

Curriculum Vitae

Name : Prof. Dr. Adrianus Amheka, S.T, M.Eng
Occupation : Head of Institute for Higher Education Service for Region -XV,
Secretariat General of the Ministry of Education, Culture, Research and Technology,
Republic of Indonesia <https://ltdikti15.kemdikbud.go.id/> 2022 ~
Head of Indonesian Society of Applied Sciences (ISAS) <https://isas.or.id/> 2020 -2024
Head of Center for Research and Community Services (*Kepala P3M*)- PNK March 2018 - now
Head of Professional Certification Agency (*Lembaga Sertifikasi Profesi*)- PNK 2017-2018
Head of International Affairs (KUI)- PNK 2015-2017
Specialization : Energy and environmental system, Social-Economy energy, Sustainable development studies,
Environmental studies, Engineering social.
*Sistim Energi dan Lingkungan, Sosial-Ekonomi energi, Pembangunan Berkelanjutan, Teknik
Lingkungan, Teknik Sosial.*
<https://www.scopus.com/authid/detail.uri?authorId=56491035100>
<https://scholar.google.co.id/citations?user=7hxZOXAAAAAJ&hl=en>
https://pddikti.kemdikbud.go.id/data_dosen/Q0FGREJFOUQtMUJDNC00M0ZDLUJBRTItQzQzNUY2NUVENEIO
<https://www.youtube.com/user/CANELITA1000>
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Mb. +628128 5660773.

Education	
Dr. in Energy and Environmental System	Grad. School of Life & Envr. Sciences, Uni. of Tsukuba, 2014.
Master in Enviromental Engineering	Griffith Uni., 2010.
Bachelor in Mechanical Engineering	Nusa Cendana Uni., 2003.
E3i (Energy, Economy, Environment) monitoring and evaluation of renewable energy applications in candidate E3i villages	Online Darma Persada Uni.- UNESCO, 2010.
Renewable energy policy & planning for sustainable development	Online Asian Institute Technology- UNESCO, 2010.
Graduate Certificate in Climate Change Adaptation	Uni. of the Sunshine Coast, 2009.
International Summer School: “Kyoto Atmosphere Geosphere Investigation (ISS KAGI 21)”	FIKTIM-ITB and Kyoto Uni., 2006.
Teaching and Research assistant	Grad. School of Life & Envr. Sciences, Uni. of Tsukuba, 2014.
Visiting foreign research fellow Dec. 1 st - Apr. 31 st	Grad. School of Life & Envr. Sciences, Uni. of Tsukuba, 2011-12
Achievements	
“Indonesia Berprestasi Award: Kategori Teknologi” (Indonesia Achievement Award: technology Category) Sponsored by Excelcomindo Pratama	Weblink of Indonesia Achievement Award 2008: https://techno.okezone.com/read/2007/11/16/54/61337/empat-warga-negara-berprestasi-raih-penghargaan-iba-2007 https://nasional.kompas.com/read/2008/05/19/23032388/xl.gelar.indonesia.berprestasi.award.2008 https://news.detik.com/berita-jawa-timur/d-782924/xl-luncurkan-indonesia-berprestasi-award https://www.republika.co.id/berita/trendtek/telekomunikasi/10/05/21/116465-xl-kembali-gelar-indonesia-berprestasi-award https://www.kapanlagi.com/foto/berita-foto/indonesia/indonesia-berprestasi-award-2008.html
Certificates	
Competence in Oil, Gas and LNG operation (Drilling and Completions, LNG Processes & Facilities, Petroleum Technology Overview, Production Tech & Facilities, Health Environment and Safety, Safety Orientation)	SAIT Polytechnic, 2017 Uni. of Tsukuba, 2014.

