



## CONFERENCE PROGRAMME

### 4<sup>th</sup> International Conference on Solar Technologies & Hybrid Mini Grids to improve energy access

Palma de Mallorca, Spain

April 26 - 28, 2023

[www.energy-access-conferences.com](http://www.energy-access-conferences.com)

Wednesday, April 26, 2023

#### **CONFERENCE SIDE EVENT “A” (open to all registered participants): Innovation Lab – Energy Access in A Crucible**

April 26, 2023, 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 kick-off the S-@ccess conference with an engaging set of in-depth discussions on ‘what you want to do next’ in the field of energy access. This is in contrast to the primary mode of traditional conferences, which asks ‘what you have done before’. The goal is to provide open space for new collaborations and project ideas to emerge, which can then be discussed informally throughout the rest of the conference and pursued thereafter.*

*The ‘energy access innovation lab’ format features small group discussions on topics that participants identify ahead of time, as well as open group discussion in plenary. This format has been utilized by AE4H to run similar innovation labs in the past.*

13:15	REGISTRATION OPEN
14:00-14:30	<p>OPENING SESSION</p> <p><b>Opening Address</b></p> <p><b>Werner Weiss</b>, AEE-INTEC - Institute for Sustainable Technologies, Austria</p> <p><b>Xavier Vallvé</b>, TTA – Trama TecnoAmbiental, Spain</p> <p><b>Andreu Mojà</b>, Universitat de les Illes Balears , Spain</p> <p><b>XX, TBC</b></p>

<p><b>SESSION 1: Progress and Challenges in Achieving SDG 7</b></p> <p><b>Chairs: Carsten Hellpap</b>, Energy Consultant, Germany <b>(TBC)</b></p> <p><b>Xavier Vallvé</b>, Trama TecnoAmbiental, Spain</p>	
14:30-16:30	<b>TBC (Minigrid markets, representative of the World Bank)</b>
	<p><b>Provisional title:</b> Strengthening the utilization of mini-grids for eCooking – global insights from the <b>Modern Energy Cooking Services programme.</b></p> <p>Richard Sieff, MECS, UK</p>
	<p><b>State of solar thermal development and use worldwide</b></p> <p>Werner Weiss. AEE INTEC, Austria</p>



	<p><b>Discussion</b></p> <p><b>The Role of Renewable Energy Off-Grid Systems in Global Electrification Scenarios and for Climate</b> Philipp Blechinger. Reiner Lemoine Institut, Germany</p> <p><b>Monitoring Results, Energy Savings and Environmental Impacts of Installed Solar Thermal Systems in the Southern African Region</b> Rudolf Moschik. AEE INTEC, Austria</p> <p><b>A Historical Perspective on the Role of Mini-grids in Energy Access</b> Peter Lilienthal. Founder of HOMER Energy, USA</p> <p><b>Discussion</b></p>
<p>16:30 17:00</p>	<p><b>Coffee Break</b></p> 

	<p align="center"><b>INDUSTRY SESSION – Company presentations</b></p> <p><b>Session organizer: Ingo Vosseler, TTA, Spain</b></p> <ul style="list-style-type: none"> <li>• CEGASA, Spain</li> <li>• STUDER INNOTECH, Switzerland</li> <li>• XX</li> <li>• XX</li> <li>• XX</li> </ul>
<p>17:00 17:30</p>	

