

Abu Dhabi Department of Energy

Corporate Overview

An aerial photograph of a vast solar farm with rows of blue photovoltaic panels stretching towards a city skyline under a clear sky. The quote is overlaid in white text on the image.

“

We have to strike a balance of responsibility between our duty to update other sources of energy, protecting our environment, and ensuring a proper legacy for the next generations.

”

His Highness Sheikh Mohamed bin Zayed Al Nahyan
Crown Prince of Abu Dhabi and Deputy Supreme Commander
of the UAE Armed Forces



Towards a New Energy Era

Energy is the critical issue of our time. The search for cleaner, safer, more reliable sources of energy and efficient ways to use it has become a global challenge across countries all around the world.

Abu Dhabi has taken a leading role in the energy sector since the country has begun exporting oil in 1962. Now, with the urgency to expedite the shift to clean and renewable energy, the UAE capital has outlined its commitment to creating a new paradigm of energy sustainability in line with the UAE Energy Strategy 2050.

The Abu Dhabi Department of Energy (DoE) is driving the emirate's energy transition efforts with a clear focus on creating a sector that promotes economic growth and social development, ensures secure and affordable supply and promotes environmental sustainability.





Our Role



An Enabler of Abu Dhabi's Energy Transition

We were established in February 2018 as part of the energy sector reforms undertaken by the Government to support long-term national strategies for a sustainable future. A key aspect of the reforms was the separation of regulatory and service provision aspects which not only drives efficiency, governance and greater accountability in the sector but better position us as a modern, forward-looking entity, empowered to steer the transition towards a future energy system that enables economic growth, energy security and environmental sustainability.

As part of our mandate, we enact policies and regulations and develop strategies to ensure an effective energy transition that underpins Abu Dhabi's sustainable growth, all while protecting our consumers and minimising negative impact on our environment.

We recognise that economic growth and social development are intrinsically linked to energy production, supply and consumption. We also understand that energy transition has implications for businesses, policy development and consumer behaviour. Therefore, we made it our purpose to engage all our stakeholders, empower our industry partners and support our community by acting as an enabler of sustainable growth that creates value for business and society.

Our Vision

POWERING our Economy, SUSTAINING our People,
PROTECTING our Environment.

Our Mission

Ensuring reliable, safe and affordable
energy services, developing our people,
and harnessing technology to support our
economy, society and environment.



Our Actions Are Inspired by the Values We Hold

Our commitment to positioning Abu Dhabi at the forefront of the global drive towards energy efficiency, sustainable economic growth and environmental excellence inspires our core values.

Our Values

Transparency and Integrity

We embrace integrity and transparency by conducting business to the highest ethical and regulatory standards and building trust amongst our stakeholders, investors and consumer.

Prioritising people and knowledge-building

We foster a collaborative, inclusive working environment where our people can thrive, fulfil their career ambitions and nurture their talent.

Commitment to our country and community

We are committed to supporting our country's sustainable future and to ensuring our community's interest, public health, safety and well-being are appropriately integrated in our policymaking.

Outstanding performance

We have an empowering culture driven by teamwork and proactive leadership which motivates our people to pursue the absolute best results with accountability and flexibility.

Shaping Abu Dhabi's Energy Future

What We Do

We recognise that energy is central to economic growth, social development and quality of life. Therefore, we are securing the emirate's energy future by providing sound regulations, policies and strategies that address energy supply and demand issues and encourage investment and a prosperous energy sector.

Our responsibilities are focused on the following core functions:

Strategy Development

We design and develop the strategy for the energy sector to enhance Abu Dhabi's position on the global energy map, in line with the Abu Dhabi Vision and the UAE Energy Strategy 2050. Our ambitious strategic framework addresses supply and demand issues by focusing on security of energy supply through diversification of the energy mix and capitalising on clean and renewable sources; modernising the energy infrastructure with innovation; technology and financial efficiency; developing an efficient governance and regulatory framework for the sector; promoting energy efficiency and rationalisation of consumption; reducing environmental footprint of the energy value chain and protecting consumer rights.