• International Collaboration Environmental Program • Environmental Diplomatic Leader (EDL)	Uni. of Tsukuba, 2014.
Workshop and intership (<i>competitive grants</i>) International environment leaders training program, Asian Program for Incubation of Environmental Leaders (APIEL) Uni. of Tokyo Domestic internship EDL, Uni. of Tsukuba Decentralized Sustainable Energy for Wider Indonesia: Towards Energy Security and Independence (Robert Gordon Uni and Unas) APN TOT Urban Climate Adaptation in SEA 2015 Sustainable Energy for All (ITS and Uni of Strathclyde) Developing Academic Summer Program – British Council and Kemenristekdikti Australian Technology Network (ATN) Seminar & Workshop: Inspiring International Research Excellent Adopting an R-Urban Model: Empowering Local Communities to Develop Sustainable Built Environment (Uni. of Nottingham and UII) Going Global 2007: Global cities: connecting talent, driving change (<i>as poster presenter</i>) An International Skills Partnership: Develop mutual partnership between Dudley College, UK and a State education department in Gilgit-Baltistan, Pakistan on tourism and Energy sectors funded by British Council. 60th ERS Congress “Territorial Futures – Visions and scenarios for a resilient Europe” Forthcoming seminar and relevant:	Minamata Unit, Nov. 20-25, 2012. Minamata & Nagasaki, Nov. 26-29, 2012. Yogyakarta, Oct. 19 – 22, 2015. Depok, Nov. 2 – 6, 2015 ITS Surabaya, Nov. 30 – Dec. 2, 2015 Unhas, 22-23 May, 2016. Jakarta, Sept. 26-27, 2016 Yogyakarta, Nov. 30 – Dec. 04, 2016. London, May 22-24, 2017 Pakistan, January 2018 Bolzano, August 24 – 27, 2021
Training Industrial development & SMEs policies, KOICA ICC Center, Seoul, 2011 Environmental Technology for Low-carbon Society, JICA Kyushu, 2011 Singapore-IEA Regional Training Programme on Sustainable Energy Policies for Smart Cities, (Virtual online), Sept 7-10, 2020 Pelatihan Pengembangan Model-derived MACC dengan LEAP untuk Pembangkit Listrik Energi Terbarukan, (virtual online), Sept 9, 2020	
Project Leader (on-going) • Model Pembangunan Rendah Karbon ASEAN-5 berbasis Input-Output (Indonesia, Malaysia, Philippines, Thailand and Vietnam) 2021-2022 • International Skills Partnership 2016-2017; 2017-2018 (Advanced) between PNK and Dudley College funded by British Council: Dudley supporting PNK by sharing expertise in Tourism and Renewable Energy (Solar Power), Delivering training for those sectors with the aim of obtaining center accreditation for PNK through an internationally recognized awarding organization (become a British Council-accredited Advanced Skills Partnership). The project has been developing the partnership from strength to strength, changing the lives of young people in both Dudley and Kupang. • Sustainable Tourism Consortium (Sustour) Indonesia- France 2016 ~ • Coordinator of Strategic partnership between PNK and Taipei Tech and First Tech, Taiwan • Strategic Partnership between PNK and Local Government 2017 ~ • Chair of the academic team (drafting and planning) for the local regulation drafting of the Regional General Energy Plan	

(*Rencana Umum Energy Daerah*), NTT Province 2017 ~

- Coordinator for Regional SDGs No.7 Affordable and Clean Energy at East Nusa Tenggara Province, Indonesia 2018~
- Team establishing the Regional Energy Agency of the Province of NTT, 2021 ~
- Chair of the academic team (drafting and planning) for the local regulation drafting of the Regional General Electricity Plan (*Rencana Umum Kelistrikan Daerah*), NTT Province 2021 ~
- Tim Ahli Bidang Penelitian, Direktorat Akademik Pendidikan Tinggi Vokasi, Ditjen Diksi, Kemdikbudristek, 2021 ~
- Tim Ahli Bidang Sumberdaya, Direktorat Kelembagaan dan Sumberdaya, Ditjen Diksi, Kemdikbudristek, 2021 ~

