

CURRICULUM VITAE

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NATIONALITY: Thai

EDUCATION:

D.Eng. (Energy Economics and Planning), Asian Institute of Technology (AIT), Thailand.
M.Eng. (Energy Technology), Asian Institute of Technology (AIT), Thailand.
B. Eng. (Mech. Eng., 1st class honors), King Mongkut's Institute of Technology North Bangkok.

GENERAL AREA OF SPECIALIZATION:

Energy technology in buildings & industry, Energy analysis and forecasting, Energy efficiency (EE) in buildings, industries and transport, Renewable energy (RE) technology, Demand-Side Management (DSM), Integrated Resource Planning (IRP), Least-cost electricity generation expansion planning, Greenhouse gas GHG mitigation in the energy system, Energy security, Energy-environment system modeling, Low-carbon/Low Emission technology & management.

SPECIFIC AREA OF SPECIALIZATION IN CLIMATE CHANGE:

GHG reduction & GHG Inventory (energy system), Low-carbon/Low Emission technology & management, Renewable energy, Energy efficiency, Co-benefits of GHG mitigation, Energy-environment system modeling, Impact assessment of GHG mitigation.

WORK EXPERIENCES:

- Present Head, Manufacturing System and Mechanical Engineering School, SIIT-TU
2012-2015 Co-ordinator, Sustainable Energy and Low Emissions research unit, SIIT-TU

2012-2014 General Member, TU Faculty Senate
2006-2012 Member by SIIT Representative, TU Faculty Senate
2004-2011 Associate Professor, Co-ordinator, Mechanical Engineering Program

2003-2004 Associate Professor, Chairperson, Mechanical Engineering Program
2001-2002 Deputy Chairperson, Energy Technology Program
Associate Professor, Sirindhorn International Institute of Technology (SIIT), TU.

1996-2000 Deputy Chairperson, Mechanical Engineering Program, and
Assistant Professor in Mechanical Engineering,

TEACHING EXPERIENCES (graduate and undergraduate levels): Energy and Environment, Engineering Mathematics, Thermal Energy Laboratory I and II, Engineering Drawing, Thermofluids Engineering, Thermodynamics, Advanced Thermodynamics, Fluid Mechanics, Heat Transfer, Engineering Measurements, Refrigeration, Air-Conditioning Engineering, Air-Conditioning System Designs, Design of Thermal Systems, Mechanics of Solids, Renewable Energy Sources, Computer Aided Design, Passive Cooling in Buildings, Energy Demand Analysis and Forecasting & Power System Planning, Greenhouse Gas Emissions from Energy System, and Economic of Power Generation, Thermal Energy Management, Energy Management in Buildings, Integrated Resource Planning & Least-Cost Electricity Generation for Mitigating Emissions from the Power Sector, Power Generation and Air Pollutions, Environmental Control Engineering, Power Plant Engineering, Energy Economics.

PUBLICATIONS: (only the last 5 years)

