

CONFERENCE PROGRAMME

3rd International Conference on Solar Technologies & Hybrid Mini Grids to improve energy access

September 15 – 17, 2021



SIDE EVENT

Innovation Lab – Energy Access in A Crucible



September 15, 09:00 - 12:30 hrs

Hosted by Affordable Energy for Humanity (AE4H)

Prof. Jatin Nathwani, WISE, Canada

The goal of the ‘Innovation Lab’ is to develop and stress test a specific set of solutions for rapid implementation in the context of energy access in a disadvantaged community. We will rely on the diverse, but, deep expertise that each participant brings to the lab. It is a dynamic learning platform that relies on a multi-disciplinary approach to provision of energy services for the very poor.

We will draw on the strengths from the following:


*technical and data analytical expertise,
economics and business models supporting micro-enterprises,
insights that inform social value of energy; its generative impacts
and service value maps that address cultural preferences, needs
of the young and the old and gender inequities.*

WEDNESDAY SEPTEMBER 15

13:15	REGISTRATION OPEN
14:00 14:35	Opening Address 14:00 – Xavier Vallvé , Trama TecnoAmbiental (Spain) 14:05 – Dr. Andreu Moià , Universitat de les Illes Balears (Spain) 14:15 – Bärbel Höhn , Special Representative for Energy in Africa of the German Federal Ministry for Economic Cooperation and Development (BMZ) (Germany) – to be confirmed

SESSION 1: PROGRESS AND CHALLENGES IN ACHIEVING SDG 7

Chairs: Dr. Carsten Hellpap, GIZ, Germany
Xavier Vallvé, Trama TecnoAmbiental, Spain

14:35	SDG7: Status of Achievements of Energy Access for All, and the Role of Mini Grids in Reaching Universal Electrification Tatia Lemondzhava - The World Bank (US)
14:50	Solar – Thermal Systems as Solution to the Power Crisis in Southern Africa Werner Weiss - AEE Institute for Sustainable Technologies (Austria)
15:05	Delivering Sustainable Renewable Energy through Market - Based Approaches in Humanitarian Settings: Approach and Lessons Learnt in Rwanda Tracy Tunge - Practical Action (United Kingdom)
15:20	Discussion
15:30	JICA's Experience in Renewable Energy Integration: Lessons and the Way Forward Toru Kobayakawa - Japan International Cooperation Agency (Japan)
15:45	Experiences of Cooking on Solar Mini Grids Dr. Simon Batchelor - Gamos - Loughborough University - University of Surrey (United Kingdom)
16:00	Status of the Global Off-Grid Solar Market Drew Corbyn - GOGLA (The Netherlands)
16:15	Discussion
16:25	INDUSTRY FORUM <ul style="list-style-type: none">• Cegasa, Spain• SOCOMEC, France• Studer, Switzerland• Sunlight, Greece
16:35 17:15	Coffee Break 

17:15 - 18:45	<p style="text-align: center;">SESSION 2: POSTER SESSION</p> <p style="text-align: center;">Chairs: Tobias Zwirner, Phaesun, Germany David Otieno, GIZ, Ethiopia</p>
A: SMALL PV	
<p>Closing the Inequality Gap, Through Distributed Energy Resources (Nano, Micro and Small Solar Grids) Ignacio Smith - SM Solar (Republic of Trinidad and Tobago)</p>	
<p>Off - Grid Electricity Generation and Consumption: Quo Vadis? Gerhard Gruhler - Heilbronn University of Applied Sciences (Germany)</p>	
<p>Optimizer - Based PV Systems under Shading Conditions Virginia Cebollada Alvarez - University of Gävle (Sweden)</p>	
<p>The Advantages of MILP Procedures for Microgrid Sizing Marina Petrelli - Politecnico di Milano (Italy)</p>	
<p>Comparative Assessment of Off - Grid Solar Photovoltaic (PV) System: Technical & Investment Analysis Dr. Abdul Muhaimin Mahmud - Public Works Department of Malaysia (Malaysia)</p>	
<p>Grid Extension vs? Mini grids vs? SHS Esteban Manuel Pérez González - Sunkofa Energy (Spain)</p>	
B: MINI GRIDS	
<p>Implementing Quality Criteria in Mini - Grids – Best Practices and Lessons Learned Dr. Jens Eiko Birkholz - SMA Sunbelt Energy GmbH (Germany)</p>	
<p>Mini Grid Design for Diverse Agricultural Value Chains in Mali Using a Novel Lead - Acid Battery System Julian Krüger - YANDALUX GmbH (Germany)</p>	
<p>Systematic Technical Review to Improve Quality of PV Mini - Grids for Rural Communities in Indonesia Atiek Puspa Fadhillah - GIZ GmbH (Indonesia)</p>	
<p>Solar PV Minigrids in Haiti for Rural Electrification and Women Empowerment Jean Michel Durozca - UNDP - Haiti (Haiti)</p>	

