy Resources, Consumption and Management in the Greater Mekong Sub-Region 1(1-0)
- Teaching Material for ED72.22 Power Sector Management Under Deregulation 3(3-0) (for Professional Master in Energy Business Management)
- Teaching Material for ED72.07 Power System Design and Operations 3(3-0)

5. Participation in workshops, short courses, etc. relating to improvement of teaching.

1. Technical Committee Meeting/Workshop on the Review of Experiences in Using the Agency's Databases and Software Packages for Comparative Assessment of Nuclear and Other Energy Systems, Argonne National Laboratory (ANL), Argonne, Illinois, USA, Dec. 2-13, 1996.
2. Train the Trainer, Department of Energy Development and Promotion, Ministry of Science Technology and Environment, Bangkok, Thailand, Feb. 1997.
3. Information Exchange Program on New Energy with Asian Countries (Malaysia/Philippines/Thailand), New Energy Foundation (NEF), Japan, Aug. 27-Sept. 7, 2000.
4. Director Accreditation Program, Thai Institute of Directors, July 22, 2004.
5. Technical Workshop on the Proposed Nam Theun 2 Hydroelectric Project, The World Bank, AIT Center, August 31, 2004.
6. Workshop on Nam Theun 2 Hydroelectric Project Economic Analysis, The World Bank, Arnoma Hotel, Nov. 5, 2004.
7. GMSTEC Workshop on Master of GMS Development, Khon Kean, Aug. 28, 2006.
8. Enhancing Public Petroleum Management (EPPM) Project Coordinators Forum, CCOP Secretariat, Oct 12-13, 2006, Bangkok.
9. The Second Consultation Workshop, GMS – Sustainable Development Strategy (GMS –SDS) and an Inception Workshop TA 6289-REG: GMS Core Environment Program (CEP) Phase 1: Component 3 – Environment Performance Assessment (EPA), Imperial Mae Ping Hotel, Chiang Mai, 28-30 May 2007.
10. The Thai Stakeholders' perception toward the Greater Mekong Sub-region countries – Burma, Cambodia, Laos, Vietnam organized by Institute of Asian Studies of Chulalongkorn University

(IAS) and Research Institute on Contemporary Southeast Asia (Irasec) – GM Hall, SASA International House, Chulalongkorn University, Nov. 8, 2007.

11. Capacity Building in Supporting the Operation of Standing Committees of Senate of Thailand, King Prajadhipok's Institute, August 22-23, 2009.
12. Workshop on Individual Countries Perspectives: ASEAN 2030 Growing Together for Shared Prosperity, ADBI, ADB Thailand Resident Mission, Central World Bangkok, May 9-11, 2011.
13. Workshop on National and Regional Development Issues: ASEAN 2030 Growing Together for Shared Prosperity, ADBI, Le Meridien Hotel, Kuala Lumpur, June 20-21, 2011.
14. Workshop on Report Finalization: ASEAN 2030 Growing Together for Shared Prosperity, ADBI, Edsa Shangri-La Manila, Dec. 14-15, 2011.
15. Inception Workshop for GMS Core Agriculture Support Program Phase II (CASP II), Ministry of Agriculture, Sept 10, 2013.
16. German-Thai Technology Conference – Smart Grid Solutions Thailand, Bangkok, Sept 22, 2014.

III. Student Research Supervision

A. Theses supervised. List in chronological order all masters and doctoral degrees obtained by students supervised.

Summary of student research supervision at AIT (January 2001- October 2016)

STUDENTS	COMPLETED		IN-PROGRESS	
	Chair of the Committee	Co-Chair of the Committee	Chair of the Committee	Co-Chair of the Committee
Doctoral	14	1	6	0
Master's	89	0	9	0

Doctoral Students:

1. Tanachai Limpasuwan, A Proposal for Transmission Pricing Methodologies in Thailand Based on Electricity Tracing, Ph.D. Dissertation, SIIT, Oct. 98-May 2003. (graduated)
2. Jarurote Tippayachai, Parallel Micro Genetic Algorithm for Constrained Economic Dispatch, M.Sc./Ph.D. Dissertation, SIIT, Oct. 99-Sept. 2005 (Coadvisor).
3. Keerati Chayakulkheeree, Fuzzy Constrained Optimal Power Dispatch for Electricity and Ancillary Services Auctions, D.Eng. Dissertation, Energy Program, AIT, Jan. 2001-Dec. 2004. (graduated)
4. Nit Petcharak, An Enhanced Lagrangian Relaxation Program for Constrained Hydrothermal Generating Scheduling, D.Eng. Dissertation, Energy Program, AIT, Jan. 2001-Aug. 2006. (graduated)
5. Pornrapeepat Bhasaputra, Optimal Placement of FACTS Devices by Hybrid TS/SA Approach, D.Eng. Dissertation, Energy Program, AIT, Sept. 2001-May 2007. (graduated)
6. Cattareeya Adsoongneon, Transmission Pricing Using the Exact Energy and Loss Allocation for Bilateral Contract in a Deregulated Electricity Supply Industry, D.Eng. Dissertation, Energy Field of Study, AIT, January 2003-December 2007. (graduated)
7. Vo Ngoc Dieu, Augmented Lagrangian Hopfield Network Based Methods for Optimal Generation Scheduling, D. Eng, Energy Field of Study, AIT, August 2003-December 2007. (graduated)
8. Peerapol Jirapong, Optimal Placement of Multi-Type FACTS Devices for Available Transfer Capability Enhancement Using Hybrid Evolutionary Algorithm, D.Eng, Dissertation, Energy Program, AIT, September 2002-May 2008. (graduated)
9. Thawatch Kerdcheun, Optimal Measurement Placement with Contingencies for Power System State Estimation Using Hybrid Genetic Algorithm and Simulated Annealing, D. Eng, Energy Field of Study, AIT, August 2004-Dec. 2008. (graduated)
10. Sasidharan Sreedharan, Development of the PSO Based Robust Controller for Maximizing Wind Energy Penetration in Power Systems, Energy Field of Study, AIT, Aug 2008-Dec. 2010. (graduated)

11. Santisouk Phimpachanh, Transmission Expansion Planning in Laos PDR considering Interconnection with GMS Countries, D.Eng, Energy Field of Study, AIT, August 2005-present.
12. Chira Achyuthakan., Electricity Tracing in Systems with and without Circulating Flows: Theoretical Proofs and Application on Inter-Tso Compensation in Cross-Border Trades, D. Eng, Energy Field of Study, AIT, January 2006 – July 2011. (graduated)
13. Purisan Lakasorn, Economic Dispatch by Using Artificial Neural Networks, D.Eng, Energy Field of Study, AIT, August 2006-Dec 2012.
14. Wittoon Prommee, Optimal Multiple Distributed Generation and Protective Devices Placement in Microgrid System, D.Eng., Energy Field of Study, AIT, Aug, 2006 - Dec. 2012. (graduated)
15. Jirawadee Polprasert, Optimal Power Flow Program Using Particle Swarm Optimization, D.Eng, Energy Field of Study, AIT, August 2007-Dec 2015. (graduated)
16. Chanwit Boonchuay, Optimal Bidding Strategies in competitive Electricity Markets by Particle Swarm Optimization, D. Eng, Energy Field of Study, AIT, August 2007-July 2011. (graduated)
17. Saksorn Chalermchaiarbha, Multi-Objective Economic Dispatch by Stochastic Weight Trade-Off Particle Swarm Optimization, D. Eng., Energy Field of Study, AIT, August 2008-May 2014. (graduated)
18. Kittavit Buavai, Microgrid Planning in Distribution System, D. Eng, Energy Field of Study, AIT, May 2009-May 2013. (graduated)
19. I Made Wartana, Optimal Placement of FACTS Controllers and Distributed Generation for Maximization of the System Loadability, D.Eng., Energy Field of Study, AIT, May 2009 - July 2012. (graduated) (Coadvisor)
20. Sittichoke Pookpunt, Energy Field of Study, AIT, August 2009-present.
21. Songkran Pisanupoj, Energy Field of Study, Jan. 2010-Dec 2015.
22. Titipong Samakpong, Energy Field of Study, Aug. 2010-present.
23. Anongpun Man-Im, Energy Field of Study, August 2011-present.
24. Arjun C. Unni, Energy Field of Study, August 2016-present.
25. Zain Zia, Energy Field of Study, August 2016-present.

Master Students:

1. Yod Sukamongkol, A Simulation Model for Predicting the Performance of a Solar Photovoltaic System with Alternating Current Loads, Electrical Engineering Program, SIIT, Mar. 2002.
2. Niramon Ruangpayoongsak, Constrained Economic Dispatch by Combined Genetic and Simulated Annealing Algorithm, Electrical Engineering Program, SIIT, Mar. 2002.
3. Chantakorn Chamsilp, Dynamic Generation Dispatch by Means of Genetic Algorithms, Master of Engineering in Electrical Engineering, King Mongkut's Institute of Technology Ladkrabang, April 2002 (Coadvisor).
4. Sanchai Dechanupaprittha, Design of Robust Power System Damping Controllers by Using Tabu Search, Electrical Engineering Program, SIIT, June 2000-May 2003 (Coadvisor).
5. Pornrapeepat Bhasaputra, Optimal Power Flow with FACTS Devices by Hybrid TS/SA Approach, Master Thesis (Yoshiro Takasaku Prize of 92nd Graduation Award) , Energy Program, AIT, Aug. 2001.
6. Vu Van Thong, Optimal Real and Reactive power Control Using Linear Programming, Energy Program, Master Thesis, AIT, Aug. 2001.
7. Le Viet Hung, 500-kV Transmission Expansion Planning – A Case of Vietnam, Master Thesis, Energy Program, AIT, Aug. 2002.
8. Cattareeya Adsoongnoen, Transmission Pricing for Bilateral Transaction in a Deregulated Environment, Master Thesis, Energy Program, AIT, Aug. 2002.
9. Nguyen Manh Hung, Genetic Algorithms for Optimal Distributed Generation Placement, Master Thesis, Energy Program, AIT, Aug. 2002.
10. Nguyen Quang Trung, Genetic Algorithm for Optimal Capacitor Placement in Hanoi Power Distribution System, Master Thesis, Energy Program, AIT, Aug. 2002.
11. Nguyen Nhat Tan, Restructuring of Electricity Supply Industry in Vietnam, Master Thesis, Energy Program, AIT, Aug. 2002.
12. Nguyen Thanh Vinh, Hydro-Thermal Coordination for the Vietnamese Power System, Master Thesis, Energy Field of Study, AIT, Aug. 2003.

13. Nguyen Dinh Thong, Optimal Reactive Power Dispatch with FACTS Devices Using Evolutionary Programming, Master Thesis, Energy Field of Study, AIT, Aug. 2003.
14. Tawatchai Tantimaporn, Optimal Power Flow Using Improved Evolutionary Programming, Energy Field of Study, Master Thesis (Yoshiro Takasaki Prize of 98th Graduation Award), AIT, Aug. 2003.
15. Worawat Nakawiro, Parallel Improved Evolutionary Programming for Combined Emission and Economic Dispatch, Master Thesis, Energy Field of Study, AIT, Aug. 2004.
16. Kritsana Tangpathiphan, Optimal Power Flow with FACTS Devices Using Parallel Improved Evolutionary Programming, Master Thesis (Yoshiro Takasaki Prize of XXth Graduation Award), Energy Field of Study, AIT, Aug. 2004.
17. Nguyen Ngoc Khanh, Protection in Transmission Systems: A Case Study of Hanoi, Vietnam, Master Thesis, Energy Field of Study, AIT, Aug. 2004.
18. Phan Le Vinh, Effects of Harmonics in Electrical Distribution Systems: Cases Study of Hoan Kiem District of Hanoi, Vietnam and AIT, Master Thesis, Energy Field of Study, AIT, Aug. 2004.
19. Peerapol Tanapongporn, Optimal Power Flow with FACTS Devices Using Parallel Improved Evolutionary Programming, Master Thesis, Energy Field of Study, AIT, Aug. 2005.
20. Le An Dung, Overcurrent, Overvoltage Protection and Reliability Improvement in Distribution Network of Binh Duong Province-Vietnam, Master Thesis, Energy Field of Study, AIT, Aug. 2005.
21. Pukar Mahat, Optimal Placement of Distributed Generation in a Distribution System, Master Thesis, Energy Field of Study, AIT, December 2005.
22. Sengamphone, Phanavanh, Transmission Network Planning: A Case Study of Lao PDR, Master Thesis, Energy Field of Study, AIT, May 2006.
23. Kritsada Japanya, Optimal Bidding Strategy in a Competitive Market Using Genetic Algorithm, Master Thesis, Energy Field of Study, AIT, May 2006.
24. Nguyen Hai Ha, Optimal Placement of TCSC to Maximize the Loadability using Genetic Algorithm: A Case Study of 500 kV Vietnamese System, Master Thesis, Energy Field of Study, AIT, May 2006.
25. Vo Hoang Anh Tuan, Design of a Robust Power System Stabilizer using an Integrated Genetic Algorithm, Simulated Annealing and Tabu Search, Master Thesis, Energy Field of Study, AIT, May 2006.
26. Tran Thi Ngoc Chau, Security Constrained Unit Commitment in a Day-Ahead Market, MSc Thesis, Energy Field of Study, AIT, December 2006.
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86. Paudel Amrit, Optimal Scheduling of Active Distribution Network Considering DG Placement, Master Thesis, Energy Field of Study, AIT, Aug 2014-May 2016.
87. Danupol Wetchasirikul, Energy Field of Study, AIT, Aug 2015 – present.
88. Nguyen Huy Phuoc, Energy Field of Study, AIT, Jan. 2016 – present.
89. Soeun Sophanith, Energy Field of Study, AIT, Jan. 2016 – present.
90. Pradya Panyainkaew, Energy Field of Study, AIT, Aug. 2016 – present.
91. Patthanapun Boonthong, Energy Field of Study, AIT, Aug 2016 – present.

92. Phuriphat Samphanthasit, Energy Field of Study, AIT, Aug. 2016 – present.
93. Tanawat Laopaiboon, Energy Field of Study AIT, Aug. 2016 – present.

