



INSIGHT BRIEFINGS

ENERGY MARKETS OUTLOOK

Port of Fujairah



Port of Fujairah
United Arab Emirates

CHARTING THE COURSE

How Fujairah Can Become One of the World's Top Three Global Energy Hubs



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FROM PORT TO PLATFORM

Fujairah's destiny will not be defined by storage volumes or jetty counts alone but by its ability to evolve from a port into a platform—an integrated ecosystem where logistics, digitalization, energy transformation, and sustainability converge. The emirate's neutrality, geography, and institutional strength already provide a rare foundation. By executing these 20 priorities in concert—expanding capacity, deepening partnerships, embracing digitalization, and leading responsibly on climate—Fujairah can claim its rightful place among the world's top three global energy hubs.

Energy Transition to Energy Transformation: Fujairah's Roadmap to Become a Top-Three Global Energy Hub

Few ports in the world have rewritten their destiny as decisively as Fujairah. From a modest refueling stop on the Gulf of Oman to one of the world's leading oil-storage and bunkering hubs, Fujairah's rise has been nothing short of extraordinary. Yet the next decade will demand something far more ambitious than operational excellence. To reach the goal of becoming one of the world's top three global energy hubs, Fujairah must transition from being a port to becoming a platform—a fully integrated ecosystem that connects trade, industry, and technology across continents.

The foundation is solid. Through geopolitical shocks and shifting trade flows, Fujairah has proven its resilience. Its neutrality, strategic location, and reliable governance have safeguarded energy flows when others faltered. But resilience alone will not secure leadership. The next chapter requires transformation, anchored in infrastructure, innovation, and international collaboration.

Infrastructure Expansion and Industrial Evolution

Fujairah's immediate task is to expand its backbone. The planned completion of Jetty 10 and 11 by 2027, coupled with a 50 percent increase in commercial storage capacity, will ensure the port can handle rising throughput with minimal congestion. Faster turnaround, greater flexibility, and redundancy in capacity will protect Fujairah's reputation as the Gulf's most efficient liquids hub even in times of geopolitical stress.

Yet storage alone is no longer the defining measure of success. The next evolution must move up the value chain. By attracting refining, petrochemical, and topping-unit investors into the Fujairah Oil Industry Zone, the emirate can transform itself from a trans-shipment point into a regional energy-industrial complex. Such clusters would generate multiplier effects across trade, employment, and technology, embedding Fujairah deeper into the regional energy value chain.

This physical expansion must be guided by selectivity. Land in Fujairah is finite and precious. Every new project must

be evaluated not just by short-term commercial returns but by its ability to enhance the hub's strategic relevance. High-yield, synergistic projects—hydrogen terminals, carbon-capture clusters, or hybrid data-energy facilities—should take precedence over fragmented industrial sprawl. Smart allocation will determine whether Fujairah remains efficient or becomes congested.

To sustain momentum, partnerships will be critical. The port's collaboration with the Fujairah Oil Industry Zone and private terminal operators must evolve into a formalized governance model with shared digital systems, unified investment planning, and synchronized marketing strategies. Public-private integration will deliver the agility global investors now expect from world-class energy hubs.

Digital, Green, and Global Integration

No port can claim global status without mastering the digital and decarbonized age. Fujairah has already taken decisive steps by developing a Port Community System that connects customs, terminals, and agents through one digital interface. This initiative must be scaled into a full ecosystem—integrating real-time data, AI-driven scheduling, and predictive maintenance. The result: shorter waiting times, lower emissions, and higher profitability.

Digitalization also unlocks something more powerful—trust. Transparent, data-driven reporting of vessel movements, emissions, and turnaround times will elevate Fujairah's reputation for transparency. At a time when regulators and financiers demand accountability, this visibility will attract the world's leading energy and logistics firms seeking a compliant and efficient operating environment.