C: MINI GRIDS

Networked Rural Electrification

Daniel Zimmerle - Colorado State University (USA)

Technical Concepts for Smart DC - Microgrids

Jolly Florian Kemadjou - Heilbronn University of Applied Sciences (Germany)

Smart Rectifier for Small Wind Generators

Christian Kraft - Heilbronn University of Applied Sciences (Germany)

Low - Cost and Universal Remote Monitoring System for Photovoltaic Mini - Grids

Bagus Ramadhani - GIZ (Indonesia)

D: COST & PLANNING

GIS Approach for Rural Electrification

Silvia Corigliano - Politecnico di Milano (Italy)

Mapping Policy for Solar Irrigation Across the Water - Energy – Food (W - E - F) Nexus in India

Christopher Beaton - GIZ India (India)

Decentralized Electrification Planning and Monitoring Using Open Source Tool

Muhammad Imran – Integration environment & energy GmbH (Germany)

E: FINANCIAL AND ECONOMIC FINDINGS

Households' Willingness to Pay for Improved Electricity Services: Evidence from Rural

Michele Andreottola - Reiner Lemoine Institut GmbH (Germany)

Blockchain vs DLT for Small Energy Community

Pere Sabater - University of Balearic Islands (Spain)

Using Blockchain to Incentivize Small Scale Power Trading and Mini - Grid Creation

Michele Velenderic - Green Power Brains (Germany)

F: SOLAR THERMAL SYSTEMS

Creation of an Energy Efficiency Fund for the implementation of the Solar Thermal Roadmap for Namibia

Helvi Iлека - Namibia Energy Institute, Namibia University of Science and Technology (Namibia)

Impact of Solar Thermal Systems Penetration on Electricity Loads: An Assessment of Maputo City, Mozambique

Célia Artur - Eduardo Mondlane University (Mozambique)

Monitoring Results of Solar Thermal Systems in the South African Region

Rudolf Moschik - AEE INTEC (Austria)

Solar Thermal Roadmap and Implementation Plan for Zimbabwe and Realized Demonstration Systems

Samson Mhlanga - National University of Science and Technology (Zimbabwe)

G: SOLAR THERMAL SYSTEMS

The Use of Composite Heating Storage Materials Based on $Zn(NO_3)_2 \cdot 6H_2O$ for Space Heating and Domestic Hot Water Supply in the Arctic Region of the Russian Federation

Testov Dmitriy - Dubna State University (Russia)

Heating Storage Materials Based on $MgNO_3 \cdot 6H_2O$

Artem Morzhikhim Martovich - Dubna State University (Russia)

Energy Optimization of Big Office Buildings by Combining Sensor Log Data and a Hierarchy of Dynamic Simulation Runs

Maurin Spiess - Lemon Consult AG (Switzerland)

Refrigeration Appliances for Mini Grids: Options to Keep Energy Consumption under Control

Dr. Victor Torres-Toledo - Phaesun GmbH (Germany)

H: POWERING PUBLIC AND COMMUNAL INSTITUTIONS

An Integrated Approach for Powering Primary Health Facilities in Developing Countries with Solar Technologies

Carsten Hellpap - iiDev (Germany)

Seeking Long - Term Sustainability of Communal Renewable Energy Technologies for Displaced Populations: The Experience of the HEED Project in Rwanda and Nepal

Melania Tarquino - Practical Action (United Kingdom)

The EnerSHelf Project Inter - and Transdisciplinary Research on Energy Supply for Health Facilities in Ghana

Stefanie Meilinger - IZNE (Germany)