RESEARCH STUDY SUPERVISED

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2. Tanatip Sum-Im, Ant Colony Search Algorithm for Unit Commitment, Research Study Report, Energy Program, AIT, Aug. 2002.
3. Suresh Nepal, Loss Reduction in Power Distribution System: A Case of Bhutan, Energy Field of Study, AIT, Aug. 2003.
4. Masingha Kavinda Randima Wijayawardena, Energy Field of Study, AIT, Aug 2014-present.
5. Hasan Masrur, Energy Field of Study, AIT, Aug 2015 – present.

B. Doctoral students. For each student who obtained the doctoral degree under your supervision, provide the following:

- a. Title of dissertation
- b. Resulting publications
- c. Years to graduation

1. Keerati Chayakulkheeree, Fuzzy Constrained Optimal Power Dispatch for Electricity and Ancillary Services Auctions, D.Eng. Dissertation, Energy Program, AIT, Jan. 2001-Dec. 2004.
 - W. Ongsakul and K. Chayakulkheeree, "Constrained Optimal Power Dispatch for Electricity and Ancillary Services Auctions", *Electric Power Systems Research*, vol. 66, no. 3, Sept. 2003, pp. 193-204. (2013 Impact Factor = 1.694) [SCOPUS citations = 7]
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2. Nit Petcharaks, An Enhanced Lagrangian Relaxation Program for Constrained Hydrothermal Generating Scheduling, D.Eng. Dissertation, Energy Program, AIT, Jan. 2001-Aug. 2006.
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3. Pornrapeepat Bhasaputra, Optimal Placement of FACTS Devices by Hybrid TS/SA Approach, D.Eng. Dissertation, Energy Program, AIT, Sept. 2001-May 2007.
 - W. Ongsakul and B. Bhasaputra, "Optimal Power Flow with FACTS Devices by Hybrid TS/SA Approach", International Journal of Electrical Power & Energy Systems, vol. 24, no. 10, Dec. 2002, pp. 851-857. (2013 Impact Factor = 3.432) [SCOPUS citations = 53]
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- V. N. Dieu, W. Ongsakul, and J. Polprasert, "The Augmented Lagrange Hopfield Network for Economic Dispatch with Multiple Fuel Option, *Mathematical and Computer Modeling*, vol. 57, no. 1-2, January 2013, pp. 30-39. (2013 Impact Factor = 1.389) [SCOPUS citations = 9]
 - Luong Dinh Le, Jirawadee Polprasert, Weerakorn Ongsakul, Vo Ngoc Dieu, and Dung Anh Le, Stochastic Weight Trade-Off Particle Swarm Optimization for Optimal Power Flow, *Journal of Automation and Control Engineering*, vol. 2, no. 1, Mar 2014, pp. 31-37.
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 - J. Polprasert, W. Ongsakul, and V. N. Dieu, Optimal Reactive Power Dispatch Using Improved Pseudo Gradient Search Particle Swarm Optimization, *Electric Power Components and Systems*, vol. 44, Issue 5, March 2016, pp. 518-532. (2015 Impact Factor = 0.747) [SCOPUS citations = 0]

IV. Research

A. Publications

Publications must be listed with complete citations in the categories indicated below. Include all names of authors in the order in which they appear. List the number of the first page and last page of the paper. If papers are submitted or accepted for publication, copies of the letter of receipt or acceptance must be provided. Manuscripts in preparation should not be listed. Papers of a principally pedagogical nature must be listed in Section II, C.

1. Books and monographs

1. Weerakorn Ongsakul and Vo Ngoc Dieu, *Artificial Intelligence in Power System Optimization*, CRC Press/Taylor & Francis, March 2013.
2. Weerakorn Ongsakul and Vo Ngoc Dieu, *Artificial Intelligence in Power System Optimization (in Chinese)*, China Machine Press, CRC Press/Taylor & Francis, February 2016.

2. Book chapters

1. Vo Ngoc Dieu and Weerakorn Ongsakul, Hopfield Lagrange Network for Economic Load Dispatch, *Innovation in Power, Control and Optimization: Emerging Energy Technologies*, IGI Publisher, April 19, 2010. [SCOPUS citations = 8]
2. P. Boonyaritdachochoai, C. Boonchuay, and W. Ongsakul, Optimal Generation Redispatch for Congestion Management Using Self-Organizing Hierarchical Particle Swarm Optimization, IGI Publisher, July 31, 2010.
3. Dieu Ngoc Vo, Peter Schegner, and Weerakorn Ongsakul, Psuedo Gradient Based Particle Swarm Optimization Method for Non-Convex Economic Dispatch, *Power, Control and Optimization, Lecture Notes in Electrical Engineering*, Springer, January 2013, pp. 1-27. [SCOPUS citation: 1]
4. Chanwit Boonchuay and Weerakorn Ongsakul, "Swarm Intelligence-based Optimal Bidding Strategies with Risk Consideration in Competitive Electricity Markets", *Bidding: Types, Strategies and Role of Psychology*, Nova Science Publishers, 2013, pp. 131-166.
5. Jirawadee Polprasert, Weerakorn Ongsakul, and Vo Ngoc Dieu, Improved Pseudo-Gradient Search Particle Swarm Optimization for Optimal Power Flow Problem, *Sustaining Power Resources through Energy Optimization and Engineering*, IGI Publisher, Jan., 2016, pp. 177-207. [SCOPUS citations = 0]

3. Referred journal articles: international, regional, national. For each article, indicate the publisher of the journal and the number of SCOPUS citations.

3.A Summary of journal articles published (Jan. 1994 – present)

Refereed International Journals	Refereed Regional Journals	Refereed Journals	National
79	1	2	

In Progress			
Refereed International Journals	Refereed Regional Journals	Refereed Journals	National
5	0	0	

3.B Articles in Refereed **International Journals**

1. G. Huang and W. Ongsakul, "Managing the Bottlenecks in Parallel Gauss-Seidel Type Algorithms for Power Flow Analysis," IEEE Transactions on Power Systems, vol. 9, no. 2, May 1994, pp. 677-684. (2015 Impact Factor = 3.342) [SCOPUS citations = 6]
2. G. Huang and W. Ongsakul, "An Efficient Load-Balancing Processor Scheduling Algorithm for Parallelization of Gauss-Seidel Type Algorithm," Journal of Parallel and Distributed Computing, vol. 22, no. 2, Aug. 1994, pp. 350-358. (2011 Impact Factor = 0.859) [SCOPUS citations = 1]
3. G. Huang and W. Ongsakul, "Speedup and Synchronization Overhead Analysis of Gauss-Seidel Algorithm on a Sequent Balance Machine," IEE Proceedings, Part C, Generation, Transmission, and Distribution, vol. 141, no. 5, Sept. 1994, pp. 437-444. (2015 Impact Factor = 1.576) [SCOPUS citations = 5]
4. W. Ongsakul, "Real-time Economic Dispatch Using Merit Order Loading for Linear Decreasing and Staircase Incremental Cost Functions," Electric Power Systems Research, vol. 51, no. 3, Sept. 1999, pp. 167-173. (2015 Impact Factor = 1.809) [SCOPUS citations = 15]
5. M. Pipattanasomporn, W. Ongsakul, R. Pacudan, and T. Lefevre, "Electricity Prices in a Competitive Market: A Preliminary Analysis of the Deregulated Thai Electricity Industry", Utilities Policy, vol. 9, no. 4, Dec. 2000, pp. 171-179 (The 5th most requested papers in the year 2002). [SCOPUS citations = 2]
6. W. Ongsakul and J. Tippayachai, "Micro Genetic Algorithm based on Migration and Merit Order Loading Solutions to the Constrained Economic Dispatch Problems", International Journal of Electrical Power & Energy Systems, vol. 24, no. 3, Mar. 2002, pp. 223-231. (2015 Impact Factor = 2.587) [SCOPUS citations = 6]
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9. N. Ruangpayoongsak, W. Ongsakul, and S. Runggeratigul, "Constrained Economic Dispatch by Combined Genetic and Simulated Annealing Algorithm," International Journal of Electric Power Components and Systems, vol. 30, no. 9, Sept. 2002, pp. 917-931. (2015 Impact Factor = 0.747) [SCOPUS citations = 6]
10. Y. Sukamongkol, S. Chungpaibulpatana, and W. Ongsakul, "A Simulation Model for Predicting the Performance of a Solar Photovoltaic System with Alternating Current Loads", Renewable Energy, vol. 27, no. 2, Oct. 2002, pp. 237-258. (2015 Impact Factor = 3.404) [SCOPUS citations = 81]
11. W. Ongsakul and B. Bhasaputra, "Optimal Power Flow with FACTS Devices by Hybrid TS/SA Approach", International Journal of Electrical Power & Energy Systems, vol. 24, no. 10, Dec. 2002, pp. 851-857. (2015 Impact Factor = 2.587) [SCOPUS citations = 71]

12. T. Limpasuwan, J. W. Bialek, W. Ongsakul, and B. Limmechokchai, "A Proposal for Annual Power Fee in Thailand Based on Electricity Tracing Methodology", *Electric Power Systems Research*, vol. 64, no.3, March 2003, pp. 219-226. (2015 Impact Factor = 1.809) [SCOPUS citations = 4]
13. W. Ongsakul and K. Chayakulkheeree, "Constrained Optimal Power Dispatch for Electricity and Ancillary Services Auctions", *Electric Power Systems Research*, vol. 66, no. 3, Sept. 2003, pp. 193-204. (2015 Impact Factor = 1.809) [SCOPUS citations = 7]
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15. W. Ongsakul and N. Petcharaks, "Unit Commitment by Enhanced Adaptive Lagrangian Relaxation", *IEEE Transactions on Power Systems*, vol. 19, no. 1, Feb. 2004, pp. 620-628. (2015 Impact Factor = 3.342) [SCOPUS citations = 268]
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17. W. Ongsakul, S. Dechanupaprittha, and I. Ngamroo, "Constrained Economic Dispatch by Deterministic Tabu Search Approach", *European Transactions on Electric Power*, vol. 14, no. 6, August 2004, pp. 377-391. (2015 Impact Factor = 1.084) [SCOPUS citations = 15]
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19. K. Chayakulkheeree and W. Ongsakul, "Fuzzy Constrained Optimal Power Dispatch for Competitive Electricity and Ancillary Services Markets, *Electric Power Components and Systems* vol. 33, no. 4, April 2005, pp. 389-410. (2015 Impact Factor = 0.747) [SCOPUS citations = 5]
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24. P. Bhasaputra and W. Ongsakul, "Multi-Objective Optimal Placement with Multi-type FACTS Devices by Hybrid TS/SA Approach", *International Journal of Energy Technology and Policy (IJETP) Special Issue on Present and Future of Flexible AC Transmission Systems Controllers in Power Systems*, vol. 4, no. 3/4, 2006, pp. 294-319. [SCOPUS citations = 1]
25. W. Ongsakul and T. Tantimaporn, "Optimal Power Flow by Improved Evolutionary Programming, *Electric Power Components and Systems*", vol. 34, no. 1, January 2006, pp. 79-95. (2015 Impact Factor = 0.747) [SCOPUS citations = 92]
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38. V. N. Dieu and W. Ongsakul, Ramp Rate Constrained Unit Commitment by Improved Priority List and Augmented Lagrange Hopfield Network, *Electric Power Systems Research*, vol. 78, Issue 3, March 2008, pp. 291-301. (2015 Impact Factor = 1.809) [SCOPUS citations = 48]
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65. Vo Ngoc Dieu and Weerakorn Ongsakul, Refined Augmented Lagrange Hopfield Network Based Lagrange Relaxation for Hydrothermal Scheduling, *International Journal of Energy Technology and Policy*, vol. 9, no. 3-4, 2013, pp. 258-278. [SCOPUS citations = 0]
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- 114.T. Samakpong, W. Ongsakul, and J. Polprasert, Robust Optimization-Based AC Optimal Power Flow Considering Wind and Solar Power Uncertainty, Proceedings of International Conference and Utility Exhibition on "Green Energy for Sustainable Development" (ICUE 2014), Pattaya City, Mar. 19-21, 2014. [SCOPUS citations = 0]
- 115.A. Chersin, W. Ongsakul, and J. Mitra, Improving of Uncertain Power Generation of Rooftop Solar PV Using Battery Storage, Proceedings of International Conference and Utility Exhibition on "Green Energy for Sustainable Development" (ICUE 2014), Pattaya City, Mar. 19-21, 2014. [SCOPUS citations = 0]
- 116.C. Veerasathian, W. Ongsakul and J. Mitra, Voltage Stability Assessment of DFIG Wind Turbines in Different Control Modes, Proceedings of International Conference and Utility Exhibition on "Green Energy for Sustainable Development" (ICUE 2014), Pattaya City, Mar. 19-21, 2014. [SCOPUS citations = 0]
- 117.O. Phochai, W. Ongsakul, J. Mitra, Voltage Control Strategies for Grid-Connected Solar PV Systems, Proceedings of International Conference and Utility Exhibition on "Green Energy for Sustainable Development" (ICUE 2014), Pattaya City, Mar. 19-21, 2014. [SCOPUS citations = 0]
- 118.Subas Ratna Tuladhar, Jai Govind Singh, and Weerakorn Ongsakul, A Multi-Objective Network Reconfiguration of Distribution Network with Solar and Wind Distributed Generation, Proceedings of International Conference and Utility Exhibition on "Green Energy for Sustainable Development" (ICUE 2014), Pattaya City, Mar. 19-21, 2014. [SCOPUS citations = 0]
- 119.T. Jamal, W. Ongsakul, J.G. Singh, S. Salehin, S. M. Ferdous, Potential Rooftop Distribution Mapping Using Geographic Information Systems (GIS) for Solar PV Installation: A Case Study for Dhaka, Bangladesh, Proceedings of 2014 3rd International Conference on the Developments in Renewable Energy Technology, ICDRET 2014, Dhaka; Bangladesh, 29-31 May 2014. [SCOPUS citations = 0]
- 120.Tu Nguyen Le Anh, Dieu Ngoc Vo, Weerakorn Ongsakul, Pandian Vasant, and Timothy Ganesan, Cuckoo Optimization Algorithm for Optimal Power Flow, Proceedings of the 18th Asia Pacific Symposium on Intelligent and Evolution Systems, Singapore, Nov. 10-12, 2014.
- 121.Nikhil Sasidharan, Jai Govind Singh, Weerakorn Ongsakul, Sudhin P K, Hybrid AC/DC Solar Powered Net Zero Energy Home, 2015 IEEE International Conference on Electrical, Computer and Communication Technologies (IEEE ICECCT 2015), March 5-7, 2015. [SCOPUS citations = 0]
- 122.Anand MP, W. Ongsakul, Jai Govind Singh, and Sudhesh K. M., Impact of Economic Dispatch in a Smart Distribution Network considering Demand response and Power market, Proceedings of the International Conference on Energy, Economics and Environment (UPCON-ICEEE 2015), Greater Noida, India, 27-28 March 2015. [SCOPUS citations = 0]
- 123.Anand MP, W. Ongsakul, Jai Govind Singh, and Sudhesh K. M., Optimal Allocation and Sizing of Distributed Generators in Autonomous Microgrids based on LSF and PSO", Proceedings of International Conference on Energy, Economics and Environment (UPCON-ICEEE 2015), Greater Noida, India, 27-28 March 2015. [SCOPUS citations = 0]

