Programme EFEA 2024
8th International Conference on Environment Friendly Energies and Applications

Day 1 4 November 2024	
Registration	13:00-13:30
Opening Ceremony Lombok Traditional Dance Welcome and Explanation of the Activity Agenda Safety Induction Singing the National Anthem of Indonesia Raya Opening Speech of General Chair Speech from the Rector of University Mataram Prayer	13:30-14:00
Keynote Speech 1 (EFEA)	14:00-14:30
Keynote Speech 2 (MIMSE)	14.30-15.00
Q&A	15.00-15.20

Session One
Chair: Prof. Alireza Maheri — 15:30- 18:10

Present #	Paper ID	Paper Title	Prsenter
1	13	Decarbonisation of Ski Resorts: Case of the Lecht Ski Centre in the Scottish Highlands	Richard J Heard
2	49	Assessing Energy Transition Strategies of Germany, Nigeria, Qatar and the United Kingdom	Ajinatswen A Dawuda
3	20	Energy Transition in Oil-producing Sub-Saharan Africa: The Case of Nigeria	Ajinatswen A Dawuda
4	25	Pumped Storage Hydropower in High Renewable Energy Penetration Systems	Edwin M Gamboa Pirca
5	23	A Pathway to Net-zero Power Generation in Barbados Using Hybrid Renewable Energy Systems and Hydrogen	Tré K N Mason
6	48	Decarbonisation of Operation of an Oil & Gas Platform and Repurposing for Green Hydrogen Production	Alireza Maheri
7	18	Transition of Isolated Communities to Net-zero: Case of El Pinar on El Hierro in the Canary Islands	Imam Abed
8	19	Cost and Power Modelling Parameters of Different Utility Scale Battery Technologies for Design of Hybrid Renewable Energy Systems	Imam Abed

Day 2 5 November 2024	
Keynote Speech 3 (MIMSE)	08:30-09:00
Keynote Speech 4 (MIMSE)	09:00-09:30
Keynote Speech 5 (EFEA)	09:30-10:00
Q&A	10:00-10:30

Session TWO **Chair: Dr I Nyoman Wahyu Satiawan**			10:40-12:40
Present #	**Paper ID**	**Paper Title**	**Prsenter**
1	24	Efficiency Improvement of Two-level Inverter with Varied DC-link Voltages	I Nyoman Wahyu Satiawan
2	26	Prototype of IoT-Based Smart Fuel Dispenser with Solar Energy and Blynk Integration for Fuel Stock Monitoring	ABDUL AA AZIS
3	41	Dynamic Performance Evaluation of Three Phase Induction Motor Powered By Multilevel Inverter Using Matlab/Simulink	I Ketut Wiryajati
4	43	Analysis of Environmental Influences on Solar Powered Drip Irrigation Systems Using Classification and Clustering	Ida Ayu Branitasandhini Putra
5	44	Optimization of Solar Powered Internet of Things Based Drip Irrigation Control using Classification and Clustering	Nurul Umami
6	46	Fuzzy-Based Decision Support System for Energy Control in Solar Powered Drip Irrigation	Jasmine Nabila

Session THREE **Chair: Dr R. Rosmaliati**			15:00-17:20
Present #	**Paper ID**	**Paper Title**	**Prsenter**
1	11	Compressed Hydrogen Storage Cost and Power Modelling Parameters and a Robust Power Balance Analysis Algorithm	Jenson Trow
2	17	Pumped Storage Hydropower Cost and Power Modelling and Power Balance Analysis in Multi-vector Energy Systems	Brian A Macleod
3	12	CHP Cost and Emission Modelling Parameters and Power Balance Analysis Algorithm for Design of Multi-vector Energy Systems	Richard J Heard
4	33	Gaseous and PM emissions from direct oxidation of cow manure	Ognyan Sandov
5	38	The State-of-the-Art and Future Trends of Propulsion Systems in EVs	Xiang Shen
6	32	Improving Directional Overcurrent Relay Coordination Through Novel Optimization Methods	Mohammed Bouchahdane
7	34	Health Index Assessment of Power Transformer	Mohammed Bouchahdane

Day 2-Cont.
5 November 2024

Session FOUR Chair: Dr Tri Rachmanto			15:00-17:20
Present #	**Paper ID**	**Paper Title**	**Prsenter**
1	37	Power regulation strategy of downwind wind turbines based on cone angle control	Xiang Shen
2	39	Enhancing Wind Tunnel Aerodynamic Testing with User-Defined Signal Functions for Accurate Angle-of-Attack Oscillation	Xiang Shen
3	2	Flexural Behaviour of Slender Flexibles in Floating Offshore Energy Devices	Majid Aleyassin
4	16	Analysis of Anchor and Fairlead Forces on Offshore Floating Wind Platforms	Majid Aleyassin
5	14	Wind Farm Operation: Advances in Optimising Operation and Maintenance	Ramin Mansouri
6	15	Wind Farm Design: Advances in Layout and Cabling Optimisation and Site Selection	Ramin Mansouri
7	47	Analytical, FEM-Based and Experimental Determination of Power Losses in a Synchronous Reluctance Motor Drive	Leposava Ristic
8	21	Integrated Modelling and Control Strategy for PMSG-Based Wind Energy Conversion Systems with Voltage, Torque, and Speed Controllers	Kaleem Khodabux

Day 3
6 November 2024

Workshops 10:00-12:00