I: CAPACITY BUILDING

Human Capital Development in Higher Education: a Long - Term, Integrated Approach for Achieving SDG7

Jiska de Groot - University of Cape Town (South Africa)

Renewable Energy Micro Grid Hub – Global Cooperation Hub for Better and More Sustainable Energy Access

Catoer Wibowo - Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH (Germany)

Capacity Building in Developing Regions

Matthias Raab - SRH Hochschule, Berlin (Germany)

Innovation Diplomacy as a Driver of the Energy Transition

Vitoria Elisa Silva - Federal University Of Uberlandia (Brazil)

J: SOLAR COOKING

Study of the physical characteristics of a rectangular solar cooker

Jossias Vilanculo - Universidade Save (Mozambique)

Proposals to Cooperation in Overcoming Poverty and Lack of Prospects in Developing Countries by Open Source Appropriate Technology (OSAT) and Horticulture and Using Revenues from the Voluntary Compensation of Greenhouse Gas Emissions

Manolo Vilchez - alSol (Spain)

K: INTERDISCIPLINARY APPROACHES

Production and Evaluation of Irrigation Hydro Turbines Built from Low - Cost Materials

Jossias Vilanculo - Universidade Save (Mozambique)

Rainwater Harvesting for Irrigation in Arid And Semi - Arid Region Using Solar Pv System: Case Study of Moamba, Mozambique

Doroteia Isaias - Eduardo Mondlane University (Mozambique)

Innovative Amendments to Environmental Regulations in Kenya: A Boost to the Realization of Affordable, Accessible and Clean Energy in the Country



Philip Omenge - Egerton University (Kenya)

Renewables, Solar Based Electricity Generation. Peru a Case Study

Valentin Bartra - IADDA UNMSM (Peru)

Community Acceptance, Engagement, and Developer Transparency of Solar Energy Projects in Coastal Areas of Southwestern Taiwan


Chian - Woei Shyu - National Chung - Cheng University (Taiwan)

18:45	Visit to Trade and Poster Exhibition 
19:15	Welcome Reception 
20:00	End of the First Conference Day

THURSDAY SEPTEMBER 16

SESSION 3: LESSONS LEARNED: FAILURE AND SUCCESS FACTORS

Chairs: Cyprien Hauser, REPIC, Switzerland,
Prof. Jatin Nathwani, WISE, Canada

9:00	Lessons Learnt from Pico PV, SHS, PAYGO Market Development; The Case of Kenya Merijn Havinga - SNV (The Netherlands)
9:15	Sustainability of Village - Grids – Lessons from Senegal Julian Rose - RWI - Leibniz Institute for Economic Research (Germany)
9:30	Success of Self - Sustainable Off - Grid Rural Electrification Projects in India Prasad Kulkarni - Gram Oorja Solutions Private Limited (India)
9:45	Performance Analysis of Photovoltaic Mini - Grid for Rural Communities in Indonesia Atiek Puspa Fadhilah - GIZ GmbH (Indonesia)
10:00	Discussion
10:20 11:00	Coffee Break and visit to Trade and Poster Exhibition: Posters A, B, D, E, F 

**SESSION 4A - PARALLEL SESSION:
POLICY AND REGULATORY FRAMEWORK**

Chair: Werner Weiss, AEE - Institute for Sustainable Technologies, Austria

11:00	<p>Quality Assurance Framework for Component Based Solar Home Systems in Uganda Geoff Stapleton - Global Sustainable Energy Solutions Pty Ltd (Australia)</p>
11:10	<p>Experiences with the Solar Water Heater (SWH) Systems at the National Housing Enterprise (NHE) Houses in Namibia and its Impact on the National Housing Program Helvi Iлека - AEE INTEC (Namibia)</p>
11:20	<p>The Effectiveness of Policy on Renewable Energy Deployment in Islands - A Caribbean Case Study - Jessica Kersey, University of California Berkeley (USA)</p>
11:30	<p>The Role of Renewable Energy Off - Grid Systems in Global Electrification Scenarios and for Climate Action Dr. Philipp Blechinger - Reiner Lemoine Institut (Germany)</p>
11:40	<p>Discussion</p>
12:00	<p>“Who Cares about (sustainable) Rural electrification in Mozambique?” Vassilca Jeremias - Technical University of Munich (Germany)</p>
12:10	<p>The Minigridded Tariff Dilemma: Scaling - up Private Investments while Maximizing Socio - Economic Impacts Irene Calvé - Sunkofa (Senegal)</p>
12:20	<p>A New Paradigm in Mini - Grid Electricity Tariff Setting Toby D. Couture - E3 Analytics (Germany)</p>
12:30	<p>Isla Huapi: Setting up a Sustainable Business Model for Stand - Alone PV Elena Villanueva Méndez - Ministry of Energy Chile (Chile)</p>
12:40	<p>Discussion</p>
13:00	<p>LUNCH and Visit to Trade and Poster Exhibition: Posters C, G, H, I, J, K</p>




