



Innovating Energy Access for Remote Areas: Discovering Untapped Resources

Symposium: UC Berkeley, April 10 - 12, 2014
in cooperation with various peer-reviewed journals

With investors pouring \$244 billion in 2012 into clean energy globally, it is shocking that energy poverty continues to plague nearly half the world's population (UNEP-FS, 2013). The idea that innovative approaches can work with previously underutilized or unrecognized resources is central to this symposium, as this may lead to the development of successful and sustainable energy access programs. Such untapped resources may be seen in the discovering of synergies within areas such as business delivery models, pre-existing parallel service infrastructures, supply chain and value chain management, natural resource availability, financing schemes, leap frog technologies, policy and governance, and more.

Sustainable solutions demand the balanced inclusion of technical, financial, human, institutional and natural resource capital to be effective. In this light we are inviting scientists from **social sciences, economics, natural sciences and engineering** to discuss their research results concerning decentralized energy supply and sustainable delivery models. We have also encouraged **practitioners** (e.g. project developers, implementers, entrepreneurs) in this field to share their experiences. In particular, we have focused on the participation of researchers from the Global South in this symposium. For this purpose, scholarship opportunities have been made available through the symposium partner organization *Appui au Développement Autonome* (ADA), a Luxembourgish NGO that works to promote inclusive finance worldwide as well as the Pakistan Pover Alleviation Fund (PPAF) that is currently setting up a new concerted approach for solar home systems (SHS) and the GIZ office in Dhaka (Bangladesh), where the most successful model of SHS program to date has been running for 10+ years with dissemination figures exceeding 2.7 million systems installed in the field.

Five conference focus areas

- I. Technology & Services
- II. Implementation & Business Models
- III. Financing
- IV. Planning & Governance
- V. Evaluation & Assessment

Schedule (see attachment)

April 10th & 11th - Symposium
April 12th - optional California day

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MicroEnergy International



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Symposium Overview

It is the stated goal of the symposium to present leading concepts surrounding microenergy systems and energy access issues on an international scale and to highlight particularly innovative topics within the current global energy access discourse. We aim to set an impulse for discussion by a broad and international public audience for through direct presentation, intensive discussion, and keynote speeches. The participants will include professors, doctoral and post-doctoral students, private-sector representatives, prominent political figures and eminent researchers from the Global South. Furthermore, cutting edge research from the *EntDekEn Project* co-initiated by the *Potsdam Institute for Climate Impact Research* will be presented, focusing on how decarbonization in developing countries can be investigated in an equitable way that also contributes to poverty reduction.

The symposium will consist of keynotes by prominent researchers and practitioners, a panel discussion on a key topic in the field, 10 breakout sessions with presentations by researchers and practitioners, a poster presentation session with over 20 posters presented, and public events with opportunities for networking and information sharing. All presentations, submitted papers, and conference materials will be made available to attendees as part of the conference registration fees, and to the public for a small fee.

Scientific Committee

Chair:

Prof. Dr. Daniel Kammen (University of California, Berkeley, USA)

Prof. Dr. Dr. Martina Schäfer (Technische Universität Berlin, Germany)

Sub-Chair for focus area Financing:

Frankfurt School-

UNEP Collaborating Center for Climate & Sustainability Energy Finance



Frankfurt School
UNEP Collaborating Centre
for Climate & Sustainable Energy Finance

Committee:

Prof. Dr. Lucienne Blessing (Université du Luxembourg); Prof. Dr. Robert Brecha (University of Dayton, USA); Laura Foschi (ADA, Luxembourg); Prof. Marek Hudon (Solvay Brussels School of Economics and Management, Belgium); Dr. Michael Jakob (Mercator Research Institute on Global Commons and Climate Change, Germany); Noara Kebir (MicroEnergy International, Germany); Marlis Kees (GIZ, Germany); Prof. Dr. M. Rezwana Khan (United International University, Bangladesh); Prof. Dr. Johann Köppel (Technische Universität Berlin, Germany); Prof. Dr. Stefan Krauter (University of Paderborn, Germany); Prof. Dr. Walter Leal (HAW Hamburg, Germany); Prof. Dr. Inmaculada Martinez-Zarzoso (University of Goettingen, Germany); Ellen Morris, Ph.D. (Columbia University, USA); Bruce Nordman (Lawrence Berkeley National Laboratory, USA); Shonali Pachauri, Ph.D. (IIASA, Austria); Debajit Palit (TERI, India); Daniel Philipp (MicroEnergy International, Germany); Prof. Dr. Gisela Prasad (University of Cape Town, South Africa); Kilian Reiche (iiDevelopment, Germany); Christa Roth (FOODandFUEL, Germany); Dana Rysankova (World Bank, USA); Prof. Dr. Tomohiko Sakao (Linköping University, Sweden); Dr. Jan Steckel (Mercator Research Institute on Global Commons and Climate Change, Germany); Dr. Tania Urmee (Murdoch University, Australia); Prof. Bruce Usher (Columbia Business School, USA); Steven R. Wilson (Georgetown University, USA)

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Publication opportunities

Apart from the publication in the conference proceedings, the symposium will be organized in coordination with the *Environmental Research Letters (ERL)*, which will publish selected papers from the symposium in a special edition. Suitable papers may be also considered for peer-review in the following journals:

- [*International Journal of Innovation and Sustainable Development \(IJISD\)*](#),
- [*Progress in Industrial Ecology, An International Journal \(PIE\)*](#),
- [*International Journal of Sustainable Development \(IISD\)*](#),

as well as in a special compiled edition in *Springer Press*.

