

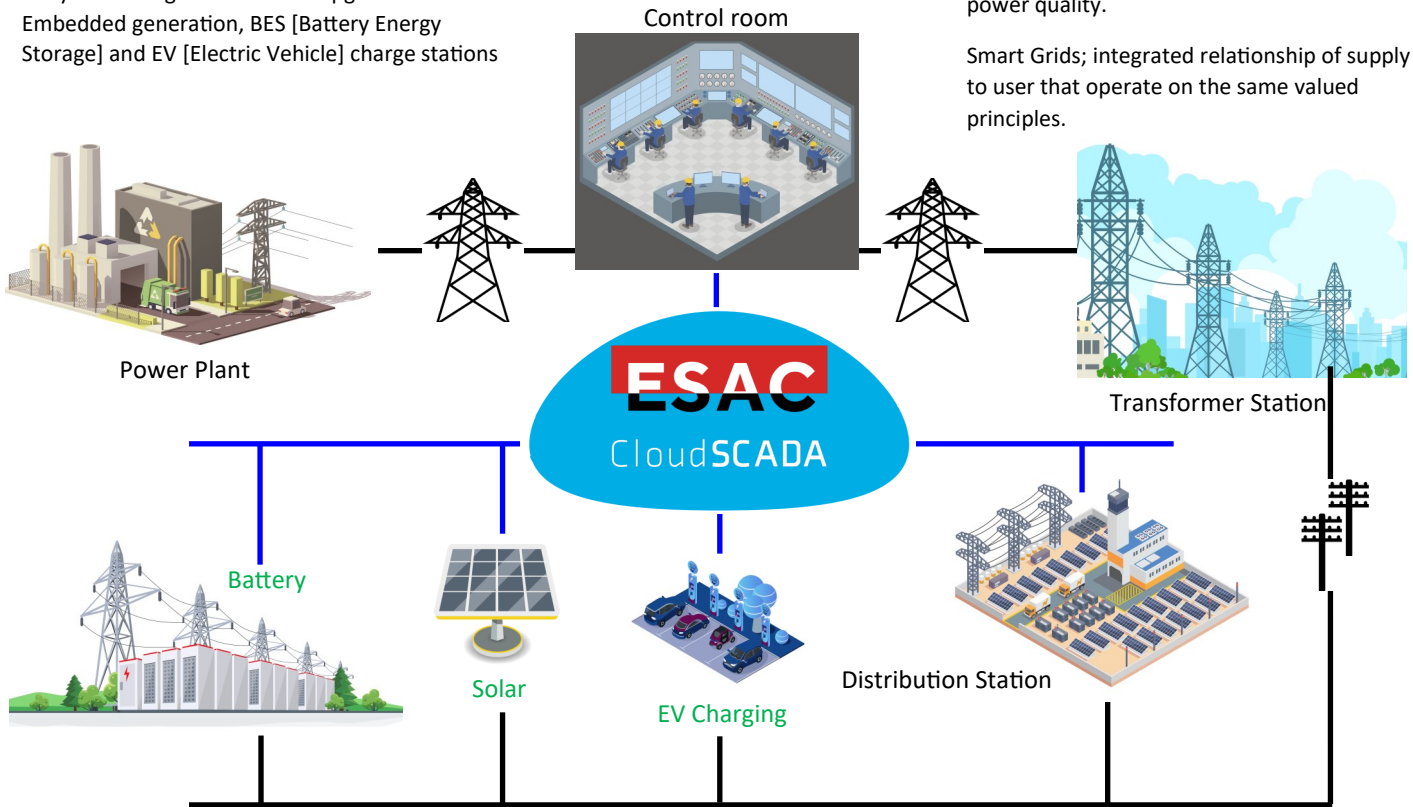
Electric Utilities [LDCs]

Address aging assets, expansion and new distribution requirements ensuring future migration.

- Transformer or Distribution Stations protection relays and integrated controls upgrades
- Embedded generation, BES [Battery Energy Storage] and EV [Electric Vehicle] charge stations

Electrical utility distribution is changing with energy costs increasing, additional demands to supply limitations and maintaining overall power quality.

Smart Grids; integrated relationship of supply to user that operate on the same valued principles.



Maximize utilization with limiting costs; outside contract resources working as organization extension, integrated reports to manage assets with power quality and supply peaks with stored energy.

I. Upgrade stations protections and integrated central/local controls with worker safety.

- Engineered upgrade project retrofitting protection relays and improve functional performance
- Control centers with advanced reporting and users mobile support
- Grid issue notification and determine control improvement from statistical data energy profile

II. Manage embedded generation ensuring specified distribution grid performance.

- Feeder connection status, energy and power quality monitoring with remote control
- Energy recording for contribution and feeder operations; individual and combined magnitudes
- Supply contribution interfaced remote operations and determined cost displacement

III. BES and 2nd level electric vehicles operations to minimize overall load peaks energy cost.

- Study to determine optimal grid feeder location and sizing with initial control methodology
- Charging with embedded generation and/or low load energy profiles
- Establish cost savings and support progressive social climate control

ESAC has 30+ years experience of power systems with generation and load management as overall project or strategic solutions supplier working with owners to ensure quality deliverables.

Electrical and Integration Engineering – Outside Experts Team Extension
Cost Affective System Improvements Supporting Progressive Future Migration
Integration and Retrofits or New Projects Technical Resources

All with Versed Technical Staff and CloudSCADA Integrated Solutions

Addressing your electrical upgrades and software/hardware integration working with your engineering to establish criteria with our knowledge and achieving implementation goals.