

Energy & Construction Company Ltd is an associate branch of AYA Contracting and is incorporated as a Civil and Mechanical Construction Company in 2008.

The Company is Engaged in the field of building Industrial infrastructures i.e. Industrial shed. R.C.C. Building, Tanks, Residential compounds, Labour camps, Office building, Lab construction, Electric Sub-Power Station, Industrial Road a developments.

Energy Construction maintains a staff of skilled architects, engineers, project managers and construction professionals with extensive experience in the design and planning of highly specialized structures including remote military bases, private and government office facilities, and the utilities and services required for complete operation of these facilities.

Office and Residential Facilities

Energy & Construction also specializes in the design and construction of office buildings and residential facilities. Our design and construction teams adhere to the same rigorous standards used to ensure the quality and security of military bases while also paying careful attention to local design codes and architectural styles as well as the day-to-day functionality of these facilities

Architectural Services:

Energy & Construction proven record of excellent worldwide performance of fast-track turnkey design-build projects is a testament to the capabilities of the company's architect-engineering team. Strictly adhering to the principles of form, function and quality, Energy & Construction projects are designed to meet or exceed project requirements while also providing long-term durability in an aesthetically pleasing and cost-effective package.

Landscape Design:

Landscape designs for all Energy & Construction projects are created with maintainability and sustainability in mind. Based on the project's location, uses and aesthetic aims, Energy & Construction works with the customer to beautify the project site within budget and in keeping with local environmental factors. Soil conditions, local growth patterns, native plants and trees, cost of maintenance, and other factors are taken into consideration.

Civil Engineering:

Energy & Construction design-build projects are developed with the help of our team of civil engineers to ensure the proper design and construction of all civil works such as service roads, sewage and storm drainage collection and pipeline systems, and earthworks associated with building site preparation. Energy & Construction engineers utilize site survey analyses and state-of-the art drafting technology. Civil Engineering: Energy & Construction design-build projects are developed with the help of our team of civil engineers to ensure the proper design and construction of all civil works such as service roads, sewage and storm drainage collection and pipeline systems, and earthworks associated with building site preparation. Energy & Construction engineers utilize site survey analyses and state-of-the art drafting technologies to ensure the quality of all civil works.

Structural Engineering:

Energy & Construction structural engineering team conducts detailed foundation and structural 3-D modeling studies of all proposed project designs to predict the impacts of natural forces such as wind and earthquakes as well as dead and live loads. All designs are in accordance with IBC, UBC, AISC, ACI 318, ASTM, and other widely accepted standards with careful analysis of drawings and computer models before designs are approved.

Mechanical Engineering:

Virtually every Energy & Construction project includes mechanical design components. Our facilities have included hangar door operating systems, hangars equipped with overhead cranes, fuel storage and distribution systems, and numerous filtration and pumping systems. Energy & Construction's engineers have also designed highly intricate structures such as a custom radar tower for the U.S. Military and including a mechanical tower crane.

Electrical Engineering:

Energy & Construction engineers utilize their extensive experience and sophisticated computer engineering technologies to design electrical systems for single buildings and entire military compounds. CCE's electrical engineers review load calculations, electrical panel schedules, material requirements and specifications, and the behavior properties of all components to create 3-D models for analysis and review before final design approval.

Infrastructure



Reverse osmosis desalination plant (8 530 m³/day / 15 units)



Reverse osmosis desalination plant (HUIS TEN BOSCH, 500 m³/day / 2 units)