124. Vivek Mohan, Jai Govind Singh, and Weerakorn Ongsakul, Online Benefit Optimization in a Liberalized/Free Microgrid Market Model, Proceedings of IEEE International Conference TAP Energy, 24-26th June 2015, Amrita Vishwa Vidya Peetham, Amritapuri, Kerala, India. [SCOPUS citations = 0]
125. Anand MP, Weerakorn Ongsakul, Jai Govind Singh, Economic Operational Scheduling of a Smart Distribution Network Considering Demand Response, Electric Vehicles and Network Reconfiguration, Proceedings of PowerTech 2015 Conference, Eindhoven, 29 June – 2 July 2015. [SCOPUS citations = 0]
126. VN Dieu and Weerakorn Ongsakul, One Rank Cuckoo Search Algorithm for Short-Term Hydrothermal Scheduling with Reservoir Constraint, Proceedings of PowerTech 2015 Conference, Eindhoven, 29 June – 2 July 2015. [SCOPUS citations = 0]
127. Mohammad Nazrul Islam and Weerakorn Ongsakul, Thevenin Equivalent Parameter Tracking for On-line Voltage Stability Assessment, Proceedings of IEEE PES ISGT Asia 2015 Conference, Bangkok, Nov 3-6, 2015. [SCOPUS citations = 0]
128. Nimal Madhu M., Watcharakorn Pinthurat, Jai Govind Singh, and Weerakorn Ongsakul, Droop Control Incorporated Power Flow Method for Distribution and Microgrid Systems, Proceedings of IEEE PES ISGT Asia 2015 Conference, Bangkok, Nov 3-6, 2015.
129. Vivek Mohan, Reshma Suresh M.P., Jai Govind Singh, Weerakorn Ongsakul, Boddeti Kalyan Kumar, Online Optimal Power Management Considering Electric Vehicles, Load Curtailment and Grid Trade in a Microgrid Energy Market, Proceedings of IEEE PES ISGT Asia 2015 Conference, Bangkok, Nov 3-6, 2015. [SCOPUS citations = 0]
130. Anongpun Man-Im, Weerakorn Ongsakul, Jai Govind Singh, Chanwit Boonchuay, Multi-objective Optimal Power Flow Using Stochastic Weight Trade-off Chaotic NSPSO, Proceedings of IEEE PES ISGT Asia 2015 Conference, Bangkok, Nov 3-6, 2015. [SCOPUS citations = 0]
131. Anand M.P, Vivek Mohan, Weerakorn Ongsakul, Reshma Suresh M.P., Optimal Day Ahead scheduling of distributed EVs in a Smart Distribution Network, Proceedings of IEEE PES ISGT Asia 2015 Conference, Bangkok, Nov 3-6, 2015. [SCOPUS citations = 0]
132. Optimal Power Dispatch Considering Wind and Battery Energy Storage Cost Functions Using Stochastic Weight Trade-Off PSO, W. Supinglad, Amrit Paudel, and Weerakorn Ongsakul, Proceedings of 2016 International Conference on Congeneration, Small power Plants and District Energy, Bangkok, Sept 14-16, 2016.
133. Economic Dispatch and Network Reconfiguration of Microgrid Using Artificial Bee Colony Algorithm: a Case Study of May Sariang, Thailand, Pornchai Chaweewat, Jai Govind Singh and Weerakorn Ongsakul, and Anurag Srivastava, Proceedings of 2016 International Conference on Congeneration, Small power Plants and District Energy, Bangkok, Sept 14-16, 2016.
134. Optimal Reconfiguration of Distribution Network with Electric Vehicles Using Particle Swarm Optimization, Amrit Pudel, Wannakorn Supingklad, and Weerakorn Ongsakul, Proceedings of 2016 International Conference on Congeneration, Small power Plants and District Energy, Bangkok, Sept 14-16, 2016.
135. Distribution Network Reconfiguration to Support Electric Vehicles Integration, Amrit Pudel, Wannakorn Supingklad, and Weerakorn Ongsakul, Proceedings of 2016 International Conference on Congeneration, Small power Plants and District Energy, Bangkok, Sept 14-16, 2016.
136. PID, Fuzzy and LQR Controllers for Magnetic Levitation System, Arjun C Unni, A S Junghare, Vivek Mohan, Weerakorn Ongsakul, Proceedings of 2016 International Conference on Congeneration, Small power Plants and District Energy, Bangkok, Sept 14-16, 2016.

5. Papers in workshops

1. W. Ongsakul, "Development of Hydro-Electricity in Thailand", Presented at International Conference on Sustainable Development by Science and Technology in Greater Mekong Subregion and Related Developing Countries (GMS 2000), Chiang Mai, Thailand, November 2000, 6 p.
2. J. Tippayachai, W. Ongsakul, and I. Ngamroo, Combined Parallel Micro Genetic and Tabu Search Algorithm for Constrained Economic Dispatch, Presented at The National Workshop on Cluster Computing 2003 (NWCC2003), AIT, March 10, 2003.

6. Abstracts

1. W. Ongsakul and J. Tippayachai, "Parallel Micro Genetic Algorithms Based on Merit Order Loading for Constrained Dynamic Economic Dispatch, Presented at the National Workshop on Cluster Computing 2000 (NWCC20000), Faculty of Engineering, Thammasat University, Dec. 8, 2000.
2. J. Tippayachai, W. Ongsakul, and I. Ngamroo, "Parallel Micro Genetic Algorithm for Constrained Economic Dispatch", IEEE Power Engineering Review, May 2002, pp. 67.

7. Development project reports

1. ESI Reform in Thailand Report, Electricity Generating Authority of Thailand, Dec. 2004.
2. Thailand Energy and Environment Network (TEENET) Project Report, Energy Policy and Planning Office, June 2005.
3. Weerakorn Ongsakul, Thammarat Koottatep, Chira Achayuthakan and Atitaya Panuvatvanich, Managing Natural Resources and Ensuring Environmental Sustainability, the ASEAN 2030 Project, Asian Development Bank Institute Working Paper, Oct 2012.

8. Non-refereed publications

1. W. Ongsakul and W. Wonglasin, "Unit Commitment and Its Implementation in Thailand," EGAT Journal, vol. 6, no. 1, Jan-Mar. 1997. (in Thai)

9. Patents

10. Invited lectures and keynote addresses

1. Invited Lecturer, Electric Power System and Wind Power in Thailand, Soongsil University, Seoul, May 18, 2005.
2. Invited Lecturer, Reliability and Coordinated Fuzzy Constrained Optimal Power Dispatch in Thailand, The 3rd Workshop of Electrical power Reliability Research Center Workshop, Electrical Power Reliability & Power Research Center, Seoul, May 20, 2005.
3. Invited speaker and session chair, "Implementation of Renewable Energy Sources and Their Technologies in the ASEAN Region" and "Energizing Asia: Policy Update and Decentralized Energy Best practice in Asia", Asian Energy Week, Beijing, China, 4-7 April 2006.
4. Invited Lecturer, Transmission Pricing; ASEAN Power Grid; Evaluation and Finance of DG Projects; Successful Full Scale Demonstration DG Projects, a Training Course in "Regional Energy Planning and Project Management", Mekong Institute, Oct. 10, 2006.
5. Session Chair and Invited Speaker, Future Power Grids, Asian Energy Week, Imperial Queen's Park Hotel, Bangkok, April 23-26, 2007.
6. Invited Resource Person, Regional Policy Formation Meeting Regional Support to Address Social Impacts of Infrastructure Corridors, Mekong Institute, June 14-16, 2007.
7. Invited speaker, "The Impact of Climate Change on the Future Electricity Networks", Asian Energy Week, Kuala Lumpur, Malaysia, 26 - 29 May 2008.
8. Invited Lecturer, "Regional Power Interconnection and Trade in the Greater Mekong Sub-region", A Regional Workshop on Regional Power Interconnection and Trade in the Greater Mekong Sub-region, March 2-20, 2009, GMS Electric Power Technology Exchange and Training Center, Kunming, Yunnan, China.
9. Invited Speaker, "Clean Energy and Climate Change", Initiative on Clean Energy and Environment (ICEE), Hong Kong University, Sept 25, 2009.
10. Distinguished Speaker, Issues Faced by VSPPs and IPPs on How to Get Access to the Grids, Transmission & Distribution/Smart Grids Asia Event, Bangkok, 1-3 December 2009.
11. Keynote Speaker to the "International Conference on Issues and Challenges in Energy Conversion and Management" (ICEM-2009) at Varanasi, India, Varanasi, India, Dec 19-21, 2009.
12. Academic Visitor, Department of Electrical and Computer Engineering of the National University of Singapore (NUS) to deliver a seminar on 'Optimal Hydrothermal Generation

- Scheduling using Self-Organizing Hierarchical PSO' co-organized by Department of Electrical and Computer Engineering and IEEE Power Energy Society, Singapore Chapter, Singapore, Aug 2-4, 2010.
13. Guest of Honor to deliver keynote speech, International Conference on Electrical Power and Energy Systems (ICEPES 2010), Maulana Azad National Institute of Technology, Bhopal, August 25-27, 2010.
 14. Keynote Speaker, "Adaptation Options for Global Climate Change Impacts on Electric Power System," International Conference on Climate Change: Green Summit on Climate Changes – Issues & Concern, St. Ann' College for Woman, Hyderabad, Nov. 10-13, 2010.
 15. Invited Lecturer, Renewable Energy for the Future, An Intensive Workshop on Energy and Environment Sector Cooperation among GMS Countries, Bangkok, May 23, 2011.
 16. Invited Lecturer, ASEAN Energy Needs, ASEAN 2030: Growing Together for Shared Prosperity Workshop on National and Regional Development Issues, ADBI, Kuala Lumpur, June 20-21, 2011.
 17. Invited Speaker, Energy and Environment Special Talk, Myanmar Computer Company Group, Yangon, June 25, 2011.
 18. Invited Lecturer, Managing Natural Resources and the Environment, ASEAN 2030: Growing Together for Shared Prosperity, ADBI, Yogyakarta, Indonesia, July 11-12, 2011.
 19. Invited Speaker, Seminar on Energy and Environment Towards ASEAN 2030, Dept of Electrical and Computer Engineering, Michigan State University, July 29, 2011.
 20. Invited Lecturer, Managing Natural Resources and the Environment, ASEAN 2030: Report Finalization Workshop, Manila, December 14-15, 2011.
 21. Invited Speaker, Workshop on Joint Research Collaboration, Faculty of Engineering, Colorado State University, August 9, 2012.
 22. Invited Speaker and Moderator, Transmission & Distribution, Smart Grids Asia, Kuala Lumpur, Malaysia, Sept 18-19, 2012.
 23. Distinguished Guest and Speaker, Power Generation APAC Summit, Macao, Dec. 3-5, 2012.
 24. Invited Resource Person, Roundtable Discussion on Asian Development Outlook 2013, Special Theme Chapter "Asia's Energy Challenge", Asian Development Bank (ADB) Thailand Resident Mission, Apr 19, 2013.
 25. Invited Speaker, Seminar and Panel Discussion on "Black out: Is Power Shortage Real in Thailand?", Energy Standing Committee, Senate of Thailand, June 28, 2013.
 26. Invited Speaker, A Seminar on "Design of optimal wind farm configuration using a new wind probability distribution map at Huasai district, Southern Thailand", Dept of Electrical and Computer Engineering, Michigan State University, July 17, 2014.
 27. Invited Speaker, "Smart Grid Simulation Modelling in Thailand", German-Thai Technology Conference – Smart Grid Solutions Thailand, Bangkok, Sept 22, 2014.
 28. Invited Keynote/Plenary speaker, The First EAI International Conference on Computer Science and Engineering in Penang Island, Malaysia, Nov 11-12, 2016.

Resource person

1. A Training Workshop on Wind Power and Biomass Generation for Rural Electrification, AIT Center, April 26-29, 2005.
2. Distribution Load Flow, A Training Workshop on Power Distribution System, AIT Center, July 26-29, 2005.
3. UT-AIT Intensive Program on Sustainability: Food and Energy, Horseshoe Point, Chonburi, June 28 – July 9, 2005.
4. Wind Power Potential and Technology Development, A Training Workshop on Reliability Improvement by Distributed Generation, AIT Center, Dec. 6-9, 2005.
5. Asset Management in Power System, A Training Workshop on Power System Reliability in Competitive Environment, AIT Center, Feb. 27-Mar. 1, 2006.
6. Electricity Demand Forecasting, A Training Workshop on Power System Economics and Planning, AIT Center, June 28-30, 2006.
7. UT-AIT Intensive Program on Sustainability, The Greenery Resort, Khaoyai, Aug. 1-12, 2006.
8. Centralized Generation Scheduling in Competitive Environment, A Training Workshop on Electricity Pricing and Risk Management, AIT Center, Nov. 1-3, 2006.