Balancing green ambition with commercial realism will be another defining test. The race toward new fuels—biofuel, ammonia, methanol, hydrogen—cannot be won by enthusiasm alone. Fujairah must sequence its entry carefully: scale up proven biofuel blending and LNG optimization first, monitor technology readiness, and only then commit capital to untested alternatives. Strategic timing will protect the hub from stranded assets while ensuring readiness for future markets.

Compliance and safety excellence will remain Fujairah's license to operate. The port must continue to lead on IMO standards, ESG reporting, and anti-shadow-fleet enforcement. As regulators tighten scrutiny of maritime practices, ports with clean reputations will become the preferred gateways for responsible global trade. Fujairah's record of neutrality and safety already distinguishes it; maintaining that integrity is non-negotiable.

At the global level, integration with the India–Middle East–Europe Economic Corridor (IMEC) offers Fujairah an unparalleled growth lever. As the corridor's natural maritime node, Fujairah can connect Asia's demand centers with Europe's industrial markets through seamless trade and energy flows. Aligning infrastructure planning with IMEC's logistics, digital, and energy corridors will position Fujairah as the East-of-Suez anchor of the new global supply chain.

This connectivity must extend southward too. Africa's two-billion-strong consumer base is the next great frontier. Fujairah's location gives it an unmatched opportunity to serve as the logistics bridge between Gulf producers and African importers. Developing feeder routes, bonded storage, and financing mechanisms for African trade will secure a powerful new demand base and cement Fujairah's role as the region's gateway to the continent.

Innovation, Human Capital, and Long-Term Resilience

If infrastructure is the skeleton and digitalization the nervous system, then innovation is Fujairah's lifeblood. The port should position itself as a testbed for emerging technologies—hosting pilot projects in digital bunkering, waste-to-energy, solar-powered industrial zones, and green-fuel blending. Each successful demonstration strengthens investor confidence and reinforces Fujairah's global image as a forward-looking innovation hub.

Future-proofing infrastructure is equally essential. All new pipelines, tanks, and jetties should be designed for modular conversion to handle ammonia, methanol, and hydrogen derivatives. Building flexibility into physical assets today will save billions in retrofits tomorrow. The cost of foresight is always lower than the cost of correction.

At the same time, the emirate should not limit its view of “energy” to hydrocarbons. With some of the world's highest solar irradiance, Fujairah is ideally placed to power its operations with renewable energy and even export surplus

electricity or battery-stored power to regional markets like India and Pakistan. Investing in solar industrial parks would signal that Fujairah's future lies not only in storing energy but also in generating it sustainably.

Partnerships remain the currency of global leadership. Joint ventures with European, Indian, and Japanese investors can bring technology transfer, capital, and risk-sharing to mega-projects in refining, petrochemicals, and low-carbon logistics. Such alliances will globalize Fujairah's brand and integrate it into the world's most sophisticated energy networks.

No transformation, however, can succeed without people. The creation of a Fujairah Energy Academy would train a new generation of professionals in AI, automation, maritime safety, and sustainable operations. Developing local human capital ensures that the digital and green transformation is not imported but homegrown rooted in Emirati expertise and regional pride.

Finally, resilience must remain Fujairah's defining trait. Energy markets are cyclical, and the hub's financial and operational strategy must be counter-cyclical—investing during downturns, diversifying revenue streams, and maintaining flexibility to pivot between fuels and partners. Stability through volatility is what will differentiate Fujairah from competitors that rise and fall with market tides.

Conclusion: From Port to Platform

Fujairah stands at a remarkable crossroads. Its past has been shaped by geography; its future will be defined by strategy. The emirate already commands the fundamentals—deep-water access, political stability, robust infrastructure—but its long-term success will depend on how effectively it weaves these strengths into a unified vision of transformation.

To join Singapore and Rotterdam in the top tier of global energy hubs, Fujairah must think beyond tonnage and tankage. It must become a living ecosystem—digitally integrated, industrially diversified, and globally connected. A place where molecules meet electrons, where trade meets technology, and where sustainability meets scale.

