
AMH
ENGINEERING

ENGINEERING SERVICES

'We are fully committed team with a multi-disciplinary experience and provides bespoke approach. Our consultancy team has over 15 years of project experience in various disciplines such as LEED Consulting, Project Management, Compliance, Business Development and Commissioning Agency. We are equipped with the best team to drive our clients' projects and deliver the right results.

Our team and network of LEED accredited professionals and BIM have backgrounds in design, construction, commissioning provider, property management and real estate. We can also help with the following services.

Project Management Consultant | Engineering Design Services | LEED Consultant

Independent Inspection Services | Feasibility Study Assessment | Project Assessment Services

Testing & Commissioning Services | Retro Commissioning Services | Energy Modelling

Sustainable Design | Bespoke

Our experiences from prominent projects such as KAPSARC, Hawiyah, Qhurais made us what we are today, and we thrive to pursue more excellence.

Address: **Phone:** **Email:**

Project Management Consultant

Project management solutions for the customer including the plans, projects and functional perspectives.

- Manage projects and related specific activities within given constraints of time, financial plan, and quality.
- Ensure scope, schedule and costs are satisfactorily achievable.
- Allocate work among team members and provide guidance regularly.
- Conduct periodic and post-project reviews to ensure project is on track.
- Coordinate functional perspectives from within and outside project teams.
- Ensure all project documentation is updated and conveyed to relevant stakeholders on time.
- Integrate self into client environment to effectively lead project team and positive professional relationships with clients and associates.
- Define objectives, requirements, and assumptions necessary to structure the project management.
- Plan, schedule, and control activities to fulfill identified objectives applying technical, theoretical, and managerial skills to satisfy project requirements.
- Enforce and develop integrated development plan representing appropriate level of detail.
- Develop task interdependency and project tactics with overall project strategy.
- Establish and maintain high performing team and serve as project advocate within organization.
- Consult and lead efforts of individual, team, client and other resources associated with project activity.

Address: **Phone:** **Email:**

Engineering Design Services

Conceptual engineering solutions for the customer including extended basic engineering, detailed engineering, engineering design, etc.

- The deliverables are a unique combination of detailed engineering excellence and expertise to clients. This unique combination offers a technological edge to organizations in various sectors of the construction industry. Supporting these systems is a range of advanced design tools and documentation programs.
- Providing Feasibility Studies to establish the feasibility of projects with respect to technical soundness, operational flexibility, and economic viability. We recognize the importance of possessing the required multi-discipline expertise to undertake such activities for grass-root projects as well as the revamping of existing plants.
- The Basic Engineering services offered is consist of core documentation of projects, including process flow diagrams, heat & mass balances, P&ID, control & operational ideas, basic equipment sizing, equipment specifications and conceptual equipment layout, etc. We are well equipped with a large range of the latest industry standard design software tools for engineering calculations, computer aided design. Our design cell is also well versed with the latest hardware and techniques.

Address: **Phone:** **Email:**

LEED Consultant

Our team and network of LEED accredited professionals have backgrounds in design, construction, energy management, property management and real estate. We can help projects in achieving Leed Certification i.e. Certified/Silver/Gold/Platinum with technical assessments and professional consulting's.

LEED (**Leadership in Energy and Environmental Design**) is an internationally recognized Green Building Rating System is widely used around the world and the Certification is now used practically for the commercial or residential projects for sustainable operations and maintenance enhancements.

- Providing the LEED certification system that measures how well a building or community performs across all the metrics that matter most: energy savings, water efficiency, CO2 emissions reduction, improved indoor environmental quality, and stewardship of resources and sensitivity to their impacts. Developed by the U.S. Green Building Council (USGBC), LEED provides building owners and operators a concise framework for identifying and implementing practical and measurable green building design, construction, operations, and maintenance solutions.
- LEED is a flexible system – not a one-size-fits-all approach. LEED not only applies to different building types (commercial vs. residential), but also beyond the building footprint. Because of this flexibility, there are different versions of LEED depending on the project type.

Address: **Phone:** **Email:**

There are rating systems that address multiple project types.

- Building Design + Construction (BD+C) applies to buildings that are being newly constructed or going through a major renovation.
- Interior Design + Construction (ID+C) applies to projects that are a complete interior fit-out
- Building Operations + Maintenance (O+M) applies to existing buildings that are undergoing improvement work or little to no construction.
- Neighborhood Development (ND) applies to new land development projects or redevelopment projects containing residential uses, nonresidential uses, or a mix. Projects can be at any stage of the development process, from conceptual planning to construction.

BIM Consultant

Our team of specialized Building Information Modelers (BIM Specialists) focuses on the technology with an intelligent, 3D model-based tool that provides a digital representation of a facility's physical and functional aspects. Our BIM specialists target to minimize high costs, slow and delayed deliverables and gaps between interface communications across different disciplines within a project.