9. Dispersed Generating Systems, A Collaborative Program of AIT, AOTS (Association for Overseas Technical Scholarships) and EHMf (EBARA Hatakeyama Memorial Fund, Japan) on Effective Energy Systems for Sustainable Development International Training Course, AIT Extension, Aug. 21-29, 2006.
10. Operation of Wind Power Generator (Economics and Reliability Aspect), The Seminar on "Development of Wind Energy Utilization in Thailand, AIT Conference Center, July 6-9, 2006.
11. Evaluation and Finance of DG Projects, a Training Workshop on Electricity Pricing and Risk Management, AIT Center, Nov. 1-3, 2006.
12. Sustainable Waste Development Plan: A Case of Samui Island, Thailand, a Training Workshop on Waste Incinerator Power Generation Technology and Management, AIT Center, May 16-18, 2007.
13. Transmission and Distribution Pricing for Distributed Generation, a Training Workshop on Biofuel Technology and Management, AIT Center, September 26-28, 2007.
14. Operational Risk Management in Electric Utilities, A Training Course on Costing in an Electric Utility, AIT Extension, May 26-29, 2009.
15. Panel Discussion on Energy Research and Cooperation, An Intensive Workshop on Energy and Environment Sector Cooperation among GMS Countries, Bangkok, June 4, 2011.
16. Identifying Technical and Institutional Barriers to Effectively Connecting Renewable to the Power Grid, Clean Power Asia, Conference & Expo 2011, June 30, 2011.
17. Lead Discussant, Environment Protection, Regional Seminar on Water Energy Development and Environmental Protection in the Greater Mekong Sub-region, Mekong Institute, Phnom Penh, Mar 21-23, 2012.
18. Environmental Issues of the GMS Countries, International Conference on Energy and Environment Sector Cooperation of the GMS Countries. Foundation for International Human Resource Development, May 21, 2012.
19. Moderator, Technical Seminar, Learn to Live in the World of Change, 2013 Save the World Expo, Impact Muang Thong Thani, Bangkok, Apr 20-22, 2013.

11. Total number of citations to the faculty member's published work, by authors other than himself. Also provide the source of this data.

Total number of SCOPUS citations = 1443
H index = 19 (data as of Oct 31, 2016)

Total number of Google Scholar citations = 2644
H index = 25 (data as of Oct 31, 2016)

B. Research in progress

1. Brief descriptions of current projects

- Optimal design of wind farm configuration using a new wind probability distribution map
- Optimal Reactive Power Dispatch Using Improved Pseudo Gradient Search Particle Swarm Optimization
- Multi-objective Economic Dispatch Using Stochastic Weight Trade-off NSPSO Considering Wind Uncertainty
- Newton Based Particle Swarm Optimization for Optimal Power Flow Problem
- Smart Grid Simulation in Thailand: A Case of Pattaya City
- Multi-Objective optimal multiple V2G and generation scheduling using improved self-organizing hierarchical particle swarm optimization
- Optimal Power Dispatch Formulation for Performance Enhancement of a Radial Hybrid Microgrid

2. Brief descriptions of plans for future projects

- Optimal reconfiguration and DG placement of smart distribution system
- Microgrid system in Energy Park/AIT
- Optimal placement of electric vehicle charging stations

C. Research grants and sponsored projects

1. List of proposals submitted.

- 1 Project Title: Bangchak Green Technology Center@AIT
Position: Principal Investigator with other Energy Co-Investigators
Duration: 5 years
Sponsor: Bangchak PLC
Budget: 50,000,000 Baht
Status: In Process
- 2 Project Title: Optimal Placement of Wind Turbines in the Wind Farm
Position: Principal Investigator
Duration: 1 year
Sponsor: Research and Innovation Fund of PEA
Budget: 1,868,660 Baht
Status: In Process

2. List of research grants and sponsored projects. For each grant and project specify the overhead and faculty time income to the institute.

1. Title Simulation of Thai Power Pool
Position Principal Investigator
Duration July 2001- June 2002
Sponsor AIT Research Initiation Grant
Budget 50,000 Baht
Status Completed
2. Title Electric Power Systems Management Training to Personnel from Laos, Cambodia and Vietnam
Position Principal Investigator
Duration Jan. 2001-Dec. 2007
Sponsor Swedish International Development Cooperation Agency (Sida)
Budget 19,071,361 Baht
Status Completed
3. Project Thailand Energy and Environment Network (TEENET) Project under Regional Energy Resources Information Center (RERIC)
Position Project Manager
Duration Mar. 2002-June 2005
Sponsor National Energy Policy Office
Budget 3,000,000 Baht
Status Completed
4. Project ESI Reform in Thailand
Position Technical Expert
Duration Jan. 2002 – Dec. 2004
Sponsor Electricity Generating Authority of Thailand (EGAT)
Budget 12,000,000 Baht
Status Completed
5. Project Power System Operation and Management Training
Position Principal Investigator
Duration May 2002
Sponsor Electricity Generating Authority of Thailand (EGAT)

	Budget	294,558 Baht
	Status	Completed
6.	Project	Constrained Optimal Power Dispatch for Electricity and Ancillary Services Auctions
	Position	Research Scholar
	Student	Keerati Chayakulkheeree
	Duration	August 2002 – July 2003
	Sponsor	Energy Policy and Planning Office (EPPO)
	Budget	200,000 Baht
	Status	Completed
7.	Project	An Improved Lagrangian Relaxation for Generation Scheduling in Day-Ahead Electricity Market
	Position	Research Scholar
	Student	Nit Petcharaks
	Duration	August 2002 – January 2004
	Sponsor	Energy Policy and Planning Office (EPPO)
	Budget	82,000 Baht
	Status	Completed
8.	Project	Optimal Placement of FACTS Devices in Transmission System in Thailand
	Position	Research Scholar
	Student	Pornrapeepat Bhasaputra
	Duration	August 2003 – July 2004
	Sponsor	Energy Policy and Planning Office (EPPO)
	Budget	72,000 Baht
	Status	Completed
9.	Project	Setting up of National Association for Cogeneration and Decentralized Energy Systems in ASEAN Countries
	Position	Principal Investigator with Dr Mithulananthan Co-Investigator
	Duration	Jan. 12, 2005-March 31, 2006
	Sponsor	EC-ASEAN Energy Facility, ASEAN Center for Energy (ACE)
	Budget	155,957 Euro (50%)
	Status	Completed
10.	Project	Capacity Building in Formulating Harmonized Policy Instruments for the Promotion of Renewable Energy and Energy Efficiency in the ASEAN Member Countries
	Position	Co-Principal investigator with Dr Mithulananthan Principal Investigator
	Duration	Jan. 12, 2005-June 30, 2006
	Sponsor	EC-ASEAN Energy Facility, ASEAN Center for Energy (ACE)
	Budget	155,000 Euro (50%)
	Status	Completed
11.	Project	Transfer of EU Knowledge and Technology for Development of Wind Energy Technology in Thailand
	Position	Co-Principal Investigator with Dr Mithulananthan Principal Investigator
	Duration	Jan. 7, 2006 – Jan 6, 2007
	Sponsor	EU- Thailand Economic Co-operation Small Projects Facility
	Budget	131,500 Euro (57.4%)
	Status	Completed
12.	Project	Training on and Transfer of Efficient EU Technologies in the Sugar Sector in Thailand

	Position	Co-Principal Investigator with Dr Mithulananthan Principal Investigator
	Duration	January 1 – December 31, 2006
	Sponsor	EU-Thailand Economic Co-operation Small Project Facility
	Budget	190,000 Euro (74.97%)
	Status	Completed
13.	Project	GMSARN Research
	Position	Principal Investigator
	Duration	September 2004 – December 2008
	Sponsor	Swedish International Development Cooperation Agency (Sida)
	Budget	300,000 SEK
	Status	Completed
14.	Project	Greater Mekong Sub-region Energy and Environment Network (GMSEENet)
	Position	Principal Investigator
	Duration	Nov. 2006-Oct. 2009
	Sponsor	Royal Thai Government
	Budget	4,200,000 Baht
	Status	Completed
15.	Project	Project to Support Development of Human Resource in Energy to Honor Her Majesty Queen Sirikit on the Auspicious Occasion of Her Majesty's 70 Birthday Anniversary
	Position	Principal Investigator with Prof Surapong Co-Investigator
	Duration	Nov. 2004-Oct. 2008 (from January 2008 onwards)
	Sponsor	Energy Conservation Promotion Fund Ministry of Energy
	Budget	17,752,800 Baht
	Status	Completed
18	Project	Cation Pack Pilot Project
	Position	Principal Investigator
	Duration	March - June. 2008
	Sponsor	Murai Chemical Pack Company Limited
	Budget	1,075,200 Baht (in kind)
	Status	Completed
19	Project	Project to Support Human Resource Development in Energy
	Position	Principal Investigator
	Duration	June 16, 2008- June 2014
	Sponsor	Provincial Electricity Authority (PEA)
	Budget	27,374,000 Baht
	Status	Completed
20	Project	Energy and Environment Partnership in the Mekong Region
	Position	Principal Investigator with other Energy faculty co-Investigators
	Duration	Oct 28-29, 2008
	Sponsor	Ministry of Foreign Affairs of Finland
	Budget	1,027,760 Baht
	Status	Completed
21	Project	Project Project to Support Development of Human Resource in Energy to His Majesty the King BHUMIBOL Adulyadej on auspicious occasion of His Majesty's 80 th birthday anniversary
	Position	Principal Investigator

	Duration	September 29, 2009-September 28, 2013
	Budget	12,753, 200 Baht
	Status	Completed
22	Project	AIT Support to National University of Laos (NUOL), Vientien 2007-2010 (Curriculum Development)
	Position	Co- Principal Investigator and Prof Kumar Principal Investigator
	Duration	September 21, 2009-Dec 2010
	Sponsor	Swedish International Development Cooperation Agency (Sida)
	Budget	3,285,600 Baht
	Status	Completed
23	Project	PEA-AIT International Conference on Energy and Sustainable Development (ESD 2010)
	Position	Principal Investigator with Dr Singh, Dr Salam, Dr Marpaung, and Prof Kumar Co-investigators
	Duration	Sept 2009-June 2011
	Sponsor	Provincial Electricity Authority (PEA)
	Budget	3,994,758 Baht
	Status	Completed
24	Project	GMSARN (International Conference)
	Position	Principal Investigator
	Duration	April 20, 2010-June 30, 2016
	Sponsor	GMSARN
	Budget	4,759,549 Baht
	Status	On-going
25	Project Title:	EEP Mekong Regional Forum 2010
	Position:	Course Coordinator with other Energy faculty
	Duration:	September 1, 2010 to August 31, 2012
	Sponsor:	Embassy of Finland in Bangkok, Thailand (MOFA Finland)
	Budget:	1,120,072.00 Baht
	Status	Completed
26	Project Title:	International Conference on Utilities and Exhibition 2011 (ICUE 2011)
	Position:	Principal Investigator with Dr Singh, Dr Salam, Dr Marpaung, and Prof Kumar Co-investigators
	Duration:	January 1, 2011 to December 31, 2014
	Sponsor:	Registration revenues, sponsorships and grants
	Budget:	1,526,000.00 Baht
	Status:	Completed
27	Project Title:	Conduct, Development Reporting and Training Activities: Smart Grid Simulation Modelling in Thailand
	Position:	Principal Investigator
	Duration:	September 22, 2011 to December 31, 2013
	Sponsor:	World Alliance for THAI Decentralized Energy Association (WADE THAI)
	Budget:	280,000.00 Baht
	Status:	Completed
28	Project Title:	Design and Develop Prototypes of Wind Turbine Controllers
	Position:	Principal Investigator
	Duration:	October 15, 2011 to April 15, 2012
	Sponsor:	Unisearch, Chulalongkorn University
	Budget:	440,000.00 Baht

	Status:	Completed
29	Project Title:	Donation Pledge
	Position:	Principal Investigator
	Duration:	July 27, 2012 to June 26, 2014
	Sponsor:	Dr Subin Pinkayan
	Budget:	1,000,000.00 Baht
	Status:	on-going
30	Project Title:	International Conference on Utilities and Exhibition 2014 (ICUE 2014)
	Position:	Co-Principal Investigator with Dr Shobhakil Principal Investigator, Dr Singh, Dr Salam, and Prof Kumar Co-Investigators
	Duration:	Apr 1, 2013 to Dec 31, 2015
	Sponsor:	Registration revenues, sponsorships and grants
	Budget:	2,211,000 Baht
	Status:	Completed
31	Project Title:	Smart Solar Home Demonstration Project
	Position:	Principal Investigator with Dr Singh and Dr Hien Co-Investigators
	Duration:	Sept 1, 2014 – Aug 30, 2015
	Sponsor:	Industrial Technology Assistance Program (iTap), National Science and Technology Development Agency (NSTDA)
	Budget:	Solar Home Energy Management System Equipment (400,000 Baht equivalent)
	Status:	Completed
32	Project Title:	Service Providing for Local Arrangement and Meeting Support Services to ISGT 2015
	Position:	Principal Investigator with Dr Singh Co-Investigator
	Duration:	Sept 1, 2014 – Dec 31, 2015
	Sponsor:	IEEE PES Thailand Chapter
	Budget:	799,817 Baht
	Status:	Completed
33	Project	50 kW AIT Library Solar PV Rooftop
	Position	Project Manager
	Duration	July 2015 – June 2016
	Sponsor	Energy Absolute PLC
	Budget	788,000 Baht (in kind)
	Status:	Completed
34	Project	PEA-AIT Academic Cooperation Program
	Position	Principal Investigator
	Duration	Feb 15, 2016 – Jan 14, 2020
	Sponsor	Provincial Electricity Authority (PEA)
	Budget	20,212,000 Baht
	Status:	On-going
35	Project	A Project for Sunny Bangchak to Improve the Efficiency of Solar Photovoltaic System
	Position	Principal Investigator
	Duration	Dec 21, 2015 - May 20, 2016 (5 months)
	Sponsor	Bangchak Solar Energy Company Limited (Sunny Bangchak)
	Budget	130,625 Baht
	Status:	On-going

- 36 Project Title: ICUE 2016 Cogeneration, Small Power Plants and District
 Position: Co-Principal Investigator
 Duration: Feb 1, 2016 to June 30, 2017
 Sponsor: Registration revenues, sponsorships and grants
 Budget: 1,502,900 Baht
 Status: On-going
- 37 Project Title: Feasibility Study of Mode Shift from Road to Rail
 Position: Co-Principal Investigator with Dr Surachet Pravinvongvuth
 Duration: Sept 23, 2016 to Sept 22, 2017
 Sponsor: Energy Policy and Planning Office through Unisearch,
 Chulalongkorn University
 Budget: 4,500,000 Baht
 Status: On-going

V. Service/Outreach

A. Professional Service

1. Leadership in policy and program development in professional organizations.

16. Member of Renewable Energy Long Term Planning Committee, Ministry of Energy Jun 2008 – May 2009

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

1. Member, The Engineering Council of Thailand, 2002-Present.
2. Registered member, The National Research Council of Thailand, No. 38-50-0070, 1995-Present.
3. Member, Power System Society, Institute of Electronics and Electrical Engineering (IEEE), No. 01373968, 1995-Present.
4. Student member, Power System Society, Institute of Electronics and Electrical Engineering (IEEE), No. 01373968, 1989-1994.
5. Member, the IEE, No. 85200047, January-December 2006.
6. Member, Steering Committee on Emergency Plan for Power System Blackout and Restoration, Energy Planning and Policy Office, Jan 2012-present.