SESSION 4B - PARALLEL SESSION: DESIGN AND OPTIMISATION

Chair: Georg Bopp, Fraunhofer ISE, Germany

11:00	<p>Off - Grid Hybrid Renewable Electricity Systems (OHRES) Deployment, Techno - Economic Modelling and System Data Analysis Platform Using Hybrid Battery Storage. Shared Experience from First Case - Study System Deployment in Nemiah Valley, BC, Canada</p> <p>Mohamed M. Elkadragy - Karlsruhe Institute of Technology (KIT) (Germany)</p>
11:10	<p>Assessing the Use of Second - Life Li - ion Batteries and Solar Photovoltaics in Isolated Minigrids in the Brazilian Amazon</p> <p>Prof. Ricardo R��ther - Universidade Federal de Santa Catarina (Brazil)</p>
11:20	<p>Potential Energy Savings in Interconnected Domestic Solar Systems</p> <p>Daniel Zimmerle - Colorado State University (USA)</p>
11:30	<p>Pyramid Solar Micro - Grid Built on the Basis of Solar Home Systems</p> <p>Prof. Bin-Juine Huang - Department of Mechanical Engineering, National Taiwan University (Taiwan)</p>
11:40	<p>Discussion</p>
12:00	<p>Optimal Integration of Photovoltaics in Micro - Grids that are Dominated by Diesel Power Plants</p> <p>Nils Reiners - Institute for Solar Energy Systems (Germany)</p>
12:10	<p>Interactive Multicriteria Optimizer for Designing Microgrid Wind - PV Electrification Systems Considering Managements Constraints</p> <p>Marc Juanpera Gallel - Universitat Polit��cnica de Catalunya (Spain)</p>
12:20	<p>Techno - Economic Renewable Energy Potential to Achieve the Galapagos Islands Zero Fossil Fuel Initiative: The Hybrid Renewable Mini - Grid of Baltra and Santa Cruz</p> <p>Andrea Alejandra Eras Almeida - Instituto de Energ��a Solar, Universidad Polit��cnica de Madrid (Spain)</p>

12:30	Enabling an Efficient PV Mini - Grid Management Services Through a Smart Metering System Muhammad Husni Mubarak - GIZ Indonesia (Indonesia)
12:40	Discussion
13:00	LUNCH and Visit to Trade and Poster Exhibition: Posters C, G, H, I, J, K 


SESSION 4C - PARALLEL SESSIONS: TECHNOLOGY AND KNOWLEDGE TRANSFER Chair: Dr. Andreu Moià-Pol, Universitat de les Illes Balears UIB, Spain	
11:00	Capacity Needs Assessment for Clean Energy Mini - Grids (CEMG) Actors in the ECOWAS Region and Mauritania Sire Abdoul Diallo - ECREEE (Cape Verde)
11:10	Solar Thermal Training and Awareness for South African Government Institutes Khothatso Mpheqeka - South African National Energy Development Institute (South Africa)
11:20	Peer - to - Peer and South - to - South Need for New Forms of Knowledge Exchange among Energy Practitioners Carmen Dienst - Wuppertal Institute for Climate, Environment and Energy (Germany)
11:30	Global Online Knowledge Management on Energy Access via Energypedia Johanna Hartmann - energypedia (Germany)
11:40	Discussion
12:00	Battery Training for PV - Hybrid and Mini - Grid: A real Tool to Optimize the Projects Claude Campion - 3C Projects (France)
12:10	Promoting Solar Cooling through Technical Training Courses Julian Krüger - Solar Cooling Engineering UG (Germany)

