

Prof. Dr. Shabbir H. Gheewala

1. Educational Background

- Year A.D. 2001 D.Eng. (Environmental Engineering), Asian Institute of Technology, Thailand
(วศ.ด. (วิศวกรรมสิ่งแวดล้อม), สถาบันเทคโนโลยีแห่งเอเชีย, ประเทศไทย, 2544)
- Year A.D. 1995 M.Eng. (Environmental Engineering), Asian Institute of Technology, Thailand
(วศ.ม. (วิศวกรรมสิ่งแวดล้อม), สถาบันเทคโนโลยีแห่งเอเชีย, ประเทศไทย, 2538)
- Year A.D. 1992 B.Eng. (Civil Engineering), Jadavpur University, India

RESEARCH INTEREST

Integrated environmental assessment of energy systems, particularly renewables, Ecodesign of buildings

WORK EXPERIENCE

- Professor at the Joint Graduate School of Energy and Environment (JGSEE), King Mongkut's University of Technology, Thonburi (June 2010 – present). Responsibilities include teaching a course on life cycle assessment and supervising graduate students' research. Heading the "Life Cycle Sustainability Assessment Lab" at JGSEE.
- Distinguished Adjunct Professor at the Asian Institute of Technology, (Jan 2015 onwards). Responsibilities include sitting on Phd committees.
- Adjunct Professor at the Department of Environmental Sciences and Engineering, University of North Carolina Chapel Hill, (Jan 2012 – present). Responsibilities include teaching a course on life cycle assessment and supervising undergraduate students' Capstone projects.
- Associate Professor at the Joint Graduate School of Energy and Environment (JGSEE), King Mongkut's University of Technology, Thonburi (March 2007 – June 2010).
- Assistant Professor at the Joint Graduate School of Energy and Environment (JGSEE), King Mongkut's University of Technology, Thonburi (January 2004 – March 2007).
- Lecturer at the Joint Graduate School of Energy and Environment, King Mongkut's University of Technology, Thonburi (March 2002 – January 2004).
- Adjunct lecturer in the Design and Engineering Management of the School of Advanced Technologies at the Asian Institute of Technology, Thailand (May – August 2003 / August – December 2004). Responsibilities included teaching part of the course "Ecodesign and Manufacturing Systems" and committee member of graduate student.
- Visiting lecturer at Kasetsart University, Thailand (2002 – present). Responsibilities include teaching a course on " Life Cycle Assessment" at the International Program in Environmental Engineering.
- Visiting lecturer at Naresuan University, Thailand (2001 – 2004). Responsibilities included teaching a course on environmental management for hotels.
- Research Engineer at the Urban Environmental Engineering and Management Program, Asian Institute of Technology (June 2001 – February 2002). Responsibilities included conducting research on life cycle assessment of air conditioning systems, assisting with computer classes on an LCA software, SimaPro, and sharing lectures in ecodesign course.
- Research Associate at the Environmental Engineering Program, Asian Institute of Technology (September 1995 – May 2001). Responsibilities included conducting research

on wastewater nitrogen removal technologies, assisting in organizing workshops, seminars and training programs, preparing scientific publications and project reports.

- Design Engineer at F. Harley and Co. Pvt. Ltd. (1992 – 1993). Responsibilities included design of air pollution control equipment such as bagfilters, cyclones and dust suppression systems, installation of the designed systems, site supervision, project proposal preparation, bidding and client contact.

