

5th Annual HOMER Microgrid Conference Agenda

Monday, September 18, 2017 - Day 1

- 8:00 am - 9:00 am **Registration and Continental Breakfast**
- 9:00 am - 9:30 am **Welcome:** [Dr. Peter Lilienthal](#), CEO, HOMER Energy
Microgrid Lessons from the Global Market
- 9:30 am – 9:40 am **Keynote:** [Bob Stojanovic](#), Director of Microgrids in North America, ABB
Enabling and Optimizing Distributed Generation, from Remote Villages to the Modern Macrogrid
- 9:40 am – 10:10 am **Keynote:** [Karl R. Rábago](#), Executive Director, Pace Energy and Climate Center
[*Microgrids and Reforming our Energy Vision: The NY Perspective*](#)
- 10:10 am – 10:30 am Market Assessment
[Adam Forni](#), Senior Research Analyst, Navigant Research
[*Global Microgrid Market Overview: The Role of Key Enabling Technologies, including Prime Movers*](#)
- 10:30 am – 11:00 am **Coffee and Networking Break**
- 11:00 am – 12:30 pm **Innovative Controls**
- [Brad Luyster](#), Director of Business Development, IPERC
Unlocking and Delivering Value: How a Distributed Microgrid Control System Manages Multiple Use Cases and Contingencies
- [Vicente Salas](#), Associate Professor, Power Electronic System Group (GSEP), UC3M - Universidad Carlos III de Madrid/Spain; [*Control in Isolated Photovoltaic Hybrid Microgrids with AC loads: Present and Future*](#)
- [Nikola Milivojevic](#), PhD, CTO, SunTech Drive
[*New Solar Technology that Improves Operation of Microgrid's AC Motor Loads*](#)
- [Alex DeBroe](#), CEO, Xant & [Steve Drouilhet](#), CEO, Sustainable Power System
[*The Power Tower: An Autonomous Rural Electrification Hub*](#)

12:30 pm – 2:00 pm **Lunch**

2:00 pm – 3:30 pm **Alaska: Microgrids' First Frontier: Lessons from 20 years of Hybrid Microgrids**

[Senator Lisa Murkowski](#) (Video Introduction)

[Ian Baring Gould](#) (Moderator), Technology Deployment Manager, NREL

Panelists:

[Rob Roys](#), Western Regional Manager, ABB

[Eric Hanssen](#), Program Manager, Rural Energy Initiative, Alaska Native Tribal Health Consortium

[Tony Jimenez](#), Senior Engineer, NREL

[Dennis Meiners](#), Intelligent Energy

[Scott Haase](#), Senior Engineer/DOI Liaison, NREL

[Brienne Miller](#), Senior Professional Staff Member and Energy Policy Advisor, Senate Energy and Natural Resources Committee

3:30 pm – 4:00 pm **Coffee and Networking Break**

4:00 pm – 5:30 pm **On-Grid Case Studies**

[Elad Shaviv](#), CEO, OneOPI; CEO, Israel Smart Energy Association; Board Member, Microgrid Israel

[*Redefining ROI with Improved Control of Existing Assets*](#)

[Sandra Vanderstoep](#), Project Manager, PVI Construction and Maintenance

[*Crossing the Chasm to Market Adoption*](#)

[Rick Winter](#), President & CEO, Uni Energy Technologies (UET)

[*Enabling PV as the Primary Energy Source in MW-Scale Microgrids*](#)

Eric Martinot, Director of the Global Initiative, Distributed and Local Energy (DALE) & Senior Fellow, World Resources Institute of China



[Micro-Grids and Distributed Energy in China: Business, Policy, and Planning Models for Scale-Up](#)

5:30 pm – 7:00 pm **Reception**

Tuesday, September 19, 2017 - Day 2

8:00 am – 8:30 am **Registration and Continental Breakfast**

8:30 am – 8:40 am [Quality Assurance Framework \(QAF\) Announcement](#)
[Ian Baring Gould](#), Technology Deployment Manager, NREL

8:40 am – 9:10 am **Keynote:** [Cathy Zoi](#), Co-founder and President of ODYSSEY
Meeting the Challenges of Cost-effective Energy Access

9:10 am – 10:00 am [Finance Panel Discussion](#)
[Mark Crowdis](#) (Moderator), Partner and Co-Founder, 127 Energy

Panelists:

[Javier Cuervo](#), Lead Energy Specialist, Energy Division, Inter American Development Bank

[Tia Hansen](#), Acting COO, Microgrid Investment Accelerator

[Ali Amirali](#), Senior Vice President, Starwood Energy Group

[Cathy Zoi](#), Co-founder and President of ODYSSEY

10:00 am – 10:30 am **Coffee and Networking Break**

10:30 am – 12:00 pm **Islands Microgrids**

[Marc Lopata](#), President, Azimuth Energy and Solar Island
[HOMER as a Swiss Army Knife, for Business Development, Engineering and Finance Support](#)