Scholarships

The organizers, sponsored by *Appui au Développement Autonome (ADA)*, Pakistan Poverty Alleviation Fund (PPAF) as well as GIZ office in Bangladesh will provide a limited number of need-based grants covering the conference fee and travelling costs for scientists from developing countries.



Symposium website

<http://www.microenergysystems.tu-berlin.de/conference/berkeley2014>

For further information please contact:

Dimitry Gershenson: d.gersh@berkeley.edu

Sebastian Groh: groh@ztg.tu-berlin.de

Locations for Symposium:

BAM/PFA - (Thursday, 10 April, morning)

UC Berkeley Art Museum and Pacific Film Archive (south of the UCB campus)
(in the Museum Theater near Babette Café) - 2621 Durant Ave., Berkeley 94720.

Faculty Club - (Thursday, 10 April, afternoon)

UC Berkeley, Berkeley 94720. (central-east side of campus)

Blum Center for Developing Economies - (Thursday, 10 April, evening)

UC Berkeley, Berkeley 94720. (north side of campus on Hearst Ave.)

David Brower Center - (Friday, 11 April, all day)

2150 Allston Way, Berkeley, 94704. (off-campus, west of campus)

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Day 1 - Thursday, April 10th

<u>Time</u>	<u>Location</u>	<u>Event Information</u>
7:45am	BAM/PFA	Registration opens - please arrive early! Coffee/tea and snacks served
9am	BAM/PFA	Opening keynote and introductory remarks Event introduction and logistics, BREG/MES Dr. Daniel Kammen, RAEL; Dr. Michael Jakob/ Dr. Jan Steckel, Potsdam Institute for Climate Impact Research;
10:20am	-walk to Faculty Club-	Break and Transition to next venue Coffee/tea served
10:45am	Faculty Club (2 x rooms) - Lewis-Latimer room - O'Neil room	Breakout Presentation Sessions 2 x moderated parallel sessions, 90 mins 3 x presenters ea. session
12:15pm	-walk to Lunch-	Decentralized lunch at Berkeley restaurants Gift cards provided for local restaurant of choice
1:30pm	Faculty Club (2 x rooms) - Lewis-Latimer room - O'Neil room	Breakout Presentation Sessions 2 x moderated parallel sessions, 90 mins
3pm	Faculty Club - Howard room	Break Coffee/tea served
3:15pm	Faculty Club (2 x rooms) - Lewis-Latimer room - O'Neil room	Breakout Presentation Sessions 2 x moderated parallel sessions
4:45pm	-walk to Blum Center-	Transition to evening venue
5pm	Blum Center for Developing Economies	Presentation of BREG and MES Welcome Speech by ADA
5:30pm	Blum Center for Developing Economies	Poster Session and Evening Mixer Beverages and snacks served <i>mixer sponsored by</i> <i>Trojan Battery Company</i>
8.00pm	-vacate venue-	-end of day-



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Day 2 - Friday, April 11th

<u>Time</u>	<u>Location</u>	<u>Event Information</u>
8am	Brower Center	Morning warm-up Decentralized discussion circles
9am	Brower Center	Panel Discussion: Prominent researchers in discussion "Innovating at the Nexus of Big Data and Energy Access"
10am	Brower Center	Break Coffee/tea served
10:15am	Brower Center	Breakout Presentation Sessions 2 x moderated parallel sessions, 105 mins
12:00am	-walk to Lunch-	Decentralized lunch at Berkeley restaurants Gift cards with \$15/day provided for any locale
1:30pm	Brower Center	Breakout Presentation Sessions 2 x moderated parallel session, 105 mins
3pm	Brower Center	Break Refreshments served
3:30pm	Brower Center	Closing Events and Keynote Media Partner presentation: Energypedia Closing keynote speeches Public event
6pm	-vacate venue-	-end of symposium-

Optional - Saturday, April 12th

Saturday will consist of an optional networking outing to explore California landscapes, wineries and coastal views. The outing must be pre-paid by participants.

Please RSVP to Dimitry Gershenson, d.gersh@berkeley.edu.

<u>Time</u>	<u>Location</u>	<u>Event Information</u>
10:30am	BAM/PFA - Babette Café	Meeting for departure
All day	California countryside	Driving tour

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