12:20	Technical Design and Operational Limits of Low Power PV and PV - Hybrid Minigrids Pablo Díaz Villar - Universidad de Alcalá (Spain)
12:30	Discussion
13:00	LUNCH and Visit to Trade and Poster Exhibition: Posters C, G, H, I, J, K 

SESSION 5: PRACTITIONERS ROUND TABLES (DIFFERENT ROOMS) Session organizer: Daniel Zimmerle - State University of Colorado, US 14:00 – 15:00	
1.	Topic: “Touch save” DC Microgrids Moderator: TBC Rapporteur: TBC
2.	Topic: Strength and Weaknesses of Different Battery Technologies Moderator: Georg Bopp, Fraunhofer ISE (Germany) Rapporteur: Claude Campion, 3C Projects (France)
3.	Topic: Solar Energy to Enhance Community Development and Livelihood Moderator: David Otieno, GIZ (Ethiopia) Rapporteur: Dr. Mirco Gaul, SiNERGi GmbH (Germany)
4.	Topic: Pros and Cons of Different Tariff and Fees Settings in Mini - Grids Moderator: Dr. Hedi Feibel, SKAT Foundation (Switzerland) Rapporteur: Toby Couture, E3 Analytics (Germany)
5.	Topic: Lessons Learnt from the Off-grid Market Development (Pico PV, SHS and PAYG) Moderator: Laura Fortes, GOGLA (The Netherlands) Rapporteur: Merijn Havinga, SNV (The Netherlands)
6.	Topic: Are Market - Based Approaches Suitable to Provide Energy Access to the Bottom of the Pyramid? Moderator: Rapporteur: Martijn Veen, SNV (The Netherlands)
7.	Topic: Innovations in Solar Cooking Moderator: Prof. Celestino Ruivo, ISE, University of Algarve, ADAI (Portugal) Rapporteur:

8.	Topic: Innovations in Solar Cooling Moderator: Dr. Victor Torres Toledo - University of Hohenheim (Germany) Rapporteur: Daniel Goldbach, Fosera (Germany)
9.	Topic: Green People's Energy – What does it mean? Moderator: Bärbel Höhn, BMZ (Germany) – to be confirmed Rapporteur: Dorothea Otremba, GIZ (Germany)
10.	Attendants Suggest a Topic of Their Interest During Registration Moderator: n.n. Rapporteur: n.n.

SESSION 6: DEVELOPMENT TRENDS IN THE OFF-GRID SECTOR
Chair: Martijn Veen, SNV, The Netherlands, Simon Bachelor, MECS, UK

15.15	A History of Least Cost Mini Grid Design Peter Lilienthal - HOMER Energy (USA)
15:25	Development Trends in Using the PAYG Approach? Experiences and Trends in Using Leasing (PAYG) Approaches when Implementing Solar Solutions at Community Buildings, primarily Health Clinics Kjetil Røine - Differ Group Norway (Norway)
15:35	Hydro Empowerment Network HPNET: What the solar mini grid sector can learn from more than 40 years of small-scale hydro experience Dr. Hedi Feibel - SKAT Foundation (Switzerland)
15:45	Discussion
16:00 16:40	Coffee Break and visit to Trade and Poster Exhibition: Posters A, B, D, E, F 

SESSION 7A: PARALLEL SESSION: TECHNICAL INNOVATIONS

Chairs: Prof. Bin-Juine Huang, New Energy Center,
National Taiwan University, Taiwan
Prof. Ricardo Rütger, Federal University of Santa Catarina, Brazil