We partake in Four (4) Phases of BIM implementation as deemed required by our client:

- Evaluation / Assessment
- Preparation for the Transition / Project Pre-Planning
- Execution of the Plan / Design and Construction
- Operations and Maintenance through Experience and Expertise

Address: **Phone:** **Email:**

Independent Inspection Services

Provide the Independent Engineer with technical expertise to ensure the successful completion of project. The Report is for the client with a review of the proposed project's contractual documents and an evaluation of the technical design to verify compliance and ability to meet contractual obligations.

Contracts & Technical Documentation Review:

- Review of 3rd Party technical reports
- Engineering review of electrical, structural, civil, and interconnection designs
- Evaluation of equipment providers and purchase orders
- Power Purchase Agreement (PPA)
- Engineering Procurement & Construction Agreement (EPC)
- Operations and Maintenance Agreement (O&M)
- Utility Interconnection review
- Site lease or access agreement
- Review of financial and technical assumptions
- Site suitability evaluation (access, topography, near & far shading)
- Governmental regulations including code compliance, zoning approvals, and building permits
- Commissioning, reports based on timing and client requirements.
- IE "Report Components" with combination of both due diligence and construction risk management services and can vary based on the needs of the client.
- A Document and Cost Review to conduct a budget review and construction schedule analysis.
- A Contractor Evaluation to assess the qualifications and capabilities of the General Contractor to complete the project.
- IE reports for banks, developers, owners, and tax equity providers.

Address: **Phone:** **Email:**

- Site suitability evaluation (access, topography, near & far shading).
- Governmental regulations including code compliance, zoning approvals, and building permits.
- Commissioning, reports based on timing and client requirements.
- IE “Report Components” with combination of both due diligence and construction risk management services and can vary based on the needs of the client.
- A Document and Cost Review to conduct a budget review and construction schedule analysis.
- A Contractor Evaluation to assess the qualifications and capabilities of the General Contractor to complete the project.
- IE reports for banks, developers, owners, and tax equity providers.

Feasibility Study Assessment

This study is a smaller version of a full-scale evaluation study. It is important to check in advance if the evaluation you have designed will work, which may mean carrying out a feasibility study.

- Assessment by team of professional auditors or individual specialist
- Documentation management
- Licenses and certifications
- Insurance policies
- Network drawings
- Analyze third-party risk management program.
- Identifying potential risks associated with 3rd party vendors.
- Classifying partnerships according to their access to the systems, networks, and data.
- Reviewing service level agreements (SLAs) to assure that vendors are performing their hired tasks.
- Determining compliance requirements for the organization to clearly outline what regulations and standards you and external partners must satisfy.
- Assessing risk for individual vendors according to their importance to the organization, access to sensitive information, and access to your digital network.
- Questioning relationships with risk management questionnaires.
  Auditing decides on alliances according to their independent review. May include an on-site visit.
- Continuously monitoring changes in the environment to make sure all regulations and industry standards are upheld.

Address: **Phone:** **Email:**

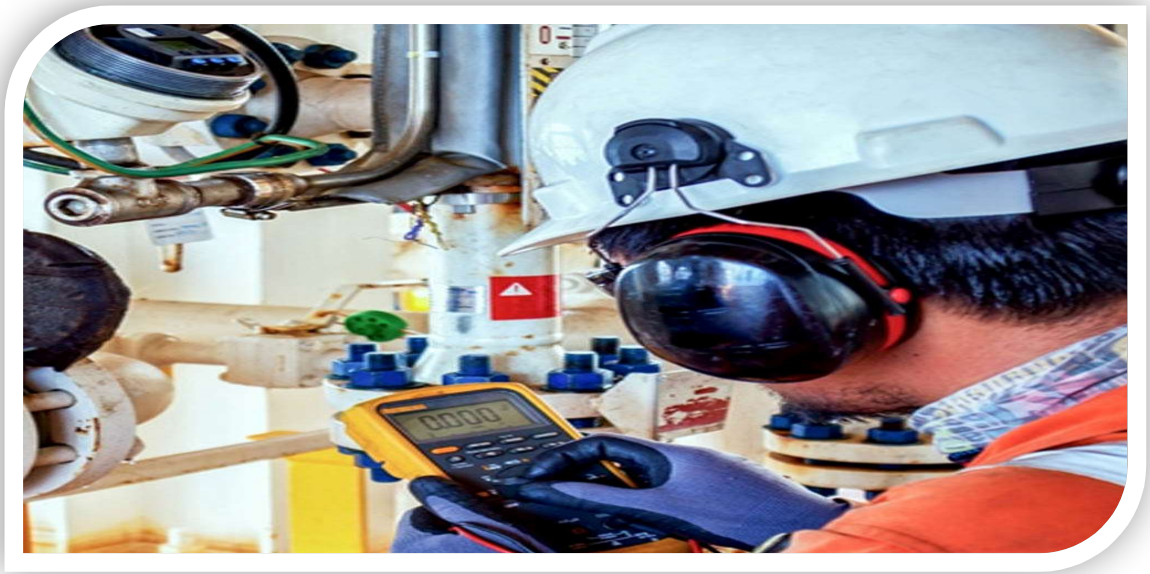
Project Assessment Services

Project Assessment with a systematic process for determining and addressing needs, or “gaps” between current conditions and desired conditions or “wants”.