<p>17:30 18:45</p>	<p align="center"><b>SESSION 2: POSTER SESSION</b></p> <p align="center"><b>Chairs: Killian Reiche, iiDevelopment GmbH, Germany (TBC)</b> <b>Jatin Nathwani, WISE, Canada (TBC)</b></p>
Block A	<p><b>African and European roadmaps towards hydrogen transition: how to mutually support and benefit</b> Stefano Barberis. University of Genova, Italy</p> <p><b>Energy Storage Technology of Green Hydrogen to use in a Microgrid that can be integrated with any Renewable Energy Source in Rural Areas</b> Mauricio Eduardo Cabra. Magnagreen, Canada</p> <p><b>Captive solar energy for the agri-food sector</b> Daniel Neyer. TWIGA Sun Fruits / Neyer Brainworks, Austria</p> <p><b>Pumped hydro storage in stand-alone PV systems</b> Rodolfo Dufo López. Universidad de Zaragoza, Spain</p> <p><b>Techno-economic comparative analysis of different storage technologies for off-grid PV based microgrid in Africa</b> Stefano Barberis. University of Genova, Italy</p> <p><b>Access to Energy for e-Cooking in Public Institutions of Displacement Settings through a Solar Mini-Grid: Alianza Shire's Dolo Ado project approach review</b> Sonia Ramos Galdo, Universidad Politécnica de Madrid, Spain)</p> <p><b>Evaluation of a hybrid application of PV and wind system using thermoelectric based cooling to fulfilling rural agricultural cooling needs</b> Cátia Joaquina Siveia, Universidade Eduardo Mondlane, Mozambique</p>
Block B	<p><b>Increase of flexibility for Off-grids by using AC-coupling</b> Isabel Ballesteros. SMA Solar Technology AG, Germany</p>



	<p><b>Evolution of the Solar-Home-System (SHS) In Rural Bangladesh from DC to AC via Empowering an Underprivileged School – A Pilot Project</b> Fahad Haider. EMI Consultant, Australia</p>
	<p><b>Reconversion of traditional water extraction windmills in Mallorca to produce electrical energy</b> José Pascual Tortella. ENGINYERIA PASCUAL ESTEVA S.L., Spain</p>
	<p><b>Mini Grids to Generate Income for Rural Areas (business case for a dairy)</b> Abrar Ali, Energy Consultant, Pakistan</p>
	<p><b>Comparative analysis of the LCOE evolution for PV plants in South America and Europe: the Paraguay case</b> Massimo Rivarolo. Università di Genova, Italy</p>
	<p><b>Experimental Analysis of a Decentralized Solar PV System complementing an existing Mini-Grid in a growing Rural Settlement</b> Bertha Lwakatare</p>
	<p><b>Interconnected Mini-grids: role achieving SDG7, business models, technology innovations, and preliminary lessons learned in Nigeria</b> Alberto Rodríguez Gomez. RMI - Rocky Mountain Institute, USA</p>
	<p><b>Optimization of an isolated smart grid by real time management of user's needs and available resources.</b> Tovondahiniriko Fanjirindratovo, University of Toliara, Madagascar</p>
Block C	<p><b>Parametric study of operating pressure in two low power Goswami cycle configurations using optimized Fresnel reflectors.</b> Ximena N. Castañeda Serrano. Universidad Autónoma del Estado de México, Mexico</p>
	<p><b>Alternative light absorbers for photovoltaic devices</b> Maria Isabel Rodríguez Tapiador. CIEMAT, Spain</p>
	<p><b>Steering towards a circular economy with multiuse and second life batteries</b> Veeresh Anehosur. BOS Balance of Storage Systems AG, Germany</p>
	<p><b>Methods to host Randomly distributed Large Stochastic Active Loads in Weak Low Voltage Distribution Grid with Localized Voltage Control System</b> Daniel Boateng. Colorado State University, USA</p>
Block D	<p><b>The benefits of Solar Thermal capacity building for government department through SOLTRAIN</b> Khothatso Mpheqeke. SANEDI, South Africa</p>
	<p><b>Claiming sustainable development outcomes in renewable electricity infrastructures: results from a systematic review</b> Luiz Eduardo Rielli. The University of Lisbon, Portugal</p>
	<p><b>Why clean cooking did not work...yet!</b> Nadia Mrabit, Energy Consultant, Spain</p>
	<p><b>Climate protection and poverty reduction Proposals for household energy and horticulture in developing countries</b> José Manuel Vilchez, IPCENA, Spain</p>
Block E	<p><b>Policy, market, and business aspects in Mozambique</b> Chadido Lacerda Diogo. Universidade Licungo, Mozambique</p>
	<p><b>Assessing the Role of Concessional Consumer Financing in Energy Access</b> Jakub Vrba. Energy Saving Trust, UK</p>
	<p><b>Soltrain: Building Markets and Capacity for Solar Thermal in Lesotho</b> Ivan Yaholnitsky. BBCDC, Lesotho</p>
	<p><b>Supporting More Productive Use of Traditional Water Sources</b> Abduba Yacob, Swiss Embassy in Addis Ababa, Ethiopia</p>
	<p><b>A Cluster of Solar Thermal Technology in Mozambique</b> Geraldo Nhumaio. Universidade Eduardo Mondlane, Mozambique</p>