The path is clear: expand capacity, integrate corridors, digitize operations, diversify industry, attract global partners, and empower local talent. If these priorities are executed with the same pragmatism and foresight that built Fujairah's foundation, the emirate will not just participate in the next chapter of global energy—it will help write it. ■



TOP 20 RECOMMENDATIONS

From Resilient Port to Global Powerhouse

Over the past decade, the Port of Fujairah has evolved from a regional bunkering hub into one of the world’s most strategic midstream energy gateways. Its resilience—proven through geopolitical turbulence, sanctions realignments, and global supply disruptions—demonstrates both the strength of its infrastructure and the agility of its ecosystem. Yet the next decade presents a far greater challenge: how to translate resilience into global leadership. To become one of the world’s top three energy hubs, Fujairah must now execute a bold, integrated strategy that aligns infrastructure expansion, industrial diversification, digital transformation, and sustainability into a single forward-looking vision.

1. Expand Core Capacity to Enable Growth

Fujairah’s near-term priority is completing Jetty 10 and 11 by 2027, ensuring minimal vessel congestion and faster turnaround. Coupled with a planned 50 percent increase in commercial storage capacity, this expansion will underpin throughput growth and preserve operational reliability. Investing in scalable jetty and tankage infrastructure will strengthen the port’s reputation as the Gulf’s most efficient liquids terminal.

2. Move Up the Value Chain with Industrial Clusters

Becoming a true global energy hub requires more than handling cargo—it requires creating value. Fujairah’s next evolution lies in attracting processing, petrochemical, and topping-unit facilities within the Fujairah Oil Industry Zone (FOIZ). Co-located industrial clusters will generate employment, stimulate exports, and turn Fujairah into a dynamic manufacturing and logistics ecosystem rather than a simple trans-shipment point.

3. Anchor Fujairah in the India–Middle East–Europe Corridor

The advent of the India–Middle East–Europe Economic Corridor (IMEC) marks a turning point. Fujairah must position itself as the maritime heart of this new trade route, linking Asia’s demand engines with Europe’s industrial markets. By aligning port expansion with IMEC’s logistics, digital, and energy infrastructure, Fujairah can secure a long-term role as the East-of-Suez gateway for both molecules and electrons.

4. Forge Deep Commercial Ties with India and Africa

India’s economic rise and Africa’s demographic surge will shape global demand for decades. Fujairah can anchor its long-term growth by developing bilateral frameworks for joint storage, refining, and shipping investments. Serving these markets with reliability and transparency will ensure that energy and goods continue to flow through Fujairah’s jetties long after current trade routes evolve.

5. Preserve Political and Commercial Neutrality

Neutrality is Fujairah’s strongest brand asset. As global energy markets fracture under geopolitical strain, the port’s reputation for impartiality must remain absolute. Transparent governance, consistent regulations, and non-aligned trade policies will continue to attract international investors seeking a secure and sanction-resilient base for global operations.

6. Accelerate Digital Transformation

To compete with Singapore and Rotterdam, Fujairah must lead on digital efficiency. The rollout of a Port Community System linking terminals, customs, immigration, and agents is a critical step. Applying artificial intelligence to scheduling, berthing, and maintenance will reduce waiting times, cut emissions, and enhance profitability through smarter asset utilization.

7. Champion Transparency and Data Integration

Digitalization also enables trust. By providing real-time visibility into cargo movements, port performance, and environmental metrics, Fujairah can build unparalleled data transparency. Public dashboards and automated compliance reporting will reassure traders, regulators, and financiers, making the port a global benchmark for accountability.

8. Balance Green Ambition with Commercial Realism

The energy transition must be pragmatic. Fujairah should prioritize commercially viable decarbonization—biofuel blending and LNG efficiency—while closely tracking the maturity of ammonia, methanol, and hydrogen supply chains. Entering too early risks stranded assets; entering too late risks lost relevance. Timing, not ideology, will define success.

