

## **Manager, Technical & Energy Management**

**11+ years of Sustainability, Energy & Facilities Management and HSE experience with a commitment to improve efficiency, reliability and continuous improvement through progressive management.**

### **SUMMARY**

Seasoned sustainability, energy, and facilities management professional with a strong business acumen. A confident leader with ability to lead cross functional teams and integrate innovation into business practices. Having an accelerated track record to achieve business outcomes for the organizations through productivity improvement and fit for purpose solutions to enhance and improve system effectiveness and efficiency.

### **TECHNICAL/ ENERGY AUDITS & ESCO PROJECTS**

- Torch Tower Energy Performance Contract
- Aga Khan University ESCO projects with AFD
- ENS Schools ESCO project
- City Walk sites (Retail, Residential, L&E and Master Community) energy audit
- City Premiere Hotel Energy audit
- Ramada Plaza JBR Energy Audit
- Hilton JBR & The Walk Energy Audit
- Al Manzil School Sharjah Energy audit
- EMAAR Business Park Energy Audit
- Silicon Gates 1, 2, 3 and 4 energy audit & ESCO project

### **AREAS OF EXPERTISE**

- Sustainability
- Energy Audits
- Health, Safety & Environment
- Regulatory Compliance & Audits
- Project Management
- Facilities Management
- Energy Management
- Waste Management

### **PROFESSIONAL EXPERIENCE**

#### **Manager (Technical Services & Energy Management)**

May 2019 – Till Date

**Emrill Services LLC, UAE**

#### **Key Outcome Areas**

- Providing technical support to the operation team in their routine
- Technical Assessment of onboarding staff on different projects
- Providing technical input in commercial part of the tenders
- Conduct audits of the facilities
- Manage Training & Development of the staff
- Energy Performance Contracts

#### **Projects Completed**

- BTU metering and billing system for Kingfield Owner Association
- EPC Projects (Onyx Tower, Torch Tower)
- Indoor Air Quality Improvement Project for Emaar Business Park Building 3 (Honeywell Building)

#### **Manager, Sustainability & Energy Management**

March 2016 – May 2019

**Farnek Services LLC, Consulting Services Dubai, UAE**

#### **Key Accounts Handled**

- City Walk Residential
- City Walk Retail
- Dubai Fountain
- Dubai Airports
- MBR Space Center
- City Walk (Leisure & Entertainment)

## **Achievements**

- Developed and implemented *Energy Management, Environmental Management and Utilities Management Plans* for City Walk, Dubai Fountain.
- Developed Energy Criticality Code for Energy Critical Assets in City Walk Retails, Residential and L&E.
- Conducted ASHRAE Level I, II & III energy audits for City Walk Retails and Residential Facilities.
- Conducted trainings for FM staff to create awareness on critical issues and improve energy performance through BMS tracking.
- Conducted the performance assessment of HVAC System of Residential, City Walk to compare against the ASHRAE and CIBSE guide-F standards.
- Achieved 32% savings in water and 15% in electrical consumption.
- Developed daily, weekly and monthly reporting dashboard for energy in multiple facilities at City Walk.
- Audited FM practices to improve energy performance by optimizing the frequencies and setting up strategies for improved performance.
- Developed and implemented strategies to improve waste diversion rate from 2.6% to 15% in Retail Asset.

## **Responsibilities**

- Conducted energy audits, developed ESCO proposals for Etihad ESCO projects.
- Sustainability Management (Energy, Environment and Waste Management) at City Walk project
- Strong coordination between Clients (Corporate & Site Teams), Farnek teams, Sub contractors etc.
- Energy projects feasibility studies, planning and execution
- Development & implementation of Process Flows, Technical Guidelines, SOPs
- ROI, Life Cycle Costing, Budgeting for energy projects, Risk Factors
- Energy Auditing, Utilities consumption & cost data analysis, benchmarking
- Trainings on Sustainability, Energy, Environmental Management, ISO 50001, Waste Management, Recycling Improvement, Health & Safety Issues, SOPs.

## **Assistant Manager (Energy & Facilities Management)**

Dec 2011 – Mar 2016

**Facilities Management Division, The Aga Khan University, Karachi, Pakistan**

## **Achievements;**

1. Established of Energy Management Portal for community engagement and showcase achievements.
2. Developed Facilities Management Staff Health & Safety Handbook for AKHSP.
3. Developed feasibility studies, project management plan for AFD (<http://www.afd.fr>) funded projects.
4. Implemented Low cost and Operation/ Process Improvement projects to achieve 1.3 Million Gallons of Water and 1.9 Million Kilo Watt Hours of Electricity.
5. Implemented Inspection Module for Reliability Centered Maintenance in CMMS.
6. Represented Facilities Management Division in ISO 9001, OHSAS 18001, ISO 14001, JCI and CAP audits and passed all audits during my tenure with minor.
7. Implemented IFC (World Bank) Environmental Monitoring standard in Utilities environmental performance monitoring.
8. Provided technical assistance to AKDN for selection and execution of Solar Electrification Project for 10 Nos. of school at Northern areas (Khaplu, Gulmit, Hunza, Singal – Ghizar, Ghance etc.)