Partnership Initiator/Coordinator

- British Council and NTT Province Government: 2016~ present: A number of on-going projects being conducted.
- Strategic Commitment between PNK and NTT Province Government to improve the Province competitiveness in any priority aspects 2016-2018
- UK Government and NTT Province Government 2017~ present: The entrance investment from the UK govt in Kupang
- As coordinator of accelerated achievement of local government programs partnered with PNK (Vocational side): 2016~

Publication

Amheka, A., Tanesab, J., Tuati, N. F., Aviso, K., Yu, K. D., (2023), "Energy Mix Simulation to Reach Regional Energy Strategy: A National Impact of East Nusa Tenggara Province Energy Mix" Scitepress

Amheka, A., Aviso, K., Yu, K. D., Hoa, T., Murugappan, V. A., Noach, R. M., and Dacanay, V. J. (2022) "Towards a Low Carbon ASEAN: An environmentally extended MRIO optimization model", *Carbon Balance and Management*, ISSN: 1750-0680, MBC. Vol 17 (13).

Moristanto, Hutrindo E., Kurniadi, C., Amheka, A., (2022) "The Impact of Biofuel Intensification on Integrated Climate-Land-Energy-Water System", *The Journal of Indonesia Sustainable Development Planning*, ISSN: 2722-0842, Pusbindiklatren Bappenas, Vol. 3 (01).

Leko, L. L., Rozari, P. D., Suwari., Amheka, A., (2021) "Dispersion analysis of SO₂ pollutant from cement industry (Case study of Kupang cement plant)", AIP Conference Proceedings, Vol. 2370 (1).

Amheka, A., Aviso, K., Dacanay, V., Yu, K. D., and Hoa, T., (2020) Prioritizing Economic Sectors for Post-Pandemic Recovery: Examining National and Provincial Scales in Indonesia, *Atlantis Press*. Proceedings of the International Conference on Innovation in Science and Technology (ICIST 2020).

Tanesab, Julius., Amheka, A., Sinaga, Rusman., Mauta, James., and Hattu, Edwin., (2020) A preliminary study of common defects of photovoltaic modules in West Timor, Indonesia. *IOP Conference Series: Earth and Environmental Science*, Vol. 542, No. 1, E3S Web Conference, Vol. 190.

Tanesab, Julius., Sinaga, Rusman., Mauta, James., Amheka, Adrianus., Hattu, Edwin., and Liem, F. M., (2020) ICoRER, Proceeding Temporary Performance Degradation of Photovoltaic Street Light in Kupang City, Nusa Tenggara Timur Province, Indonesia

Amheka, A., (2019), "Energy and Environment Systems Simulation: A case study of the East Nusa Tenggara Province, Indonesia" (in Bahasa), Ketenagalistrikan dan Energi Terbarukan Journal, e-ISSN 2528-1917; p-ISSN 1978-2365, Ministry of Energy and Mineral Resource of Indonesia., Vol.18 (2).

Amheka, A., (2020), Understanding Economic Development of East Nusa Tenggara Province Based on New and Renewable Energy Concept" (in Bahasa), Tataloka Journal, e-ISSN 2356-0266; p-ISSN 0852-7458, Vol. 22 (3) Diponegoro University press.

Amheka, A., Higano, Y., Tanesab, J., Tuati, Nonce., (2019), "Energy Transformation and GHG Emission Reduction Model: An empirical Strategy for Kupang City, NTT Province, Indonesia", *International Journal of Renewable Energy Research*, Vol. 09 (2).

Amheka, A., Higano, Y., (2018), "LCA of GHG Emission Based on an Input-Output Model: Estimation on a City Level in Indonesia", *IEEEExplore conference series*.

