



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

Name	<i>Tadahiro Goda</i>										
Affiliation	<i>Mitsubishi Electric Cooperation</i>										
Contact Information	Email: Tadahiro.Goda@hq.melco.co.jp Phone: 81-3-3218-9043 Address: 2-2-3 Marunouchi Chiyoda-ku Tokyo Japan										
<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>I agree to the above mentioned definition.</i></p>											
<p>Briefly describe your research activities on microgrids.</p> <p><i>Protection and control</i></p>											
<p>Please note which of the following technical issues your research addresses (if any):</p> <table><tr><td>Intentional islanding and resynchronization</td><td><i>No</i></td></tr><tr><td>Protection within the microgrid</td><td><i>Yes</i></td></tr><tr><td>Voltage control within the microgrid</td><td><i>Yes</i></td></tr><tr><td>Frequency control within the microgrid during islanded operation</td><td><i>Yes</i></td></tr><tr><td>Fast load sharing among microsources (for load changes faster than the ramping rates of the prime movers)</td><td><i>No</i></td></tr></table>		Intentional islanding and resynchronization	<i>No</i>	Protection within the microgrid	<i>Yes</i>	Voltage control within the microgrid	<i>Yes</i>	Frequency control within the microgrid during islanded operation	<i>Yes</i>	Fast load sharing among microsources (for load changes faster than the ramping rates of the prime movers)	<i>No</i>
Intentional islanding and resynchronization	<i>No</i>										
Protection within the microgrid	<i>Yes</i>										
Voltage control within the microgrid	<i>Yes</i>										
Frequency control within the microgrid during islanded operation	<i>Yes</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>