

Conference Program

31 August 2021, Tuesday		
Time (Thailand time)	Session Title	Session Chair (s)
08:25 – 09:00	Opening and Welcome Session (35 minutes) <ul style="list-style-type: none"> Welcome Remarks by Prof. S. Kumar, Conference Chair, AIT Opening Remarks by Dr. Eden Y. Woon, AIT President Welcome Remarks Ms. Francesca Gilli Attaché Programme Officer Cooperation Delegation of the European Union to Thailand Project Introduction and Summary by Dr. Antonios Tsikalakis, MESFIA Project Coordinator (Hellenic Mediterranean University, Greece) 	Prof. Shobhakar Dhakal Asian Institute of Technology (AIT), Thailand
09:00 – 09:30	KEYNOTE Address 1 (30 minutes): The Last Mile: the Longest 21st Century Energy Services for Remote Communities <i>Dr. Priyantha Wijayatunga</i> <i>Asian Development Bank (ADB)</i>	
09:30 -10:30	<u>Session 1:</u> (60 minutes, 4 papers maximum) <i>Promoting Electricity Access</i> <ol style="list-style-type: none"> MESFIA_109: Reaching People: An Overview of the Electricity Access with a Focus on the Renewable Off-Grid Electrification in Namibia MESFIA_130: Feed-In Tariff for PV for Indonesia MESFIA_135: Off-grid Self-sustained Electricity Supply for Isolated Villages: Case of Baththalangunduwa Island in Sri Lanka MESFIA_112: Fuel transitioning in crises: A study of an LPG cooking-system pilot project conducted in Kachin IDP camps, Myanmar 	<ol style="list-style-type: none"> Assoc. Prof. Dr. Sarintip Tantaneer (Naresuan University, Thailand) Dr.-Ing. Deny Hamdani (Institut Teknologi Bandung, Indonesia)
10:30 – 10:45	Coffee/Tea Break (15 minutes)	

10:45 – 12:00	<p>Session 2: (75 minutes, 5 papers maximum) <i>Renewable Energy Resources for Isolated Areas Energy Access</i></p> <ol style="list-style-type: none"> MESFIA_118: A Study into Forced-Air-Cooling and Heat Pump Systems for Solar Panels MESFIA_103: Characteristics of Biogas-Hydrogen Engines in a Hybrid Renewable Energy System MESFIA_137: Concentrated Solar Thermal Power: Potential of Application in Sri Lanka MESFIA_140: Performance of Household Rice Husk Downdraft Gasifier in Vietnam – Modeling and Experiment MESFIA_139: Influence of Several Variables on the Estimation of Wind Turbine Power Outputs using Support Vector Regression Technique 	<ol style="list-style-type: none"> Prof. Salvador Suarez (Instituto Tecnológico de las Islas Canarias (ITC), Spain) Prof. Georges Zisis (Universite Toulouse III – Paul Sabatier (UPS), France)
12:00 – 13:00	Lunch Break (60 minutes)	
13:00 – 15:20	<p>Electricity Access in Isolated Areas: Panel Discussion (Utilities) (140 minutes) Bhutan, Cambodia, Indonesia, Sri Lanka, Thailand, Fiji, Greece, Spain</p>	<ol style="list-style-type: none"> Prof. S. Kumar (Asian Institute of Technology (AIT), Thailand) Dr. Jai Govind Singh (Asian Institute of Technology (AIT), Thailand)
15:20 – 15:35	Coffee/Tea Break (15 minutes)	
15:35 – 16:05	<p>KEYNOTE Address 2 (30 minutes): Renewables for Energy Access in Asia: Key Lessons and Way Forward <i>Mr. Divyam Nagpal</i> <i>International Renewable Energy Agency (IRENA)</i></p>	<ol style="list-style-type: none"> Prof. Salvador Suarez (Instituto Tecnológico de las Islas Canarias (ITC), Spain) Prof. Georges Zisis (Universite Toulouse III – Paul Sabatier (UPS), France)
16:05 – 17:55	<p>Session 3: (105 minutes, 7 papers maximum) <i>Energy Access in Island Communities</i></p> <ol style="list-style-type: none"> MESFIA_104: Impacts of Network Parameter Variation in the Stability of Small Island Power Systems with VRE MESFIA_107: Scenario Analysis of Generation Expansion Planning for Indonesian Archipelagic Islands: A Case Study of Halmahera Island MESFIA_117: Hybrid System (Solar Photovoltaic Power Plant + Diesel Power Plant) as Technical Solution to Reduce Electricity Production Cost in Tourist Destination Isolated Island - Case Study Karimun Jawa Island MESFIA_120: Solar and Wind Energy Resource Assessment for Bantayan Islands MESFIA_122: Optimal Small Wind Turbines for Small Isolated Island's Energy Resilience Considering Wind Uncertainty: A Case of Komodo Island 	<ol style="list-style-type: none"> Prof. Bich Huy Nguyen (Nong Lam University (NLU), Vietnam) Mr. George Koulouris (Canary Wharf Consulting (CWC), United Kingdom)
END of DAY 1		

