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M.A.H.Y. KHOORY & CO. LLC

Creative Solutions
Green Building Consultant

High Performance Building

Energy Modeling & Simulation

Building Commissioning

Energy Audit

Green Building Consultancy



Background

Creative Solutions, M.A.H.Y Khoory is a leading sustainable services consultant in UAE for providing Green Building Consulting, Building Commissioning, High Performance Design, Energy Modeling and Simulation and Energy Audit. We are pre-qualified, recognized and approved by local and regional government regulatory authorities, master developers and international organizations.

Green Building Consulting

We help developers, owners and consultants successfully integrate sustainable principles into their projects. This includes Green Building certification facilitation services (LEED). Our technical team has a number of qualified Green Building Professionals with extensive experience in Middle East in design and execution of Green Building Projects. The focal point of our Services is that our Specialists work on Value Engineering for implementing the green solutions. Our services include:

- Green Building Feasibility Study
- Green Building Registration
- Green Building Documentation
- Green Building Certification

Benefits of Green Building

Environmental Benefits

- Enhances and protects the eco-systems and Bio-diversity
- Improves air and water quality
- Conserves natural resources



Economic Benefits

- Conserves energy and water
- Reduces operating costs
- Enhances asset value and profits
- Optimizes life-cycle economic performance

Health & Community Benefits

- Improved air, thermal and acoustic environments
- Enhanced occupant comfort and health
- Less strain on local infrastructure
- Reduced greenhouse gas emissions
- Improved quality of life

Building Commissioning

Commissioning is a systematic process of ensuring that all systems and components of a building or industrial plant are designed, installed, tested, operated and maintained according to precise Owner's Project Requirements, with due importance given to the efficient operation of the systems. Creative Solutions has extensive experience in Green Building Certification Commissioning for New Construction as well as for Existing Buildings.

Existing Building Commissioning

We have a systematic investigation process for improving and optimizing an existing building's O & M as detailed below:



- Review and verify as-built drawings relating to the systems
- Conduct site audits to analyze systems operation
- Develop a Retro-Commissioning Plan customized to the project requirements
- Analyze and recommend cost-feasible options to implement energy saving measures



Compile and submit relevant documents to earn certification credits or points

New Building Commissioning

Efficient commissioning methods can substantially improve a building's design, construction/installation and operational procedures and practices. Additionally, efficient commissioning measures reduce operating costs, enhance the building's marketability, increase worker productivity and limit the potential health risks associated with indoor air quality problems.



For New Construction projects, Creative Solutions adopts project-specific commissioning procedures as per the following phases of project implementation.



LEED Prerequisites & Enhanced Commissioning



USGBC LEED Fundamental Commissioning to fulfill the pre-requisites



Building Commissioning as a value addition to guarantee operating efficiency



Building operations analysis



Measurement and Verification



Commissioning Plans and Reports



Design Peer Review for Equipment Maintenance & Serviceability

- Contract Document Review
- Construction Submittal Review
- Installation Verification
- Pre-Functional & Functional Testing
- Operational Performance Testing
- Integrated Systems Testing
- Major Equipment Start-Up Observation & Review
- Equipment Performance Warranty Review
- O&M Personnel Training
- Post Acceptance Activities
- Retro-Commissioning

High-Performance Building



High-Performance Building

Creative Solutions team has the expertise of how HVAC&R design is integrated into high performing buildings to achieve the overall goal of producing a sustainable HVAC&R design. This will ensure that capital budgeting design and construction practices result in investments that make economic sense and environmental sense.

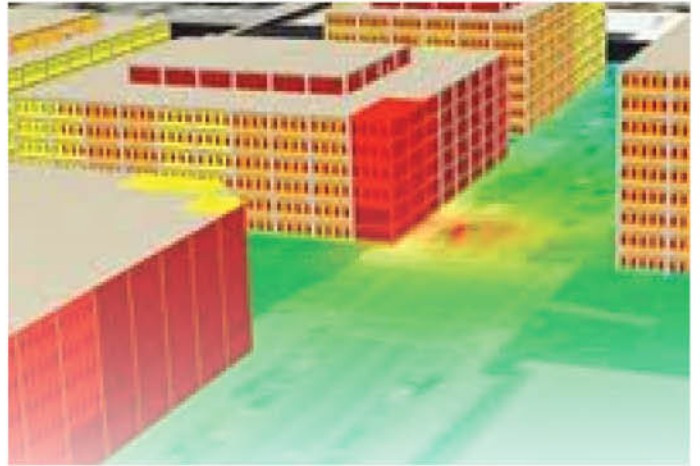


Energy Performance Contracting

Creative Solutions conducts a comprehensive energy auditing in buildings / facilities including HVAC systems, Pumping Systems and lighting to find out the energy consumption pattern, methods to improve efficiency and recommends the exact remedial measures to save energy and cost. Our energy audits are designed to save your money. Energy audits are backed by guaranteed returns and carried out by experienced energy specialists.

Energy Management

- Orientation studies, fenestration analysis, wall and roof assembly optimization, HVAC, electrical and lighting analysis.
- Optimize Building Performance
- Daylight modeling



Energy Management



Creative Solutions
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