



Dr. Kunaifi, ST., PgDipEnSt., M.Sc.

UNIVERSITY ACADEMICS | SENIOR RESEARCHER | PROJECT MANAGER

OBJECTIVE

Open for research collaboration, teaching (UG, PG, Doctoral), consultation, and project management.

SKILLS

Python for data analysis (intermediate), mapping using **QGIS** (intermediate), **RETScreen Expert** (fluent), **HOMER Pro** (fluent), Solar Power Irrigation Systems (**SPIS**) (fluent), Lorents **COMPASS** (fluent), **PVSyst** (fluent), **HELIOSCOPE** (fluent).

CONTACT DETAIL

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- <http://kunaifi.wordpress.com>

PROFILE

Kunaifi has been a sustainable energy researcher and project manager at Lembaga Enreach – UIN Suska Riau University for more than 10 years. He is also a permanent lecturer at UIN Suska Riau University in renewable energy and energy efficiency. Kunaifi is experienced in assessing renewable energy resources and designing solar photovoltaic systems, hybrid-microgrid power systems, and energy conservation. He has led and been involved in 24 energy consulting projects, funded mainly by European and Indonesian institutions such as GIZ-Germany, the Ministry of Foreign Affairs of Finland, The Apex Consulting, PLN (Persero), PT Energy Management Indonesia (Persero), PT Pertamina Hulu Rokan, Central Bank of Indonesia, several local governments, etc. Kunaifi has published two books, five journal articles, and more than ten conference papers. He holds academic degrees in Energy Studies, Renewable Energy, and Solar Photovoltaic Systems.

Kunaifi's field of interest includes Solar photovoltaic (PV) system analysis (including performance and degradation) • Small-scale productive applications of PV systems • Data science in renewable energy • Hybrid-microgrid power systems • Solar security and emergency • Other renewable energy • Energy conservation (audit and management) • Feasibility study of clean energy projects • Energy and sustainable development • Pumped-hydro.

NATIONALITY

Indonesia.

EXPERIENCE

11 years in Indonesia

LANGUAGES

Indonesia (native), English (fluent)

YEAR OF BIRTH

1976

PROFESSIONAL CAREER

VICE DEAN FOR STUDENT AND EXTERNAL COOPERATIONS • FACULTY OF SCIENCE AND TECHNOLOGY UIN SUSKA RIAU UNIVERSITY

Responsible for student affairs and external cooperation of the Faculty. They include facilitating and supervising student activities. I also facilitate, initiate, and organize external collaboration with other academic and research institutions, business entities, government organizations, and the community.

SENIOR RESEARCHER • LEMBAGA ENREACH • 2011 – PRESENT

Responsible for preparing research dan project proposals to be submitted to the potential partners, communicating with local and national sustainable energy-related stakeholders, developing the research design and their instruments, and coordinating and supervising research teams.

CHAIR OF BOARDS • LEMBAGA ENREACH • 2011 – 2016

Responsible for providing leadership to the firm's officers and executives, leading the charge on big-picture and long-term decisions, setting the tone for the firm's corporate culture, and working collaboratively with the Executive Director.

VARIOUS CONSULTANCIES AND PROJECT MANAGEMENT POSITIONS • 2011 – PRESENT

Working on projects with partner organizations such as GIZ Germany, MFA of Finland, Apex Consulting Washington, Castlerock Singapore, OTH Amberg-Weiden Germany, PLN (Persero), PT Energy Management Indonesia (Persero), Yayasan Spektrum Pelangi, several local governments, Central Bank of Indonesia, etc. Currently leading a two-year project on a non-energy topic with PT Pertamina Hulu Rokan (Persero).

Responsible for providing expected deliverables according to partner organization standards, disseminating and communicating the deliverables with relevant stakeholders, presenting and advocating the deliverables with policymakers, improving governance, and increasing capacity.

HEAD OF ELECTRICAL ENGINEERING DEPARTMENT FACULTY OF SCIENCE AND TECHNOLOGY UIN SUSKA UNIVERSITY OF RIAU UNIVERSITY • 2010-2013

Responsible for administering an academic department which may include and is not limited to faculty development, faculty evaluation, program development, program review, curriculum development, student advisement, class schedule planning, and general supervision of the teaching, research, and service and related scholarly activities of the department.