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


Thursday, April 27, 2023

<b>SESSION 3: LESSONS LEARNED: Failure and Success Factors</b> Chairs: Jatin Nathwani, WISE, Canada (TBC) Saurabh Biswas, PNNL, USA (TBC)	
9:00-10:20	<b>Lessons from Deploying Solar Microgrids in Malawi</b> Aran Eales, University of Strathclyde, UK
	<b>Risk assessment of an agrivoltaic community project for The Gambia</b> Jessica Berneiser. Fraunhofer Institute for Solar Energy Systems ISE, Germany
	<b>Operational Challenges in Functioning of Photovoltaic-based Mini-Grid Power Plants in India and policy implications</b> Dwipen Boruah, GSES India Pvt. Ltd., India
	<b>Mini-grids and businesses electrification</b> Alexis Caujolle GERES, France
	<b>Perceptions of success in rural electrification projects in Tanzania</b> Hannah Mottram, University of Sheffield, UK
	<b>Discussion</b>
10:20 11:00	<b>Coffee Break and visit to Trade and Poster Exhibition: Posters Block A, B</b> 

<b>SESSION 4A - PARALLEL SESSION: Policy, Regulatory Framework, and Institutional Support</b> Chairs: Miguel Fernández, Energy Consultant, Bolivia (TBC) James Knuckles, Word Bank, USA (TBC)	
11:00-13:00	<b>Of monopolies and mini grids: case studies from Kenya, Tanzania, Nigeria and Senegal</b> Lucy Baker. University of Sussex, UK
	<b>Papua New Guinea Off-Grid Regulation for Small Power Systems</b> Roger Sallent, TTA - Trama TecnoAmbiental, Spain
	<b>An Industry Roadmap for Scaling Solar Mini grids in Asia &amp; Africa</b> William Brent, Husk Power Systems, India
	<b>Supporting Energy Access in the Pacific Islands</b> Solomone Fifita. PCREEE, Tonga
	<b>Discussion</b>



	<p><b>Impact of Awareness and Training on Solar Thermal Technology Uptake: Case Study Zimbabwe</b> Samson Mhlanga. National University of Science and Technology, Zimbabwe</p>
	<p><b>Improving knowledge and awareness on differentiated energy access in Mozambique: hands-on training of government officials in the MTF methodology</b> Carlos Guerrero Lucendo, VITO/Energyville, Belgium</p>
	<p><b>Solar Thermal Technology and Government Working Together to Cut Costs and Emissions and Boost Skills</b> Karen Surridge. SANEDI, South Africa</p>
	<p><b>Private Public Partnership for the electrification of the rural community of Mahavelona in Madagascar</b> Rakotomahevitra Andrianelison, Université d'Antananarivo, Madagascar</p>
	<p><b>Discussion</b></p>
13:00	<p><b>LUNCH and Visit to Trade and Poster Exhibition</b></p> 