Amheka, A., Higano, Y., (2018), "A novelty design of GHG Emission Reduction Cost for the Province of Nusa Tenggara Timur, Indonesia: A quantitative based scientific view", *IOP Conference Series: Earth and Environmental Science*, Vol. 207, No. 1.

Amheka, A., Higano, Y., (2018) "Evaluation of economic structure development of Kupang City, NTT Province, Indonesia to meet national GHG emission target", *Regional Science Inquiry Journal*, Vol. X, No.1, RSI Athens, ISSN: 1791-5961 Print, 1791-7735 online, pp.11-17.

Amheka, A., Higano, Y., Mizunoya, T., and Yabar, H., (2015), "An overview of current household waste management in Indonesia: Development of a new integrated strategy", *International Journal of Environment and Waste Management*,

Inderscience, Vol. 15, No.1, ISSN: 1478-9876 print, 1478-9868 online, pp.86-98. Amheka, A., Higano, Y., (2015), “Current household waste management in Indonesia by introducing 3R in regional area: Lesson learned from Yogyakarta city and Surabaya City”, <i>Waste Management</i>, “A glance at the world”, Vol.38, Elsevier, ISSN: 0956-053X. Amheka, A., Higano, Y., Mizunoya, T., and Yabar, H., (2015), “CO₂ emission reduction strategies in Indonesia: Evaluation of socio-economic development trends in Kupang City based on I/O analysis”, <i>Studies in Regional Science</i>, Vol.45, No.1, JSRSAI, ISSN: 0287-6256 print, 1880-6465 online. Amheka, A., Higano, Y., (2015), “An introduction to regional government in Indonesia to success RAD-GRK program: Literature review of GHG emission trends in Indonesia”, <i>Regional Science Inquiry Journal</i>, Vol. VII, No.1, RSI Athens, ISSN: 1791-5961 Print, 1791-7735 online, pp.13-28. Amheka, A., Higano, Y., Mizunoya, T., and Yabar, H., (2014), “Comprehensive evaluation of the feasibility to develop a renewable energy technology system and waste treatment plant in Kupang City, Indonesia based on a Kupang input-output Table”, <i>Procedia Environmental Science</i>, Elsevier, ISSN: 1878-0296. Pp.79-88. Amheka, A., Higano, Y., Mizunoya, T., and Yabar, H., (2014), “Comprehensive evaluation approach of current Situation in Kupang Municipality, NTT Province, Indonesia in order to achieve CO₂e target in regional level based on Kupang IO Table”, <i>Regional Science Inquiry Journal</i>, Vol. VI, No.1, RSI Athens, ISSN: 1791-5961 Print, 1791-7735 online, pp.13-28	
Conferences, symposium (<i>competitive grants</i>): oral presentation	
International:	
IAEE International Conference in New York, June 15-18, 2014.	Social economic evaluation in Kupang city to meet CO ₂ e target based on IO model. (<i>Granted by IAEE</i>), Participant
Gastech 2014 Student program in Seoul, Mar. 24-27, 2014.	Student exercise grouped by organizer to solve problem of costs associated with the delivery of LNG. (<i>Granted by Gastech</i>), Discussion group
JSRSAI The 50 th Annual Meeting in Uni. Of Tokushima, Oct. 12-14. 2013.	Comprehensive evaluation approach of current situation in Kupang municipality, NTT province, Indonesia in order to achieve CO ₂ e target in regional level based on Kupang IO model. (<i>Granted by Uni. Of Tsukuba</i>), Oral presentation
The 4 th International Conference on Sustainable Future for Human Security Sustain, Kyoto Uni., Oct. 19 – 21, 2013.	Evaluate feasibility develop renewable energy technology system and waste treatment plant to reduce CO ₂ emission in Kupang city, Indonesia based on Kupang input-output model (<i>Granted by Uni. Of Tsukuba</i>), Oral presentation
International Conference on sustainable Rural Development (ICSRD), Purwokerto, Indonesia, Aug. 25-26, 2013.	A comprehensive evaluation effort of current situation in Kupang city as local government to achieve Indonesia government target in reducing CO ₂ e emission based on analysis of Kupang input-output model. (<i>Granted by Uni. Of Tsukuba</i>), Oral presentation
IAEE European conference, Aug. 18-21, 2013 in Dusseldorf.	Energy economic of phasing out carbon and uranium. (<i>Granted by IAEE</i>), Oral presentation
Intl seminar: Engineering without Borders, Qld-Australia Branch, Oct. 02, 2010.	Pathways to working in developing countries, Brisbane-Australia. (<i>Granted by Engineering without Borders, Qld-Australia Branch</i>), Keynote speaker
Joint Symposium 2013 Uni. Of Tsukuba, Sept. 14, 2013	International Environmental Leader Training Program. (<i>Granted by EDL- Uni. Of Tsukuba</i>), Participant
EDL Wrap-up symposium, Feb. 13-14, 2014	Comprehensive evaluation approach of current situation in Kupang city, NTT Province, Indonesia in order to achieve CO ₂ e target in regional level based on Kupang IO table. (<i>Granted by EDL- Uni. Of Tsukuba</i>), Poster session
Tokyo Green Growth Symposium	Comprehensive evaluation of energy structure transformation policies to reduce GHG emission in Kupang, NTT, Indonesia: Assessment of Renewable energy technology with extended dual input-output analysis. (<i>Granted by UNU- IAS, Tokyo</i>), Oral presentation
Urban and Regional Economics Conference in Poland, June 11-12, 2015.	Optimization of regional economic structure transformation to reduce national GHG emission: A pilot model of GHG trends in Kupang City, NTT Province, Indonesia by using input-output analysis