3. Significant elective or appointed offices held.

1. Member, Subcommittee for Scrutinization of Procurement of Goods and Services, Metropolitan Electricity Authority, Feb 2007–Mar 2008.
2. Executive committee of Power Engineering Society Chapter of IEEE Thailand Section, 2004-2007.
3. Specialist, Energy Standing Committee, Senate of Thailand, May 2008-Apr 2011.
4. Advisor, Executive Committee, IEEE PES Thailand Chapter, IEEE Thailand Section, 2009-present.
5. Advisor, Executive Committee of PEA, Apr 22, 2015– present.

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

Training Workshops:

1. A Training Workshop on Power System Operation and Management, Bang Pakong Training Center, May 12-17, and June 3-7, 2002.
2. A Training Workshop on Power System Planning, Operation and Management, AIT Center, July 1-19, 2002.

3. A Training Workshop on Rural Electrification and Distributed Generation, Energy Program, AIT, August 21-23, 2002.
4. A Training Workshop on Trading and Management in a Liberalized Electricity Market, AIT Center, Oct. 30-Nov. 1, 2002.
5. A Training Workshop on HVDC Transmission and FACTS Technology, Energy Program, AIT, Dec. 11-13, 2002.
6. A Training Workshop on Rural Electrification and Distributed Generation for Sustainable Development, AIT Center, July 9-11, 2003.
7. A Training Workshop on Demand Side Management and Distribution Automation, AIT Center, August 20-22, 2003.
8. A Training Workshop on Power System Operation, Automation and Deregulation, AIT Center, December 1-19, 2003.
9. A Training Workshop on Reforming Electricity Sectors: The Nordic Power Market, AIT Center, March 24-26, 2004.
10. A Training Workshop on Rural Electrification and Distributed Resources, AIT Center, June 21-24, 2004.
11. A Training Workshop on Modern Power System Design, Operation and Automation, AIT Center, Sept. 28-Oct. 1, 2004.
12. A Training Workshop on Renewable Generation and Cogeneration for Rural Electrification, AIT Center, Nov. 30-Dec. 3, 2004.
13. A Training Workshop on Wind Power and Biomass Generation for Rural Electrification, AIT Center, April 26-29, 2005.
14. A Training Workshop on Power Distribution System, Energy/AIT, July 26-29, 2005.
15. A Training Workshop on Reliability Improvement by Distributed Generation, Energy/AIT, Dec. 6-9, 2005.
16. A Training Workshop on Power System Reliability in Competitive Environment, AIT Center, Feb. 27-Mar. 2006.
17. A Training Workshop on Power System Economics and Planning, Energy/AIT, June 28-30, 2006.
18. A Training Workshop on Electricity Pricing and Risk Management, AIT Center, Nov. 1-3, 2006.
19. A Training Workshop on Waste Incinerator Power Generation Technology and Management, AIT Center, May 16-18, 2007.
20. A Training Workshop on Biofuel Technology and Management, AIT Center, Sept. 26-28, 2007.
21. An ICUE 2014 Pre-Conference Training Workshop on Smart Grid and Renewable Energy, Pattaya City, Mar 18, 2014.

Conferences:

1. Conference Organizer, An International Conference on Electric Supply Industry in Transition: Issues and Prospect for Asia, AIT, Jan. 14-16, 2004.
2. Conference Organizer, An International Conference on Energy for Sustainable Development: Issues and Prospect for Asia, Phuket, Mar. 14-16, 2006.
3. Conference Coordinator, A GMSARN International Conference 2006 on Sustainable Development: Issues and Prospects for the Greater Mekong Subregion, AIT, Dec. 6-7, 2006.
4. Conference Coordinator, The Second GMSARN International Conference 2007 on Sustainable Development: Challenges and Opportunities for the Greater Mekong Subregion, AIT, Dec. 12-14, 2007, Ambassador City Jomtien Hotel, Pattaya.
5. Exhibition & Power Engineering Conference 2006 on Power Engineering for Sustainable Development, Rama Gardens Hotel, Bangkok, Nov. 14-15, 2006.
6. Technical Program Co-organizer, An International Conference on Energy Security and Climate Change: Issues, Strategies, and Options (ESCC 2008), Bangkok, August 6-8, 2008.
7. Conference Coordinator, The Third GMSARN International Conference 2008 on Sustainable Development: Issues and Prospects for the Greater Mekong Subregion, Kunming, Nov. 12-14, 2008.
8. Conference Coordinator, The Fourth GMSARN International Conference 2009 on Energy Security and Climate Change: Issues and Problems in GMS, Halong City, Vietnam, Nov. 25-27, 2009.

9. Conference Director, The PEA-AIT International Conference on Energy and Sustainable Development: Issues and Strategies (ESD 2010), Empress Hotel, Chiang Mai, June 2-4, 2010.
10. Conference Coordinator, The 5th GMSARN International Conference on Sustainable Development and Climate Change: Challenges and Opportunity in GMS, The Grand Luang Prabang, Luang Prabang, Loa PDR, November 17-19, 2010.
11. Conference Director, The International Conference and Utilities Exhibition 2011 (ICUE 2011) on Power and Energy Systems: Issues and Prospects for Asia, Pattaya City, Sept 28-30, 2011.
12. Conference Director, The 6th GMSARN International Conference on Social Energy Environmental Development: SEED towards Sustainability, The Grand Paradise, Nong Khai, March 28-30, 2012.
13. Conference Director, The 7th GMSARN International Conference on Green Economy for Energy, Environmental and Social Responsibility, The Prince'D Ankor, Siem Reap, December 19-21, 2012.
14. Conference Director, The 8th GMSARN International Conference on Green Growth in GMS: Energy, Environment, and Social Issues, Mandalay, December 18-20, 2013.
15. Conference Coordinator, The International Conference and Utilities Exhibition 2014 (ICUE 2014) on Green Energy for Sustainable Development, Pattaya City, Mar 19-21, 2014.
16. Conference Director, The 9th GMSARN International Conference on Connectivity and Sustainability in GMS: Energy, Environment and Social Issues, Ho Chi Minh City, Nov. 12-14, 2014.
17. Conference Director, The 10th GMSARN International Conference on Smart Energy, Environment, and Community Development, Phnom Penh, Dec. 16-18, 2015.
18. Conference Director, The 11th GMSARN International Conference on Innovative Energy, Environment, and Development in GMS, Kunming, Nov. 16-18, 2016.

Seminar:

1. A Seminar on Energy for Sustainable Development: Access to Information Resources, Regional Information Resources Center (RERIC), Energy Field of Study, AIT, July 2, 2003.
2. A Seminar on Energy for Sustainable Development: Access to Information Resources, Regional Information Resources Center (RERIC) of Energy Field of Study, AIT Center, Sept. 9, 2003.
3. A Seminar on "Clean Energy and Climate Change", Initiative on Clean Energy and Environment (ICEE), Hong Kong University, Sept 25, 2009.
4. A Seminar at Dept. of Electrical and Computer Engineering, National University of Singapore and IEEE Power Chapter Singapore, September 3, 2010.
5. A Seminar on "Energy and Environment Towards ASEAN 2030", Dept of Electrical and Computer Engineering, Michigan State University, July 29, 2011.
6. A Seminar on "Design of optimal wind farm configuration using a new wind probability distribution map at Huasai district, Southern Thailand", Dept of Electrical and Computer Engineering, Michigan State University, July 17, 2014.
7. A Seminar on "Smart Grid for a Future Power System", Ubonratchathani University, Apr 7, 2016.
8. A Seminar on "Smart Grid for a Future Power System", Nakhon Phanom University, Apr 8, 2016.

Workshop:

1. The Workshop on Formation of Research and Education Projects in the GMS, AIT Center, May 8, 2007.
2. The Second Follow up Workshop on Formation of Research and Education Projects in the GMS, Khon Kaen University, August 10, 2007.
3. The Third Follow up Workshop on Formation of Joint Study Program in GMS, AIT Conference Center, Oct. 18-19, 2007.
4. The Fourth Workshop on Greater Mekong Subregion Energy and Environment Network Knowledge Management Toolkits, National University of Laos, Vientiane, Jul. 24-25, 2008.
5. The Fifth Follow up Workshop on Greater Mekong Subregion Energy and Environment Network Knowledge Management Toolkits, Computer Science and Information Management Building, AIT, Oct 9-10, 2008.
6. A Workshop on Energy and Environment Partnership in the Mekong Region, AIT Conference Center, Oct 28-29, 2008.

7. The 2nd Conference Workshop to Support Development of Human Resource in Energy to Honor Her Majesty Queen Sirikit on the Auspicious Occasion of Her Majesty's 70 Birthday Anniversary, Central Sofitel, March 26, 2009.
8. A Workshop on Joint Research Collaboration, Faculty of Engineering, Colorado State University, August 9, 2012.
9. The 1st Conference Workshop to Support Development of Human Resource in Energy to His Majesty the King BHUMIBOL Adulyadej on auspicious occasion of His Majesty's 80th birthday anniversary, Pullman Hotel, July 26, 2013.

5. Editing or serving on advisory boards of journals

1. Chief Editor, GMSARN International Journal, June 2007-present.
2. Member, Editorial Board of European Transactions on Electrical Power, Feb 2006- Dec 2012.
3. Member, International Advisory Board for International Journal of Energy Optimization and Engineering, (IJEEO), Oct. 16, 2012-present.
4. Member, Editorial Board of Journal of Energy, Hindawi Publishing Corporation, Oct. 18, 2012-present.
5. Member, Editorial Board of International Transactions on Electrical Energy Systems, Feb 2013-Present.

6. Government or international organization panels, expert witness, reports to government or international agencies

1. Greater Mekong Subregion Economic Cooperation Program (GMS) 14th Ministerial Conference, 19-21 June 2007, ADB Headquarters, Manila, Philippines.
2. High Level Forum on Lao-Thai Partnership in Sustainable Hydropower Development, Sept 7, 2007, World Bank, Shangri-La Hotel, Bangkok.
3. Attend the Launch of the Country Partnership Strategy 2007-2011 between the Royal Thai Government and Asian Development Bank, Ministry of Finance, Oct 2, 2007.
4. Chairman, Academic Committee on the Draft Standard on Insulated Wire and Cable for the Transmission and Distribution of Electric Energy, Thai Industry Standard Institute, April 2002-Present.
5. Member, Subcommittee on Studying and Organizing Energy Seminar, Energy Standing Committee, Senate of Thailand, July 2008- Apr 2011.
6. Member, Subcommittee on Impact of Gasoline Price Structure on Production Industry Economics, Commerce and Industry Committee, Senate of Thailand, July 2008- Jan. 2009.
7. Advisor, Subcommittee on Science and Technology in Energy and Environment, Science, Technology, Communication, and Telecommunication Standing Committee, Senate of Thailand, Aug 2008-Apr 2011.

7. Participation in development projects

1. Road show for Setting up of National Association for Cogeneration and Decentralized Energy Systems in Singapore and Indonesia, July 11-14, 2005.
2. Seminar for Capacity Building in Formulating Harmonized Policy Instruments for the Promotion of Renewable Energy and Energy Efficiency in Malaysia, Sept. 6-7, 2005.
3. The Second Consultation Workshop, GMS – Sustainable Development Strategy (GMS –SDS) and an Inception Workshop TA 6289-REG: GMS Core Environment Program (CEP) Phase 1: Component 3 – Environment Performance Assessment (EPA), Imperial Mae Ping Hotel, Chiang Mai, 28-30 May 2007.

B. Significant institute committee service

1. Field-of-Study/Program

1. Member, AIT-EPPO Joint Committee on the Regulation and Selection of Candidates for Scholarships to be Awarded under the Project on Human Resource Development in Energy on HM The Queen's 70th Birthday, Mar. 2005- Oct. 2008.
2. Member, AIT-PEA Steering Committee on PEA-AIT Education Cooperation Project, June 2008-June 2012.
3. Member, AIT-EPPO Joint Committee on the Regulation and Selection of Candidates for Scholarships to be Awarded under the Project on Human Resource in Energy to HM The King BHUMIBOL Adulyadej on auspicious occasion of his Majesty 80^h Birthday, Sept 2009-present.
4. Member, AIT-PEA Steering Committee on PEA-AIT Education Cooperation Project, Feb. 2016-present.

2. School

1. Member, SERD Academic Matters Committee, AIT, Jan. 2002-April 2004.
2. Member, SERD IT Committee, AIT, May-Dec. 2002.
3. Member, SERD Labs Evaluation Panel, AIT, 2001-2003.
5. Member, Task Force for Sida Aqua Outreach Phase IV, 2003.
6. Member, Sida-AIT Steering Committee, AIT, 2002-2003.
7. Member, SERD Promotion Committee, AIT, 2003-2007.
8. Chair, SERD faculty meeting, Sept 2009 – June 2013.
9. Chair, School Management Team, Jan -June 2013.
10. Chair, SERD Promotion Taskforce, Feb 2014-present.