9. Lead on Safety, Compliance, and ESG Standards

Regulatory excellence will be non-negotiable. Strict enforcement of IMO rules, ESG reporting, and anti-shadow-fleet measures will reinforce Fujairah’s legitimacy as a transparent, rules-based hub. In an era where safety and compliance define credibility, Fujairah’s zero-tolerance approach must remain its license to operate.

10. Build a Fully Integrated Logistics Ecosystem

Beyond the port gates lies the opportunity to integrate shipping, storage, and inland transport through digital twins and smart-tracking systems. Predictive logistics platforms can synchronize vessel arrivals with jetty availability, optimizing bunker allocation and inventory turnover. Fujairah’s transformation into an intelligent logistics ecosystem would redefine efficiency across the Gulf.

11. Maximize Limited Land Through Strategic Allocation

Land is finite, but vision is not. With most available plots already earmarked, future development must prioritize high-yield, synergistic projects such as hydrogen hubs, carbon-capture clusters, or hybrid data-energy centers. Strategic land governance will prevent fragmentation and channel resources into sectors that deliver long-term economic and environmental returns.

12. Attract Low-Carbon Industrial Anchors

Diversification is the antidote to volatility. By attracting LNG liquefaction, hydrogen processing, and carbon-neutral manufacturing facilities, Fujairah can future-proof its energy portfolio. These investments will position the emirate as both a conventional energy powerhouse and a pioneer in the low-carbon economy.

13. Institutionalize Public-Private Collaboration

Fujairah’s rise has been a collective achievement between the Port Authority, FOIZ, and private terminals. To accelerate future growth, this collaboration must become institutionalized through unified investment planning, shared digital systems, and joint marketing strategies. Cohesive governance will deliver the agility global investors expect.

14. Position Fujairah as Africa’s Energy Gateway

Africa’s emerging economies represent the next frontier for energy and commodity flows. Fujairah can serve as the logistics bridge between Gulf suppliers and African demand centers. Establishing feeder routes, financing mechanisms, and bonded storage for African trade would give Fujairah first-mover advantage in a continent of two billion future consumers.

15. Launch Pilot Innovation Projects

Innovation attracts investment. Pilot projects in digital bunkering, waste-to-energy, and green-fuel blending will demonstrate technological readiness and inspire confidence among global partners. Each successful trial will reinforce Fujairah’s brand as a laboratory for future energy solutions.

16. Future-Proof Infrastructure for New Energy Carriers

All new jetties, pipelines, and tanks should be built with modular designs to accommodate ammonia, methanol, and hydrogen derivatives. This foresight will save billions on retrofits and ensure Fujairah remains compliant with evolving maritime fuel standards over the next three decades.

17. Develop Solar-Powered Industrial Parks

Harnessing the emirate’s exceptional solar potential can transform Fujairah into a renewable-powered hub. Dedicated solar parks supplying clean electricity to port operations—and potentially exporting battery-stored energy to India or Africa—would showcase Fujairah’s commitment to decarbonized industrialization.

18. Establish Strategic Energy Partnerships

Global collaboration is key to technological and financial resilience. Partnerships with European, Indian, and Japanese investors can accelerate development in refining, petrochemicals, and logistics. Shared capital and know-how will distribute risk while embedding Fujairah in the global network of trusted energy suppliers.

19. Upskill the Workforce for the Digital and Green Era

Infrastructure alone cannot lead transformation—people must. Establishing a Fujairah Energy Academy to train young professionals in AI, automation, maritime safety, and sustainability will cultivate a skilled workforce capable of managing next-generation infrastructure and reinforcing the emirate’s human capital base.

20. Build Financial and Operational Resilience

The global energy market is cyclical. Fujairah must adopt counter-cyclical planning, investing through downturns, diversifying revenue streams, and maintaining financial buffers. Resilience will depend on flexibility: the ability to pivot between products, partners, and technologies without losing momentum. ■