PERMANENT LECTURER • UIN SUSKA RIAU UNIVERSITY IN INDONESIA • 2003 – PRESENT

Responsible for developing the syllabus, providing material, delivering class activities, and evaluating students' works in several energy-related courses such as Introduction to Energy Studies, Renewable Energy (resources, technology, and system design), and Energy and Sustainable Development. Also facilitating and supervising students for research and experiment.

QUALIFICATIONS

Ph.D.	• Solar Photovoltaic Systems	• University of Twente-Netherlands	• 2021	• LPDP Scholarship & EU COST
M.Sc.	• Renewable Energy	• Murdoch University Australia	• 2009	• AusAid
PgDip.	• Energy Studies	• Murdoch University Australia	• 2008	• AusAid
B.Eng.	• Electrical Engineering	• STTNAS Yogyakarta Indonesia	• 2001	• Self-funding

SELECTED EXPERIENCE

SENIOR EXPERT FOR SOLAR PHOTOVOLTAIC • CENTRAL BANK OF INDONESIA AND YAYASAN WAKAF ENERGI NUSANTARA • 06/2022 - 08/2022 • FEASIBILITY STUDY OF 12 GREEN MOSQUES PROGRAM OF CENTRAL BANK OF INDONESIA 2022.

Responsibilities: Technical team leader with the tasks of collecting data, designing PV systems (rooftop on-grid / off-grid), costing, analyzing financial feasibility, and formulating reports for each of 12 mosques in Indonesia distributed on Sumatra, Java, Kalimantan, Sulawesi, and Maluku.

Achievements: Feasibility study has been completed. Some of the PV systems have been installed (all will be installed before end of 2022).

SENIOR EXPERT FOR RENEWABLE ENERGY • KUGAR PENDOWO LIMO PURWOREJO-INDONESIA • 06/2021 - 11/2021 • SOLAR WATER PUMP FOR SALT PRODUCTION IN PURWOREJO – CENTRAL JAVA, INDONESIA.

Responsibilities: Providing technical assistance to KUGAR PENDOWO LIMO, a group of salt producers in Purworejo, in reducing energy costs for drawing saltwater from the sea to the salt production sites, including technical design and financial analysis of a solar water pumping system.

Achievements: The project proposal resulting from this (unpaid) community service activity has received funding from LASNAZ BSMU of Bank Syariah Indonesia. Currently (May 2022), the project is under construction.

**SENIOR EXPERT FOR RENEWABLE ENERGY • GOVERNMENT OF RIAU PROVINCE • 03/2021 - 03/2022
ACTION PLAN ON SUSTAINABLE PALM OIL PLANTATION 2022-2024.**

Responsibilities: Together with other members of expert panels, my general responsibility is providing a synthesis of the views of various experts involved in the Action Plan formulation as well as identifying and characterizing the uncertainties in their analyses; providing evidence-based information to guide research, practice, and decision making; my specific task is providing detailed advice on the use of palm oil waste products as a viable renewable energy source to improve the sustainability of palm oil plantation.

Achievements: The Action Plan document has been submitted to the Provincial House of Representative (DPRD) to be included in the following Provincial Regulation (Perda) discussion agenda.

PROJECT MANAGER AND SENIOR EXPERT FOR ENERGY • PLN (PERSERO) • 03/2015 - 08/2015, 02/2016-06/2016, AND 06/2017-11/2017 • ELECTRIFICATION ROADMAP OF RIAU PROVINCE (THREE CONSECUTIVE YEARS WITH ROAD MAPPING PERIODS OF 2015-2019, 2017-2019, 2017-2021).

Responsibilities: Managing implementation of the project and providing expert service to the project component that includes: Collecting data from all PLN's branches and regency governments; defining the existing condition based on the collected data; mapping villages without PLN's grid, including their socio-economic situation and the difficulty level of access to the villages; formulating mathematical equation for ranking the villages to get the grid connection (prioritizing), sorting the villages according to the types of electricity connections (i.e., PLN's grid or stand-alone generation systems); applying the mathematical equation on each village, listing villages according to priority to get electricity from PLN, calculating investment cost for each village, mapping the village electrification program for the designated period.