JOURNALS & CONFERENCES

1. S. Tamsanya, S. Chungpaibulpatana and B. Limmeechokchai (2009), "Development of a Driving Cycle for the Measurement of Fuel Consumption and Exhaust Emissions of Automobiles in Bangkok During Peak Periods", *International Journal of Automotive Technology*, Vol.10, No.2, pp.251-264.
2. Suthathip Suanmali1 and Bundit Limmeechokchai (2009), "Assessment of Policy on Promotion of Ethanol and Bio-diesel in Thailand: A Study of the Input-Output Analysis", *World Renewable Energy Congress 2009 – Asia, The 3rd International Conference on "Sustainable Energy and Environment (SEE 2009)*, May 2009, Bangkok, Thailand.
3. Pornphimol Winyuchakrit and Bundit Limmeechokchai (2009), "Decomposition Analysis of CO₂ Emissions in Thai Household Sector by Logarithmic Mean Divisia Index", *World Renewable Energy Congress 2009 – Asia, The 3rd International Conference on "Sustainable Energy and Environment (SEE 2009)*, May 2009, Bangkok, Thailand.
4. Kong Pagnarith and Bundit Limmeechokchai (2009), "Vulnerability of oil dependence in the power sector in Cambodia", *World Renewable Energy Congress 2009 – Asia, The 3rd International Conference on "Sustainable Energy and Environment (SEE 2009)*, May 2009, Bangkok, Thailand.
5. Kamphol Promjiraprawat and Bundit Limmeechokchai (2009), "Peak Load Forecasting using Machine Learning Approaches", *World Renewable Energy Congress 2009 – Asia, The 3rd International Conference on "Sustainable Energy and Environment (SEE 2009)*, May 2009, Bangkok, Thailand.
6. Prachuab Peerapong and Bundit Limmeechokchai (2009), "Performance improvement of bagasse-based cogeneration plant through energy and exergy analysis", *World Renewable Energy Congress 2009 – Asia, The 3rd International Conference on "Sustainable Energy and Environment (SEE 2009)*, May 2009, Bangkok, Thailand.
7. Artite Pattanapongchai and Bundit Limmeechokchai (2009), "Energy Efficiency Improvement and CO₂ Mitigation in the Power Sector of Thailand: Analysis of Renewable and Nuclear Power with MARKAL Model", *World Renewable Energy Congress 2009 – Asia, The 3rd International Conference on "Sustainable Energy and Environment (SEE 2009)*, May 2009, Bangkok, Thailand.
8. Manwad Chokesuwatanaskul, Apichat Praditsmanont, Chakguy Prakasvudhisarn and Bundit Limmeechokchai (2009), "HVAC's Chilled Water Flow and Temperature Prediction for Building in Tropical Zone", *World Renewable Energy Congress 2009 – Asia, The 3rd International Conference on "Sustainable Energy and Environment (SEE 2009)*, May 2009, Bangkok, Thailand.
9. Muhammad Ery Wijaya and Bundit Limmeechokchai (2009), "Demand Side Management Options in the Household Sector through Lighting Efficiency Improvement for Java-Madura-Bali Islands in Indonesia", *World Renewable Energy Congress 2009 – Asia, The 3rd International Conference on "Sustainable Energy and Environment (SEE 2009)*, May 2009, Bangkok, Thailand.
10. Jakapong Pongthanaisawan, Chumnong Sorapipatana and Bundit Limmeechokchai, "Road Transport Energy Demand Analysis and Energy Saving Potentials in Thailand", *Asian Journal of Energy & Environment*, Vol. 8, Issue 1 and 2, pp. 49-72.
11. Muhammad Ery Wijaya and Bundit Limmeechokchai (2009), "Supply Security Improvement of Long Term Electricity Expansion Planning in Java-Madura-Bali System in Indonesia", *Thammasat Int. J. Sc. Tech.*, Vol. 14, No. 4, October-December 2009.
12. Prachuab Peerapong and Bundit Limmeechokchai (2009), "Exergetic and Thermo-economic Analyses of the Rice-Husk Power Plant in Thailand", *The 1st International Conference on the Utilization of Rice Husk and Rice Husk Silica (RHAsia2009)*, September 21-22, 2009, Faculty of Science, CU.

