



THE FIRM

ELEN Consulting, Inc. is a Mechanical, Electrical and Plumbing (**MEP**) Consulting firm with extensive experience in energy efficient HVAC, power and lighting systems for a variety of projects, including commercial, manufacturing, educational, municipal, hospitality, gaming/casinos, entertainment, retail, urban residential, data-processing, bio-tech and other high-technology facilities. Principals that head our firm hold over 150 years of combined technical experience with comprehensive knowledge of the most effective and technologically advanced systems available. As a Small Business Enterprise, we have prepared feasibility studies, deficiency analysis, and master planning documents for large campus type facilities. Our company is vastly experienced with assistance during construction activities including but not limited to performing construction observations, value engineering studies, and commissioning of various facilities.

SERVICES PROVIDED

The firm offers mechanical engineering design in heating, ventilating and air conditioning; refrigeration; plumbing; fire protection and utility distribution systems. Electrical engineering includes power distribution, communications infrastructure, specialty systems and lighting design. The firm also provides energy analysis, LEED and Title 24 documentation. The services provided include **BIM** (Building Information Modeling); commissioning; construction cost estimates; preparation of construction documents and specifications; bidding; and post-construction administration.

Construction Drawings are produced using the latest edition of Autodesk AutoCAD and/or Autodesk Revit MEP computer software. Specifications are prepared in-house and a master specification has been developed following the CSI format. Our documentation practices are continually being upgraded to meet the latest standards and codes of the construction industry.

The company provides Energy Analysis, Life Cycle Cost Analysis and compliance documentation for new and existing facilities. Energy conservation techniques are applied to all designs. By working with Utility Companies on their rebate programs helps ELEN Consulting Inc. provide clients with the best systems for their investment.

Cost Estimates are produced using an internally developed spreadsheet program. The unit costs are continually being updated based on the latest information from either the manufacturers' cost or Means Cost Books and Cost Works computer software. The familiarity with the cost of various components helps the design meet both functional and cost constraints of any project.

INSURANCE

ELEN Consulting, Inc. has valid and current insurance including \$2,000,000 in General Liability Insurance and \$2,000,000 in Professional Liability Insurance. A current Certificate of Insurance is available upon request.

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CHP and Microgrid Projects

- **Pechanga Microgrid, Temecula, CA:**
20MW 12kV, (2) 10MVA Utility Services, 5MW Solar NG Cogeneration Turbine, (8) 2MW Reciprocating Generators, 2,500A 12kV substation, Energy Storage Battery System, Power Monitoring and Control Systems, underground primary electrical distribution.
- **Roger Road WWTP Microgrid, Tucson AZ:**
6MW 5 kV, (3) 2MW Waukesha LFG generators, 2,500A 5kV substation, Power Monitoring and Control Systems, primary electrical distribution.
- **QUALCOMM buildings W/WT Microgrid, San Diego, CA**
10MW 12.47k, 5MW Solar NG Cogeneration Turbine (3) 2.2MW Reciprocating Generators, 2,500A 12kV substation, Energy Storage Battery System, Power Monitoring and Control Systems, underground primary electrical distribution.
- **Junction Ranch Microgrid, China Lake, CA**
1MW 480V, 1MW Reciprocating Generators, PV array, Energy Storage Battery System, Power Monitoring and Control Systems.
- **Naval Hospital B1145 Microgrid, Twentynine Palms, CA**
3MW 12kV, (3)1MW Reciprocating Generators, Power Monitoring and Control Systems, Fuel Storage and distribution system.

Military Utility Projects

Camp Pendleton:

- P-1094/ P-1093 Electrical and Communication Infrastructure Upgrade: 8 miles of underground electrical duct banks, 85 miles of overhead transmission lines, over 2000 power poles.
- P-1048 Electrical Services and Infrastructure Upgrade: three new 12kV Substations (Haybarn, Las Pulgas, Basilone), 28 miles overhead transmission lines, 600+ power poles
- Infrastructure Upgrade in Areas 43, 52 and 53.
- P-107 Transmitter/Receiver buildings and Infrastructure Upgrade in Area 31.
- Area 63, new 12kV Substation, Electrical Infrastructure Upgrade and 4kV-12kV overhead electrical conversion.
- Area 43, new 12kV Substation, Electrical Infrastructure Upgrade and 4kV-12kV overhead electrical conversion.
- Area 52, 12kV Substation, Electrical Infrastructure Upgrade and 4kV-12kV overhead electrical conversion.
- Gooseneck 12kV Power Line Upgrade.
- Area 14 BEQ Complex and Electrical Infrastructure Upgrade.

- CNATT Training Complex and Electrical Infrastructure Upgrade.
- O'Neil Housing and Electrical Infrastructure Upgrade.
- P-1086 Recruit Field Barracks, Electrical Infrastructure Upgrade and PV system.
- P-104 Maintenance Facility and Electrical Infrastructure Upgrade.
- P-1109 BEQ Complex and Electrical Infrastructure Upgrade.
- P-1113 BEQ Complex and Electrical Infrastructure Upgrade.
- Overhead Power Repairs – multiple circuits.