PUBLICATIONS

International Journal

- Wahyono, Y., Hadiyanto, H., Gheewala, S.H., Budihardjo, M.A., Adiansyah, J.S., Widayat, W., and Christwardana, M., (2023) Evaluating the Environmental Impacts at the End Point Level of the Biodiesel Production Process from Multiple Feedstocks in Indonesia Through Life Cycle Assessment Methodology. Waste and Biomass Valorization. January 2023
- Wahyono, Y., Hadiyanto, H., Gheewala, S.H., Budihardjo, M.A., Adiansyah, J., Widayat, W., and Christwardana, M., (2023) Life cycle assessment for evaluating the energy balance of the multi-feedstock biodiesel production process in Indonesia. International Journal of Ambient Energy. 44(1): p. 1255-1270. Jan 2023
- Sutthasil, N., Chiemchaisri, C., Chiemchaisri, W., Ishigaki, T., and Gheewala, S.H., (2023) Life cycle greenhouse gas emissions of emerging municipal solid waste management options: a case study in Thailand. Journal of Material Cycles and Waste Management. 25(2): p. 662-673. March 2023
- Rotthong, M., Takaoka, M., Oshita, K., Rachdawong, P., Gheewala, S.H., and Prapasongsa, T., (2023) Life Cycle Assessment of Integrated Municipal Organic Waste Management Systems in Thailand. Sustainability (Switzerland). 15(1). January 2023
- Pongpat, P., Mahmood, A., Ghani, H.U., Silalertruksa, T., and Gheewala, S.H., (2023) Optimization of food-fuel-fibre in biorefinery based on environmental and economic assessment: The case of sugarcane utilization in Thailand. Sustainable Production and Consumption. 37: p. 398-411. May 2023
- Ngammuangtueng, P., Nilsalab, P., Chomwong, Y., Wongruang, P., Jakrawatana, N., Sandhu, S., and Gheewala, S.H., (2023) Water-energy-food nexus of local bioeconomy hub and future climate change impact implication. Journal of Cleaner Production. 399. May 2023
- Mungkung, R., Dangsi, S., Satmalee, P., Surojanametakul, V., Saejew, K., and Gheewala, S.H., (2023) The nutrition-environment nexus assessment of Thai Riceberry product for supporting environmental product declaration. Environment, Development and Sustainability. January 2023
- Mahmood, A., Ghani, H.U., and Gheewala, S.H., (2023) Absolute environmental sustainability assessment of rice in Pakistan using a planetary boundary-based approach. Sustainable Production and Consumption. 39: p. 123-133. July 2023
- Keson, J., Silalertruksa, T., and Gheewala, S.H., (2023) Land suitability class and implications to Land-Water-Food Nexus: A case of rice cultivation in Thailand. Energy Nexus. 10. June 2023
- Jarernwong, K., Gheewala, S.H., and Sampattagul, S., (2023) Health Impact Related to Ambient Particulate Matter Exposure as a Spatial Health Risk Map Case Study in Chiang Mai, Thailand. Atmosphere. 14(2). February 2023