16:40	How to Design a Photovoltaic Powered Aeration System Petross Guambe - Songo Higher Polytechnic Institute (Mozambique)
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16:50	Retrofitting lead Acid Minigrids with Lithium: Extending Lifetime and Lowering LCOE Thomas Kündiger - BOS Balance of Storage Systems AG (Germany)
17:00	Designing Solar PV for Topping up Energy of an Oil Based Solar Thermal Collector for Cooking Application Tomas Nhabetse - Eduardo Mondlane University (Mozambique)
17:10	Peltier Cooling in SHS systems Daniel Goldbach - Fosera Solarsystems (Germany)
17:20	Discussion
17:40	MIA - Made in Africa Prof. Peter Adelman - id-eee Institute (Germany)
17:50	Solar Cooking after Sunset Based on Energy Storage with Natural Limestone Matthias Schmidt - German Aerospace Center - DLR e.V., Institute of Engineering Thermodynamics (Germany)
18:00	REvived Water: Innovative Electrodialysis Solutions for Clean Drinking Water in Off - Grid Areas Géraldine Quelle - REvived water, Phaesun GmbH (Germany)
18:10	Implementation of Electro - Mobility for Artisanal Fishers in PV Mini - Grid - Based Village in Indonesia Bagus Ramadhani - GIZ (Indonesia)
18:20	Discussion
18:40	End of the Conference Day <i>Buses to the dinner restaurant are leaving in front of the University</i> 
20:00 	Conference Dinner with Poster Award Ceremony Award Committee Kilian Reiche, iiDev, Gemany Prof. Jatin Nathwani, WISE, Canada Georg Bopp, Fraunhofer ISE, Germany


**SESSION 7B: PARALLEL SESSIONS:
SOLAR FOR PRODUCTIVE AND INSTITUTIONAL USES**

Chair: Prof. Boaventura Cuamba, Eduardo Mondlane University, Mozambique

16:40	<p>A Dynamic Solar - Powered Ice Machine: Development, Technology Transfer and Demonstration Frank Stegmueller - GIZ (Germany)</p>
16:50	<p>Innovative Solar Milk Cooling System for Rural Communities in Western - Kenya Farah Mrabet - University of Hohenheim (Germany)</p>
17:00	<p>Impact of Rural Economic Zone powered by RE Mini - Grids on Climate Change and Economic Growth of a Rural Village Hardik Pokhrel - Yale University (USA)</p>
17:10	<p>Solar Cooling Systems for Agricultural Value Chains Dr. Victor Torres Toledo - University of Hohenheim (Germany)</p>
17:20	<p>Discussion</p>
17:40	<p>Agrioltaic Potential on Shade Tolerant Crop Farms in Ethiopia Enderias Alemayehu Workye - Adama Science and Technology University, School of Electrical Engineering and Computing (Ethiopia)</p>
17:50	<p>Reliability Evaluation of Mini - Grids Considering Protection Issues Maël Riou - Entech Smart Energies (France)</p>
18:00	<p>PV Systems or Solar Thermal Water Heaters for Hot Water Preparation in SADC Countries - Pros and Cons Considering Measurements from SOLTRAIN Demonstration Systems Monika Spörk-Dür - AEE INTEC (Austria)</p>
18:10	<p>The Potential of Solar Thermal Technologies for Large Tanneries within the SADC Region Angelo Ian Buckley - Centre for Renewable and Sustainable Energy Studies - Stellenbosch University (South Africa)</p>
18:20	<p>Discussion</p>

18:40	End of the Conference Day <i>Buses to the dinner restaurant are leaving in front of the University</i> 
20:00 	Conference Dinner with Poster Award Ceremony Award Committee: Kilian Reiche, iiDev, Gemany Prof. Jatin Nathwani, WISE, Canada Georg Bopp, Fraunhofer ISE, Germany

SESSION 7C: PARALLEL SESSIONS: MARKET OUTLOOK AND PLANNING Chair: Dr. Mirco Gaul – SiNERGi, Germany	
16:40	Development of a Monitoring and Evaluation Framework to Generate Data - Driven Load Profiles for Rural Households Powered by a Solar Hybrid Mini - Grid Babak Ravanbach – DLR Institute of Networked Energy Systems (Germany)
16:50	Exploring the Nexus of Mini - Grids and Digital Technologies Dr. Bernhard Brand – Enerpirica (Germany)
17:00	Adoption of Solar Water Pumps in Tanzania: The Farmers' Perspectives Reinhard P. de Lucas Murillo de la Cueva - Instituto Superior Técnico, Universidade de Lisboa (Portugal)
17:10	Pay - as - you - go Solar: UGANDA - A Potential Energy Reality in the West Nile Humanitarian Context? Cecilia Ragazzi - Mercy Corps (United Kingdom)
17:20	Discussion
17:40	Study of Photovoltaic Energy for the Reduction of Moroccan Households Energy Poverty Andreu Moià Pol - University of Balearic Islands (Spain)
17:50	Smart Solar Off - Grid in Belize Sarah Link - cdw Stiftung gGmbH (Germany)