<p><b>SESSION 4B - PARALLEL SESSION: Innovative Storage and Design</b>  <b>Chairs: Helvi Iлека, NEI, Namibia (TBC)</b>  <b>Georg Bopp, Fraunhofer ISE, Germany (TBC)</b></p>	
	<p><b>Assessing the cost competitiveness of Sodium-Nickel batteries compared to Lead-acid and Lithium-ion technology for stationary applications.</b> Michele Velenderic. Green Power Brains, Germany</p>
	<p><b>Optimization of stand-alone PV-battery-diesel systems considering accurate battery ageing models</b> Rodolfo Dufo López. Universidad de Zaragoza, Spain</p>
	<p><b>Assessing the use of second-life Li-ion batteries and solar photovoltaics in isolated mini grids in the Brazilian Amazon</b> Prof. Ricardo R��ther, Universidade Federal de Santa Catarina, Brazil</p>
	<p><b>Safety of Batteries</b> Igor Cantero. CEGASA ENERG��A, Spain</p>
	<p><b>Discussion</b></p>
11:00-13:00	<p><b>Design of an Energy-Hub in Informal Settlements – An interdisciplinary approach</b> Rebekka Besner, THI - Technische Hochschule Ingolstadt, Germany</p>
	<p><b>Technical Backstopping Services related to energy efficiency and renewable energy, UNDP-Lebanon</b> Luis Arribas. CIEMAT, Spain</p>
	<p><b>Decentralized Independent Mini-Grid for maximum system performance. Case study of Don Bosco Mini-Grid</b> Christof Baum. Don Bosco Technical Institute, Ghana</p>
	<p><b>Inovasi Modular Smart Swarm Minigrid</b> Andre Susanto. PT Inovasi Dinamika Pratama, Indonesia</p>
	<p><b>Discussion</b></p>
13:00	<p><b>LUNCH and Visit to Trade and Poster Exhibition</b></p> 




<b>SESSION 4C - PARALLEL SESSIONS: Capacity Building and Inclusion</b> <b>Chairs: Andreu Moià-Pol, UIB, Spain (TBC)</b> <b>Boaventura Cuamba, EMU, Mozambique (TBC)</b>	
11:00-13:00	<b>Knowledge sharing to accelerate the energy transition – lessons from Nigeria</b> Maria Yetano Roche. Wuppertal Institute for Climate, Environment and Energy, Germany
	<b>The Opportunities and Challenges for Women in the emerging Solar Thermal Market in Botswana</b> Karen Gibson. So Solar (Pty) Ltd and Solar Industries Association Botswana, Botswana
	<b>Advancing SDG 7 through Capacity Development, Innovation and Partnerships</b> Whitney Pailman. University of Cape Town, South Africa
	<b>ONEPlanET - Open source nExus modelling tools for Planning sustainable Energy Transition in Africa</b> Stefano Barberis, University of Genova, Italy
	<b>Discussion</b>
	<b>Global online knowledge management on energy access via energypedia</b> Lisa Feldmann, Energypedia, Germany
	<b>New Model for Delivery of Online Solar Training</b> Geoff Stapleton, GSES - Global Sustainable Energy Solutions Pty Ltd., Australia
	<b>Opensource for Energy Access: a new phase for the sector</b> Vivien Barnier. EnAcces Foundation, Netherlands
	<b>Electricity supply and satisfaction of energy service needs among rural and peri-urban households and small firms in Nigeria</b> Clara Jütte, Reiner Lemoine Institut, Germany
<b>Discussion</b>	
13:00	<b>LUNCH</b> <b>Visit to Trade and Poster Exhibition</b> 