- Assessment work is undertaken before program or project work begins; therefore, it is said to involve the project initiation phase.
- Assessments aren’t included as part of the scoping stage of a project.
- Recommend forming a team participating with different stakeholders and representatives to conduct a gap analysis as a starting point.
- Formal and thorough require assessment if have the resources and time.
- Perform a “Gap” Analysis
  Compare the performance of your organization/people against the existing and target situation.
- Form Team and Priorities & Importance.
- Prioritize those needs in view of their importance to your organizational goals, realities, and constraints.
- Integrate Prioritized Needs to Develop Business Case.

Address: **Phone:** **Email:**

Testing & Commissioning Services



Providing Testing and Commissioning Services with quality-oriented processes for achieving, verifying, and documenting that the performance of facilities, systems, and assemblies meets defined objectives and criteria.

- Providing the end -to-end process of Verifying and Validating the operation of the Products, the Subsystems, the Systems through a structured approach consistent with the System hierarchy.
- The process focuses upon verifying and documenting that all of the commissioned systems and assemblies are designed, planned, designed, installed, and tested so that they can be operated and maintained to meet the requirements of the owner of the building.
- Identifying the scope of the projects deliverables according with the develop plan.
- Developing Owners Project Requirements (OPR) & Current Facility Requirements (CFR).
- Conducting commissioning activities/training activities/warranty phase activities & handovers.
- Commissioning in compliance with International Building Code-(IBC)
- The American Society of Heating, Refrigerating and Air-Conditioning Engineers-(ASHRAE)
- National Environmental Balancing Bureau (NEBB)
- National Fire Protection Association-(NFPA)
- Standard for Commissioning of Fire Protection and Life Safety Systems
- National Air Duct Cleaners Association (NADCA)
- American Water Works Association-(AWWA)

Address: **Phone:** **Email:**

- Standard for Commissioning of Fire Protection and Life Safety Systems
- National Air Duct Cleaners Association (NADCA)
- American Water Works Association-(AWWA)

Retro Commissioning Services

This is a planned process of credentials that identifies low-cost operational improvements in the existing buildings relating to energy efficiency. It is a sort of building commissioning.

Providing the proper analysis of operating protocols, calibration and sequencing, cleaning and repairs, and training and documentation issues. The focus lies on mechanical equipment, lighting, and related controls to optimize performance as opposed to major equipment replacement.

- Clear objectives and assigned priority.
- Provide building information (description, square footage, HVAC, equipment, renovation)
- Trending capabilities of ECMs
- Updated building documentation
- Include a complete scope of work.
- Mention preferred data acquisition method.
- Indicate phase-wise expectations.
- Cost-saving calculations
- A list of required deliverables
- Cost range of the project

Address: **Phone:** **Email:**

Energy Modelling

This is a process of building computer models of energy systems to analyze them. Such models often employ scenario analysis to investigate different assumptions about the technical and economic conditions at play. Outputs may include the system. Energy models are usually intended to contribute variously to system operations, engineering design, or energy policy development. Energy modeling has increased in importance as the need for climate change mitigation has grown in importance.

- Technology innovation
- Business performance
- Energy & Non-Energy investment
- Labor market adjustment dynamics leading to economic restructuring
- Infrastructure deployment & urban planning
- Energy system operation
- Technology stock turnover

Address: **Phone:** **Email:**

Sustainable Design

This is the process of thoughtfully designing physical objects, (Ex. Equipment, Buildings, or Something Substantial to reduce negative impacts on the environment. Sustainable design is referred to as environmental design and environmentally conscious design. This design is intended to minimize negative environmental impacts and to promote the health and comfort of building occupants including, but not limited to, measures to reduce consumption of nonrenewable resources, minimize waste, and create healthy, productive environments.

- Conceptual problems
- Diminishing returns
- Unsustainable investment
- Negative Effects of Waste
- Climate change
- Loss of Biodiversity
- Sustainable design principles
- Economic and Social Sustainable Design
- Aspects of environmentally sustainable design
- Economic Aspects
- Standards of Evaluation
- Life Cycle Assessment and Product Life

Address: **Phone:** **Email:**

Bespoke

This is to have a smooth and pleasant experience with the customer. It is crucial to have efficient and thorough communication, to establish a connection between service provider & client. When receive the inquiry, will study the feasibility of the project and will respond with your thoughts.

- It will be designed exclusively for the customer.
- It will remain unique for the customer.
- Characteristically designed without any compromise according to the specifications.