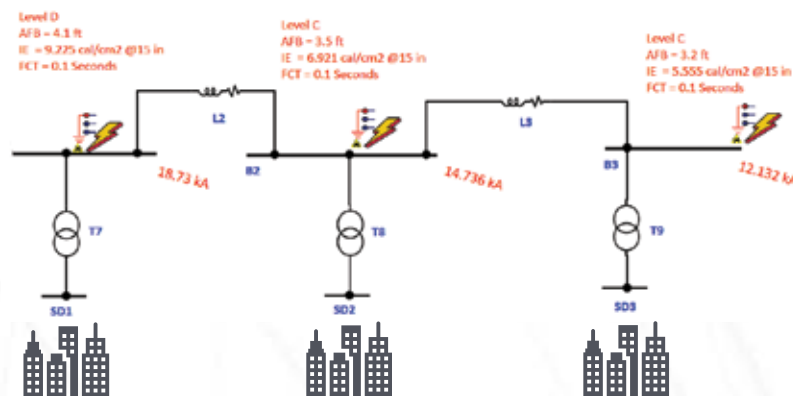


ETAP ArcFault™ analysis software is used for performing Arc Flash Analysis on electric transmission and distribution utilities and renewable power systems operating at 1 kV and above.

### Key Features

- Thousands of protective device libraries
- Protective device sequence-of-operation
- Arc Flash Result Analyzer
- Automatically find worst-case incident energy
- Personal protective equipment editor
- Auto-update worst-case results to datablocks
- Verified & validated against industry standards



### Open-Air Arcing Fault



- OSHA 1910.269
- National Electrical Safety Code - NESC
- Model LG, LL, 3-phase arc faults
- Altitude & transient overvoltage correction factors
- Minimum approach clearances
- Customizable equations & user-definable coefficients

### Arc Flash in a Box



- Extended arc flash model for Arc-in-a-Box
- Enhanced analysis data for equipment > 15kV
- Typical & user-defined gaps between conductors
- Incident energy reflectivity factors for box size
- Auto-gap, working distance & auto-selection of minimum approach distance
- For renewable collector systems application



# Low, Medium & High Voltage Arc Flash Analysis

Fully integrated with Star™ protective device coordination module utilizing time-current characteristic (TCC) curves and short circuit calculations for arcing fault hazard evaluation.

## Automatic Arc Fault Duration

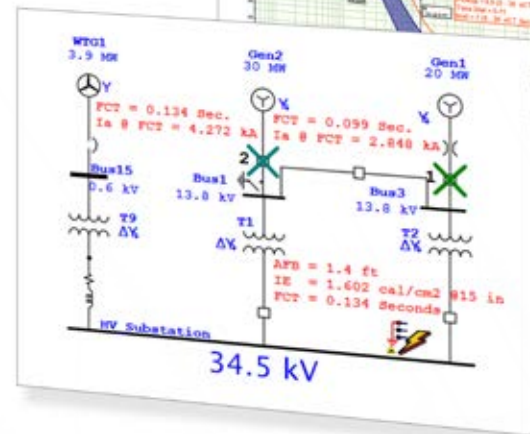
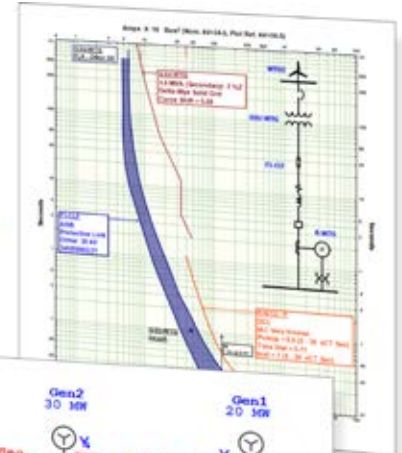
- Power distribution & current-limiting fuses
- Differential & distance relays
- Directional & voltage-restrain relays
- Phase, ground & sequence protective devices
- Plot arc current on TCCs

## Arc Fault Current

- LG, LL, 3-phase faults
- Phase, ground & sequence fault currents
- Short circuit for renewable energy systems
- Auto-trip using LVRT in WTG & PV Inverters
- Fault impedance & high-resistance path to ground

## Model-Driven Arc Fault Simulations

- Unlimited scenarios to evaluate worst-case results
- Graphical simulation of arc faults
- Model utility, transmission & distribution systems
- Reporting, labeling & data sheets
- Alerting for special arc fault conditions



The screenshot displays the ETAP software interface with several windows open. The main window shows a table of simulation results for various fault types (F1, F2, F3, F4, F5, F6) across different buses (Bus1, Bus2, Bus3, Bus4, Bus5, Bus6, Bus7, Bus8, Bus9, Bus10, Bus11, Bus12). The table columns include Bus, Fault Type, Fault Current (kA), Fault Duration (Sec), and Arc Energy (kcal/cm²). The results are color-coded from green (low hazard) to red (high hazard). A 'Minimum Approach Distance' dialog box is open, showing voltage ranges and distances. A 'Warning' label is displayed, indicating 'Arc Flash and Shock Hazard Present' with specific protection parameters: Incident Energy: 1.46 cal/cm², Working Distance: 15 in, Arc Flash Boundary: 2 ft, Equipment Bus: 34500 V AC, Equipment Type: Switchgear, Equipment Name: Collector Bus, Analysis Expectation Date: 03-30-2018, Equipment Voltage: 34500 V AC, Working Distance: 15 in, Insulating Glove Class: 4.



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