## **Responsibilities;**

- CMMS (Infor EAM) application for Reliability Centered Maintenance using inspection module on critical equipment.
- Operations of the chillers, boilers, heat exchangers installed in Plant Room and ensure the reliability of the utilities infrastructure.
- Monthly reporting and billing internally to the various departments for chilled water, electrical and domestic water

consumption.

- Utilities Operations and Facilities Management
- Energy Projects Feasibility Analysis, Planning and Execution
- Implementation of energy projects in line with the donor requirements and fulfilling the IPMVP protocol.
- Trainings & Safety Coordinator for Facilities Management Division (FMD)
- Environmental management and monitoring to ensure compliance with IFC, EPA guidelines.

**Mechanical Engineer (Utilities Master Planning, UMP)**

May 2012 – Jan 2013

**Facilities Management Division, The Aga Khan University, Karachi, Pakistan**

**Responsibilities;**

- Development of feasibility studies for Utilities Master Planning projects (New Incinerator, WHRB & Chiller etc.). EPC projects for campus expansion in UMP Phase I and Phase II.
- Project management and reporting to the management and funding agencies on funds utilization & deliverables.

**Team Leader Energy Projects**

Nov 2009 – Dec 2011

**Arch Associates, Karachi, Pakistan**

**Key Result Areas;**

- Energy & Environmental Audits of 30 facilities including commercial buildings, health care and hospitality industry and textile and automation industries in Pakistan.
- Implementation of Energy Management & Information System based on ISO 50001 guidelines in partnership with GIZ (German Technical Corporation).
- Implementation of energy reporting for post audit and post implementation impact assessment.
- Developed course material for Energy Managers Training for GIZ, which conducted by Arch Associates & HIKE Energy Centre in collaboration with SMEDA, GIZ and APTMA.
- Establish and track KPIs for industries and provide awareness to them maintaining KPIs up to the targets.
- Establishment of energy teams, training them on energy auditing principles and tracking & maintaining performance.
- Conducted Energy Auditing Training for Government of Punjab (Electrical Inspectors) in collaboration GIZ (German Technical Corporation).

**EDUCATION & PROFESSIONAL DEVELOPMENT**

- *M.S Mechanical (Thermo Fluids Engineering)* – NUST Karachi, Pakistan
- *B.E Mechanical* – Mehran University of Engineering & Technology, Jamshoro, Pakistan 2009/ 10
- *Certified Facility Manager (CFM)* – Chicago Management Institute Dubai, UAE - 2019
- *Certified Energy Manager (CEM)* – Association of Energy Engineers, US - 2018
- *Certified Measurement & Verification Professional CMVP® Certification* – Association of Energy Engineers, US 2020
- *Energy Modeling Software (IES VE)* – British University in Dubai - 2017
- *E-Quest Energy Modeling Software* – ECR Institute Delhi, India
- *Leadership in Energy & Environmental Design (LEED) Workshop* – British University in Dubai - 2015
- *Lead Auditor ISO 50001 (Energy Management System)* – IRCA Certified, UK (from SGS) - 2012
- *Lead Auditor ISO 9001 (Quality Management System)* – IRCA Certified, UK (from SGS) - 2015
- *IOSH Managing Safely (UK Certified)* – IOSH (Institute of Occupational Safety and Health, UK) - 2016
- *Project Management Professional (PMP) Course* – The Aga Khan University, Karachi - 2014
- *RET Screen International (Clean Energy Project Analysis Tool)* – NED University Karachi – 2014

## **AWARDS & APPRECIATIONS**

- From CEO, The Aga Khan University on Cost Saving through Energy Efficiency & Conservation.
- From All Pakistan Textile Mills Associations (APTMA) for technical assistance in Development of Energy Management System at Textile Mills funded by GIZ (German Technical Corporation).

## **MEMBERSHIPS & AFFILIATIONS**

- “Associate Member” ASHRAE (American Society for Heating, Ventilation and Air Conditioning) - 2019
- “Member International” Association of Engineers U.S. - 2017
- “Member” The Institution of Engineering & Technology, UK - 2017

## **REFERENCE**

- *Will be furnished upon request*