<b>SESSION 5: Practitioners Round Tables (different rooms)</b> <b>Session organizer: Daniel Zimmerle - Colorado State University, USA</b> <b>Saurabh Biswas, PNNL, USA (TBC)</b> 14:00 – 14:50	
1.	<b>The future of Solar thermal in competition with PV</b> <b>Moderator:</b> Werner Weiss, AEE - Institute for Sustainable Technologies, Austria <b>Rapporteur:</b> Boaventura Cuamba, Eduardo Mondlane University, Moçambique (TBC)
2.	<b>Topic: Strength and Weaknesses of Different Storage Technologies</b> <b>Moderator:</b> Georg Bopp, Fraunhofer ISE (Germany) (TBC) <b>Rapporteur:</b> Ricardo Rütther, Universidade Federal de Santa Catarina, Brazil, (TBC)
3.	<b>Topic: Solar Energy to Enhance Community Development and Livelihood</b> <b>Moderator:</b> Carsten Hellpap, Energy Consultant, Germany (TBC) <b>Rapporteur:</b> Frank Bergh, NRECA, USA (TBC)
4.	<b>Topic: Revenue, tariffs, and ability to pay in off grid energy services and Mini-Grids</b> <b>Moderator:</b> representative of AMDA (TBC) <b>Rapporteur:</b> William Brent, Husk Power, India (TBC)





5.	<p><b>Topic: Is Solar Cooking reaching the market ?</b>  <b>Moderator:</b> Celestino Ruivo, University of Algarve, Portugal <b>(TBC)</b>  <b>Rapporteur:</b> Nadia Mrabit, Energy Consultant, Spain</p>
6.	<p><b>Optional requested by participants during registration on the 26th April</b></p>

<p><b>SESSION 6: LESSONS LEARNED: Business Models</b>  <b>Chairs: Simon Bachelor, MECS, UK (TBC)</b>  <b>Carsten Hellpap, EC, Germany (TBC)</b></p>	
<p>15:00- 16:00</p>	<p><b>Rural Electric Cooperatives: The 90-year Movement to Power Global Communities</b>            Frank Bergh, NRECA International, USA</p>
	<p><b>Inovasi Rural Economic Development Delivery Model</b>            Andre Susanto. PT Inovasi Dinamika Pratama, Indonesia</p>
	<p><b>Lessons learned: Solar Powered Cold Rooms in the Field</b>            Florian Martini, Phaesus GmbH, Germany</p>
	<p><b>Strengthening commercial viability through greater inclusion in rural mini grids: Insights from Nigeria</b>            Temilade Sesan, International Centre for Energy, Environment and Development. Nigeria</p>
	<p><b>Discussion</b></p>
<p>16:00 16:40</p>	<p><b>Coffee Break and visit to Trade and Poster Exhibition: Poster Blocks C, D, E</b></p> 

<p><b>SESSION 7A: PARALLEL SESSION: Technology Innovations</b>  <b>Chairs: Helvi Iлека, NEI, Namibia (TBC)</b>  <b>Celestino Ruivo, UA, Portugal (TBC)</b></p>	
<p>16:40- 18:40</p>	<p><b>Correction of the ASAE S580.1 procedure for deriving the standardised power of solar cookers</b>            Ruivo Celestino, University of Algarve, Portugal</p>
	<p><b>Hydrogen with photovoltaic energy for Solar Cooking</b>            Andreu Moia Pol. UIB, Spain</p>
	<p><b>Successful Implementation of the First Solar Powered Hydrogen System for Rural Electrification in Malaysia</b>            Sandra Hon, HTEnergy, Malaysia <i>(to be checked: corresponding author?)</i></p>
	<p><b>Thermal Performance Assessment of a Hybrid Space and water Heating System</b>            Lavhelesani Maluleke. Stellenbosch University, South Africa</p>
	<p><b>Discussion</b></p>
	<p><b>Modular Walk-in Storage Rooms with thermal ice storage powered by solar</b>            Victor Torres Toledo. Solar Cooling Engineering GmbH, Germany</p>
	<p><b>Scaling up mini-grids business case in Africa:            Can remote monitoring help?</b>            Marco Pittalis, European Commission, JRC, Italy</p>
	<p><b>Discussion</b></p>
<p>18:40</p>	<p><b>End of the Conference Day</b>  <i>Buses to the dinner restaurant are leaving in front of the University at 19:15.</i></p>



