

Abstract for CRADA SOW DERP Technologies, LLC. and NETL

The CRADA between NETL and Derp Tech aims to evaluate potential for early adoption of novel utility-scale advanced power control systems in distributed generation systems. The goal is to enable the grid to add significant hybrid sources, including hybrid power and thermal/electric storage systems, for flexible and adaptive islanding microgrid capabilities. Controls research conducted using the Hybrid Performance Project facility (Hyper) has illustrated the potential for fuel cell turbine hybrid power systems to deal with load transients and off-design operation. DERP Tech is involved in the design and deployment of commercial solutions for adding microgrids and DG (hybrid combinations for Utility marketplace) to the grid. The information gained from DERP's sample cases will enable NETL to quantify its control strategies for real world scenarios and applications.