

Advanced Power Networking - Microgridding

DEVCOM GVSC and DEVCOM C5ISR have collaborated to develop and demonstrate the system hardware and communications for fast-forming, efficient, and vehicle centric power networking – vehicle microgrids.

Fast-forming – The system forming time between two Tactical Microgrid Standard MIL STD 3071 compliant vehicles is down to ~90 seconds and packing away the hardware and getting back on the move takes ~60 seconds.

Efficient – Evaluation with Warfighters has shown a doubling of operational duration where two networked vehicles provided power to three command posts for three days without resupply. Networking **hybrid** platforms can provide a 4x increase in operational duration of static operations.

Vehicle Centric – The on-board power capability eliminates the need for towed generators which frees pintles and improves mobility.

Labor Saving - Filling fuel tanks on networked vehicles (~ every 3 days) eliminates the need for Gerry-can filling of generators every five hours.

Set-up time Savings – Stop. Pull the cables. Plug in your platforms to each other. Plug in to your off-board systems (if any). System self-forms and manages. System status is reported on an easy-to-use dashboard. NO GROUND RODS to pound into the ground.

GVSC and C5ISR have developed licensable capabilities that can significantly reduce programmatic risk, developmental timing, and speed fielding transition for tactical and combat platforms. We can also work with your team to integrate Vehicle Networking capability on platforms.



Dual FMTV Vehicle Centric Microgrid supporting three command posts.