3. Institute

1. Chairman, Task Force to Review Electricity Charging Scheme, Oct 30, 2007-Jan 31, 2008
2. Member, Investment Committee 2008, Jan.-Aug 2008.
3. Member, AIT Budget Committee 2008, Sept-Oct 2007.
4. Member, AIT Budget Committee 2007, Sept.-Oct 2006.
5. Member, Faculty Relations Committee, May 2005-2007.
6. Judge, RTG Joint Research Program in Year 2006, Sept 26, 2005.
7. Member, Bidding Committee of the Upgrading of Substation NO. 1 Project, Oct 14 – Nov. 16, 2005.
8. Member, RTG Budget-Joint Research Project, July 15-16, 2004.
9. Member, Provident Fund Establishment Committee, AIT, May- Dec 2003.
10. Member, AIT Management Team, Sept 2009 - June 2013.
11. Member, Task Force on Revenue Enhancement (TFRE), Apr 28 - June 30, 2013.
12. Member, Task Force on Electricity Rate for AIT residents, June-July 2013.
13. Employee Representative, AIT Provident Fund, 2009-present.
14. Member, Task Force on RTG Master Cooperation Plan 10th (2015-2019) (31 Oct 2013 – Dec 2014)
15. Member, Task Force on Nakhon Nayok Smart Province, Apr 4, 2014 – Dec 31, 2015.
16. Member, NeXUS Task Force, July 21, 15 – June 30, 2016.
17. Member, Doctoral Progress Review Committee, July 1, 2014 – August 12, 2014.
18. Chair, Doctoral Progress Review Committee, August 13, 2014 – June 30, 2016.
19. Member, RTG Scholarship Committee, June 10, 2014 – present.
20. Member, Campus Infrastructure Renovation Committee, Mar 6, 2015 – present.

C. Administrative service

1. Field-of-Study/Program

1. Coordinator, Energy Field of Study, School of Environment, Resources and Development, AIT, Jan. 2008 – Aug. 2009.
2. Coordinator, Energy Field of Study, School of Environment, Resources and Development, AIT, Nov. 2003 – Oct 2005.

3. Coordinator, Electric Power System Management Field of Study, Energy Program, School of Environment, Resources and Development, AIT, Oct. 2001 – Dec. 2002

2. School

Dean of School of Environment, Resources and Development, Sept. 2009 - June 2013.

3. Institute

1. Secretary General, Greater Mekong Subregion Academic and Research Network (GMSARN), May 2006-present.
2. Trustee, Greater Mekong Subregion - Tertiary Education Consortium Trust (GMSTEC), June 5 – Dec. 2006.
3. The 9th Joint Meeting of the GMSARN Board and Council of Advisors, Thammasat University, Lampang Campus, May 4, 2006.
4. The 10th Joint Meeting of the Board and Council of Advisors, Yangon Technological University, Yangon, Myanmar, Dec. 8, 2006.
5. The 11th Joint Meeting of the GMSARN Board and Council of Advisors, Ambassador City Jomtien, Pattaya, Dec. 14, 2007.
6. The 12th Joint Meeting of the GMSARN Board and Council of Advisors, Yunnan University, Kunming, Nov. 14, 2008.
7. The 13th Joint Meeting of the GMSARN Board and Council of Advisors, Hanoi University Technology, Halong City, Nov. 27, 2009.
8. The 2nd Conference Workshop to Support Development of Human Resource in Energy to Honor Her Majesty Queen Sirikit on the Auspicious Occasion of Her Majesty's 70 Birthday Anniversary, Central Sofitel, March 26, 2009.
9. The 14th Joint Meeting of the GMSARN Board and Council of Advisors, National University of Laos, Luang Prabang, Nov. 18, 2010.
10. The 15th Joint Meeting of the GMSARN Board and Council of Advisors, Khon Kean University, Nong Khai, Mar 28, 2012.
11. The 16th Joint Meeting of the GMSARN Board and Council of Advisors, Institute Technology Cambodia, Siem Reap, Cambodia, Dec 19, 2012.
12. Acting Vice President for Resource Development, Asian Institute of Technology, Nov 2012.
13. Acting President, Asian Institute of Technology, Feb 2-12, 2013.
14. AIT Board of Trustees Meeting, Ministry of Foreign Affairs, Feb. 12, 2013.
15. The 17th Joint Meeting of the GMSARN Board and Council of Advisors, Yangon Technology University, Mandalay, Dec 18, 2013.
16. The 18th Joint Meeting of the GMSARN Board and Council of Advisor, Ho Chi Minh City University of Technology, Ho Chi Minh City, Nov 14, 2014.
17. The 19th Joint Meeting of the GMSARN Board and Council of Advisor, Royal University of Phnom Penh, Phnom Penh, Dec. 18, 2015.
18. The 20th Joint Meeting of the GMSARN Board and Council of Advisor, Kunming University of Science and Technology, Kunming, Nov. 18, 2016.

D. Promotion and marketing

1. Energy Program Promotion, SIIT, Feb. 6, 2002; Assumption, Feb. 12, 2002; Khon Kaen, Feb. 13, 2002; Kasetsart, Feb. 21, 2002.
2. AIT promotion, King Mongkut University of Technology Thonburi, Nov. 21, 2002.
3. AIT promotion, Rajabhat Institute Petchburiwittayalongkorn, Sept. 23, 2003.
4. Sida Scholarship promotion for AIT, Lao PDR Embassy, Oct. 9, 2003, Cambodia Embassy, Nov. 14, 2003.
5. Energy Promotion, Faculty of Engineering, Chiang Mai University, Feb 20, 2004.
6. AIT promotion, Lao PDR, April 25-27, 2004.
7. Student interview, AIT Center of Vietnam at Hanoi and Hochiminh City, May 11-13, 2004.

8. AIT-RTG Road Show, Ratchamongala Institute of Technology Nakhon Ratchasima Campus, Nov. 17, 2004.
9. AIT-RTG Road Show, Chiang Mai University, RIT Chiang Mai Campus, Mae Jo University, Dec. 13-14, 2004.
10. To discuss on possible cooperation with RWTH Aachen U. and Kassel U. through DAAD support, Jan 16-29, 2005.
21. To interview EVN applications for SCE & SERD, Hanoi & Ho Chi Minh, Vietnam, May 9-12, 2005.
22. As a speaker for "Electric Power Reliability and Power Quality Research Center" Workshop, Seoul, Korea, May 18-22, 2005.
23. To attend & present papers at St. Petersburg Power Tech 2005 Conference, St. Petersburg, Russia, June 26-July 4, 2005.
24. Workshops on "Implementation of External Development Program at AIT, Nov. 18-23, 2005.
25. To attend the Energy Week Conference & Exhibition, Dec 2-5, 2005.
26. To attend 2005 Region 10 IEEE PES Chapters' Meeting, Bangkok, December 18-20, 2005.
27. To participate an International Conference on "Energy of Sustainable Development: Issues and Prospect for Asia" at Phuket Graceland Resort & Spa, March 1 - 3 March, 2006.
28. Invitation to attend the Asian Energy Week, Beijing, China, Apr 3-8, 2006
29. To attend the Master Plan of Transportation Seminar at Samui Island (Biodiesel full scale demonstration project), Samui Island, Suratthani, July 25-26, 2006.
30. AIT-UT Intensive Program on Sustainability (IPOS), Nakorn Ratchasima, Aug 3-4, 2006.
31. To attend GMSTEC working group meeting, Khonkaen, Aug 27-28, 2006.
32. The 8th Annual General Meeting of the GMSTEC Trust, Yunnan University, Kunming, Aug. 30-Sept. 1, 2006.
33. To attend "The Third IASTED Asian Conference on Power and Energy Systems (AsiaPES2007) Phuket, April 2-4, 2007.
34. To participate the 14th Ministerial Conference on the Greater Mekong Subregion Economic Cooperation Program in ADB Headquarters, Manila, Philippines. June 19-21, 2007.
35. To present the paper at the IEEE Power Engineering Society, the Southern Africa 2007 Conference and Exposition in Africa to be held in Johannesburg, South Africa, from July 16-20, 2007.
36. To organize and participate the Second Follow up Workshop on Formation of Research on Education Project in GMS, Khon Kaen, Aug 9-11, 2007.
37. High Level Forum on Lao-Thai Partnership in Sustainable Hydropower Development, Sept 7, 2007, Shangri-La Hotel, Bangkok.
38. Visit to Kunming University of Science and Technology and Yunnan University, Sept 19-21, 2007.
39. Attend the Launch of the Country Partnership Strategy 2007-2011 between the Royal Thai Government and Asian Development Bank, Ministry of Finance, Oct 2, 2007.
40. Attend the PES Executive Committee and Region 10 Chairs Meeting, Crown Plaza, Beijing, Oct. 22-26, 2007.
41. Energy/SERD/AIT Road Show, Chiang Mai University and Rajamangala University of Technology Lanna, Feb. 8, 2008.
42. Energy/SERD/AIT Road Show, Ubon Rachathani University, Feb. 15, 2008.
43. Energy/SERD/AIT Road Show, Nareasuan University, March 1, 2008.
44. Visit to Guangxi University, Kunming University of Science and Technology and Yunnan University, March 3-8, 2008.
45. Visit to Norwegian University of Science and Technology (NTNU), Trondheim, April 16-19, 2008.
46. To present the paper at the Asian Week Conference 2008 26-29 May at the Kuala Lumpur, Malaysia, May 26-29, 2008.
47. Visit and participate in the first round of discussion at Vishwakarma Institute of Technology, Pune, India, June 17-19, 2008.
48. Promotion visit to Prince of Songkla University Hatyai, June 20, 2008.
49. To present a paper at the 16th Power Systems Computation Conference 2008 (PSCC 2008) in Glasgow, Scotland, 14-18 July 2008
50. To visit Kunming University of Science and Technology (KUST) and to discuss on the 2008 GMSARN International Conference and AIT Board Meeting, Kunming, July 29-Aug 1, 2008.
51. Promotion visit to Universities in Pakistan/Higher Education Commission, August 16-23, 2008.

52. Promotion visit to UNITEN and TNB, Sept 23-26, 2008.
53. To attend the POWER2008 & 2008 IEEE Power India Conference, Delhi, India, Oct 11-16, 2008.
54. Visit to ASEAN Foundation, Jakarta, Oct 22-23, 2008.
55. Visit to ADB Headquarter, Manila, Oct 24, 2008.
56. Energy/SERD/AIT Road Show, Chiang Mai University and Rajamangala University of Technology Lanna, Jan. 29, 2009.
57. Energy/SERD/AIT Road Show, Rajamangala University of Technology Isan and Suranaree University, Jan. 30, 2009.
58. To visit Hanoi University Technology, Vietnam, Feb. 4-6, 2009
59. Energy/SERD/AIT Road Show, Ubon Rachathani University, Feb. 12, 2009.
60. To visit to Ho Chi Minh University Technology, Vietnam, Mar. 12-13, 2009.
61. To have a meeting of International Conference on Sustainability Science in Asia (ICSS-Asia) which will be hold at AIT in 2010, University of Tokyo, Mar. 30-31, 2009.
62. NUOL-Sida/SAREC Annual Progress Review Meeting at NUOL, May 17-18, 2009.
63. To deliver a Seminar on Sustainable Energy Environment, AITCV, Hanoi, May 19, 2009.
64. To discuss possible collaborations between AIT and Chalmer University of Technology and KTH-Royal University of Technology in students exchange and joint research work projects, May 26-31, 2009.
65. To attend the IEEE PES General Meeting, Calgary, Canada, July 23-Aug 3, 2009.
66. To interview the EVN applicants, Hanoi, Vietnam, Aug. 6-7, 2009.
67. To visit the University of Hong Kong, for research collaboration, Hong Kong, Sept 24-26, 2009.
68. Meeting on the proposed AIT Faculty experts' involvement in the Fisheries sector towards the technical implementation of the 4 area that are of interest to the government, Columbo, Sri Lanka, Sept 27-30, 2009.
69. Visit to California Institute of Energy and Environment, University of California, Sacramento, Oct. 21, 2009.
70. Visit to Electric Power Research Institute, Palo Alto, Oct. 22, 2009.
71. Visit to Dept. of Electrical Engineering and Computer Science, University of California Berkeley, Oct 21-22, 2009.
72. Visit to Dept. of Electrical Engineering and Computer Science, University of California Berkley, Oct 21-22, 2009.
73. To discuss the proposed establishment jointly with CEA of an AIT affiliate center offering short term training and 1 year Professional Master program at Colombo, Sri Lanka, Nov 15-17, 2009.
74. To participate the 24th meeting of the HAPUA working group No.8 on Human Resources & HAPUA - JEPIC Symposium, November 18-21, 2009.
75. To participate as keynote speaker to the "International Conference on Issues and Challenges in Energy Conversion and Management" (ICEM-2009) at Varanasi, India, Varanasi, India, Dec 19-21, 2009.
76. To visit Ho Chi Minh City University of Technology, Dalat University and Nam Long University in Vietnam for promoting "Energy and Environment" program and student recruitment to SERD, December 27 -30 2009.
77. To chair Energy Market Operation & Optimization special session of the 3rd Global Conference on Power Control & Optimization and visit University of Queensland, Brisbane, Australia, Jan 31- Feb 6, 2010.
78. To attend the NUOL workshop, Vientien, Feb 11-14, 2010.
79. To recruit students for SERD at Rajabhat Chiang Rai and Rajamangkala University of Technology Lanna, Feb 18-19, 2010.
80. SERD's Promotional visit in HUR, and PVP, Vietnam, Feb 25-26, 2010.
81. To recruit students for SERD at Ubon Ratchathani University and Champasak University, Laos, March 5-6, 2010.
82. SERD's Promotional trip at VSIS, India, April 7-10, 2010.
83. Meeting with Executive Director of ASEAN Foundation and visit Petra Christian University, Institut Teknologi, Jakarta-Surabaya-Petra-Malang-Jember, Indonesia, June 30-July 3, 2010.
84. To discuss research with advisees and have technical visit to the Nord Pool, Oslo, Norway, July 15-16, 2010.

