

Rooftop Solar's Unspoken Truth: Fire Risks are Uncomfortably Common

Ankil Sanghvi: asanghvi@cea3.com



CEA
CLEAN ENERGY ASSOCIATES

Background

Fire risks for rooftop PV installations are much more prevalent than many in our industry realize or are willing to admit. The rapidly growing solar landscape is complicated and complex, and at a time of high scrutiny. Data suggests that the majority of PV rooftop fires have stemmed from common mistakes; the status quo in equipment selection, installation, and maintenance has exposed PV systems to serious fire risks. CEA will share insights and lessons learned from hundreds of rooftop inspections, including the most common risks and the underlying drivers for those risks.

Safety problems are more common than many realize. PV Systems are safe, if installed right.

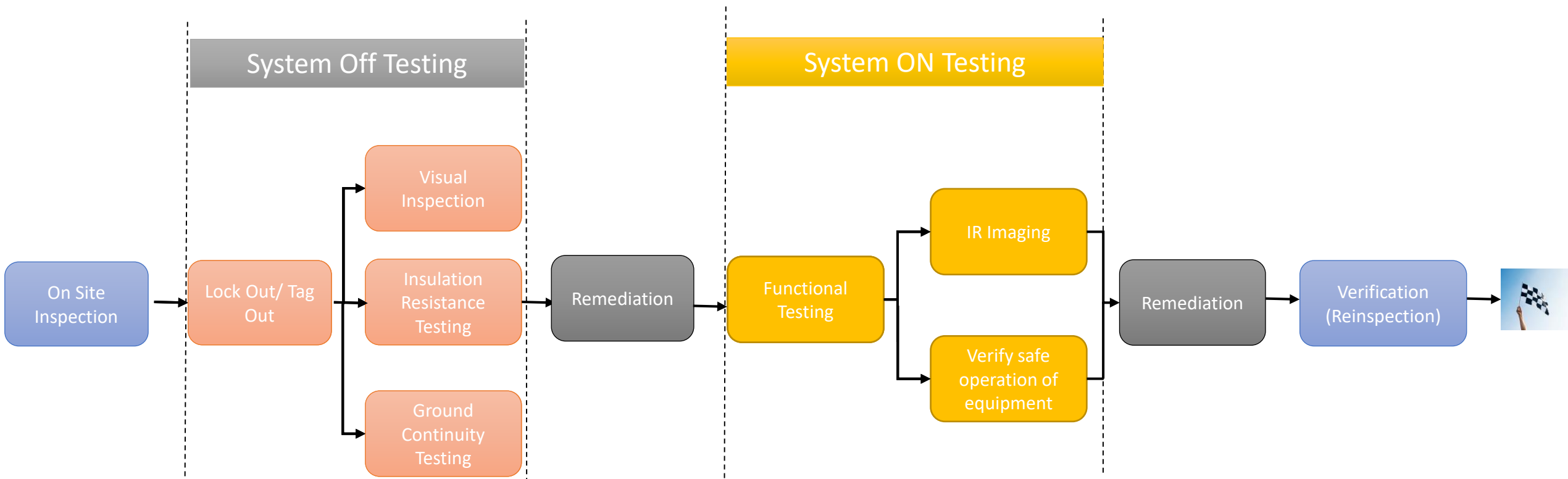
600

CEA has performed over 600 rooftop PV safety audits

97%

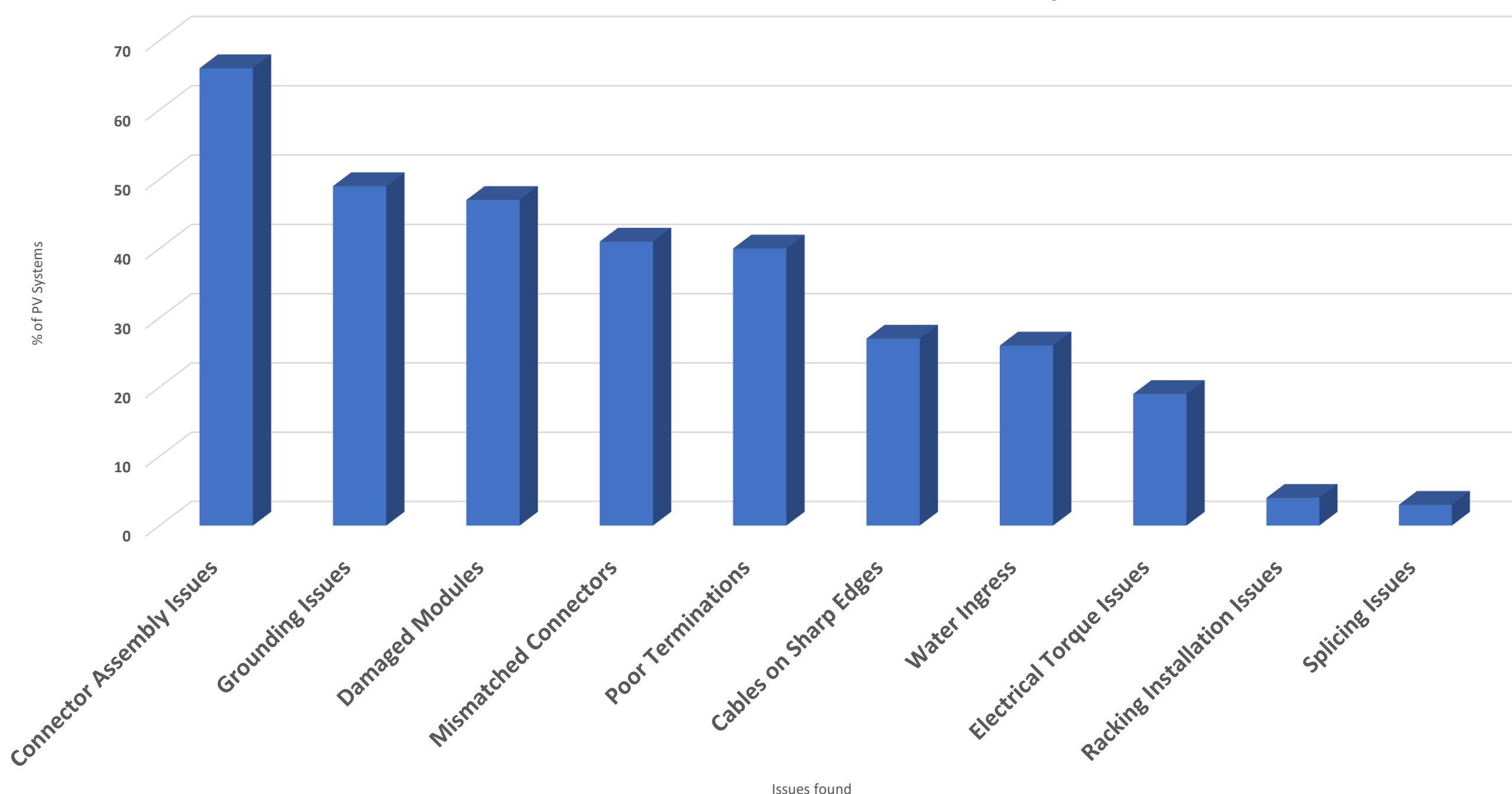
97% of audited systems had major safety concerns

