

Case Study: Hybrid Micro-Grids

- Hybrid Generation Systems for off-grid connected applications
- 35KW capacity with 40 KWh storage
- Wind and PV solar with biodiesel backup
- T&E Evaluation
 - Operation Optimization
 - Reliability
 - Economics



- Funded by Texas SECO and DOE
- Technology Partner – Xtreme Power
- Integrated XP battery storage technology with COTS generation system
- 7 Systems Installed in Webb County, TX
 - 43 dwellings in La Presa
 - 26 dwellings in Santa Teresita
- Total funding: \$1.3M over 4 years

- Results
 - System optimized for 2nd generation production
 - System engineering completed, available commercially
 - Reliability proven (although not equivalent to grid)
 - Reduced cost of stand-alone generation by half