

Chapter 10

The Legal Framework for Renewable Energy and Water Management in the UAE: Analysis of Challenges and Opportunities

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ABSTRACT

This chapter aims to review the transformation witnessed by the energy sector in the United Arab Emirates, where energy sources focus on being affected by policy-related matters. The current framework of renewable energy projects is analyzed, focusing on its role in resource sustainability and investigating what damage it draws. The chapter will also shed light on issues related to the water management of resources in the Advanced Energy Technology Company. The chapter will analyze the commitment and legislation of experts and provide a comprehensive assessment of the future challenges and opportunities facing the country in this field, to achieve an effective balance between meeting energy needs and keeping track of water resources in general.

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INTRODUCTION

Over the past few years, the United Arab Emirates has demonstrated a noteworthy commitment to renewable energy. This is made evident by the implementation of various initiatives, including the UAE Energy Strategy 2050, Masdar's cutting-edge energy-efficient desalination pilot project, Dubai Integrated Energy Strategy 2030, Dubai Clean Energy Strategy 2050, and Ras Al Khaimah Energy Efficiency and Renewables Strategy 2040.

The Ministry of Energy and Infrastructure made an important announcement in 2022: it approved a federal law regulating the connection of renewable energy production units to the electrical grid. This law is designed to promote the use of diverse renewable energy sources and optimize the use of natural resources, with the goal of reducing emissions and achieving carbon neutrality.

This chapter's objective is to offer valuable insights into the UAE's policies and plans for renewable energy and water management and investigate potential future opportunities. I will explore the most recent initiatives pertaining to renewable energy and water management at both federal and state levels and subsequently analyze the potential outcomes.

The Importance of Study

The study is important because it aligns with international efforts to transition to sustainable and affordable renewable energy sources. Effective water management is crucial for the success of any state. It is necessary not only for the growth and development of agriculture but also for the well-being of the overall population. Therefore, it is imperative for us to prioritize water management and ensure that we have a sustainable and efficient system in place.

Study Problem

In this chapter, I will analyze the ability of UAE regulations, policies, and strategies to address and manage the demands of renewable energy and water management. The goal is to position the UAE as one of the leading states in this field.

Study Questions

Are the current laws and regulations sufficient to protect and promote environmental protection, increase the use of renewable energy, and manage water resources effectively?

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