Moustafa M. Almansour

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A dedicated renewable energy engineer and enthusiast with experience in formulating innovative ways to provide energy efficiency, clean energy and energy modelling. Devoted to continuously develop and add to the renewable sector by regularly keeping up with new global trends and knowledge and implementing them at work as well as leveraging on personal knowledge of programming tools, data analytics and new technological models.

Academic Profile

- Master of Business Administration, University of Wollongong, Dubai, UAE; 2020-expected to graduate 2022
- Bachelor's Degree of Sustainable and Renewable Energy Engineering, University of Sharjah, UAE 2012-2017

Career Summary

Oct 2017 – Oct 2019 Ministry of Energy and Infrastructure of UAE (MOEI)
Electrical Engineer, Electricity and Power Trading Department;

Responsible for various roles in the following departments' projects:

National Demand Side Management (DSM) Project (Developing a UAE national demand program with a target of 40% reduction in energy consumption and 50% reduction in water consumption versus business as usual by 2050)

- Participated in the collaboration with municipalities and utilities across the emirates through holding one-on-one meetings and workshops to cover the four main pillars of focus (agriculture, industry, built environment, and transport).
- Reviewed existing implementation of DSM programs in conjunction with analysis of the water and energy consumption patterns and global best practices.

Project Synergy (UAE power/water sector optimization and restructuring study)

- Participated in Project Synergy: aimed to improve demand forecasting; capacity planning and dispatch; system reliability; and cross-border trade in UAE power and water sector through a new sector-operating model which could be either coordinated planning and dispatch or wholesale electricity market. The scenario based analysis required modelling of entire UAE power and water sector in PLEXOS and PSSE. The project triggered the restructuring of Abu Dhabi power sector in 2018 as well as numerous follow-up studies.

National Green Building Code (aims to improve the performance of buildings in the UAE by reducing the consumption of energy, water, and resources as well as raising the efficiency of new buildings and contributing to achieving the expected savings in DSM after implementing the regulations)

- Participated in structuring the National Green building code Policy by addressing the challenges for some localities that don't fall under any sustainability systems then proposing local benchmarks for buildings and creating a unified approach towards energy and water efficiency standards on a national level.

Loss reduction Initiative

- Participated in the study by identifying the UAE challenges on utility level towards possible electrical loss reduction in transmission and distribution networks within the UAE and benchmarking possible global best approaches.

ATMATA (web-based centralized database for federal energy statistics, facilitating data collection and monitoring/ tracking of all the activities within the ministry and the stakeholders).

- ATMATA Admin
- Structuring and updating of datasets and templates
- Focal point of the ministry of energy with the UAE's four utilities; DOE, DEWA, SEWA, FEWA
- Lead on analysing all national data and reporting final required total energy balance values
- Responsible for national KPI calculations (SAIDI, SAIFI)
- Participated in creating a separate dataset on ATMATA for the DSM project

Moreover in MOEI

- Conducted the awareness sessions based on the **ISO 50001 Energy management** and Studied the current situation, highlighted the gap analysis and the areas of improvement then followed up with the execution of the required corrective actions preparing for the accreditation's external audit.
- Participated in the **UAE National Smart Grid Policies** by benchmarking global best practices and designed the smart grid survey to obtain local normal practices and possible future plans to identify challenges on an emirate level.
- Contributed in **Shuaa solar calculator** UAE solar PV zoning study (based on levelized cost of energy) for solar deployment and raising awareness in UAE.
- Studied and reviewed the technical side of the **National Solar Grid Policy.**
- Investigated the data supplied by stakeholders for the **Annual Statistical Report** and reported the final data with suggested recommendations for the final approval before publishing.
- Reviewed and edited the MOEI **Annual State of Energy Report**.
- Researched and reported the 8 annexes of **International smart grid action network (ISGAN)** and was the ministry's focal point with ISGAN.

Internship

Feb 2017 – Aug 2017 Ministry of Energy and Infrastructure of UAE (MOEI)

1. Electricity and Power Trading Department (June 2017 – Aug 2017)

- Participated in Project Synergy
- ATMATA stakeholder data analysing

2. Future energy Department (Apr 2017 – June 2017)

- Created a database for different specifications of wind turbines from 10 global companies and cross-referenced the data to provide the user with the best suitable wind turbine specifications (height, rated power, etc.) depending on geographical location within the UAE based on GIS analysis data.
- Researched existing and future clean renewable projects in the UAE.
- Updated the ministry's clean energy survey.
- Restructured and updated ATMATA templates and data sets.

3. DSM Department (Feb 2017 – Apr 2017)

- Conducted researches & raised the suggested recommendation to management in different areas such as:
  - ✓ ISO 50001 benefits and feasibility
  - ✓ Geothermal methods for electricity generation and reported its feasibility in the UAE
  - ✓ Global versus national energy consumption per capita
  - ✓ Preventative maintenance techniques
  - ✓ Global smart cities standards and reported comparisons to UAE's current level
  - ✓ Building retrofit tech

4. Other achievements

- Initiated and prototyped a mobile application to help energy and water consumers to decrease monthly consumption and raise public awareness; had been awarded in the MOEI Innovation competition.
- Designed a suitable incentive program (Energy Pulse) to encourage department offices within the MOEI to reduce electricity and water consumption
- Participated in Emirates research and development forum; innovation in energy and water sector
- Participated in RTA Safety Awards workshop
- Volunteered in preparing and distributing MOEI's Almeer Alramadani

Exhibitions, Summits and other Events

Representative of the Ministry Of Energy and Infrastructure in the following:

- Solar Middle East Summit (2017)
- Middle East Smart Lighting Design Summit (2017)
- World Energy Council "WEC" (2018, 2019)
- World Future Energy Summit "WFES" (2018, 2019)
- Water, Energy, Technology Environment Exhibition "WETEX" (2018, 2019)
- Middle East Electricity (2018, 2019)
- Abu Dhabi Sustainability Week (2019)
- Arab Future Cities Summit (2019)

Certifications & courses attended

- Certified Internal Auditor - ISO 50001
- Plexos Energy Modelling beginner training
- ICDL

Programming languages and tools

- C++
- PLEXOS
- MATLAB
- Python
- Kotlin

Additional information

- **Language Skills :** Native Arabic, Fluent English
- **Computer Skills :** Proficiency in MS Office & Effective literal use of information technology
- **Hobbies & Interests :** Swimming, Camping, Travelling, Snowboarding, Table tennis, Football