Other bases:

- Electrical Infrastructure Upgrade in Marine Corps Recruit Depot (MCRD) – San Diego, CA
- P-710 12kV Electrical Infrastructure Upgrade – Twentynine Palms, CA
- Electrical Infrastructure Upgrade at Adobe Flats Housing – Twentynine Palms, CA
- Electrical Infrastructure Upgrade FY09 BEQs program – Camp LeJeune, NC
- P-207 Aircraft Hangars and Electrical Infrastructure Upgrade – NAS El Centro, CA
- FY04 Housing, Electrical Infrastructure Upgrade – Dyess AFB, Texas
- FY05, FY06, FY07 Housing, Electrical Infrastructure Upgrade – Ft. Sill, OK
- Electrical Infrastructure Upgrade at Lanham and Slocum Villages – Cherry Point, NC
- FY06 Housing, Electrical Infrastructure Upgrade – Ft. Knox, KT
- Travis AFB Electrical Infrastructure Upgrade – CA
- NSAM Monterey Electrical Infrastructure Upgrade – CA
- ABL Facilities and Electrical Infrastructure Upgrade - Edwards AFB, CA
- Ft Hunter Liggett Electrical Infrastructure Upgrade – CA
- KC-46A Depot Maintenance Dock and Electrical Infrastructure Upgrade - Tinker AFB, OK
- Combined Test Force Compound and Electrical Infrastructure Upgrade - Edwards AFB
- P790V Miramar Brig and Electrical Infrastructure Upgrade, Miramar NAS, CA
- Red Horse OPS Facility and Electrical Infrastructure Upgrade, Andersen AFB, Guam
- F414 Jet Engine Facility and Electrical Infrastructure Upgrade - Lemoore NAS, CA
- P-545 Aircraft Maintenance Hangars and Electrical Infrastructure Upgrade - MCAS Yuma
- TEMF Complex and Electrical Infrastructure Upgrade - Ft. Sill, OK
- Wallace Creek BEQ Complex and Electrical Infrastructure Upgrade - Camp LeJeune, NC
- P-1253 Combat Operation Complex and Electrical Infrastructure Upgrade - Camp Lejeune, NC
- Air Defense Artillery Training Complex and Electrical Infrastructure Upgrade – Ft. Sill, OK
- Courthouse Bay BEQs and Electrical Infrastructure Upgrade – MCB Camp LeJeune, NC
- P-136 BEQ Complex and Electrical Infrastructure Upgrade – MCAS Cherry Point, NC
- TEMF Complex and Electrical Infrastructure Upgrade – Ft. Hunter Liggett, CA
- JFET Training Complex and Electrical Infrastructure Upgrade - Fort Sill, OK
- C-17 Two Bay Hangar and Electrical Infrastructure Upgrade - Travis AFB, CA
- Combat Headquarters P-998 and Electrical Infrastructure Upgrade - Twentynine Palms

- Marine Palms housing and Electrical Infrastructure Upgrade - Twentynine Palms, CA
- Dining Facility P-556 and Electrical Infrastructure Upgrade - Twentynine Palms, CA
- P-605 BEQ Complex and Electrical Infrastructure Upgrade, Twentynine Palms, CA
- P-623 BEQ Complex and Electrical Infrastructure Upgrade, Twentynine Palms, CA
- GMAC BEQ Complex and Electrical Infrastructure Upgrade - MCB Quantico, VA
- P-198 BEQ Complex and Electrical Infrastructure Upgrade- NPS Monterey, CA
- Hangar 810 and Electrical Infrastructure Upgrade - Travis AFB, CA
- B-3230 Dental Clinic and Electrical Infrastructure Upgrade - Coronado, CA

Photo Voltaic (PV) Projects

- **11.2 MW** on roofs, carports, and ground - Palm Spring USD, Palm Spring, CA
- **9.4 MW PV** on roofs, carports, and ground - Morongo USD, Morongo, CA
- **9.7 MW** on roofs, carports, and ground - Tustin USD, Tustin, CA
- **6MW** on roofs, carports, and ground P1400 Marine Corps Energy Initiative - Camp LeJeune
- **2.5MW** Marine Corps Recruit Barracks Complex Energy Enhancement System - San Diego
- **2MW** Solar PV Rooftop Power Systems, Marine Corps Air Station - Yuma, AZ
- **1.6MW** P1017C Marine Corps Energy Initiative, French Creek - Camp LeJeune, NC
- **1.3 MW** PV Concentrators – MCAS Miramar, San Diego, CA
- **1MW** P400 Marine Corps Energy Initiative, Marine Corps Recruit Barracks - San Diego, CA
- **1MW** P1251 Courthouse Bay BEQs - Camp LeJeune, NC
- **1MW** Wallace Creek BEQs - Camp LeJeune, NC
- **1MW** TGU Apartment PV - Santa Ana, CA
- **1MW** P1142C Marine Corps Energy Initiative - Courthouse Bay, Camp LeJeune, NC
- **1.2MW** P1104C, P1193C Marine Corps Energy Initiative, Hadnot Point- Camp LeJeune, NC
- **600kW** Alpine USD PV - Alpine, CA
- **189kW** P294 Marine Corps Recruit Barracks PV System - San Diego, CA
- **600kW** P1069 School of Infantry - Camp Pendleton, CA
- **140kW** P293 Marine Corps Recruit Barracks PV System - San Diego, CA
- **140kW** P316 Marine Corps Recruit Barracks PV System - San Diego, CA
- **600kW** P1101D Marine Corps Energy Initiative - Camp LeJeune, NC
- **500kW** P1016D Marine Corps Energy Initiative - Camp Johnson, Camp LeJeune, NC
- **300kW** P1086 Recruit Field Barracks - Camp Pendleton, CA
- **400kW** CNATT Aviation Training Facility - Camp Pendleton, CA
- **600kW** Kaiser Permanente Medical Center - Cudahy, CA
- **500kW** Kaiser Permanente Medical Center - Whittier, CA
- **200kW** Berth Lima Conversion Solar PV System - NASNI, Coronado, CA
- **100kW** Irvine Unified School District PV Systems - Irvine, CA
- **100kW** P1330D Marine Corps Energy Initiative - Wounded Knee, Camp LeJeune, NC
- **500kW** P1378D Marine Corps Energy Initiative - Wounded Knee, Camp LeJeune, NC