



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



### Participant Contact Information and Research Activities

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<p>What is your working definition of a microgrid? How is it different from the following working definition?</p> <p>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.</p> <p><i>The definition is the same as ours completely.</i></p>											
<p>Briefly describe your research activities on microgrids.</p> <p><i>The simulation and evaluation power quality on microgrids.</i></p>											
<p>Please note which of the following technical issues your research addresses (if any):</p> <table border="0"><tr><td>Intentional islanding and resynchronization</td><td>Yes</td></tr><tr><td>Protection within the microgrid</td><td>Yes</td></tr><tr><td>Voltage control within the microgrid</td><td>Yes</td></tr><tr><td>Frequency control within the microgrid during islanded operation</td><td>Yes</td></tr><tr><td>Fast load sharing among microsources (for load changes faster than the ramping rates of the prime movers)</td><td>Yes</td></tr></table>		Intentional islanding and resynchronization	Yes	Protection within the microgrid	Yes	Voltage control within the microgrid	Yes	Frequency control within the microgrid during islanded operation	Yes	Fast load sharing among microsources (for load changes faster than the ramping rates of the prime movers)	Yes
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Heat load matching and load prioritization	No
Economic dispatch of assets	Yes
Meeting environmental constraints	Yes
Other	<i>Forecasting the output of renewable energy such as wind-turbine, photo-voltaic with in the microgrid.</i>