[Kaitlyn Bunker](#), PhD, Manager, Rocky Mountain Institute, Island Energy Program
[Microgrid Development in the Caribbean: Collaborative Approaches for Small Utility Systems](#)

[Nathan Adams](#), Director of Technology and Business Development, Microgrids and Renewable Automation, ABB

[Yung Wong](#), Manager of Engineering, WorldWater & Solar Technologies



[Integrated Water-Electricity Microgrid Planning in the Philippines using HOMER Pro. A Five Island Microgrid Case Study](#)

[Herbert Wade](#), Independent Energy Consultant, Pacific Island Governments and Utilities
[Rural Electrification by Solar PV Mini-Grids in the Pacific Islands](#)

12:00 pm – 1:30 pm **Lunch**

1:30 pm – 2:00 pm [Dr. Peter Lilienthal](#), CEO, HOMER Energy
[What's New with HOMER: Webapps, APIs, & more](#)

2:00 pm – 3:30 pm **Operational Issues**

[Omar Saadeh](#), Consultant, Accenture
[DER@Scale: The Utility Perspective](#)

[Darrin Johnston](#), Customer Solutions Manager, Caterpillar
[Remote Monitoring of Microgrids](#)

[Eunice Ntobedzi](#), Innovator, EMPowered FinTech API/Service; Director, Sandico (Pty) Botswana, an Energy Service Company
[We Can Revolutionize Renewable Energy Funding in Africa](#)

[Sunil Cherian](#), Founder & CEO, Spirae

3:30 pm – 4:00 pm **Coffee and Networking Break**

4:00 pm – 5:30 pm **Off-Grid Case Studies**

[Hiwot Digafe Berihun](#), Assistant Professor, Jimma University
[Life Cycle Energy Analysis on Microgrid System for Sustainability: A Case Study on the Microgrid Power Plant at Adama Town, Ethiopia \(2016\)](#)

[Samuel Babalola](#), Student, Pan African University Institute of Water and Energy Sciences (including Climate Change) - (PAUWES)
[Design & Optimization of Off-Grid Solar PV/Diesel Hybrid Power System for Remote Micro Base Transceiver Stations - In Nigeria](#)

[Frank Bergh, P.E., LEED-AP](#), VP of Grid Engineering, Sigora International
[Moun yo swaf Kouran/"People are thirsty for power" - A Case Study of Sigora Haiti](#)

[Mohit Chhabra](#), ABB
[Incremental Hybridization: The Economics of Solar & Battery Energy Storage for Off-Grid Mines](#)

5:30 pm – 5:40 pm **Program Wrap Up**



Dinner on Own

Wednesday, September 20, 2017 – Day 3 – Optional Training Day

Conference participants have the option to have a full day of training in the HOMER software from the certified HOMER trainers at HOMER Energy (additional fee charged). Choose from **Foundations of HOMER** or **Advanced Topics in HOMER**. Each track is a full day of training.

Training is from 9:00 am – 5:00 pm. Room details will be available at registration. **Lunch will be provided for all trainees.**

Requirements: Trainees will need to bring a Windows laptop with the most recent version of HOMER Pro installed. Course participants who do not own a HOMER Pro license will be provided with a training license. Free trial licenses will also be sufficient for the training.

Course Descriptions:

Foundations of HOMER will familiarize participants with HOMER's user interface and the simulation-optimization-sensitivity analysis paradigm to allow them to begin using HOMER independently for small systems. By the end of the Foundations course, participants will have simulated a diesel generator system with and without batteries for an isolated off-grid application, optimized the system design by adding solar panels, explored the sensitivity of the optimal system design to interest rate and diesel fuel cost assumptions, and explored the implications of 100% renewable systems. Users will also design distributed solar+storage systems interconnected with a utility grid. Attendees will learn not only how to analyze these systems, but gain tools for communicating their findings with others.

Advanced HOMER Topics is a series of four 1.5 hour mini-courses, each on a different advanced topic. *Participants in the advanced track must have previous HOMER experience or have completed Foundations of HOMER or an equivalent.* The specific advanced courses will include:

- (1) modeling larger systems with multiple diesels,
- (2) thermal loads, combined heat and power,
- (3) advanced grid modeling techniques, and
- (4) advanced wind, solar, and custom renewable component modeling.

Thursday, September 21, 2017 – Day 4 – Optional Bonus Day

Participants will have the option to visit the National Renewable Energy Laboratory in the morning and a working local microgrid in the afternoon. More information will be posted as we work out the details.



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