85. Accompanied visit with President to Portcoast Consultant Corp. HCMC, Vietnam, Jul 19-20, 2010.
86. To present the paper at the 2010 IEEE PES General Meeting Minneapolis, Minnesota and visit CAISO at Sacramento, California, July 24-Aug 1, 2010.
87. Invited as guest of honor for the Inaugural ceremony for celebrating its Golden Jubilee Year and deliver a key note speech at International Conference on Electrical Power and Energy Systems (ICEPES) Deli-Bhopal-Mumbai, India, Aug 26-28, 2010.
88. Invited from Department of Electrical and Computer Engineering of the National University of Singapore (NUS) as an academic visitor to discuss the research collaborations and deliver a seminar on 'Optimal Hydrothermal Generation Scheduling using Self-Organizing Hierarchical PSO' co-organized by Department of Electrical and Computer Engineering and IEEE Power Energy Society, Singapore Chapter, Singapore, Aug 2-4, 2010.
89. To promote the Institute through the exhibition 'Thailand Today' organized by Royal Thai Embassy in Kathmandu in Nepal, Kathmandu, Nepal, Aug 23-25, 2010.
90. To organize and attend the EEP Mekong Regional Forum 2010, Vientien, Laos, Oct 25-26, 2010.
91. To deliver keynote address at the International Conference "Green Summit on Climate Change Issues & Concerns", Hyderabad, India, Nov 10-13, 2010.
92. SERD Promotional activities at Khon Kaen University, Khon Kaen, Dec 1-2, 2010.
93. To promote the Institute through the 20th Indonesia Education & Training Expo 2011, Jakarta, Indonesia, Feb 2-4, 2011.
94. Opening of AIT Shanghai Office and promotional visits at Fudan University and Tongji University, Shanghai, PR of China, Feb 23-25, 2011.
95. To discuss the research collaborations NCCR North-South Centre for Development and Environment University of Bern, Switzerland and visit Dresden University of Technology and University of Kassel Germany for PEA student exchange and joint research program, Zurich, Switzerland, Dresden-Kassel, Germany, Mar 7-12, 2011.
96. To attend the 24th Annual Meeting of AIT-VN Council of Advisors, Hanoi, Vietnam, Mar 24-25, 2011.
97. To prepare the 6th GMSARN International Conference 2011, NongKhai, Apr 22-23, 2011.
98. To attend the Fifth Global Conference on Power Control and Optimization (PCO 2011), Dubai, UAE, June 1-3, 2011.
99. To be invited for Workshop on National and Regional Development Issues ASEAN 2030 Study, Kuala Lumpur, June 19-21, 2011.
100. To attend the collaborative meetings coordinated by MCC Group, Yangon, June 24-25, 2011.
101. To be invited for ASEAN 2030: Growing Together for Shared Prosperity Drafting the Report, Yogyakarta, July 10-14, 2011.
102. To participate 2011 IEEE PES General Meeting, Detroit, Michigan, USA, July 23-30, 2011.
103. To interview EVN candidates for SERD, Hanoi, Aug 18-19, 2011.
104. To visit Myanmar for Collaborative Activity Coordinated by MCC group and Myanmar Egress, Yangon, Aug 25-27, 2011.
105. To visit the South Asian Institute of Technology and Management (SAITM) and meet the Chairman to discuss the proposed new SERD UG programs, Colombo, Oct 13-15, 2011.
106. To attend ASEAN 2030: Report Finalization Workshop and Follow up Meeting, Manila, Philippines, Dec. 14-16, 2011.
107. To participate PMAPS 1012 Conference, Istanbul, Turkey, June 9-15, 2012.
108. To prepare the 7th GMSARN International Conference 2012, Siem Reap, Cambodia, Jun 21-23, 2012.
109. To witness MoA signing with SAITM on newly launched joint SERD UG Programs, July 30-Aug 2, 2012.
110. To attend the Sixth Global Conference on Power Control and Optimization (PCO 2012), Las Vegas, Aug 4-11, 2012.
111. To participate as a speaker and moderator at Transmission & Distribution, Smart Grids Asia, Kuala Lumpur, Malaysia, Sept 17-19, 2012.
112. To attend the Special Forum on "Fostering the Young Generation Towards the Brighter Future", Business University Forum of Thailand and Networking Dinner, Pacific Place, Oct 17, 2012.

113. To join as distinguished guest and speaker at the Power Generation APAC Summit, Macoa, Dec. 3-5, 2012.
114. To visit Department of Electrical and Computer Engineering, Texas A&M University to discuss possible collaboration on student exchange and joint research project on smart grid, Dec 29 – Jan 6, 2013.
115. To prepare the 8th GMSARN International Conference 2013 & 17th GMSARN Joint Board and Council of Advisors meeting, Mandalay, Feb 7-9. 2013.
116. To visit Central Phillipines University to discuss on possible collaboration, Feb 13 -15, 2013.
117. To meet with Chairman of SAIMT and Dean of Faculty of Engineering, SAIMT and Feb 19-22, 2013.
118. To discuss on academic partnership and explore areas of collaborative research and academic exchange programs with executives of Sam Higginbottom Institute of Agriculture, Technology & Sciences (SHIATS), Apr 14-17, 2013.
119. To prepare 8th GMSARN International Conference 2013 & 17th GMSARN Joint Board and Council of Advisors Meeting & Interview Myanmar candidates for NMFA scholarships, May 7-11, 2013.
120. To be granted a Royal Audience with HRH Maha Chakri Sirindhorn at the Dusitdalai Pavillion, Chitrlada Palace in Bangkok, 24 July 2013.
121. To prepare the 8th GMSARN International Conference & 17th GMSARN Joint Board and Council of Advisors Meeting, Sept 25-27, 2013.
122. To attend Symposium on Integrated Foresight for Sustainable Economic Development and Eco-Resilience in ASEAN Countries, APEC Center for Technology Foresight (APEC-CTF), National Science Technology and Innovation Policy Office (STI), Banyan Tree Bangkok, Oct 1-2, 2013.
123. To attend Power-Gen Asia as VIP guest, IMPACT Exhibition & Convention Centre, Bangkok, Oct 2-4, 2013.
124. To attend the Region 10 PES Chapters Chairs Meeting and ISGT 2013, Bengaluru, Nov 8 – 14, 2013.
125. To visit Colorado State University for research collaboration, Dec 28-Jan 4, 2014.
126. To discuss the 17th GMSARN Board meeting and 9th GMSARN International Conference, Ho Chi Minh University of Technology, Jan 23-24, 2014.
127. To promote curriculum and RTG scholarships, Chiang Mai University and RMUT Lanna, Feb 6-7, 2014.
128. To be a visiting scholar at Dept of Electrical and Computer Engineering, Michigan State University to conduct research on smart grid, July 5 – 19, 2014.
129. To visit College of Engineering, Colorado State University to discuss joint research projects on bio-energy and smart grid, July 20 – 22, 2014.
130. To visit Energy Research Laboratory, Mexico State University to discuss joint bio-energy research projects, July 23 – 25, 2014.
131. To attend the IEEE PES GM 2014 Conference, Washington DC, July 27-31, 2014.
132. To promote the 17th GMSARN Board meeting and 9th GMSARN International Conference, Hochi Minh University of Technology, Aug 23-24, 2014.
133. To represent SERD and promote academic program at AIT day in Myanmar, Jan 14-16, 2016.
134. To visit and discuss cooperation with DNVGL, NUS Center of Energy Research Technology and Energy Research Institute at NTU, Jan 21-22, 2016.
135. To promote RTG scholarships and visit Mekong Institute and Khon Kaen University, Mar 9-10, 2016.
136. To arrange the 11th GMSARN International Conference 2016 & 20th GMSARN Joint Board and Council of Advisors Meeting, Mar 17-20, 2016.
137. The promote RTG scholarship at Ubonratchathani University and Nakon Phanom University, Apr 7-8, 2016.
138. To attend the Conference on Climate Change, Biodiversity and Ecosystem Service for the Sustainable Development Goals: Policy and Practice, June 27-29, 2016 at the Sirindhorn International Environmental Park, Cha-am, Phetchaburi Province.
139. To attend the exhibition of CIGRE, Paris during July 21-28, 2016 on behalf of the IEEE Power and Energy Society (IEEE PES) Thailand.

140. To deliver keynote/plenary speech, The First EAI International Conference on Computer Science and Engineering in Penang Island, Malaysia, Nov 11-12, 2016.
141. To represent IEEE PES Thailand Chairman in the R-10 Chapter Chairs Meeting at Melbourne, Australia, during Nov. 27- Dec. 2, 2016.

E. Community service

1. Consulting activities

1. Consultant, Energy Management System Section, Control Center Technology Department, System Control and Operation Division, Electricity Generating Authority of Thailand (EGAT), Jan. 1995 - Sept. 2004.
2. Consultant, Asian Development Bank Institute (ADBI), June 2011-Oct 2012.

2. Serving on program committees

1. The Research and Development Journal of the Engineering Institute of Thailand, Advisory Editorial Board Member. 1998-1999.
6. Technical Committee Member, The 12th Conference of the Electric Power Supply Industry (CEPSI), Pattaya, Thailand, Nov. 2-6, 1998.
7. Member, Publication Reviewing Committee, Faculty of Engineering, Thammasat University, April 2001- Mar. 2003.
8. Session Chair, Power System Planning and New Developments II, The IASTED International Conference on Power and Energy Systems, Crete, Greece, June 25-28, 2002.
9. Program Committee, The National Workshop on Cluster Computing 2003 (NWCC2003), AIT, March 10, 2003.
10. International Advisory Committee Member, International Conference on Power Systems: Challenges to Electric Utilities in the New Millennium, Kathmandu, Nepal, Sept 22-25, 2004.
11. Moderator, Technical Seminar on Current Issues and Problems in Distributed Generation, organized by PES Chapter of IEEE Thailand Section and PEA, PEA Main Office, Bangkok, September 30, 2003.
12. Vice-Chairman, Technical Session on National Programs, Policies & Economics 6, 14th International Photovoltaic Science and Engineering Conference – PVSEC14, Chulalongkorn University, January 26-30, 2004.
13. External Reviewer, Undergraduate Curriculum for 2004, Electrical Engineering Department, Faculty of Engineering, Chulalongkorn University, December 2003-January 2004.
14. Technical program member, IEEE TENCOM 2004, Chiang Mai, November 21-24, 2004.
15. Moderator, Technical Seminar on University Research Activities on Power Engineering, organized by PES Chapter of IEEE Thailand Section, Faculty of Engineering, Chulalongkorn University, June 25, 2004.
16. Research Scholar, Optimal Power Flow Considering Fuzzy Constraints, Faculty of Engineering, Sripatum University, Oct. 2004 – Sept 2005.
17. Member of the International Program Committee (IPC), the IASTED International Conference on Power and Energy Systems (AsiaPES 2007), Phuket, April 2-4, 2007.
18. Moderator, Discussion on Energy Project Development in Thai Sugar Sector, First Seminar and Training on Energy Project Development in the Sugar Sector in Thailand and Site Visit, 6-8 September 2006, Arnoma Hotel, Bangkok.
19. Session Chairs: "Mega Projects on Generation, Transmission, and Distribution in Thailand" and "Renewable Power Generation Planning in Thailand", Exhibition & Power Engineering Conference 2006 on Power Engineering for Sustainable Development, Bangkok, Nov. 14-15, 2006.
20. Session Chair: "Energy Efficiency", Seminar on Energy Research for Sufficiency Economy, Energy Policy and Planning Office, Dec. 13-14, 2006, Bangkok.
21. Session Chair, Future Power Grids, Asian Energy Week, Imperial Queen's Park Hotel, Bangkok, April 23-26, 2007.
22. Member, Organizing Committee, Electrical and Electronics Engineering for Sustainable Development, Rama Garden, Bangkok, Nov. 2, 2007.

23. Session Chair, The IEEJ-EIT Joint Symposium on Advanced Technologies in Power Systems, Rama Garden Bangkok, Nov. 19-20, 2007.
24. Technical Program Co-organizer, An International Conference on Energy Security and Climate Change: Issues, Strategies, and Options (ESCC 2008), Bangkok, August 6-8, 2008.
25. Member, ICSS-Asia International Organizing Committee, International Conference on Sustainability Science (ICSS) 2009, AIT, Nov. 23-24, 2009.
26. Member, International Program Committee, The Fifth Global Conference on Power Control and Optimization, Dubai, June 1-2, 2011.
27. Session Chairman, Connecting Renewable to the Grid/Renewable Integration, Clean Power Asia Conference & Expo 2011, InterContinental Bangkok, June 28-30, 2011.
28. Member, The Fourth International Conference on Electric Utility Deregulation and Restructuring and Power Technologies (DRPT), Weihai, Shandong, July 6-9, 2011.
29. Member, International Program Committee, The Sixth Global Conference on Power Control and Optimization, Las Vegas, August 6-8, 2012.
30. Member, International Steering Committee, 2nd International Festival of Science, Technology, Engineering and Mathematics (STEMfest), 27th September to 3rd October 2015, Saskatoon Canada.
31. Organizing Chair, The IEEE Innovative Smart Grid Technologies Conference (ISGT) Asia 2015, Bangkok, Nov 3- 6, 2015.

3. Refereeing of journal articles, books, grant proposals, etc.

1. Reviewer, International Journal of Electrical Power & Energy Systems, 2000-Present.
2. Reviewer, IEEE Transactions on Power Systems, Nov. 2001-Present.
3. Reader, Research Proposal Reviewing Committee, Faculty of Engineering, Thammasat University, July 2001- June 2003.
4. Member, Publication Reviewing Committee, Faculty of Engineering, Thammasat University, April 2001- Mar. 2003.
5. External Reviewer, Ministry of University Affairs-Thailand Research Fund New Researchers Grant, March 2003-present.
6. Reviewer, International Journal of Power and Energy Systems, March 2003-Present.
7. Reviewer, ASEAN Journal on Science & Technology for Development, April 2003 – Present.
8. Reviewer, IEE Proceedings Part C – Generation, Transmission, and Distribution, Sept. 13 – Present.
9. Reviewer, Electric Power Systems Research Journal, Oct. 2005- present.
10. Reviewer, International Energy Journal, Nov. 2004-present.
11. Reviewer, International Journal of Engineering Intelligent Systems, Sept 15-present.
12. Reviewer, Power Systems Computation Conference (PSCC) 2008, Glasgow, Scotland, 14-18 July 2008.