Achievements: The Village Electrification Roadmaps of Riau Province for 2015-2019, 2017-2019, and 2017-2021, have already been approved and used by PLN as the primary guidance for the execution of village electrification programs in Riau Province to meet the Government requirement regarding the level of electrification rate.

SENIOR EXPERT FOR RENEWABLE ENERGY • SPEKTRA ENERGY INDONESIA • 06/2016-10/2016 • FEASIBILITY STUDY OF A 2 MWP AND 3 MWP GRID-CONNECTED SOLAR PV SYSTEMS IN INDRAGIRI HULU AND INDRAGIRI HILIR REGENCIES.

Responsibilities: Collecting design data and conducting site surveys at the proposed PV systems installation sites; developing communication with local PLN offices and local governments; conducting grid impact studies, developing contact with the system component's supplier in Japan, developing engineering design of the PV systems, analyzing the energy yield for the whole project period, conducting financial analysis (cost and revenue) and conducting risk analysis.

Achievements: The feasibility study documents and other required documentation have been submitted to the PLN Central Office and the Ministry of Energy and Mineral Resources (MEMR). Both PLN and MEMR did not request any revision to the feasibility study document. However, the project was canceled because the government changed the feed-in tariff regulation, which caused project finances to no longer be feasible.

PROJECT MANAGER AND SENIOR EXPERT FOR RENEWABLE ENERGY • GOVERNMENT OF DUMAI CITY • 05/2015-11/2015 • TECHNICAL DESIGN OF A SMART SOLAR STREET LIGHTING IN DUMAI CITY.

Responsibilities: Managing implementation of the project and providing expert service to the project component that includes: Collecting secondary data from the authority; developing engineering design of the PV systems and control mechanism, making a pilot system according to the design, and formulating a project proposal.

Achievements: The project proposal has been submitted and presented to the Government of Dumai City and submitted to the Bappeda to be included in the next year's city funding.

PROJECT MANAGER AND SENIOR EXPERT FOR RENEWABLE ENERGY • GOVERNMENT OF DUMAI CITY • 05/2015 - 11/2015 • FEASIBILITY STUDY OF A CENTRALIZED OFF-GRID SOLAR PV SYSTEM IN DUMAI CITY.

Responsibilities: Managing the implementation of the project and providing expert service to the project component includes: Collecting design data and conducting site surveys at an isolated village in Dumai City; developing communication with local people in the village to define the load profile; developing contacts with the system component's supplier in Jakarta, developing engineering design of the PV systems, analyzing the energy yield for the whole project period, conducting financial analysis and risk analysis, and together with people in the village to developing an economic and institutional model to ensure the sustainability of the project.

Achievements: The feasibility study document (in the form of an investment proposal) has been submitted and presented to the Dumai City Government and some representatives from the village.

SENIOR EXPERT FOR RENEWABLE ENERGY • GIZ • 04/2014-08/2014 • TECHNICAL DATA SURVEY AND ENERGY AUDIT FOR AIR SENA–FISHING VILLAGE HYBRID-PV PROJECT IN SUMATRA REMOTE ISLANDS.

Responsibilities: Travelling to a remote island, the project location; developing communication with local government, local people, and local BMKG (Bureau of Meteorology); conducting technical and socio-economic surveys in the village; identifying the primary sectors that need electricity and analyzing the socio-economic benefits of electricity to the targeted sector; making an agreement with the local people regarding the priority sectors to get electricity; developing technical designs of off-grid power generating systems for each target sector; and calculating the investment and operation cost of each system.

Achievements: The consulting report was submitted and presented to GIZ Jakarta and was used to develop a detailed engineering design (DED) of a power generating system in the targeted community.

PROJECT MANAGER AND SENIOR EXPERT FOR RENEWABLE ENERGY • MINISTRY OF FOREIGN AFFAIRS OF FINLAND • 02/2012-02/2013 • SETTING UP A RENEWABLE ENERGY CLEARINGHOUSE IN RIAU PROVINCE.

Responsibilities: Managing the implementation of the project and providing expert service to the project components includes: Detailed survey of the technical potential of biomass energy in Riau Province, including the potential calculation and mapping to the level of the municipality (kecamatan); setting up the first renewable energy network in Riau named Riau Renewable Energy Centre (RIREC) that bring along the provincial government agencies, local universities, relevant industries and companies, and NGOs.