18:00	Interdisciplinary Analysis of Renewable Energy - Based Mini - Grids in Namibian Remote Areas – An Overview on the PROCEED Project Carina Fromm - Institute of new Energy Systems, THI (Germany)
18:10	Assessment of electrification options for off - grid areas in Cambodia Andrés González García – Senergiality, S.L (Spain)
18:20	Discussion
18:40	End of the Conference Day <i>Buses to the dinner restaurant are leaving in front of the University</i> 
20:00	Conference Dinner with Poster Award Ceremony Award Committee: Kilian Reiche, iiDev, Gemany Prof. Jatin Nathwani, WISE, Canada Georg Bopp, Fraunhofer ISE, Germany

Friday, September 17

SESSION 8: ENERGY FOR LOCAL DEVELOPMENT AND LIVELIHOOD Chairs: Martijn Veen, SNV, The Netherlands Catoer Wibowo, EnDev, Germany	
09:00	Rigorous Long - Term Impact Monitoring of Rural Electrification - New Evidence Disillusions High Expectations for Sub - Saharan Africa Dr. Mirco Gaul - SiNERGi GmbH (Germany)
09:15	Economic Development Through Productive Energy Use? Experiences from Energy Access Projects in the Global South Julia Terrapon-Pfaff - Wuppertal Institute for Climate, Environment and Energy (Germany)
09:30	Hybrid Mini - Grids for Healthcare and Livelihoods Opportunities in Humanitarian Settings: The Case of Mahama Refugee Camp Philip Sandwell - Imperial College London (United Kingdom)
09:45	Renewable Energy in Humanitarian Settings: a Blueprint Aakarshan Vaid, IRENA (Germany)

10:00	Discussion	
10:15	Round Table's Conclusions: Daniel Zimmerle - State University of Colorado, US	
10:30 11:00	Coffee Break	
SESSION 9: INTEGRATED CONCEPTS AND ENERGY MANAGEMENT Chairs: Tatia Lemondzhava, The World Bank, US, Kilian Reiche, iiDev, Germany		
11:00	Review of Energy Trading in Microgrids On - grid vs. Off - grid Annette Werth - University of Tokyo (Japan) and Sony Computer Science Laboratories Inc. (France)	
11:15	Energy Management in Offgrid Systems Pierre-Olivier Moix - Studer-Innotec (Switzerland)	
11:30	Integration of Electro - Mobility Solutions into Off - Grid PV Systems for Sustainable Development of Rural Areas in Sub - Sahara Africa Aminu Bugaje - Institute of new Energy Systems, THI (Germany)	
11.45	Discussion	
12:00	Gender Mainstreaming in Solar Irrigation projects Ranisha Basnet - Energypedia UG/Albert-Ludwigs-Universität Freiburg (Germany)	
12:15	Promoting Sustainable Communities via Appropriately Designed and Participatory Energy Access in Rural Areas of Developing Countries Davi Ezequiel Francois - ITAS & KIT (Germany)	
12:30	Results Based Financing to Catalyze Commercial Finance for Off-grid Solar Market Development Martijn Veen, SNV (The Netherlands)	
12:45	Scaling Impact with Swarm Electrification and Smart Metering Alessandro Medici, Power-Blox AG (Switzerland)	
13:15	Discussion	

13:30	<p>CLOSING REMARKS Dr. Carsten Hellpap - iiDev (Germany) Xavier Vallvé - Trama TecnoAmbiental (Spain)</p> <p style="text-align: center;">END OF THE CONFERENCE</p>
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“SOLAR LUNCH” Sponsored by ESMAP - World Bank

September 17, 13:45 (lunchtime workshop)



SIDE EVENT: What Can We Do to Further Stimulate Demand and Productive Uses of Electricity Generated by Mini Grids?

September 17, 14:15 – 16:15 hrs

During this session the World Bank team plans to report out on some of the existing and planned initiatives within its lending operations that target demand-site stimulation to ensure sufficient and growing demand for electricity produced by mini grids. Following the presentation, the team will host a brainstorming session with the audience on the best practices, initiatives, products and microfinance options that exist across the globe to target mini grid customers.