



FOR IMMEDIATE RELEASE:

TAQA and EWEC Advance Abu Dhabi's Artificial Intelligence Strategy Through State-of-the-Art Energy Infrastructure Projects

TAQA and EWEC sign Power Purchase Agreement for 1GW of new advanced OCGT generation capacity to meet the growing energy demand

The new 1GW capacity adds to the recently announced world-first 'round-the-clock' giga-scale project by Masdar, which comprises 5.2GW of solar PV and 19GWh of battery storage to dispatch 1GW of renewable energy 24/7

TAQA Transmission will develop state-of-the-art infrastructure to integrate the new projects and seamlessly connect end-users to the Abu Dhabi grid

The new energy projects being developed total AED 36 billion of investment

Abu Dhabi, UAE – 03 April 2025: Abu Dhabi National Energy Company PJSC (“TAQA”), one of the largest listed integrated utility companies in Europe, the Middle East and Africa, together with Emirates Water and Electricity Company (EWEC), a leading company in the integrated planning, purchasing, supply and system despatch services of water and electricity across the UAE, today announced the development and implementation of new energy infrastructure projects to directly advance the UAE National Strategy for Artificial Intelligence 2031, and UAE Net Zero by 2050 initiative.

The transformative collaboration includes TAQA signing a 24-year Power Purchase Agreement (PPA) with EWEC to build, own, and operate the 1-gigawatt (GW) Al Dhafra Open-Cycle Gas Turbine (OCGT) project in the UAE. With 100 per cent ownership, TAQA is leading the OCGT project and will undertake the operation and maintenance (O&M) of the plant. In addition, TAQA Transmission, part of TAQA Group, will develop advanced power grid infrastructure to integrate the additional generation capacity to new sources of energy demand, enabling access to reliable power with a low carbon footprint.

The projects will support the recently announced EWEC and Masdar world-first project that will enable renewable energy to be dispatched 24 hours a day seven days a week, reaffirming the UAE's position as a global pioneer in renewable energy deployment and low-carbon infrastructure. Delivering up to 1GW of baseload power every day generated



from renewable energy, it will be the largest combined solar and battery energy storage system (BESS) in the world.

The collaboration between EWEC, TAQA, and Masdar, will drive investment of around AED 36 billion in energy supply infrastructure in Abu Dhabi with around 75 per cent of that to be invested in renewable and conventional power generation. The remaining 25 per cent will be invested in grid infrastructure, which will be added to the regulated asset base and will receive the regulated return.

Jasim Thabet, Group CEO and Managing Director of TAQA and Vice Chairman of Masdar said: “Providing reliable low-carbon power plays an important role in enabling the global energy transition. Through our expertise in power generation and transmission, and as the largest shareholder in Masdar, TAQA plays a central role in advancing clean energy solutions in the UAE, and we remain committed to ensuring reliable, low-carbon power at all times. As a champion of low-carbon power and water, we are proud to be a part of these world-class projects alongside our partner EWEC.”

Ahmed Ali Alshamsi, Chief Executive Officer of EWEC, said: “EWEC is pleased to partner with TAQA on transformative initiatives that will not only power the UAE’s AI ambitions but also accelerate the nation’s energy transition. By creating a future-ready energy framework that integrates next-generation renewable energy technologies and advanced transmission solutions, this collaboration is setting a new global benchmark for sustainable energy systems that balances sustainability with operational excellence. As the UAE transitions into an AI-powered future, we are creating the foundation for a future where advanced technologies can flourish, while meeting the country’s forward-thinking environmental and economic goals.”

EWEC has achieved a transformative milestone in Abu Dhabi’s energy sector, now supplying more than 55 per cent of the emirate’s power demand through renewable and clean energy sources. Additionally, more than 92 per cent of water production will be supplied through state-of-the-art reverse osmosis technology, reducing water production emissions from 16 kilograms per cubic meter (kg/m³) in 2021 to 1 kg/m³ by 2031. These advancements reinforce Abu Dhabi’s position as a global leader in sustainable utility operations.

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About TAQA

Established in 2005, TAQA is a diversified utilities and energy group headquartered in Abu Dhabi, the capital of the United Arab Emirates, and listed on the Abu Dhabi Securities Exchange (ADX: TAQA). TAQA has significant investments in power and water generation, water treatment and reuse, transmission and distribution assets, as well as upstream and midstream oil and gas operations. TAQA owns or manages assets in 25 countries. For more information, please visit: www.taqa.com and follow us @TAQAGroup on LinkedIn, Twitter, Instagram and YouTube.

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About Emirates Water and Electricity Company

EWEC (Emirates Water and Electricity Company) is the sole procurer and supplier of water and electricity in the emirate of Abu Dhabi. EWEC drives the planning, forecasting, purchasing, and system despatch services of water and electricity. EWEC fulfils these vital responsibilities through the short-term and long-term balancing of bulk supply and demand for distribution companies and authorities in Abu Dhabi and other Emirates. EWEC is supporting the government of Abu Dhabi and the government of the UAE by enabling the reduction of cost whilst also providing the increased security of supply that comes from a cleaner, larger, and more integrated system.

EWEC is mandated to implement strategic initiatives that will achieve the 60 per cent clean energy target outlined in the Abu Dhabi Department of Energy's (DoE) Clean Energy Strategic Target 2035 for Electricity Production in Abu Dhabi, in addition to enabling the achievement of UAE Water Security Strategy 2036, UAE Energy Strategy by 2050, and the UAE Net Zero by 2050 strategic initiative. EWEC is accelerating Abu Dhabi and the UAE's energy transition by diversifying the country's energy mix through developing and deploying renewable and clean energy as well as low-carbon intensive water desalination capacities. EWEC is part of ADQ, one of the region's largest holding companies with a broad portfolio of major enterprises spanning key sectors of Abu Dhabi's diversified economy. For more information, please visit www.ewec.ae.

For EWEC media enquiries, please contact: communications@ewec.ae