- Jaibumrung, K., Nilsalab, P., Gheewala, S.H., and Musikavong, C., (2023) Ecological footprint, water scarcity footprint, and benefit to cost ratio analysis towards sustainable rice production in Thailand. *Sustainable Production and Consumption*. 39: p. 79-92. July 2023
- Ghani, H.U., Ryberg, M., Bjørn, A., Hauschild, M.Z., and Gheewala, S.H., (2023) Resource efficiency analysis through planetary boundary-based life cycle assessment: a case study of sugarcane in Pakistan. *International Journal of Life Cycle Assessment*. June 2023
- Ghani, H.U., Mahmood, A., Finkbeiner, M., Kaltschmitt, M., and Gheewala, S.H., (2023) Evaluating the absolute eco-efficiency of food products: A case study of rice in Pakistan. *Environmental Impact Assessment Review*. 101. July 2023
- Akbar, H., Nilsalab, P., Silalertruksa, T., and Gheewala, S.H., (2023) An inclusive approach for integrated systems: Incorporation of climate in the water-food-energy-land nexus index. *Sustainable Production and Consumption*. 39: p. 42-52. July 2023
- Weligama Thuppahige, R.T., Gheewala, S.H., and Babel, S., (2022) Environmental impact of organic fraction of municipal solid waste treatment by composting in Sri Lanka. *Journal of Material Cycles and Waste Management*. 24(1): p. 189-199. January 2022
- Wassmann, R., Van-Hung, N., Yen, B.T., Gummert, M., Nelson, K.M., Gheewala, S.H., and Sander, B.O., (2022) Carbon Footprint Calculator Customized for Rice Products: Concept and Characterization of Rice Value Chains in Southeast Asia. *Sustainability (Switzerland)*. 14(1). January 2022
- Wahyono, Y., Hadiyanto, H., Gheewala, S.H., Budihardjo, M.A., and Adiansyah, J.S., (2022) Evaluating the environmental impacts of the multi-feedstock biodiesel production process in Indonesia using life cycle assessment (LCA). *Energy Conversion and Management*. 266. August 2022
- Saosee, P., Sajjakulnukit, B., and Gheewala, S.H., (2022) Environmental externalities of wood pellets from fast-growing and para-rubber trees for sustainable energy production: A case in Thailand. *Energy Conversion and Management: X*. 14. May 2022
- Phuphisith, S., Gheewala, S.H., and Sampattagul, S., (2022) Assessing environmentally sustainable practices of smallholder highland farmers: a case study of maize production in Northern Thailand. *Clean Technologies and Environmental Policy*. 24(4): p. 1159-1172. May 2022
- Mungkung, R., Sitthikitpanya, S., Chaichana, R., Bamrungwong, K., Santitaweeroek, Y., Jakrawatana, N., Silalertruksa, T., and Gheewala, S.H., (2022) Measuring sustainability performance of rice cultivation in Thailand using Sustainable Rice Platform indicators. *International Journal of Agricultural Sustainability*. August 2022
- Kongboon, R., Gheewala, S.H., and Sampattagul, S., (2022) Greenhouse gas emissions inventory data acquisition and analytics for low carbon cities. *Journal of Cleaner Production*. 343. April 2022
- Haputta, P., Bowonthumrongchai, T., Puttanapong, N., and Gheewala, S.H., (2022) Effects of Biofuel Crop Expansion on Green Gross Domestic Product. *Sustainability (Switzerland)*. 14(6). March-2 2022
- Gazal, A.A., Jakrawatana, N., Silalertruksa, T., and Gheewala, S., (2022) Water-energy-land-food nexus for bioethanol development in Nigeria. *Biomass Conversion and Biorefinery*. March 2022

- Gazal, A.A., Jakrawatana, N., Silalertruksa, T., and Gheewala, S., (2022) Water–Energy–Land–Food nexus review for biofuels assessment. *International journal of biomass conversion and & biorefinery*. 11(1): p. 193 - 205. February 2022
- Gazal, A.A., Jakrawatana, N., Silalertruksa, T., and Gheewala, S., (2022) Water-Energy-Food Nexus Review for Biofuels Assessment. *International Journal of Renewable Energy Development*. 11(1): p. 193-205. Feb 2022
- Chaya, W. and Gheewala, S.H., (2022) Sustainable livelihood outcomes, causal mechanisms and indicators self-determined by Thai farmers producing bioethanol feedstocks. *Sustainable Production and Consumption*. 29: p. 447-466. January 2022
- Balasuriya, B.T.G., Ghose, A., Gheewala, S.H., and Prapasongsa, T., (2022) Assessment of eutrophication potential from fertiliser application in agricultural systems in Thailand. *Science of the Total Environment*. 833. August 2022
- Akbar, H., Nilsalab, P., Silalertruksa, T., and Gheewala, S.H., (2022) Comprehensive review of groundwater scarcity, stress and sustainability index-based assessment. *Groundwater for Sustainable Development*. 18. August 2022
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- Prasara-A, J. and Gheewala, S.H., (2021) An assessment of social sustainability of sugarcane and cassava cultivation in Thailand. *Sustainable Production and Consumption*. 27: p. 372-382. Jul
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- Nguyen, H.A.T., Sophea, T., Gheewala, S.H., Rattanakom, R., Areerob, T., and Prueksakorn, K., (2021) Integrating remote sensing and machine learning into environmental monitoring and assessment of land use change. *Sustainable Production and Consumption*. 27: p. 1239-1254. Jul
- Mungkung, R., Sorakon, K., Sitthikitpanya, S., and Gheewala, S.H., (2021) Analysis of green product procurement and ecolabels towards sustainable consumption and production in Thailand. *Sustainable Production and Consumption*. 28: p. 11-20. Oct
- Mungkung, R., Dangsiri, S., and Gheewala, S.H., (2021) Development of a low-carbon, healthy and innovative value-added riceberry rice product through life cycle design. *Clean Technologies and Environmental Policy*. Sep
- Krebs-Moberg, M., Pitz, M., Dorsette, T.L., and Gheewala, S.H., (2021) Third generation of photovoltaic panels: A life cycle assessment. *Renewable Energy*. 164: p. 556-565. Feb
- Kongboon, R., Gheewala, S.H., and Sampattagul, S., (2021) Empowering a Sustainable City Using Self-Assessment of Environmental Performance on EcoCitopia Platform. *Sustainability*. 13(14). Jul