Achievements: RIREC, the first organization of renewable energy proponents in Riau Province, has been established and is active today. The Ambassador of Finlandia visited RIREC and conveyed her appreciation for the project's success. Data on the biomass energy potential in Riau Province is still online today (but it requires updates).

SENIOR EXPERT FOR SUSTAINABLE ENERGY • SPEKTRUM PELANGI FOUNDATION • 09/2012-06/2013 • AN INTEGRATED REGIONAL ENERGY PLANNING OF RIAU PROVINCE USING THE LEAP SOFTWARE THAT IS GENERATED FROM A BOTTOM-UP APPROACH THROUGH CAPACITY BUILDING OF POLICYMAKERS AT THE DISTRICT LEVEL.

Responsibilities: Conducting a detailed energy-related survey to all regencies and cities in Riau Province to collect input data to LEAP; developing RUED using LEAP based on the data obtained from the survey for Riau Province and each regency and city; providing intensive training on the energy officials from each regency and city regarding energy planning.

Achievements: For the first time, Riau Province has its own RUED (regional energy planning) as mandated by the Law. The project produced 12 RUEDs i.e., one for the province and eleven for the regencies and cities. The government and non-governmental organizations have repeatedly cited the RUEDs made through this project.

SENIOR EXPERT FOR RENEWABLE ENERGY • THE APEX CONSULTING GROUP • 04/2012-07/2013 • CAPACITY BUILDING AND INVESTMENT FACILITATION FOR RENEWABLE ENERGY PROJECT DEVELOPERS, PALM OIL PLANTATIONS AND FINANCIERS.

Responsibilities: Facilitating the local business entities in Riau Province interested in entering the renewable market regarding the renewable business opportunities, funding schemes, and relevant regulations.

Achievements: Nearly 20 companies submitted terms of interest. Among them, 12 companies were selected to get training from experts from Apex. Three selected companies were presented to investors.

SENIOR EXPERT FOR ENERGY MANAGEMENT • PT ENERGY MANAGEMENT INDONESIA (PERSERO) • 04/2010 - 12/2010 • ENERGY AUDIT AND ENERGY MANAGEMENT PROGRAM OF OFFICE BUILDINGS IN PEKANBARU.

Responsibilities: Conducting a detailed energy audit in an office building; analyzing the audit data and presenting the energy consumption profile of the organization; identifying energy saving potentials; proposing energy management programs for the organization with and without investment cost; conducting financial analysis of energy management program i.e. cost-benefit and environmental analysis.

Achievements: The energy audit and energy management report has been submitted to the Ministry of Energy and Mineral Resources (MEMR) and presented to the office management as a guide for executing energy efficiency measures.

REVIEWER BOARD

INDONESIAN JOURNAL OF ELECTRICAL ENGINEERING AND RENEWABLE ENERGY

<https://journal.irpi.or.id/index.php/ijeere>

ENERGIES • IMPACT FACTOR 2020: 3.343

<https://www.mdpi.com/journal/energies>

APPLIED SCIENCES • IMPACT FACTOR 2020: 3.021

<https://www.mdpi.com/journal/applsci>

SUSTAINABILITY • IMPACT FACTOR 2020: 3.478

<https://www.mdpi.com/journal/sustainability>

MINISTRY OF RELIGION REPUBLIC OF INDONESIA

Provide review for national-level research and community service proposals and final reports.

UIN SUSKA UNIVERSITY

Provide review for university-level research and community service proposals and final reports.

TEACHING EXPERIENCE

- Energy and Sustainable Development
- Renewable Energy System Design
- Renewable Energy Resources
- Renewable Energy
- Introduction to Energy Studies

Best Lecturer in 2012, an Award from the Electrical Engineering students, Faculty of Science and Technology UIN Suska Riau University.

SELECTED INTERNSHIP AND TRAINING

2019: A short-term scientific mission (internship) on the Performance degradation of photovoltaic systems at the Institute for Renewable Energy, EURAC Research, Bolzano, Italy.