13. Kong Pagnarith and Bundit Limmeechokchai (2009), "Biomass and Solar Energy for Rural Electrification and CO₂ mitigation in Cambodia", *IIRE International Journal of Renewable Energy*, Vol.4 No.2 (July – Dec. 2009).
14. Muhammad Ery Wijaya and Bundit Limmeechokchai (2009), "Optimisation of Indonesian Geothermal Energy Resources for Future Clean Electricity Supply: A Case of Java-Madura-Bali System", *IIRE International Journal of Renewable Energy*, Vol.4 No.2 (July – Dec. 2009).
15. Prachuab Peerapong and Bundit Limmeechokchai (2009), "Energy and Economic Analysis of 1.4 MW Steam-Fired Rice Mill Cogeneration in Thailand", *IIRE International Journal of Renewable Energy*, Vol.4 No.2 (July – Dec. 2009).
16. Pattanapongchai A. and Limmeechokchai B. (2009), "Comparison of the future power plants competitiveness in Thailand utilizing MARKAL model", Proceedings of ICROS-SICE International Joint Conference 2009, 18-21 August 2009, Fukuoka, Japan. pp. 4949-4954.
17. Artite Pattanapongchai and Bundit Limmeechokchai (2010), "Optimization of Energy Supply and Demand in the Thai Power Sector: Implication of Renewable Energy in the Long Term Planning", The 2nd AUN/SEED-Net Regional Conference on New/Renewable Energy, Burapha University, Thailand, January, 2010.
18. Kamphol Promjiraprawata and Bundit Limmeechokchai (2010), "Unit commitment for power generation planning: Multi-objective analysis for the least cost and CO₂ emission", The 2nd AUN/SEED-Net Regional Conference on New/Renewable Energy, Burapha University, Thailand, January, 2010.
19. Kong Pagnarith and Bundit Limmeechokchai (2010), "Cost-Effectiveness of Biomass power generation in Cambodian Rural Electrification and CO₂ mitigation", The 2nd AUN/SEED-Net Regional Conference on New/Renewable Energy, Burapha University, Thailand, January, 2010.
20. Pornphimol Winyuchakrit and Bundit Limmeechokchai (2010), "Multilevel Decomposition Analysis of Energy Intensity in Thai Household Sector by Logarithmic Mean Divisia Index", The 2nd AUN/SEED-Net Regional Conference on New/Renewable Energy, Burapha University, Thailand, January, 2010.
21. Panida Thepkhun and Bundit Limmeechokchai (2010), "Dynamic LCA and the Possibility on Thailand's Biofuel Application", The 2nd AUN/SEED-Net Regional Conference on New/Renewable Energy, Burapha University, Thailand, January, 2010.
22. Prachuab Peerapong and Bundit Limmeechokchai (2010), "Energy Analysis of bagasse-based cogeneration in Thailand and its potential for the clean development mechanism (CDM)", The 2nd AUN/SEED-Net Regional Conference on New/Renewable Energy, Burapha University, Thailand, January, 2010.
23. Suthathip Suanmali, Bundit Limmeechokchai, Chayute Phumitanon, Ratchaporn Jaijitman, Supalat Tansirichaiya (2010), "The Current Status and Potential Prospect of Ethanol Utilization in Thailand's Transport Sector", The 2nd AUN/SEED-Net Regional Conference on New/Renewable Energy, Burapha University, Thailand, January, 2010.
24. P. Suksuntornsiria, N.Taitaemthong, A.Swamiwat, T. Sripinij, B. Limmeechokchai (2010), "Life Cycle Energy Savings and GHG Mitigation of Biodiesel from a Palm Oil Industry in Chonburi Province", The 2nd AUN/SEED-Net Regional Conference on New/Renewable Energy, Burapha University, Thailand, January, 2010.
25. Muhammad Ery Wijaya and Bundit Limmeechokchai (2010), "The hidden costs of fossil power generation in Indonesia: A reduction approach through low carbon society", *Songklanakarin J. Sci. Technology*, **32** (1), 81-89, Jan. - Feb. 2010.
26. Artite Pattanapongchai and Bundit Limmeechokchai (2010), "CO₂ mitigation model of future power plants with integrated carbon capture and storage in Thailand", *Proceedings of the 1st International Nuclear and Renewable Energy Conference (INREC10)*, Amman, Jordan, March 21-24, 2010.