- Kerdlap, P., Gheewala, S.H., and Ramakrishna, S., (2021) To Rent or Not to Rent: A Question of Circular Prams from a Life Cycle Perspective. *Sustainable Production and Consumption*. 26: p. 331-342.Apr
- Kaoma, M. and Gheewala, S.H., (2021) Techno-economic assessment of bioenergy options using crop and forest residues for non-electrified rural growth centres in Zambia. *Biomass & Bioenergy*. 145.Feb
- Kaoma, M. and Gheewala, S.H., (2021) Evaluation of the enabling environment for the sustainable development of rural-based bioenergy systems in Zambia. *Energy Policy*. 154.Jul
- Jaroenkietkajorn, U. and Gheewala, S.H., (2021) Land suitability assessment for oil palm plantations in Thailand. *Sustainable Production and Consumption*. 28: p. 1104-1113.2021/10/01/
- Jaroenkietkajorn, U. and Gheewala, S.H., (2021) Understanding the impacts on land use through GHG-water-land-biodiversity nexus: The case of oil palm plantations in Thailand. *Science of The Total Environment*: p. 149425.2021/08/04/
- Ghani, H.U. and Gheewala, S.H., (2021) Environmental Sustainability Assessment of Molasses-based Bioethanol Fuel in Pakistan. *Sustainable Production and Consumption*. 27: p. 402-410.Jul
- Clemons, S.K.C., Salloum, C.R., Herdegen, K.G., Kamens, R.M., and Gheewala, S.H., (2021) Life cycle assessment of a floating photovoltaic system and feasibility for application in Thailand. *Renewable Energy*. 168: p. 448-462.May
- Chancharoonpong, P., Mungkung, R., and Gheewala, S.H., (2021) Life Cycle Assessment and eco-efficiency of high value-added riceberry rice products to support Thailand 4.0 policy decisions. *Journal of Cleaner Production*. 292.Apr 10
- Akbar, H. and Gheewala, S.H., (2021) Impact of Climate and Land Use Changes on flowrate in the Kunhar River Basin, Pakistan, for the Period (1992-2014). *Arabian Journal of Geosciences*. 14(8).Apr
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- Saosee, P., Sajjakulnukit, B., and Gheewala, S.H., (2020) Feedstock Security Analysis for Wood Pellet Production in Thailand. *Energies*. 13(19): p. 5126.October 2020
- Saosee, P., Sajjakulnukit, B., and Gheewala, S.H., (2020) Life Cycle Assessment of Wood Pellet Production in Thailand. *Sustainability*. 12(17).September 2020
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- Ngammuangtueng, P., Jakrawatana, N., and Gheewala, S.H., (2020) Nexus Resources Efficiency Assessment and Management towards Transition to Sustainable Bioeconomy in Thailand. *Resources Conservation and Recycling*. 160.Sep

