

The growth of solar, wind and battery renewable energy sources have been brisk the last few years and are likely to continue their high penetration of both small- and large-scale projects. We analyze the integration of these resources onto both transmission and distribution systems through interconnection studies or fatal flaw assessments. We have analyzed interconnections of small and large resources, performed siting and interconnection studies and most recently performed studies for emerging technologies. In addition, we perform congestion analyses to study moving large quantities of renewable energy over long distances. We have performed hundreds of distribution system studies for utilities throughout the United States, with a wide breadth of industry software knowledge.

## TYPICAL STUDIES PERFORMED:

- Prospecting & Congestion Studies
- PSCAD, PSSE, and PSLF Modeling and Benchmarking Services
- NERC MOD Testing Studies
- Short Circuit Analysis
- Load Flow and Reactive Power Analysis
- Selective Coordination of Relays and Protective Devices
- Arc Flash Analysis using SKM Power Tools for Windows, EasyPower, ETAP, and ArcPro
- Cable Ampacity Analysis using CYMECAP and AmpCalc
- Step and Touch Potential and Ground Grid Analysis
- Relay Settings and File Development
- Harmonic Analysis
- TOV Analysis
- Insulation Coordination Studies
- Effective Grounding Analysis
- Ground Bank Sizing



**EMPOWERING ENERGY SOLUTIONS**  
for the future...today

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