Who are we and what do we do?

Field Services

We are responsible for adhering to the APS Interconnection Requirements Manual (IRM) and Electric Service Requirements Manuel (ESRM) when performing the site inspection/meter installation for customers interconnecting a distributed energy resource (DER) to the APS grid.

Our goal is to ensure customers are interconnected to the APS grid without compromising the protection and safety of our customers, our employees and first responders.
Electrical Hazards

Electrical Hazards Hide

always look for them before they surprise you
Hidden Dead Short
Don’t leave a trap
Most hazards cause damage
De-Rates

- City/County Inspector on site
- Virtual inspections
- Missing / incorrect parts
- Volume of de-rates
- Prior to installation
Meter Sets
Most Common Field Issues

- Equipment Labeling
- Access Issues
- Clear & Safe Workspace Zone
Labeling Importance
Production Meter Labeling
Examples of Systems and Labels – found on aps.com/dg
PV Meter Wiring

APS owned meters are required for all generation resources interconnecting to the APS grid. The wiring configuration of the meters allow us to calculate the energy output of the generation system. The meter information is collected as delivered and received.

Photovoltaic (PV) generation is collected as delivered and should be connected to the top of the meter socket.
ESS Bi-Directional Meter Wiring

The ESS generation is collected as delivered and should be connected to the top of the meter socket.
Backup Load Production Meter

The connected load is received and should be connected to the bottom of the meter socket.
Clear Workspace

Aps reserves the right to determine all meter and service locations

- The production meter(s) and utility disconnect(s) must be readily accessible without passing through restricted areas, gates or fences and should not be under covered structures such as a carport, breezeway, patio, porch, or other area that can be enclosed.
- APS prohibits water valves or hose bibs to be located within the working space of the equipment.
- APS requires a 36-inch radial clearance from the gas exhaust vent.
Workspace
Workspace
Considerations

• Customer experience
• Multiple site visits
• Lost production
• Incomplete installations
• Missing/wrong parts
• Damaged equipment
Questions?