Typical Safety Inspection Flow

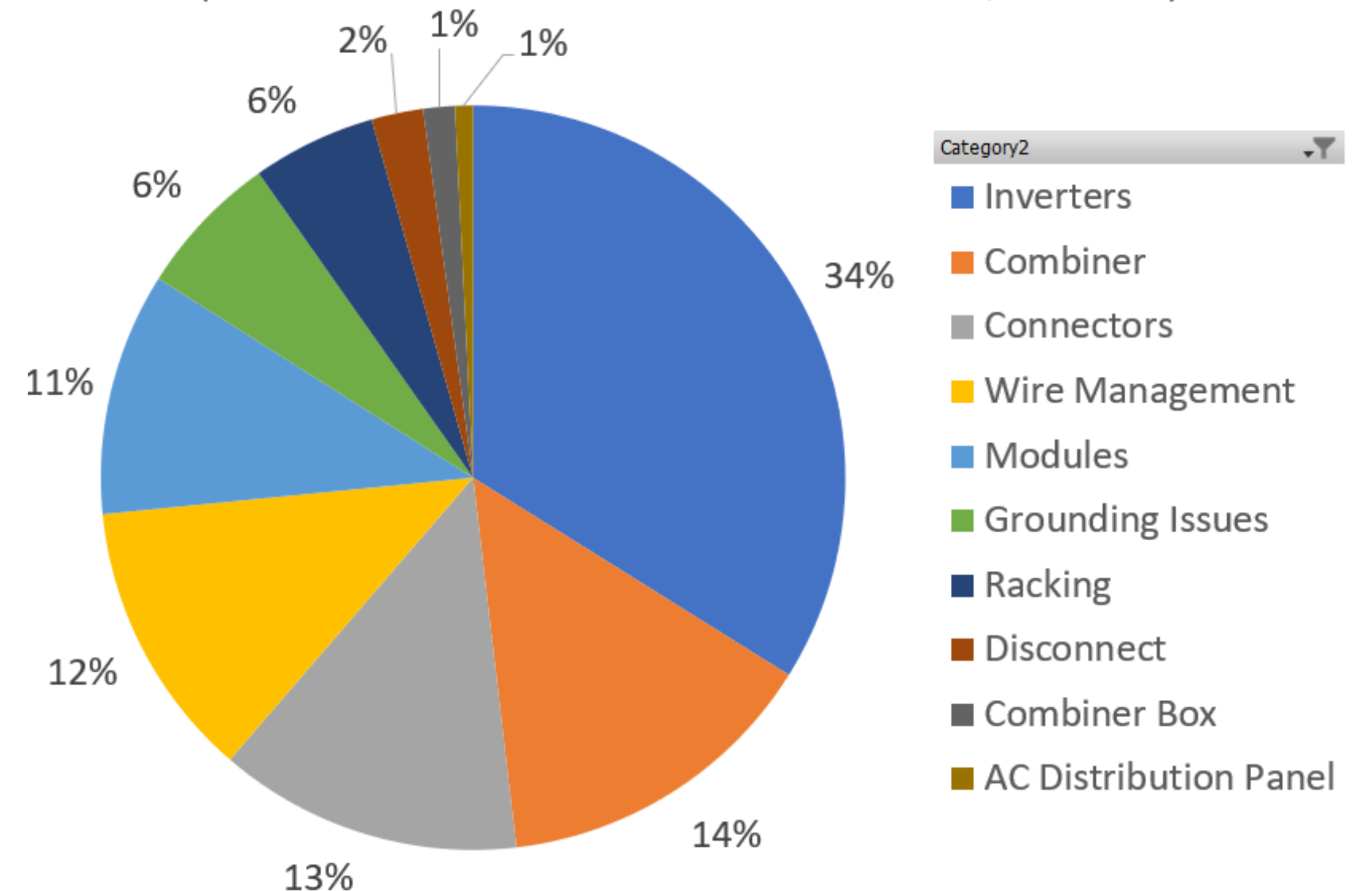


Statistical Findings

Most Common Issues Found on A PV System



Locations Where Issues are Found by Percentage (Data Accumulated from Clients in 2022 with +1,000 issues)



Example Photos of Findings

