



Consortium for Electric Reliability Technology Solutions  
Berkeley 2005 Symposium on Microgrids  
June 17, 2005  
UC Berkeley Faculty Club, Berkeley CA

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### Participant Contact Information and Research Activities

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What is your working definition of a microgrid? How is it different from the following working definition?  A microgrid is an integrated power delivery system consisting of interconnected loads and DER which, as an integrated system, can operate in parallel with the grid or in an intentional island mode. The integrated DER are capable of providing sufficient and continuous energy to a significant portion of the internal demand, and the microgrid possesses independent controls and can island and reconnect with minimal service disruption.  <i>My definition would generally not include operation in parallel with a larger grid. I suppose I am coming at it from a developing country perspective where microgrids are generally stand alone and do not connect to larger grids</i>	
Briefly describe your research activities on microgrids.  <i>Generally a watching brief but I am interested in the control and standardization aspects. I have been involved with the development of anti-islanding measures for connection of systems to the main grid particularly related to PV systems.</i>	

Please note which of the following technical issues your research addresses (if any):

*This relates to the broader CEEM centre....*

*I personally have an interest in topics 1-4 but not working directly in that area.*

Intentional islanding and resynchronization	<i>No</i>
Protection within the microgrid	<i>No</i>
Voltage control within the microgrid	<i>No</i>
Frequency control within the microgrid during islanded operation	<i>No</i>
Fast load sharing among microsources (for load changes faster than the ramping rates of the prime movers)	<i>No</i>
Heat load matching and load prioritization	<i>No</i>
Economic dispatch of assets	<i>Yes</i>
Meeting environmental constraints	<i>Yes</i>
Other	<i>Please be specific</i>