

OVERVIEW AND WORK WITH RENOVA:

MG Associates, LLC (MGA) provided on-site electrical engineering, design, construction and material procurement services to Bay Area refineries (Unocal, Shell and Chevron) under MG Associates/Mahesh Gupta P.E. banner from year 1986 through 1994. MGA was setup again in year 2014 to provide Electrical Engineering/Design, Energy Management and construction support services in several industry sectors: data centers, semi-conductor fab plants, clean rooms, maintenance/safety projects, electrical/mechanical facilities (new and upgrades), refineries, research laboratories, power co-generation plants, normal, emergency and critical power systems, office buildings, High/Medium Voltage substations and power distribution system, commercial buildings and industrial plants, etc.

Mahesh, one of the principals in MGA with extensive hands on experience in electrical engineering and design, has provided his experience and expertise as owners' engineer, and as sub-consultant to other engineering/construction companies in Bay Area since 1986 in design/project management, cost estimating, contract bidding/analysis, construction management, procurement, City permitting, developing electrical maintenance and safety programs per NFPA70E and IEEE1584, testing and commissioning.

MGA can provide invaluable electrical engineering/design consulting on any project RENOVA participates on.

SIGNIFICANT PROJECTS AND EXPERIENCE:

- ❖ 115kV-12,47kV Grizzly Sub modifications for phased in ~60MW data center load.
- ❖ Travis Air Force Base Building 810 enter Island Power demolition and renovation.
- ❖ Polycoat Chemical Bedford Tx Plant electrical system code compliance for Safety audit report.
- ❖ 52MW data center feasibility study and Phase 2B detailed design/construction design of Intel Data center facility in Santa Clara.
- ❖ On-site Electrical Engineering field support for staff augmentation.
- ❖ 5MW data center utilizing 'Free Atmospheric Air' cooling supplied by existing modified air handling units/cooling towers.
- ❖ Implemented energy savings measures in projects and received Utility Rebates.
- ❖ Integrated of StarLine Buses in Intel Chip Testing Lab design providing operational flexibility saving project \$650K in initial cost and indeterminate future cost.
- ❖ Developed electrical plans to install and commission the future NERSC-5 system with cooling from new localized Liebert units, chillers, cooling towers, pumps etc. Coordinated with PG&E for new utility interface, connection and meterings.
- ❖ Other major projects included MXL fire alarm system, fiber network and its mapping for the software source codes, security system, auto mail sorting plants for USPS, major power distribution design for mining and Concentrator projects in China, Peru, Chile, Mexico, South Africa, Venezuela and Yugoslavia, SCADA for medium and low voltage low voltage distribution.



MAHESH C. GUPTA, PE, CEM
Electrical Engineering, Design & Construction Consultant
Principal Consultant, MG Associates, LLC

EDUCATION

M.S. in Electrical Engineering,
University of California, Berkeley, CA.

Personal Financial Planning
University of California, Los Angeles, CA

Business Management and Finance courses
San Jose State University & University of California, Berkeley, CA

B.S. in Electrical Engineering
BITS (IIT), Pilani, India

CERTIFICATIONS & LICENSES

P.E. License (CA E9121 since 1977)
Certified Energy Manager (CEM 13188, since 2008).
Real Estate Broker (DRE 00792591 since 2002)
Mortgage Broker (NMLS 1167049, since 2014)

RECOGNITION

DOE Award for Energy Efficiency Enhancement projects @LBNL

LANGUAGES

English, Hindi

PROFESSIONAL CAREER

MG Associates, LLC, Fremont, CA
2014 – Present (Engineering & Design)

Cal State Realty & Mortgage, Fremont CA
2002 – Present (Real Estate Investment)

Intel Corp, Santa Clara, CA
2006 – 2013 (Engineering Manager)

Lawrence Berkeley National Laboratory,
Berkeley, CA (Chief Electrical Engineer)
1994 – 2006

MG Associates & Mahesh Gupta PE (Electrical Engineering/Construction Consultant)
1986 – 1994

Fluor Corp, Bechtel Corp & Kaiser Engineers
(Engineering/Construction)
1971 – 1994