



Committee Minutes

Committee Name: Government Relations
 Date and Time: March 24th 2014
 Location: Savannah, GA
 Chairperson: Bob Lewis

Minutes

Topic	Discussion	Conclusions
Introductions: Joe H. Eto Chris Bolton-not present	Joe H. Eto presented on behalf of: Dan Ton-Program Manager (not present)	
“Micro grid R&D at the DOE” Presentation Joe H. Eto-present	<u>Highlights</u> WGC has provided a generator set to DoE for testing. Dept. of Energy is government dept. \$4B to civilian R&D, \$5B to industry Office of Electricity and Delivery Funds smart grid, infrastructure and corporate initiatives Also infrastructure restoration. Build models on how will be effected. Focus on power systems engineering research and development Micro grid-island dist. power generation. Single controllable entity to grid. Modernization of grid-CHP focus, efficiency, reliability and security plus renewables. Buzzword-grid resilience. Reduced outages, enhanced reliability and vulnerability Peak load reduction projects,	<u>Final Comments</u> 1547 Interconnect std, cost, variability Utilities--slow to adopt, regulatory issues. CHP-install and reg. issues, rebates Gas companies financing installs How to get utilities on board Combined technology for hybrid systems, i.e. solar, wind, diesel, gas, bi-fuel, etc. Utilities need ROI. Plants shutting down-coal. Energy storage growing market Provide input to Bob Lewis from industry. Companies to provide information. Presentation to be sent to attendees.

	<p>parallel and island modes. \$55M DOE awards over 5 years</p> <p>CERTS-micro grid at Santa Rita Jail. WGC products. Fuel cell, wind diesel and solar</p> <p>SPIDERS-DoD projects-Hickam, Fort Carson, Camp Smith, etc.</p> <p>Partnering with local communities to respond to extreme weather events</p> <p>Funding opportunities-\$5-10M for smaller micro grids. FOA released Feb at Grants.gov and Fedconnect.net</p> <p>List of websites displayed on slide</p> <p>Sponsor micro grid workshops around the world inc. China.</p>	
<p>Chris Bolton</p> <p>PM-MEP-not present, by conference call. Bob Lewis displayed slides on screen</p>	<p>Name change to: Project Manager and Expeditionary Energy and Sustainment Systems PM E2S2</p> <p><u>Highlights</u></p> <p>PM-MEP-army largest user of fuel on battlefield-during wartime</p> <p>7600 gensets-Army</p> <p>Paul Richards-acting PM</p> <p>Support force sustainment capabilities</p> <p><u>Priorities</u></p> <p>Afghanistan-draw down</p> <p>No one responsible for base power, excess power and equipment. Duplicate systems.</p> <p><u>Future programs</u></p> <p>Hybrid</p> <p>Small tactical power</p> <p>Improved power distribution</p> <p>Batteries</p> <p>Current</p> <p>AMMP's re-procurement</p> <p><u>Theater support</u></p>	<p>Chris may be present for Fall conference</p> <p>TQG upgrades-medium and long term</p> <p>Focus on micro grid where practical</p> <p>Power management capability</p> <p>AMMPS rebuy</p> <p>Paralleling and communication review-ties into EGSA digital paralleling initiative</p>

	<p>Afghanistan-small bases from large.</p> <p>One generator to multiples-610 gensets. Larger bases to grow</p> <p>Force 20/25 Logistics optimization.</p> <p><u>Tactical power distribution</u></p> <p>PDISE-rugged breaker boxes</p> <p>24, 042 quantity in field-3 to single phase.</p> <p>Tactical micro grid-lamps and amps.</p> <p>Auto start of generators according to load. Backup to utility but does not feed utility.</p> <p>New distribution boxes required. Ring bus capability.</p> <p><u>Micro grids</u></p> <p>Micro grid example slide. Hospital support is increasing. Mobile app.</p> <p>Field demo micro grids. DRS navy example</p> <p>L-3 Eaton-Force provider TQGS</p> <p>L-3 LAMPS-power management</p> <p>Other vendors have provided different communication methods</p> <p>Improved PDISE-FY 2015</p> <p>Balancing between phase legs, overloading single phase legs. Visual indication.</p> <p>MIT slide-load demand control or large loads. Energy storage provides limited return on investment.</p> <p>PV or wind not attractive.</p> <p>Load shedding adds grid robustness. Super UPS offers less complexity</p> <p>Info storage available now on current systems. Sending to central dashboard.</p> <p>Future-plug and play smart systems</p> <p>Self-learning algorithms</p> <p>Large scale energy storage-PV</p>	
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	<p>(cheaper)</p> <p>Common open network architecture</p> <p>EGSA to provide standards for paralleling</p> <p>Full load consumption, etc. to CONUS monitoring point.</p> <p>Self-deploying generators??</p> <p><u>Overall</u></p> <p>Near term</p> <p>1 kw less, soldier power, TQGS update</p> <p>Hybrid-TQG remote start kits</p> <p>Distribution</p> <p>IPDISE, micro grids, AMMPS and LAMPS, open architecture standards.</p> <p><u>Last slide</u></p> <p>Program plans (very projected)</p> <p>TQG upgrade 2028 up to. Start 2015 med, 2020 small. Large 2016-2028.</p> <p><u>Question</u></p> <p>Communication between gensets</p> <p>Basic level of communication-need more clarification. Should pursue this with MEP</p>	
<p>Tactical micro grid consortium, IL. Government entity. Dept. of Defense.</p>	<p>Work together with codes and standards and government relations.</p>	<p>Opportunity to get into spec review at early stage</p>
<p>Vote for new co-chair</p>	<p>Seconded for David Stringer</p>	<p>Confirmed</p>
<p>Search for secretary</p>		<p>Send out ballot</p>