2017 - 2019: Various training on academic skills at the University of Twente, The Netherlands, on the topics of presentation skills, analytical storytelling, academic integrity, personal branding, project management, data management, academic publishing, technical writing and editing, professional effectiveness, scientific information, how to write with ease.

2011: Gender Mainstreaming for Energy Projects in Indonesia, Energy and Environment Partnership Finland-Indonesia, Pekanbaru.

2010: Conflict mediation training and certification, Indonesian Institute for Conflict Transformation (IICT), Jakarta, Indonesia.

2009: Designing and Installing PV Systems (Grid Connected), Research Institute for Sustainable Energy (RISE), Australia.

2008: Various training at Murdoch University Australia on occupational health, physical and ergonomic safety, research ethics, and fieldwork preparation.

2007: Various training at Indonesia-Australia Language Foundation (IALF) on cross-cultural training and academic writing.

SELECTED PUBLICATIONS

BOOKS

- Kunaifi, 2020. Introduction to Energy Studies. Cahaya Firdaus Publishing and Printing. ISBN: 978-623-6827-69-7.
- Kunaifi, K., Veldhuis, A.J., Reinders, A.H.M.E, 2020. The Electricity Grid in Indonesia: The Experiences of End-users and Their Attitudes Toward Solar Photovoltaics. Nature Springer Switzerland. eBook ISBN: 978-3-030-38342-8.
- Liliana, Kunaifi, M. Irsyad, S. Afriani, 2020. Design and Implementation of a Solar Water Pumping System. Al-Mujtahadah Press. ISBN: 9786025682117.
- K Kunaifi, 2011. Hybrid Power System for Rural Electrification: Case Study in Riau Province - Indonesia. Lap Lambert Academic Publishing: Saarbrücken- Germany, pp. 1-120, ISBN-10: 3844329145.

RECENT JOURNAL ARTICLES

- Kunaifi, K.; Reinders, A.; Lindig, S.; Jaeger, M.; Moser, D. Operational Performance and Degradation of PV Systems Consisting of Six Technologies in Three Climates. *Appl. Sci.* 2020, 10, 5412.
- K Kunaifi, AHME Reinders, D Kaharudin, A Harmanto, K Mudiarto, 2019. A Comparative Performance Analysis of A 1 MW CIS PV System and a 5 kW Crystalline-Si PV System under the Tropical Climate of Indonesia. *International Journal of Technology*, Volume 10 (6), pp. 1082-1092.
- K. Kunaifi, Reinders, A., 2018. Perceived and Reported Reliability of the Electricity Supply at Three Urban Locations in Indonesia. *Energies*, Volume 11(1), pp. 1–24
- P Papilo, K Kunaifi, E Hambali, N Nurmiati, RF Pari, 2015. Penilaian Potensi Biomassa sebagai Alternatif Energi Kelistrikan (in English: Evaluation of Biomass Potential as an Alternative for Electrical Energy Generation). *PASTI*, Volume 9(2), pp. 164–176.