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28. Suthathip Suanmali, Bundit Limmeechokchai, Chayute Phumitanon, Ratchaporn Jaijitman, Supalat Tansirichaiya (2010), "The Macroeconomics Impacts on Ethanol Utilization Policy in Thailand's Transport Sector Using Input-Output Analysis", *Journal of International Management Studies*, June 2010.
29. Muhammad Ery Wijaya and Bundit Limmeechokchai (2010), "Demand Side Management Options in the Household Sector through Lighting Efficiency Improvement for Java-Madura-Bali Islands in Indonesia", *Journal of Sustainable Energy & Environment* **1(3)** 2010, pp.111-115.
30. Kong Pagnarith and Bundit Limmeechokchai, "Integrated Resource Planning for Long Term Electricity Supply in Selected GMS Countries: Part 1 (Energy Efficiency and Renewable Energy)", *Energy Sources Part B, Economics, Planning, and Policy*, DOI:10.1080/15567249.2010.536813.
31. B. Limmeechokchai, P. Winyuchakrit, A. Pattanapongchai, and P. Peerapong (2010), "The role of renewable energy in low-carbon society 2030 in Thailand, 36th Congress on Science and Technology of Thailand, Oct. 2010.
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39. Mongkol Jongsuphaphong; Suntud Sirianuntapiboon; and Bundit Limmeechokchai (2010). "Evaluation of a pilot scale high pressure plasma ozonizer for use in wastewater treatment", *African Journal of Biotechnology*, Vol. 9, No. 32, 9 August 2010, pp. 5151-5161.
40. Kong Pagnarith and Bundit Limmeechokchai, "Integrated Resource Planning for Long Term Electricity Supply in Selected GMS Countries: Part 2 (Economics and Environmental Impacts)", *Energy Sources Part B, Economics, Planning, and Policy*, DOI:10.1080/15567249.2010.549900.

41. Artite Pattanapongchai and Bundit Limmeechokchai, "Alternative Energy Technologies for Long Term Power Generation Expansion Planning and CO₂ mitigation in Thailand", *Energy Sources Part B, Economics, Planning, and Policy*, DOI:10.1080/15567249.2010.545795.
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44. Artite Pattanapongchai and Bundit Limmeechokchai, "CO₂ mitigation model of future power plants with integrated carbon capture and storage in Thailand", *International Journal of Sustainable Energy*, DOI: 10.1080/1478646X.2010.539690, June 2011.
45. Kong Pagnarith and Bundit Limmeechokchai (2011), "Renewable Energy Utilization and CO₂ Mitigation in the Power Sector: A Case Study in Selected GMS Countries", *Songklanakarin J. Sci. Technology*, **33(3)**, May-June 2011.
46. N. Sritong, A. Pattanapongchai, P. Winyuchakrit, P. Peerapong, and B. Limmeechokchai (2011), "CO₂ Mitigation in Thailand's Nationally Appropriate Mitigation Actions (NAMAs): Policy Analyses of Power Generation", the International Conference & Utility Exhibition 2011 (ICUE 2011) on Power and Energy Systems: Issues and Prospects for Asia, 28-30 September 2011, Thailand.
47. Sujeetha Selvakkumaran and Bundit Limmeechokchai (2011), "Assessment of Energy Security and Low Carbon Society Scenarios in Thailand and Sri Lanka", the International Conference & Utility Exhibition 2011 (ICUE 2011) on Power and Energy Systems: Issues and Prospects for Asia, 28-30 September 2011, Thailand.
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50. Artite Pattanapongchai and Bundit Limmeechokchai (2011), "Least cost energy planning in Thailand: A case of biogas upgrading in palm oil industry", *Songklanakarin J. Sci. Technology*, **33(6)**, Nov-Dec. 2011.
51. Paiboon Limpitipanich, Pawinee Suksuntornsiri, Warunee Tia, and Bundit Limmeechokchai (2012), "Economy-Wide Impacts on Energy Efficiency in Thai Sugar Industries", *GMSARN Int. Conf. on Social-Energy-Environmental Development: SEED towards Sustainability*, 28-30 Mar. 2012, Thailand.
52. Pornphimol Winyuchakrit and Bundit Limmeechokchai (2011), "Multilevel Decomposition Analysis of Energy Intensity in Thai Road Transport Sector", *Energy Sources Part B, Economics, Planning, and Policy*, DOI:10.1080/15567249.2011.607883.
53. Pornphimol Winyuchakrit, Bundit Limmeechokchai, Yuzuru Matsuoka, Kei Gomi, Mikiko Kainuma, Junichi Fujino, and Maiko Suda (2011), "CO₂ Mitigation in Thailand's Low-carbon Society: The Potential of Renewable Energy", *Energy Sources Part B, Economics, Planning, and Policy*, DOI:10.1080/15567249.2011.605101.
54. Sujeetha Selvakkumaran and Bundit Limmeechokchai (2011), "Energy Security in Three Selected Asian Countries", *Energy Sources Part B, Economics, Planning, and Policy*, DOI:10.1080/15567249.2011.627910.