Conference on Urban Development in China, June 25-26, 2015, Suzhou, China. Tourism and sustainable development, Bali, Aug. 3-4, 2015. (IRSA) the 5th Congress of the East Asian Association of Environmental and Resource Economics (EAAERE 2015), Taipei, August 5-7, 2015. Bringing Learning Home 2015 “Celebrating quality and skills”, Birmingham, Nov. 17-20, 2015 The 13th IRSA Conference: Demographic Change and Regional Development, Malang July 25-26, 2016. Kavli Indonesia-America Frontier of Science August 1-4, 2016. Bringing Learning Home 2016 “Celebrating quality and skills”, Amman- Jordan, Nov. 28-29, 2016. 58th ERSA Congress 2018 “Places for People: Innovative, Inclusive and Liveable Regions”, Cork, Ireland, Aug. 28-31, 2018. International Conference on Engineering, Technologies, and Applied Sciences (ICETsAS)”, Lampung, Indonesia, Oct. 18-20, 2018. The 15th IRSA International Conference: “Disasters and Regional Development”. Aceh, Indonesia, July 22-23, 2019. 59th ERSA Congress 2019 “Cities, regions and digital transformations: Opportunities, risks and challenges”, Lyon, France, Aug. 27-30, 2019. National: Islands of dry land development and tourism-based science and technology, Faculty of Science and Engineering, Nusa Cendana university, Kupang, Oct 28, 2016 Adaptation and mitigation of climate change in drylands island regions and its mainstreaming in national and regional development policies, Institute of Research and Community Service, Nusa Cendana University, Kupang, Oct 4, 2016 Conducted more than 15 FGDs as an expert in the field of energy systems and the environment on behalf of Nusa Tenggara Timur (NTT) Province, Indonesia (2017-2019) As the main speaker at various national seminars related to Energy and the Environment (2017-2022) Keynote speaker at SDGs youth submitted (Sponsored by <i>PLN Peduli</i>) 2022	Evaluation of economic structure development of Kupang City, NTT Province, Indonesia to meet national GHG emission targets Integrated assessment of regional economic structure to achieve national GHG emission case study in Kupang City, Indonesia Local economy structure transformation in reducing GHG emissions: case in Kupang, Indonesia International collaboration in the regional perspective: case study Kupang city, Indonesia. Carbon tax-based urban evaluation: A novel model in Indonesia Cutting down GHG emission in Indonesia: Carbon tax as a solution Achievement of the International collaboration: competitive collaboration between Dudley College and State Polytechnic of Kupang. GHG Emission Reduction Strategic Approach Model: An Integrated Data Panel Introduction in Kupang City, NTT Province, Indonesia An optimal panel data for the imposition of a carbon tax: a case study in Kupang City, NTT Province, Indonesia Energy Supply and Demand in Regional Indonesia: A Long-Range Simulation Energy Mix Simulation to Reach Regional Energy Strategy: A National Impact of East Nusa Tenggara Province, Indonesia Energy Mix Evaluation of electrical system and energy mix transformation in Kupang Model of restructuring estimate GHG in urban scale Regional Energy Planning of NTT Province 2018 – 2050 Interlinking between energy, environment and economy Understanding SDGs
Keynote speaker A number of national seminars mostly weekly 2022-2023	