- Lecksiwilai, N. and Gheewala, S.H., (2020) Life cycle assessment of biofuels in Thailand: Implications of environmental trade-offs for policy decisions. *Sustainable Production and Consumption*. 22: p. 177-185.Apr
- Jaroenkietkajorn, U. and Gheewala, S.H., (2020) Interlinkage between water-energy-food for oil palm cultivation in Thailand. *Sustainable Production and Consumption*. 22: p. 205-217.Apr
- Hong Anh Thi, N., Gheewala, S.H., Sophea, T., Areerob, T., Hashimoto, K., Pimonsree, S., and Prueksakorn, K., (2020) Comparative carbon footprint assessment of agricultural and tourist locations in Thailand. *Journal of Cleaner Production*. 269.Oct 1
- Haputta, P., Puttanapong, N., Silalertruksa, T., Bangviwat, A., Prapaspongsa, T., and Gheewala, S.H., (2020) Sustainability analysis of bioethanol promotion in Thailand using a cost-benefit approach. *Journal of Cleaner Production*. 251.Apr 1
- Gheewala, S.H., Jungbluth, N., Notarnicola, B., Ridoutt, B., and van der Werf, H., (2020) No simple menu for sustainable food production and consumption. *International Journal of Life Cycle Assessment*. 25(7): p. 1175-1182.Jul
- Ghani, H.U., Mahmood, A., Ullah, A., and Gheewala, S.H., (2020) Life Cycle Environmental and Economic Performance Analysis of Bagasse-Based Electricity in Pakistan. *Sustainability*. 12(24): p. 10594.December 2020
- Gabisa, E.W. and Gheewala, S.H., (2020) Can substitution of imported gasoline by locally produced molasses ethanol in Ethiopia be sustainable? An eco-efficiency assessment. *Renewable & Sustainable Energy Reviews*. 123.May
- Farooq, N. and Gheewala, S.H., (2020) Assessing the impact of climate change on sugarcane and adaptation actions in Pakistan. *Acta Geophysica*. 68(5): p. 1489-1503.OCT 2020
- Changwichan, K. and Gheewala, S.H., (2020) Choice of materials for takeaway beverage cups towards a circular economy. *Sustainable Production and Consumption*. 22: p. 34-44.April 2020
- Aziz, N.I.H.A., Hanafiah, M.M., Gheewala, S.H., and Ismail, H., (2020) Bioenergy for a Cleaner Future: A Case Study of Sustainable Biogas Supply Chain in the Malaysian Energy Sector. *Sustainability*. 12(8).Apr
- Akbar, H. and Gheewala, S.H., (2020) Effect of climate change on cash crops yield in Pakistan. *Arabian Journal of Geosciences*. 13(11): p. 15.May 2020
- Tevis, R., Schuster, N., Evans, F., Himmler, R., and Gheewala, S.H., (2019) A multi-scenario life cycle impact comparison of operational energy supply techniques for an office building in Thailand. *Energy and Buildings*. 190: p. 172-182.May 2019
- Semie, T.K., Silalertruksa, T., and Gheewala, S.H., (2019) The impact of sugarcane production on biodiversity related to land use change in Ethiopia. *Global Ecology and Conservation*. 18: p. 10.April, 2019
- Sawaengsak, W. and Gheewala, S.H., (2019) Development of a Social Impact Assessment Method and Application to a Case Study of Sugarcane, Sugar, and Ethanol in Thailand. *International Journal of Life Cycle Assessment*. 24(11): p. 2054-2072.November 2019
- Nilsalab, P. and Gheewala, S.H., (2019) Assessing the Effect of Incorporating Environmental Water Requirement in the Water Stress Index for Thailand. *Sustainability*. 11(1).January 1, 2019