55. Pornphimol Winyuchakrit and Bundit Limmeechokchai (2011), "Trends of Energy Intensity and CO₂ Emissions in Thai Industrial Sector: The Decomposition Analysis", *Energy Sources Part B, Economics, Planning, and Policy*, DOI:10.1080/15567249.2011.653706.
56. Sujeetha Selvakkumaran and Bundit Limmeechokchai (2011), "Assessment of Energy Security of an Energy Import-Dependent Country: A case study of Sri Lanka", *Thammasat Int. J. Sc. Tech.* 2012; **17(1)**: 54-67.
57. Nicha Sritong, Kritsarapond Krajangkul and Bundit Limmeechokchai (2011), "An Experimental Study of Thermo-syphon Solar Water Heater in Thailand", *The Second TSME International Conference on Mechanical Engineering*, 19-21 October, 2011, Krabi.
58. Promjiraprawat K., Limmeechokchai B (2012), Assessment of Thailand's Energy Policies and CO₂ Emissions: Analyses of Energy Efficiency Measures and Renewable Power Generation. *Energies*. 2012; **5(8)**:3074-3093. DOI:10.3390/en5083074.
59. Sujeetha Selvakkumaran and Bundit Limmeechokchai (2012), "Assessment of Energy Security and Co-benefits of Low-Carbon Society Scenarios in Thailand", *Suranaree Journal of Science and Technology*. 2012;**19(2)**: 61-78.
60. Bundit Limmeechokchai (2012), "Thailand Nationally Appropriate Mitigation Actions (NAMAs): Roadmap to Low Carbon Growth", *2012 Royal Institute Conference*, Bangkok, 18-20 June 2012.
61. Sujeetha Selvakkumaran and Bundit Limmeechokchai (2012), "Energy Security and Co-benefits of Energy Efficiency Improvement in Three Asian Countries", *Renewable and Sustainable Energy Reviews*, DOI:10.1016/j.rser.2012.12.004.
62. Kamphol Promjiraprawat and Bundit Limmeechokchai (2013). "Multi-objective and multi-criteria optimization for power generation expansion planning with CO₂ mitigation in Thailand", *Songklanakarin Journal of Science and Technology*, Vol. 35, No. 3, May-June 2013, pp. 349-359.
63. Panida Thepkhun, Bundit Limmeechokchai, Shinichiro Fujimori, Toshihiko Masui, and Ram M Shrestha (2013), "Thailand's Low-Carbon Scenario 2050: The AIM/CGE analyses of CO₂ mitigation measures", *Energy Policy*, Vol.62, pp.561-572, <http://dx.doi.org/10.1016/j.enpol.2013.07.037>,
64. Artite Pattanapongchai and Bundit Limmeechokchai (2014), "Co-benefits of Biogas from Palm Oil Industry in the Long Term Energy Planning: A Least-Cost Biogas Upgrade in Thailand", *Energy Sources Part B, Economics, Planning, and Policy*, **9(4)**, p360-373, DOI:10.1080/15567249.2010.504938.
65. Nicha Sritong, Kamphol Promjiraprawat, Bundit Limmeechokchai (2013). "CO₂ Mitigation in the Road Transport Sector in Thailand: Analysis of Energy Efficiency and Bio-Energy". *Proceeding of the 2013 International Conference on Alternative Energy in Developing Countries and Emerging Economies (2013AEDCEE)*, 30-31 May 2013, Bangkok, Thailand. *Energy Procedia (2014)* DOI: 10.1016/j.egypro.2014.07.063.
66. Prachuab Peerapong, Bundit Limmeechokchai (2013). "Investment Incentive of Grid Connected Solar Photovoltaic Power Plant under Proposed Feed-in Tariffs Framework in Thailand". *Proceeding of the 2013 International Conference on Alternative Energy in Developing Countries and Emerging Economies (2013AEDCEE)*, 30-31 May 2013, Bangkok, Thailand. *Energy Procedia (2014)* DOI: 10.1016/j.egypro.2014.07.069.
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