<p>20:00</p> 	<p><b>Conference Dinner with <i>Best Poster Award</i></b></p> <p><b>Ceremony Award Committee:</b>  <b>Kilian Reiche</b>, iiDev, Gemany  <b>Helvi Ileka</b>, NEI, Namibia (TBC)  <b>Jatin Nathwani</b>, WISE, Canada</p>
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<p><b>SESSION 7B: PARALLEL SESSIONS: Design and Optimization</b>  <b>Chairs: Peter Lilienthal</b>, HOMER, USA (TBC)  <b>Ricardo Rüther</b>, FUSC, Brazil (TBC)</p>	
<p>16:40- 18:40</p>	<p><b>Evaluation of Standalone Microgrid Design Software Tools Based on the Defined Criteria</b>  <b>presenter TBC</b>, Task 18 IEA - PVPS</p>
	<p><b>Autarky: Optimal sizing and dispatch of mini-grids considering uncertainties.</b>  Tatiana González. Europa University Flensburg, Germany</p>
	<p><b>Preliminary assessment of two configuration of small-scale solar-ORC for powering industries in Mexico.</b>  Eduardo González-Mora. Universidad Autónoma del Estado de México, Mexico</p>
	<p><b>Repowering the hybrid power system of Baltra – Santa Cruz</b>  Andrea Eras-Almeida, UNEF, Spain</p>
	<p><b>Discussion</b></p>
	<p><b>Planning considerations for electrical connection of power-based energy storage into existing mini-grids</b>  Antonio Notholt. Reutlingen University, Germany</p>
	<p><b>A Techno-economic Feasibility study of Electrifying Rural Communities in Sub-Saharan Africa harnessing Renewable Energy-based Mini-grids: A case of Uutsathima village, Namibia</b>  Joseph Shigwedha. Energy Researcher - Namibia Energy Institute, Namibia</p>
	<p><b>Evaluating the cost competitiveness between Mini-grids and Standalone Systems: The influence of load profile aggregation on electrification model analysis outcomes</b>  Churchill Agutu. ETH Zurich, Switzerland</p>
	<p><b>Energy Supply for Health Facilities in Ghana: A forecast-based battery control of a PV-battery-diesel-system.</b>  Stefanie Meilinger. University of Applied Sciences Bonn-Rhein-Sieg, Germany</p>
<p><b>Discussion</b></p>	
<p>18:40</p>	<p><b>End of the Conference Day</b>  <i>Buses to the dinner restaurant are leaving in front of the University at 19:15</i></p>
<p>20:00</p> 	<p><b>Conference Dinner with <i>Best Poster Award</i></b></p> <p><b>Ceremony Award Committee:</b>  <b>Kilian Reiche</b>, iiDev, Gemany  <b>Helvi Ileka</b>, NEI, Namibia (TBC)  <b>Jatin Nathwani</b>, WISE, Canada</p>






