The Microgrid Symposium Tradition

San Diego 2009 Symposium on Microgrids

17 & 18 September 2009

by

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supported by the California Energy Commission

Past Microgrid Symposiums

- idea proposed at IRED Brussels meeting Dec 2004
- first Symposium held at Berkeley in June 2005

  (supported by CEC, DOE, GE, & Eaton)
- second Symposium at Mont-Tremblant near Montréal

  (supported by NRCan & CEC)
- third Symposium in Nagoya, Apr 2007

  (supported by Osaka, Toho, & Tokyo Gas Co.'s, NTT Facilities, Shimizu Construction, and CEC)
- fourth Symposium on Kythnos Island, May 2008

  (supported by U.S. Dept. of Energy, Public Power Corp., Center for Renewable Energy Sources, and National Technical University of Athens)

all Symposium materials at http://der.lbl.gov/

Berkeley 2005

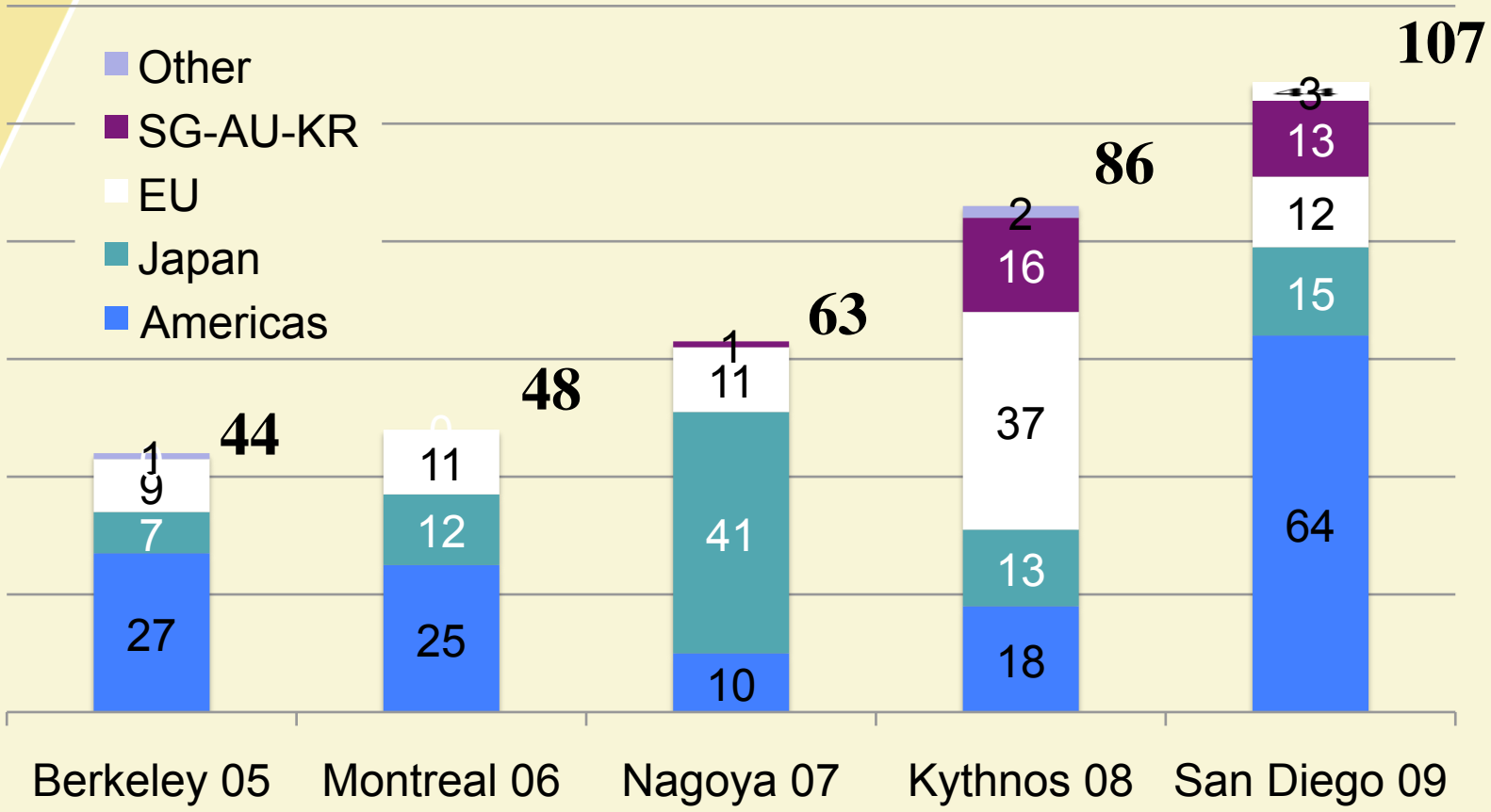
CERTS Berkeley 2005 Symposium on Microgrids
Faculty Club, UC Berkeley
Berkeley, CA
June 17 2005

Mont-Tremblant (nr. Montréal) 2006

Nagoya 2007

Kythnos, Greece 2008

Symposium Attendees by Region



San Diego 2009 Symposium on Microgrids

- 2008 reorganization of regions to
  Americas, Japan, Europe, & Singapore-Australia-Korea
- IEEE ECCE 2009, San Jose, 20-24 Sep 2009
- welcome speakers from Chile & China
- maintain informal atmosphere
- interesting installations on U.C.S.D. campus
- thank our sponsors:

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Symposium Format

TWENTYNINTH DRAFT – 26 Aug 2009

San Diego 2009 Symposium on Microgrids

Faculty Club, University of California San Diego

Thursday & Friday, 17 & 18 September, 2009

DAY 1: Morning Sessions	
8:30 – 8:45	Chris Marnay (Berkeley Lab.) The Microgrid Symposium Tradition
8:45 – 9:00	Arthur Ellis, Vice-Chancellor for Research (U.C.S.D.) Welcome to U.C. San Diego
Americas Session – chair: Reza Iravani (U. of Toronto)	
9:00 – 9:20	Merrill Smith (U.S. Dept. of Energy) ??? (California Energy Commission) Lisa Dignard-Bailey (Natural Resources Canada) Overview of Microgrid R&D in the Americas
9:20 – 9:40	Alex Huang (North Carolina State University) The FREEDM Project
9:40 – 10:00	Janos Rajda & Leo Casey (Satcon Technology Corp.) Microgrid Power Electronics: Power Source and Energy Storage Power Conditioning, Sub-cycle Switching and Grid Gateway
10:00 – 10:20	Sunil Cherian (Spirae) Title TBD
10:20 – 10:30	questions
Break (in the courtyard)	
Japan Session – chair: Ryoichi Hara (Hokkaido U.)	
11:00 – 11:20	Akihiko Yokoyama (U. of Tokyo) Overview of Microgrid R&D in Japan
11:20 – 11:40	Yasuhiro Kojima (Mitsubishi Electric) Operational Results of the Hachinohe Microgrid Demonstration
11:40 – 12:00	Hiroshi Asano (CRIEPI) Demand-Supply integration in the Next Generation Grid (TIPS)
12:00 – 12:30	discussion of morning sessions
Lunch (in the courtyard)	

TWENTYNINTH DRAFT – 26 Aug 2009

DAY 1: Afternoon Sessions			
Singapore-Australia-Korea Session – chair: Hiang Kwee HO (SINERGY Centre)			
13:30 – 14:00	Daniel Yap (SINERGY Centre, Singapore) Updates on A*STAR's Experimental Power Grid Centre (formerly SINERGY Centre)		
14:00 – 14:30	Jaeho Choi (Korea Electrical Industry Tech. Res. Assoc.) & Jin-Hong Jeon (KERI, Korea Electrotechnology Research Institute) Microgrid R&D in Korea, and Test Results of KERI Microgrid Pilot Plant		
14:30 – 15:00	Glenn Platt (CSIRO ICT Centre, Australia) Minigrids- are we serious?		
15:00 – 15:20	discussion		
Break			
Campus Tour and Solar Turbines Cruise			
15:30 – 15:40	Richard Brent (Solar Turbine) John Dilliot (U.C.S.D.) Welcome to the Heat Plant Tour and Cruise & Logistics		
15:40 – 16:30	Tour of U.C.S.D. CHP plant and microgrid project		
16:45 – 17:15	Bus ride to Solar Turbine boat		
17:30 – 19:30	cruise of San Diego Harbor (limited to ~50 passengers)	or	reception at Sheraton Hotel
19:40 – 20:00	Bus ride back to hotel		
Dinner on your own			
End of DAY 1			

Symposium Format

TWENTYNINTH DRAFT – 26 Aug 2009

DAY 2: Morning Sessions	
Europe Session – chair: Britta Buchholtz (MVV Energie)	
9:00 – 9:20	Johan Driesen (K.U. Leuven) Overview of Microgrid R&D in Europe
9:20 – 9:40	Phil Taylor (Durham University) Transforming Low Voltage Distribution Networks into Small Scale Energy Zones
9:40 – 10:00	Carlos Moreira (INESC) Microgrids and Electric Vehicles
10:00 – 10:30	Discussion
Break (in the courtyard)	
Remote Applications and Emerging Nations – chair: Giri Venkataramanan (U. of Wisconsin, Madison)	
11:00 – 11:20	Patricio Mendoza-Araya (University of Chile) The Iniciativa GeVi Project
11:20 – 11:40	Chengshan Wang (U. of Tianjin) Overview of Microgrid R&D in China
11:40 – 12:00	Discussion
Lunch (in the courtyard)	

TWENTYNINTH DRAFT – 26 Aug 2009

DAY 2: U.S.DOE RDSI Program Review	
chair : Merrill Smith (U.S. Department of Energy)	
13:00 – 13:15	Tom Bialek - SDG&E Utility Integration of Distributed Generation
13:15 – 13:30	Roger Weir - ATK Space Systems Integrated, Automated Distributed Generation Technologies
13:30 – 13:45	Yahia Baghzouy – University of Nevada, Las Vegas Dramatic Residential Demand Reduction in the Desert Southwest
13:45 – 14:00	Mohammad Shahidehpour – Illinois Institute of Technology Perfect Power Prototype
14:00 – 14:30	discussion
Break	
chair : Merrill Smith (U.S. Department of Energy)	
15:00 – 15:15	Howard Feibus – (Innoventive Power) Interoperability of Demand Response Resources
15:15 – 15:30	TBD – City of Fort Collins (????) Fort ZED –
15:30 – 15:45	Bruce Dickinson – Chevron Energy Solutions CERTS Microgrid Demonstration at the Santa Rita Jail
15:55 – 16:00	Jay Griffin – University of Hawaii Managing Distribution System Resources
16:00 – 16:30	discussion
End of Special U.S. Session	
Dinner Casa Guadalajara, Bazaar del Mundo, Old Town San Diego (no free drinks)	

Welcome!

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