CONFERENCE PAPERS

- K Kunaifi, L Liliana, H Simaremare, M Mulyono, W Anjarjati. Design and Analysis of Solar Water Pumping for Salt Production in Indonesia. *IOP Conference Series: Earth and Environmental Science* 927 (2021)
- A Faizal, K Kunaifi, NP Miefthawati, A Ullah, W Anjarjati. Design and Analysis of a Solar-Powered DC Irrigation System: A Case Study of a Shrimp Pond. *IOP Conference Series: Earth and Environmental Science* 927 (2021).
- Z Aini, K Kunaifi, A Wenda, E Ismaredah, W Anjarjati. Solar Irrigation System in Indonesia: Practical Assessment and Evaluation for Converting Fossil Fuels with Solar Energy. *IOP Conference Series: Earth and Environmental Science* 927 (2021)
- Kunaifi, K., Reinders, A.H.M.E., 2018. Performance of a Remote Hybrid PV System based on Real and Modelled Data in Indonesia. In: *The 35th European Photovoltaic Solar Energy Conference and Exhibition (EU-PVSEC)*, at Brussels, Belgium, pp. 2060–2065.
- P Papilo, I Kusumanto, K Kunaifi, 2017. Assessment of agricultural biomass potential to electricity generation in Riau Province. *IOP Conf. Ser.: Earth Environ. Sci.* 65 012006. pp. 1–13.
- Kunaifi, K., Reinders, A.H.M.E., 2017. Estimating the Technical Potential of Grid-connected PV Systems in Indonesia: A Comparison of a Method based on Open Access Data with a Method based on GIS. In: *33rd European Photovoltaic Solar Energy Conference and Exhibition*. WIP Renewable Energies, Amsterdam, pp. 2652–2658.
- Y Zalfiatri, K Kunaifi, 2016. Potensi Energi Teoritis dan Teknis dari Limbah Biomass di Pekanbaru (in English: Theoretical and Technical Energy Potential of Biomass Waste in Pekanbaru). In: *Seminar Nasional Pelestarian Lingkungan & Mitigasi Bencana*, Pekanbaru.
- Kunaifi, K., P. Papilo, W. Astuti. 2015. Two Decades of Breathing the Haze: An Epic from Riau Province – Indonesia. In the *4th Prince of Songkla University - Kanazawa University Joint Workshop (4th PSU-KZU JW)*, the *3rd Workshop on East Asia Nanoparticle Monitoring Network (EA-NanoNet-3)* and the *3rd Workshop on Environmental Issues related to Agriculture and Agro-industries in South East Asia (EIAA-3)*. Hat Yai –Thailand, 8-9 December 2015. Hat Yai: Prince of Songkla University Thailand and Kanazawa University Japan.
- K. Kunaifi. 2014. Biomass Energy Potential in Riau Province, National Seminar on Engineering, Faculty of Engineering Khairun University Ternate, 9 December 2014.
- K Kunaifi, 2012. Biomas Energy Potential in Kampar Regency. In: *4th Seminar Nasional Teknologi Informasi Komunikasi dan Industri (SNTIKI)*, Pekanbaru, pp. 406-412.

K Kunaifi, D Nuryadi, 2011. Rumah Mandiri Energi Menggunakan Tenaga Surya dan Biogas (in English: An Energy Independent House Using Solar Power and Biogas). In: 3rd Seminar Nasional Teknologi Informasi Komunikasi dan Industri (SNTIKI), Pekanbaru, pp. 437-443.

K Kunaifi, 2010. Program HOMER untuk Studi Kelayakan Pembangkit Listrik Hibrida di Propinsi Riau, In: Proceedings of Seminar Nasional Informatika (SEMNASIF), Yogyakarta, pp. B-18 - B-27.

THESIS

2021. Solar Photovoltaic Systems in Indonesia's Grid: Experiences of End-Users and Evaluations of Photovoltaic Systems Performance. PhD thesis, Universiteit Twente, The Netherlands.

2009. Options for the electrification of rural villages in the Province of Riau, Indonesia. Master thesis, Murdoch University Western Australia.

2002-2014

Various (31) popular articles were published in local and national newspapers and magazines in Indonesia on sustainable energy, environment, and general science.

INVITED TALKS

2022. Performance and Degradation of PV Systems in Indonesia. Guest Lecture at Faculty of Informatics – Telkom University Bandung. 24 June 2022.

Exploratory Data Analysis for data-based research, Oral presentation in a workshop organized by Language Centre of UIN Suska Riau University, 9 December 2021.

2022. Exploratory Data Analysis for data-based research, Oral presentation in a workshop organized by Language Centre of UIN Suska Riau University, 9 December 2021.

2022. Renewable Energy: The role of university students in anticipating Gold Indonesia 2045, Oral presentation in a webinar organized by Electrical Engineering Student Organisation of Padang State Polytechnique of Technology, 4 November 2022.

2022. Exploratory Data Analysis for data-based research, Oral presentation in a workshop organized by Language Centre of UIN Suska Riau University, 9 December 2021.

2021. Designing solar pumping system using Lorentz COMPASS, Oral presentation in a workshop organized by Department of Electrical Engineering Bengkalis State Polytechnique of Technology, 28-29 October 2021.

2021. PV systems and their development in Indonesia, Oral presentation (online) in a webinar organized by Electrical Engineering Student Organisation of Bengkalis Polytechnique of Technology, 18 September 2021.

