

Photovoltaic (PV) + Battery Energy Storage System (BESS)

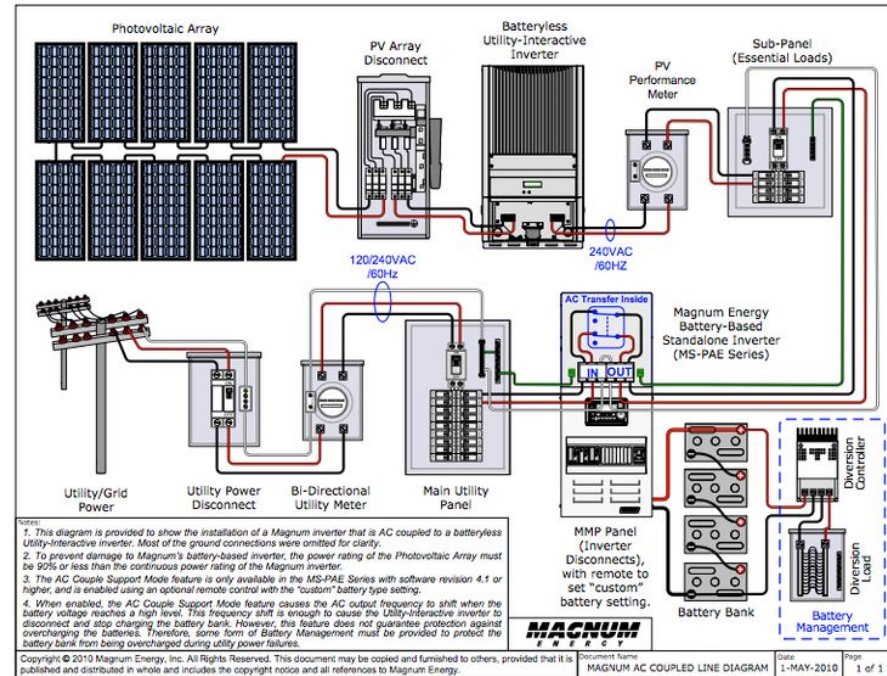
- Clean, carbon-free energy
- Day-to-day utility cost savings
- Resilient power in a utility power outage (e.g. 4 hours)
- Support to distribution system (hosting capacity, voltage support, frequency support, source reactive power)
- Capital Cost (\$3000/kW for PV; \$1500/kWh for battery)
- O&M Cost (\$15/kW/year for PV; \$40/kWh/year for battery)
- Production 1,500 kWh/kW/year depending on climate



Rooftop PV System



Battery Energy Storage System



Photos by Andy Walker, NREL; Costs from ATB.nrel.gov

Community and Workforce Development

Key focus areas for Workforce Development Strategy and Scope of Work.

1. Skills Requirements: Engineering, Technical, Trades, Managers, Accountants, Sales, etc.
2. Labor supply: promote adequate labor supply;
3. Workforce competency; competent to meet industry requirements with structured learning.
4. Credentialing: Professional Registration, Licensure, Certification (eg NABCEP PV Installer Certification); Micro-credential (eg inverter repair).
5. Training capacity; the capability of training providers sufficient for rapid growth in workforce demand; universities; trades schools; high school; internships; apprenticeships
6. Specific programs: competency based training packages aligned with specific project needs
7. Replacement demand – loss of skills, experience, knowledge over time
8. Community benefits and impacts: opportunities but also competition for employees.