Policymaking

One of our primary responsibilities is to develop and enact policies to regulate the energy sector in Abu Dhabi. We strive to introduce well-defined policies that support innovation, attract investment, and promote the use of cutting-edge technologies. These policies are complete with clear rules to monitor compliance and measure performance across the sector.

Licensing & Enacting regulations

Guided by UAE Law No. (2) of 1998 and Law No. (11) of 2018, we shape the regulatory framework for the energy sector in the Emirate of Abu Dhabi. We issue licences for companies and organisations operating in the sector and monitor their compliance with quality standards, which, in turn, supports the emirate's goals in ensuring the sustainability of energy sources.

Monitoring progress

Monitoring the energy sector's development through subsequent stages is a vital part of our role. It is a valuable tool for measuring the effectiveness of our plans and programmes for the sector, and for determining the potential to catalyse the comprehensive development of Abu Dhabi and the UAE.



Covering a host of Activities and Services

Guided by UAE Law No. (2) of 1998 and Law No. (11) of 2018, , our mandate incorporates overseeing a wide range of activities and services across the energy sector in Abu Dhabi, namely:

- Producing, processing, storing, transporting, distributing, supplying, buying, and selling oil and gas and their derivative products without prejudice to the Supreme Petroleum Council's mandate.
- Generating, storing, transporting, distributing, supplying, buying, and selling electricity.
- Producing, desalinating, processing, storing, transporting, distributing, supplying, buying, and selling water.
- Collecting, processing, and eliminating wastewater, in addition to recycling by-products from water treatment plants.
- Producing, storing, distributing, and supplying the cooling liquid used in district cooling services.





Championing Consumers' Interests

Our core belief is that all people deserve high quality services, a fair treatment and to be presented with efficient solutions to overcome their challenges. One of our key goals is to regulate and oversee the energy sector in Abu Dhabi, ensuring the services provided by licensed operating companies are of the highest quality and that our consumers enjoy secure, safe and affordable energy supply.

When we develop policies and regulations, we strive to protect the rights and interests of all energy consumers in Abu Dhabi - be they residential, commercial, industrial, or governmental.

To offer our consumers the lifestyle they deserve, we continue to work closely with the authorised distribution companies to ensure a fast, efficient and timely response to customer service needs. We also monitor their activities to ensure they meet their obligations to serve consumers, as outlined in Law No. (2) of 1998 and Law No. (11) of 2018.



Predicting Abu Dhabi's Future Transition Through Energy Modeling

The energy industry is going through a phase of unprecedented change driven by technology, digitalization, decarbonization, an aggressive uptake of renewables, rapid electrification of sectors beyond buildings, and new energy efficiency standards that will impact demand and supply levels. With this in mind, we recognise how critical it is for us to better understand how future scenarios will be shaped; hence, we developed the Abu Dhabi Integrated Energy Model – The Energy Cube in 2018.

Abu Dhabi's Integrated Energy Model

Abu Dhabi started to develop an integrated model for the entire energy system; capturing and collating the most up-to-date energy-related information from more than a dozen sector stakeholders. From this collaborative effort, the Abu Dhabi Integrated Energy Model, or 'Energy Cube', was born. The Energy Cube leverages this data to provide a comprehensive overview of the energy system today alongside perspectives for the future.

The Energy Cube has the unique capability to test the outcome of policy decisions on the energy system and broader economy. The tool spans 24 policy dimensions, reflecting key potential challenges facing Abu Dhabi's future system across the three demand segments (industry, transport and buildings) and three supply elements (gas, water and power). By combining options across these 24 policy elements, testing sensitivities, and measuring the performance against the four priorities for energy policies (Sustainability, Gas Security of Supply, Optimised System Costs, and Economic Development), the Energy Cube helps policy makers make informed decisions about how policies today can impact the energy system of the future.

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