2021. Feasibility Study of Megawatt Scale PV Systems, Oral presentation (online) in Webinar of Future Energy Trend, Faculty of Vocation Yogyakarta National Institute of Technology, 29 May 2021.

2020. Using Natural Resources for Renewable Energy Supply in Indonesia, Oral presentation at National webinar from New and Renewable Energy Centre LPPM Sam Ratulangi University, Chemist Society Chapter North Sulawesi, and Indonesian Biologi Association Chapter North Sulawesi, Manado, 30 November 2020.

2020. Resilient, sustainable energy supply on islands – the case of photovoltaic solar energy in Indonesia, oral presentation at WINNER Week of Indonesia Netherlands Education and Research International Online Conference, 24-26 November 2020.

2020. Why Indonesia's Energy Supply Should Convert to Renewable? Oral presentation at a webinar on Economics of Sharia Economics Student Organisation of UIN Sunan Ampel University, Surabaya, 21 October 2020.

2020. Solar PV Systems and their Development in Indonesia. Oral presentation (online) at National Webinar Innergy, Department of Engineering Physics, ITS Surabaya, 20 September 2020.

2020. The academic development of Industrial Engineering Department. Oral presentation (online) at the Faculty of Engineering University of Pahlawan, Bangkinang, 8 July 2020.

2020. PhD in the Netherlands: Dos and Don'ts. Oral presentation (online) at the International Office of UIN Suska Riau. Pekanbaru, 18 May 2020.

2018. Renewable Energy for Indonesia's Sustainable Development. Oral presentation on the PPI Enschede and Kagama Netherlands' Discussion, Enschede, The Netherlands, 27 October 2018.

2015. Challenges in Searching the Alternative Energy Sources after Oil. Indonesian Journalists Association-Riau Branch and Chevron Pacific Indonesia. Pekanbaru, 22 December 2015.

2015. ICT and Environment. Department of Information Systems FST UIN Suska Riau University. Pekanbaru, 14 November 2015.

2014. Setting Up a Renewable Energy Research Centre at the State Polytechnique of Bengkalis, Research, and Community Service Institute of, 12 December 2014.

2014. Energy Efficient Architecture in Tropical Areas, Guest Lecture at the Department of Architecture Khairun University Ternate, 6 December 2014.

2014. Renewable Energy Sistem Design Using AS.4509.2-2002 Standard, Guest Lecture at the Department of Electrical Engineering Khairun University Ternate, 6 December 2014.

2014. Renewable Energy for Indonesian Energy Security, FU As Salam UIN Suska Riau, 2 November 2014.

2014. Renewable Energy: Solution to National Energy Issues, Studium Generale Chemical Engineering Muhammadiyah Riau University.

2013. Energy Efficiency as a Pillar of Sustainable Energy. Workshop on Sustainable Energy Research and Development Institute of UIN Suska Riau University. Pekanbaru. 21 December 2013.

2013. The Roles of Cities in Energy Crisis Era: Future Opportunities. Indonesian Electrical Engineering Student Organisation – Sumatera Branch, Pekanbaru. 4 September 2013.

2012. Riau's Experience in Developing Clean Energy Network. Workshop on Business Networking for the Renewable Energy Sector in Central Kalimantan. Palangkaraya. 4 September 2013.

2012. Setting Up a Renewable Energy Clearing House in Riau Province. Energy and Environment Partnership with Indonesia Program Funded by the Ministry of Foreign Affairs Finland. Pekanbaru. April 2013.

2010. Opportunities and Challenges of Engineers in Facing the World Energy Crisis. In the Seminar of the Faculty of Engineering of the Riau Muhammadiyah University, Pekanbaru, 26 June 2010.

COUNTRIES VISITED

Austria, Australia, Netherlands, Belgium, China, Italy, Germany, Luxembourg, Malaysia, French, Portugal, Singapore, Switzerland, Thailand, and United Emirates Arab.

MEDIA COVERAGE

2011 – present: More than 30 interviews by Indonesian media, primarily local media in the Province of Riau, on sustainable energy issues.

REFERENCES

PROF. DR. A.H.M.E. REINDERS
Department of Design, Production, and
Management (DPM), Faculty of
Engineering Technology (ET),
University of Twente.
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