<b>SESSION 7C: PARALLEL SESSIONS: Market Outlook and Planning</b> <b>Chair: Werner Weiss, AEE, Austria (TBC)</b> <b>James Knuckles, World Bank, USA (TBC)</b>	
16:40-18:40	<b>SURINAME - Support to the assessment of three mini grids to improve access to water and energy needs in South Suriname</b> Sergio Enrique Ballón López, IADB Inter-American Development Bank, USA
	<b>Challenges and opportunities of utility-run isolated grids to expand electrification: Papua New Guinea.</b> Manu Rawalil. University of Papua New Guinea, Papua New Guinea
	<b>Mini-grids for integrated electrification of unserved villages in Belize</b> José Luis Larrégola. Lait UP Belize! T.A., Belize
	<b>Assessment of Electricity Access for Host Communities and Forcibly Displaced People in Sahel and Lake Chad Basin regions</b> Ana Sancho, Trama TecnoAmbiental, Spain
	<b>Discussion</b>
	<b>Coupling Water Energy Food Nexus and multi-year microgrid planning</b> Davide Fioriti. DESTEC, University of Pisa, Italy
	<b>SOLTRAIN+ and IEA SHC Task 69 – New International Initiatives to Promote Solar Energy in SADC Countries and Globally</b> Wolfgang Gruber-Glatzl. AEE – Institute for Sustainable Technologies, Austria
	<b>Towards a Universal Energy Access Interamerican Hub</b> Andres Gonzalez Garcia, MIT-Comillas-WE UEA Lab, Spain
	<b>Solar Cooling for the Sunbelt regions - first results of IEA Task 65 Activity A1 Climatic conditions and applications</b> Uli Jakob. Dr. Jakob energy research GmbH & Co.KG., Germany
	<b>Household innovation and agency in mini-grid energy use: a case study of households in Kenya</b> Abigael Okoko, Nuvoni Centre for Innovation Research, Kenya
<b>Discussion</b>	
18:40	<b>End of the Conference Day</b> <i>Buses to the dinner restaurant are leaving in front of the University at 19:15</i>
20:00	<b>Conference Dinner with <i>Best Poster Award</i></b>  <b>Ceremony Award Committee:</b> <b>Kilian Reiche</b> , iiDev, Gemany <b>Helvi Ileka</b> , NEI, Namibia (TBC) <b>Jatin Nathwani</b> , WISE, Canada



**Friday, April 28, 2023**

<b>SESSION 8: Energy for Local Development and Livelihood</b> Chairs: XXX (TBC) XXXX (TBC)	
9:00-10:30	<b>Energy Access to Marginalised Communities vis-à-vis Solar and Hydel Mini Grid Systems: Energising Sustainable Development in Pakistan (Case Study of North-West Border Areas, KPK)</b> Muhammad Manzoor Elahi. Government College University Lahore, Pakistan
	<b>Gender gap on productive uses of energy in refugee camps and its impacts in livelihood opportunities</b> Antonio de la Peña Calleja. Universidad Politécnica de Madrid, Spain
	<b>Socioeconomic development and sustainable electricity access in displacement settings in Sub-Saharan Africa.</b> Paola Casati. University of Bari, Italy
	<b>Harnessing Sustainable Energy Transitions for Human Thriving</b> Sarbagya Ratna Tuladhar. Sunbridge Solar Nepal, Nepal
	<b>Discussion</b>
	<b>Round Tables' Conclusions</b> Daniel Zimmerle, Colorado State University, USA
10:30 11:00	<b>Coffee Break and visit to Trade and Poster Exhibition</b> 

<b>SESSION 9A: Project Showcase</b> Chairs: Kilian Reiche, iiDev, Germany (TBC) Daniel Zimmerle - Colorado State University, USA (TBC)	
11:00-13:00	<b>Large scale solar hot water heating systems for hospitals in Namibia</b> Fenni M.T. Shidhika. NEI, Namibia University of Science and Technology, Namibia
	<b>Integral Approach to the solar electrification of 73 health centres in Niger</b> Rabo Oubandawatchi Maman Tassiou. ANPER, Niger
	<b>Engineering, Procurement and Construction of 10 PV-Diesel Hybrid mini grids in the Upper Suriname River</b> Richard Paal. EBS – Energie Bedrijven Suriname, Suriname
	<b>Diesel reduction with solar PV systems in the Canadian Arctic</b> Klaus Dohring. Green Sun Rising Inc, Canada
	<b>Discussion</b>
	<b>Multiple R&amp;D activities to improve Mini grids / Experiences from a large rollout of 120 mini grids in Senegal</b> Stefan Trittler. Asantys Systems GmbH, Germany
	<b>Integrated Food, Energy and Water Systems for economic development – learnings from an Agrivoltaics project in Mali and The Gambia</b> Sebastian Gözl. Fraunhofer Institute for Solar Energy Systems ISE, Germany