National Seminar: “Carbon Tax as Solution to Improve Environmental Balance”. Kupang, Sept 27, 2020. National Seminar and Workshop: “Integrated Energy and Environmental System in Indonesia: Case study for NTT Province, Indonesia”. Kupang, 27-28 August, 2019 Seminar and Intl Workshop: “An integrated approach to embedding core skills in tertiary-level vocational education seminar” Semarang, March 23-24, 2017. National Conference: “The strategy of sustainable tourism development in NTT”, Polytechnic of Kupang, January 29, 2017. National Conference “Renewable energy as an alternative energy electricity to tackle problems in NTT”, State Polytechnic of Kupang, March 03, 2016.
General Appointed by General Election Commissions of Indonesia as member of the team to drafting material for regional head candidate public debate (Timor Tengah Utara regency, NTT Province, Indonesia), Oct 24, 2020. <i>Ditunjuk sebagai anggota Tim Penyusun Materi Debat Publik Calon Bupati Kabupaten Timor Tengah Utara, Provinsi NTT, Indonesia, 24 Oktober 2020.</i>
Organisation Communication committee of RSAI (PRSCO representative), 2022-present Member of the Indonesian Society of Applied Science (ISAS), 2018-present. Member of the International Input-Output Association (IIOA), Cleveland, 2015-present. Member of International Association for Energy Economics (IAEE), Cleveland, 2013-present (renewal). Member of Japan Section Regional Science Association International (JSRSAI), Japan, 2013-present. Member of Regional Science Association International, Portugal (RSAI), 2013-present. Member of Indonesia Regional Science Association (RSAI), Indonesia, 2015-present. Member of Gastech Student Programme Alumni.
Editorial team for: • Journal of Applied Mechanical Engineering and Renewable Energy • International Journal of Smart Grid and Sustainable Energy Technologies • International Journal of Sustainable Energy and Environmental Research • Journal of Applied Mechanical Engineering and Renewable Energy • Jurnal Ekonomi Kuantitatif Terapan, Udayana Univ. • Jurnal Kajian Ekonomi dan Keuangan, Kemenkeu • Jurnal Teknik Mesin, Politeknik Negeri Kupang Reviewer for: • International Journal of Environment and Waste Management, Inderscience • Renewable and Sustainable Energy Review, Elsevier • Cleaner Production, Elsevier • Waste Management, Elsevier • Science of the total environment, Elsevier • Energy Economy, Elsevier • Environment and Planning C: Government and Policy • Journal of Applied Mechanical Engineering and Renewable Energy (JAMERE) • Proposals for Annual regional call for proposals of Asia Pacific Network (APN) for Global Change Research and Scientific Capacity Building and Enhancement for Sustainable Development in Developing Countries (CAPaBLE) • Journal of Environmental Science and Management • APN Science Bulletin