01 September 2021, Wednesday

Time (Thailand time)	Session Title	Session Chair(s)
09:00 – 9:15	Short recap of day 1 (15 minutes)	<ol style="list-style-type: none"> 1. Dr. Sarjiya Sarjiya (Universitas Gadjah Mada, Indonesia) 2. Asian Institute of Technology (AIT), Thailand
9:15 – 10:15	<p>Session 4: (105 minutes, 7 papers maximum) <i>Electricity Access and Microgrids</i></p> <ol style="list-style-type: none"> 1. MESFIA_126: Methods for the Integration of Solar PV into UC Scheme in Isolated Microgrid System 2. MESFIA_105: A Study of Low Voltage Distribution Network Topologies under Load Profiles Uncertainty 3. MESFIA_115: Reliability Analysis of Micro-grid with One Large Solar PV and Distributed Small Solar PV: Case Study Karampuang Island 4. MESFIA_142: A Review of Applied Methods in Microgrid Protection 	<ol style="list-style-type: none"> 1. Assoc. Prof. Dr. Vo Trung Hung (University of Technology and Education – The University of Danang (UTE-UD), Vietnam) 2. Assoc. Prof. Dr. Sarintip Tantanee (Naresuan University, Thailand)
10:15 – 10:30	Coffee/Tea Break (15 minutes)	
10:30 – 11:15	<ol style="list-style-type: none"> 5. MESFIA_134: Islanding Operation among Solar Hybrid System and Grid-tied PV System in Buildings 6. MESFIA_136: Microgrid Technology and Development in Thailand 	
11:15 – 12:15	Lunch Break (60 minutes)	
12:15 – 12:45	<p>KEYNOTE Address 3 (30 minutes):</p> <p>Closing the Gap - Insights into Clean Cooking in the Asia-Pacific <i>Mr. Michael Williamson</i> <i>United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP)</i></p>	<ol style="list-style-type: none"> 1. Dr. Sarjiya Sarjiya (Universitas Gadjah Mada, Indonesia) 2. Dr. Jai Govind Singh (Asian Institute of Technology (AIT), Thailand)
12:45 – 14:00	<p>Session 5: (75 minutes, 5 papers maximum) <i>Energy Access and Social Development</i></p> <ol style="list-style-type: none"> 1. MESFIA_128: Solution for Supplying Electricity to Isolated Regions: A Case Study of Vietnam 2. MESFIA_129: Postgraduate Programs relevant to Sustainable Development and Energy Access organized by Universities in Islands or Isolated Areas 3. MESFIA_132: A Review of Software Tools for Technical Training Needs in Isolated Areas 4. MESFIA_133: Energy Access and Energy Use Status and Barriers for Renewable Energy Deployment in Remote Villages in Southern Myanmar 5. MESFIA_138: A Novel Optically Transparent Array Antenna Using Conductive ITO Film and Integrated in OLED for mm-Wave 5G Applications. 	<ol style="list-style-type: none"> 1. Dr. Antonios Tsikalakis (Hellenic Mediterranean University (HMU), Greece) 2. Dr.-Ing. Deny Hamdani (Institut Teknologi Bandung, Indonesia)
14:00 – 14:15	Coffee/Tea Break (15 minutes)	
14:15 – 15:15	<p>Session 6: (60 minutes, 4 papers maximum) <i>Energy Supply in Mountainous and Isolated Areas</i></p>	<ol style="list-style-type: none"> 1. Dr. Jai Govind Singh, Asian Institute of Technology (AIT), Thailand

	<ol style="list-style-type: none"> 1. MESFIA_116: Optimal and Reliable Variable Renewable Energy Power Plant for Isolated Area - Case Study Riam Batu Village 2. MESFIA_119: Data-Flow Programming Based Non-Intrusive Load Monitoring for Electricity in Remote Area 3. MESFIA_124: Assessment of Renewable Energy Power Generation in Tegal Regency Using HOMER Simulation 	<ol style="list-style-type: none"> 2. Ms. Nefeli Bantela, EUROTraining, Greece
15:15 – 15:30	<p>Closing Session (Concluding remarks from MESfIA Partners)</p> <ul style="list-style-type: none"> • Asian Institute of Technology (AIT), Thailand • Naresuan University (NU), Thailand • Universitas Gadjah Mada (UGM), Indonesia • Institut Teknologi Bandung (ITB), Indonesia • University of Technology and Education – The University of Danang (UTE-UD), Vietnam • Nong Lam University (NLU), Vietnam • Instituto Tecnológico de las Islas Canarias (ITC), Spain • Université Toulouse III-Paul Sabatier (UPS), France • Canary Wharf Consulting (CWC), United Kingdom • EUROTraining, Greece • Hellenic Mediterranean University (HMU), Greece 	