	<b>Application of Solar Thermal Technologies to Compliment Grid Energy Requirements in Namibia</b> Helvi Iлека, Namibia Energy Institute-Namibia University of Science and Technology, Namibia
	<b>Discussion</b>
13:00	<b>CLOSING REMARKS</b> <b>Xavier Vallvé</b> , TTA - Trama TecnoAmbiental ,Spain <b>Werner Weiss</b> , AEE-INTEC - Institute for Sustainable Technologies, Austria
13:15	<b>END OF THE CONFERENCE</b>

<b>SESSION 9B: Solar Cooking event</b> <b>Chefs: Manuel Vilches</b> , IPCENA, Spain <b>Celestino Ruivo Celestino Ruivo</b> , UA, Portugal <b>XX (TBC)</b>	
	<b>Cooking with the experts</b>
11:00-13:00	Parabolic solar cookers Box oven solar cookers Electric Pressure Cookers with off-grid PV-generation <b>Description pending</b>
13:00	<b>CLOSING REMARKS</b> <b>Xavier Vallvé</b> , Trama TecnoAmbiental, Spain <b>Werner Weiss</b> , AEE-INTEC - Institute for Sustainable Technologies, Austria
13:15	<b>END OF THE CONFERENCE</b>

**13:15 hrs**      **“Solar Lunch”, sponsored by the World Bank**

**CONFERENCE SIDE EVENT “B” (open to all registered participants): Scaling up Mini Grid deployment by a factor of 10**

**April 28, 2023, 14:30 - 16:00 hrs**



**Hosted by The World Bank’s Energy Sector Management Assistance Program (ESMAP)**

The World Bank’s Energy Sector Management Assistance Program (ESMAP) has just published its most authoritative book on mini grids to date, [Mini Grids for Half a Billion People: Market Outlook and Handbook for Decision-Makers](#), and will soon publish another report on interconnected mini grids. These two books take stock of the mini grid market today and provide “how to” guides to scaling up mini grids in energy access deficit countries. Approximately 21,500 mini grids are installed today, but achieving universal access to reliable, affordable electricity by 2030 will require more than an additional 200,000 mini grids serving more than half a billion people, through both stand-alone and interconnected mini grids. Achieving this 10x increase is possible only if significant progress is made in technologies, business models, and enabling environments.

In this session, participants will be broken into three groups, and will be tasked with identifying game-changing technologies, strategies, or innovations currently available or in use today that can help achieve unprecedented acceleration in mini grid deployments in energy access deficit countries.



## S-@ccess conference - Parallel Events:

Monday, April 24, 2023

**PARALLEL EVENT 1: IEA PVPS task 18 meeting XXXX (by invitation only)**

*April 24-25, 2023, 09:00 – 16:00 hrs*

*Day 1 - Room ??? Jovellanos building, UIB*

Tuesday, April 25, 2023

**PARALLEL EVENT 1: IEA PVPS task 18 meeting XXXX (by invitation only)**

*April 24-25, 2023, 09:00 – 16:00 hrs*

*Day 2 - Room ??? Jovellanos building, UIB*

**PARALLEL EVENT 2: CARIBBEAN MiniGrid workshop XXXX (by invitation only)**

*April 25, 2023, 09:00 – 16:00 hrs*

*Day 2 - Room ??? Jovellanos building, UIB*

**PARALLEL EVENT 3: ONEPlanET workshop – Horizon Europe Project (open to all registered participants)**

*April 25, 2023, 15:00 – 18:00 hrs*

*Day 2 - Room ??? Jovellanos building, UIB*

Wednesday, April 26, 2023

**PARALLEL EVENT 4: IEA SHC task 69 meeting XXXX (by invitation only)**

*April 26, 2023, 08:00 – 13:00 hrs*

*Day 3 - Room ??? Jovellanos building, UIB*