- Lecksiwilai, N. and Gheewala, S.H., (2019) A policy-based life cycle impact assessment method for Thailand. *Environmental Science & Policy*. 94: p. 82-89. Apr 2019
- Kaenchan, P., Puttanapong, N., Bowonthumrongchai, T., Limskul, K., and Gheewala, S.H., (2019) Macroeconomic modeling for assessing sustainability of bioethanol production in Thailand. *Energy Policy*. 127: p. 361-373. Apr 2019
- Jakrawatana, N., Gheewala, S.H., and Towprayoon, S., (2019) Carbon flow and management in regional rice production in Thailand. *Carbon Management*. 10(1): p. 93-103. Jan 2019
- Hailemariam, W.G., Silalertruksa, T., Gheewala, S.H., and Jakrawatana, N., (2019) Water-Energy-Food Nexus of Sugarcane Production in Ethiopia. *Environmental Engineering Science*. Special issue. May 2019
- Ghani, H.U., Silalertruksa, T., and Gheewala, S.H., (2019) Water-energy-food nexus of bioethanol in Pakistan: A life cycle approach evaluating footprint indicators and energy performance. *Science of the Total Environment*. 687: p. 867-876. Oct 2019
- Gabisa, E.W. and Gheewala, S.H., (2019) Potential, environmental, and socio-economic assessment of biogas production in Ethiopia: The case of Amhara regional state. *Biomass & Bioenergy*. 122: p. 446-456. March 2019
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- Tulevech, S.M., Hage, D.J., Jorgensen, S.K., Guensler, C.L., Himmler, R., and Gheewala, S.H., (2018) Life cycle assessment: a multi-scenario case study of a low-energy industrial building in Thailand. *Energy and Buildings*. 168: p. 191-200. June 2018
- Silalertruksa, T. and Gheewala, S.H., (2018) Land-Water-Energy Nexus of Sugarcane Production in Thailand. *Journal of Cleaner Production*. 182: p. 521-528. May 2018
- Prasara-A, J. and Gheewala, S.H., (2018) Applying Social Life Cycle Assessment in the Thai Sugar Industry: Challenges from the field. *Journal of Cleaner Production*. 172: p. 335-346. January 2018

- Nilsalab, P., Gheewala, S.H., and Pfister, S., (2018) Method Development for Including Environmental Water Requirement in the Water Stress Index. *Water Resources Management*. 32(5): p. 1585-1598.March 2018
- Kaenchan, P., Guinee, J., and Gheewala, S.H., (2018) Assessment of ecosystem productivity damage due to land use. *Science of the Total Environment*. 621: p. 1320-1329.April 2018
- Iqbal, M.I., Himmler, R., and Gheewala, S.H., (2018) Environmental impacts reduction potential through a PV based transition from typical to energy plus houses in Thailand: A life cycle perspective. *Sustainable Cities and Society*. 37: p. 307-322.February 2018
- Gheewala, S.H., Silalertruksa, T., Nilsalab, P., Lecksiwilai, N., Sawaengsak, W., Mungkung, R., and Ganasut, J., (2018) Water stress index and its implication for agricultural land-use policy in Thailand. *International Journal of Environmental Science and Technology*. 15(4): p. 833-846.April 2018
- Gabisa, E.W. and Gheewala, S.H., (2018) Potential of bio-energy production in Ethiopia based on available biomass residues. *Biomass & Bioenergy*. 111: p. 77-87.April 2018
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- Beaudry, G., Macklin, C., Roknich, E., Sears, L., Wiener, M., and Gheewala, S.H., (2018) Greenhouse gas assessment of palm oil mill biorefinery in Thailand from a life cycle perspective (vol 8, pg 43, 2017). *Biomass Conversion and Biorefinery*. 8(1): p. 235-235.March 2018
- Beaudry, G., Macklin, C., Roknich, E., Sears, L., Wiener, M., and Gheewala, S.H., (2018) Greenhouse gas assessment of palm oil mill biorefinery in Thailand from a life cycle perspective. *Biomass Conversion and Biorefinery*. 8(1): p. 43-58.March 2018
- Yodkhum, S., Gheewala, S.H., and Sampattagul, S., (2017) Life cycle GHG evaluation of organic rice production in northern Thailand. *Journal of Environmental Management*. 196: p. 217-223.July 2017
- Sununta, N., Sedpho, S., Gheewala, S.H., and Sampattagul, S., (2017) Life cycle greenhouse gas evaluation of organic rankine cycle using refuse derived fuel from municipal solid waste. *Journal of Renewable and Sustainable Energy*. 9(5): p. 054901.October 2017
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