4. Serving as external examiner

1. External Reviewer, Undergraduate Curriculum for 2004, Electrical Engineering Department, Faculty of Engineering, Chulalongkorn University, December 2003-January 2004.
2. External Examiner, Wachirasak Phisitsangkakool, The Formation of an Alternating Current from a Multiple Voltage Direct Current Source Using Switching Technology Instead of an Inductive Inverter, M. Phil. Thesis, The Joint Graduate School of Energy and Environment, King Mongkut's University of Technology Thonburi, Feb.-Mar. 2003.
3. Member, Board of Examiners, Mr. Doolla Suryanarayana, Indian Institute of Technology, Delhi, August 2006.
4. External Examiner, Faculty of Engineering, University Technology Sydney, Dec. 2007.
5. External Examiner, Faculty of Engineering, University Technology Sydney, Dec 2011.
6. External Examiner, Kazi Nazmul Hasan entitled "Investigation of cost benefit and regulatory issues of large scale renewable power integration to a remote transmission grid, School of Information and Electrical Engineering, University of Queensland, June-July 2013.

7. External Examiner, Marwan Marwan entitled "Smart Grid-Demand Side Response Model to Mitigate Prices and Peak Impact on the Electrical System", School of Power Engineering, Science and Engineering Faculty, Queensland University of Technology, Aug-Sept 2013.

VI. Ability to Cooperate

AIT attaches great significance to the ability to co-operate. This includes the capacity to work jointly with colleagues and superiors.

1. Joint research activity.

As a Conference Coordinator of the International Conference on Utilities and Exhibition 2014 (ICUE 2014), and International Conference on Utilities and Exhibition 2016 (ICUE 2016), I have worked closely with faculty in Energy Field of Study.

As a GMSARN Secretary General, I have worked with Prof. Worsak Kanok-Nukulchai, President, Prof Kanchana Kanchanasut, Former Vice President for Resource Development, Dr. Rajendra Shrestha from Natural Resources Management Field of Study, Dr. Thammarat Kootatep from Environment and Engineering Management Field of Study, Dr. Vilas N from Urban Environmental Management. Dr Wanpen Wirojanagud, Khon Kean University, and Dr Vo Ngoc Dieu, HCMUT.

As an organizing chair of The IEEE Innovative Smart Grid Technologies Conference (ISGT) Asia 2015, Bangkok, Nov 3 - 6, 2015, I am partnering with other universities, smart grid industry, and electric utilities in providing the international forum for academic and research exchange in Asia through keynote speech, panel discussion, paper presentation, tutorial, and exhibition. More than 500 participants attended this ISGT 2015 Asia.

As a project principal investigator of Smart Solar Home Demonstration Project, the funding of Home Energy Management System is through Industrial Technology Assistance Program (iTAP), National Science and Technology Development Agency (NTSDA). iTAP is an industrial technology support program for SMEs to help them meet the challenges in introducing technology-based products and processes.

2. Joint pedagogical activity.

For GMSARN research and education projects, the Master Degree program in Sustainable Development in GMS has been developed. The GMS degree program gears toward solving common and trans-boundary problems faced in the GMS Based on a series of workshops, four new courses including (1) Energy, Environment, and Climate Change: Issues and Solutions for Green GMS (2) Cross Border Mobility and Migration in GMS (3) Industry and Urban Development Issues in GMS and (4) Cross-Cultural Studies and ICT in GMS have been developed. These new courses will be jointly offered by the GMSARN member Institutions. The new degree program were launched in 2009, 2010, and 2011. I have worked with Dr. Kyoko Kusakabe from Gender Development Study for developing these four new joint courses.

3. Interaction with the public and private sectors.

As a PEA-AIT Education project principal investigator, AIT has interacted with Provincial Electricity Authority (PEA) through 20 Master and 4 Doctoral scholarships to study in Electric Power System Management, Energy Technology, Energy Policy, Planning, and Economics, Computer Science, Telecommunications, Information Management, and MBA in Energy Business and Human Resource, AIT during 2016-2020. In addition, students had their internships for 3-6 months in either Europe, North America, or Australia with partner universities and research institutions. Students would undertake research which is problem oriented in PEA, which is the largest distribution utility in Thailand.

As a GMSARN Secretary General, I have organized the 9th-20th Joint Meeting of the GMSARN Board and Council of Advisors in 2006-2016, and the 1st-11st GMSARN International Conference in AIT, Pattaya, Kunming, Halong Bay, Luang Prabang, Nongkhai, Siem Reap, Mandalay, Ho Chi Minh City, Phnom Penh, and Kunming. KUST, HUST, HCMCUT, NUOL, KKU, UBU, ITC, YTU, HCMCU have co-hosted GMSARN Board and Council of Advisors meetings and co-organized the conferences.

The current 14 GMSARN members includes Thammasat University, Khon Kean University, Yangon Technology University, National University of Laos, Kunming University of Science and Technology, Yunnan University, Guangxi University, Khon Kaen University, Institute of Technology Cambodia, Royal University of Phnom Penh, Hanoi University Technology, Ho Chi Minh City University of Technology, Ubon Rajathani University and Nakhonphanom University. In addition, one GMSARN associate member is Mekong River Commission.

VII. Personal Statement

The personal statement provides an opportunity to highlight aspects of the research, pedagogy, and service record that may not be obvious from the more objective parts of this document. It may also be used to point to aspects in the case that may require particular care in the evaluation process. It should be used to provide insight into the research record by discussing the significance of each scholarly piece of work and their connection to each other. It should also be used to discuss the overall teaching record and the steps taken to improve the quality of teaching in response to feedback.

I graduated from Chulalongkorn University, Thailand with a Bachelor's degree in Electrical Engineering (EE) in 1988, Master and PhD degrees in EE from Texas A&M University in 1991 and 1994, respectively. Prior to joining AIT in January 2001, I was working at Sirindhorn Institute of Technology (SIIT), Thailand since 1995 as Lecturer, Assistant Professor, and Associate Professor and as a Chairperson and Head, School of Electrical Engineering and Information Technology. I served two years as Assistant Professor (2001-2002), and was an Associate Professor of Energy FoS since January 2003. I was also the Coordinator of the Electric Power System Management (EPSM) during October 2001 – December 2002, and was the Coordinator of the Energy FoS during November 2003 – October 2005. I was an Energy FoS Coordinator again during January 2008 – August 2009. During September 2009 - June 2013, I served as a Dean of School of Environment, Resources and Development for two consecutive terms.

For my teaching load, I have been teaching a standard teaching load of 3-4 courses per year (9-10 credits). Currently, I am supervising 6 doctoral students, 9 master students, and a member of thesis committee of 6 doctoral and 8 master students. Fifteen (15) doctoral and eighty-nine (89) masters AIT students have graduated under my supervision.

In the last 4 years (2013-2016), I have published two (2) book/monograph, three (3) book chapters and twenty-one (21) articles in international-refereed journals. In addition, I have thirty-two (32) papers in conference proceedings and one (1) development research project report. I delivered sixteen (16) keynote address/special lectures during the same period. The SCOPUS database show One thousand three hundred and forty seven (1347) citations (excluding self-citation to my published work) and an h-index of nineteen (19) (*data as of 31 Oct 2016*). The google scholar citation indicated a total of 2644 and an index of twenty five (25) (*data as of 31 Oct 2016*).

For my entire career, my total publication record is as follows: i] seventy-nine (79) articles in international-refereed journals, ii] one (1) article in a regional journal, iii] two(2) articles in national journals, iv] two (2) book/monograph, v] five (5) book chapters, vi] one hundred and thirty six (136) papers in conference proceedings vii] two (2) papers in workshops, viii] three (3) development/research project reports and ix] a total of thirty (30) keynote addresses/special lectures.

In the area of student research supervision, I have graduated fifteen (15) doctoral students (14 as Chair and 1 as Co-chair) and a total of eighty-nine (89) master's students (as chair). Currently, I am supervising six (6) doctoral students and nine (9) master's students (as chair).

In terms of contracted and sponsored research projects, I have been PI or Co-PI of a total of 37 sponsored projects with contribution in terms of scholarships, overhead and faculty time of more than 80 million Baht. I am currently involved in six (6) (which consist of 3 research projects and 3 capacity building sponsored projects (conference/training/scholarship/donation)).

In terms of services, I have involved in the Field of Study, the School, and the Institute level committees (as member) which include the following: i] Chair, SERD faculty meeting (Sept 2009- June 2013), ii] Chair, School Management Team (Jan – June 2013), iii] Chair, SERD Promotion Taskforce (Feb 2014- present) iv] member, AIT Management Team (Sept 2009 – June 2013), v] Employee Representative, AIT Provident Fund (2009 – present), vi] member, Task Force on Revenue Enhancement (TFRE) (Apr – June 2013), vii] member, Task Force on Electricity Rate for AIT residents (June – July 2013), viii] member, Task Force on RTG Master Cooperation Plan 10th (2015 – 2019) (Oct 2013 – Dec 2014), ix] member, Task Force on Nakhon Nayok Province (Apr 2014 – Dec 2015) x] Chair, Doctoral Progress Review Committee (Aug 2014 – June 2016) xi] member, AIT-PEA Steering Committee on PEA-AIT Education Cooperation Project (June 2008 – June 2012) and xii] member, AIT-EPPO Joint Committee on the Regulation and Selection of Candidates of Scholarships awarded under the Project on Human Resource in Energy to HM The King BHUMIBOL Adulyadej on the occasion of His Majesty's 80th Birthday (Sept 2009 – May 2016), xiii] Member, NeXUS Task Force, July 21, 15 – June 30, 2016. xiv] Member, RTG Scholarship Committee, (June 10, 2014 – present). xv: Member, Campus Infrastructure Renovation Committee, Mar 6, 2015 – present. xvi] member, AIT-PEA Steering Committee on PEA-AIT Education Cooperation Project (Feb 2016 – present).

In terms of administrative service, I served/serving in various capacities which include amongst others as Dean of SERD (Sept 2009 – June 2013), Coordinator of the Energy FoS (Jan. 2008 – Aug. 2009), Secretary General of the Greater Mekong Sub-region Academic and Research Network (GMSARN) (May 2006 – present). I contributed in the promotion of AIT through my participation in promotion activities and promotional trips of the Institute and the School to Cambodia, China, Hong Kong, India, Indonesia, Japan, Lao PDR, Malaysia, Myanmar, Nepal, Philippines, Singapore, Sri Lanka, Vietnam, Dubai, Turkey, Australia, Canada, USA, Norway, and Sweden. In terms of my community and professional service, I am currently a member of the following professional bodies, Institute of Electronics and Electrical Engineering (IEEE), and the Steering Committee on Emergency Plan for Power System Blackout and Restoration, Energy Planning and Policy Office (Jan 2012 – present). I served as a Specialist for the Energy Standing Committee of the Senate of Thailand (May 2008 – Apr 2011) and a member of Renewable Energy Long Term Planning Committee of the Ministry of Energy (Jun 2008 – May 2009), a consultant of Asian Development Bank Institute (ADB) during (June 2011-Oct 2012). I also served in government/international organization panels and government agencies namely. i]the Academic Committee on the Draft Standard on Insulated Wire and Cable for the Transmission and Distribution of Electric Energy, Thai Industry Standard Institute (Chairman, Apr 2002 – present), ii] Sub-committee on Studying and Organizing Energy Seminar of the Energy Standing Committee, Senate of Thailand (member, July 2008 – Apr. 2011) and iii]Subcommittee on Impact of Gasoline Price Structure on Production Industry, Economics, Commerce and Industry Committee, Senate of Thailand (member, July 2008 – Jan. 2009)and iv] the Subcommittee on Science and Technology in Energy and Environment, Science, Technology, Communication, and Telecommunication Standing Committee, Senate of Thailand (Advisor, Aug 2008 – Apr 2011). I have contributed as a member of the Organizing Committee, i] International Conference on Sustainability Science (ICSS) 2009, ii] the fifth Global Conference on Power Control and Optimization (Dubai, June 1-2 2001), iii] the Fourth International Conference on Electric Utility Deregulation and Restructuring and Power Technologies (DRPT), (Weihai, Shandong, July 6-9, 2011), and iv] the Sixth Global Conference on Power Control and Optimization, Las Vegas, in August 2012. I was session Chairman of the Connecting Renewable to the Grid/Renewable Integration, Clean Power Asia Conference & Expo 2011, Bangkok in June 2011. I am also an Organizing Chair, the IEEE Innovative Smart Grid Technologies Conference (ISGT) Asia 2015, Bangkok (Nov 2015).

I am in 5 advisory Boards/Editorial Boards, namely, i] GMSARN International Journal (Chief Editor, since June 2007), ii] the European Transactions on Electrical Power (member, Feb 2006 - Dec 2012), iii] the International Journal of Energy Optimization and Engineering, (member, since Oct. 2012). iv] Journal of Energy, Hindawi Publishing Corporation, (member, since Oct., 2012). v] the International Transactions on Electrical Energy Systems, (member, since Feb 2013). I reviewed manuscripts/articles for a number of scientific/academic journals which include amongst others, the International Journal of Electrical Power & Energy Systems, IEEE Transactions on Power Systems, the International Journal of Power and Energy Systems, the ASEAN Journal on Science & Technology for Development, the IET Proceedings Part C – Generation, Transmission, and Distribution, the Electric Power Systems Research Journal, The International Energy Journal and International Journal of Engineering Intelligent Systems, Likewise, I served as an external examiner for a student from the Faculty of Engineering, University Technology Sydney, Australia (2007 & 2011), a student from School of Information and Electrical Engineering, University of Queensland, Australia (2013), a student from School of Power Engineering, Science and Engineering Faculty, Queensland University of Technology, Australia (2013).

My core area of expertise is in Artificial Intelligence in Power Systems. I have published a large number of international journal refereed journal and two books entitled "Artificial Intelligence for Power System Optimization" published by Taylor & Francis. Accordingly, I strongly believe that I have clearly demonstrated my academic leadership both within AIT and International stage for professorship.

CERTIFICATION:

I, the undersigned, certify that, to the best of my knowledge and belief, these biodata correctly describe myself, my qualifications and my experience. I understand that any willful misstatement described herein may lead to my disqualification.

SIGNATURE: _____

DATE: _____
Day / Month / Year

Appendix: Financial Productivity
(For AIT internal use only)

For each year since the last contract renewal, show:

1. the revenue generated from teaching and from student research supervision. This is to be calculated by multiplying the enrollment by the number of credit hours by the fee per credit hour.
2. the revenue generated from overhead to the Institute from sponsored projects, training, and consultancy. For projects with multiple PIs, the overhead should be divided by the number of PIs.