



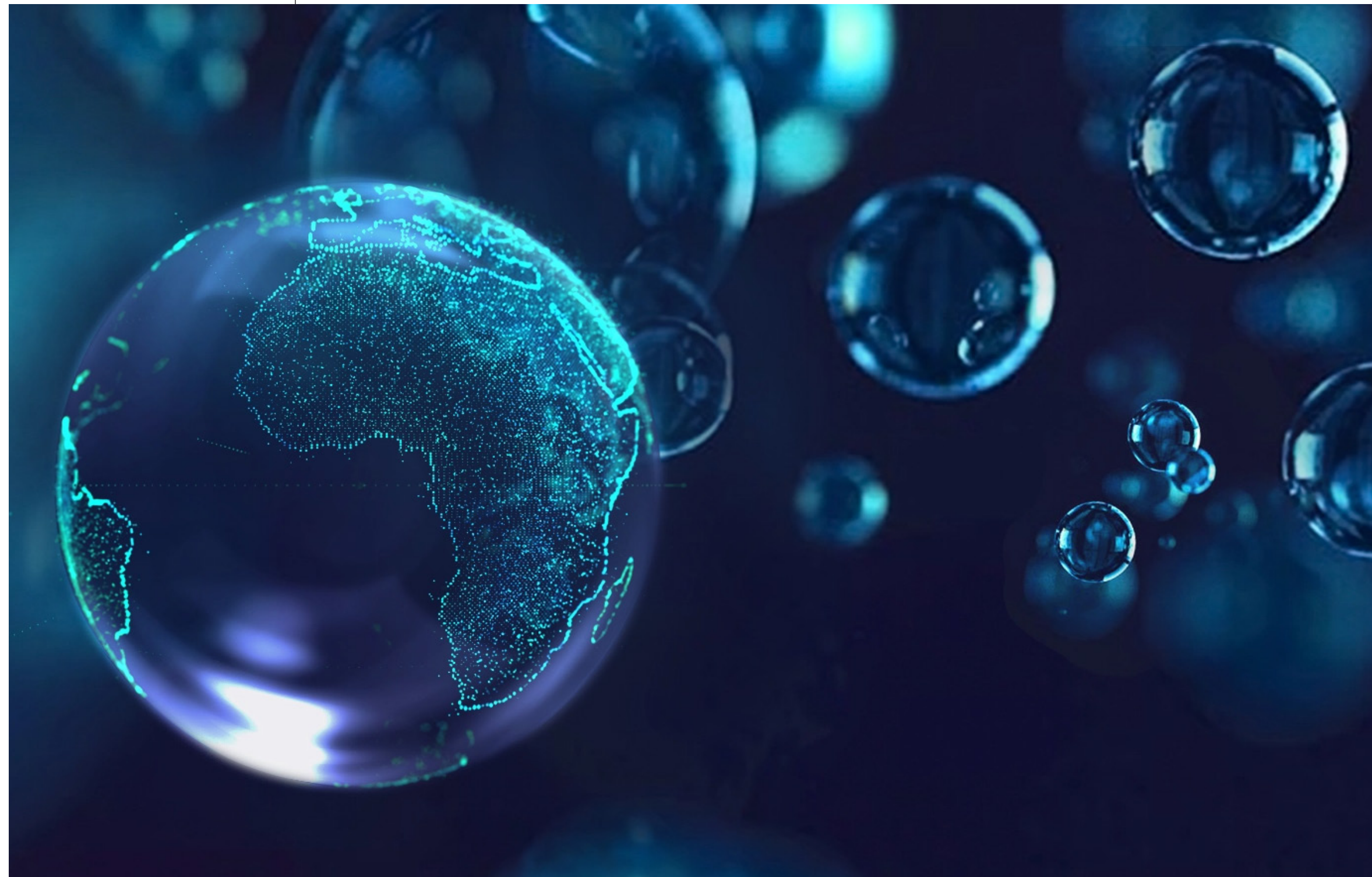
MITSUBISHI POWER UNITED ARAB EMIRATES

**THE USE OF ADVANCED, CLEANER, AND HIGHER-EFFICIENCY
TECHNOLOGIES TO POWER THE UAE'S ENERGY TRANSITION AMBITION**

WHAT WE DO

Mitsubishi Power, the power solutions brand of Mitsubishi Heavy Industries, Ltd. (MHI) is a world leader in power generation and energy storage solutions – effectively designing, manufacturing, building, servicing, and optimizing power systems for people and the planet. The company operates in over 30 countries around the world with global headquarters in Yokohama, Japan and regional headquarters in Dubai, Singapore, Shanghai, London and Florida.

Building on more than a century of innovative engineering and distinctive service, Mitsubishi Power is collaborating with customers, governments, utilities, and industry leaders to drive decarbonization agendas while addressing the energy challenges of today and tomorrow to create a future that works for both people and the planet.



OUR OPERATIONS IN THE UAE

As a company that has contributed significantly to the development of the power infrastructure in the region for more than 55 years, Mitsubishi Power is committed to helping customers make the transition to a more sustainable world. Headquartered in Dubai, United Arab Emirates, Mitsubishi Power has provided innovative energy solutions and services to enable major plant rehabilitation, and overhaul power plants across the region.

mitsubishi power works with key energy stakeholders in egypt including:



MUBADALA



هيئة كهرباء ومياه الشارقة
Sharjah Electricity and Water Authority



A LOCAL, INDUSTRIAL SCALE SERVICE FACILITY IN THE CAPITAL

Mitsubishi Power established an industrial scale service facility in 2012 in the Industrial City of Abu Dhabi (ICAD III). Certified under the UAE's National In-Country Value Program (ICV), the facility's service portfolio includes maintenance services for power plant and industrial machinery, dedicated engineering teams, field service capability, OEM & OEM fleet service capabilities and handling of large and complex (LSTK) projects.

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SITE AREA

21,000 square meters

✓

THREE DEDICATED BAYS

✓ Heavy Duty Center

✓ Duty Center

✓ Component Repair Center

✓

92 HEAVY DUTY ROTORS (GT, ST & GENERATORS) HANDLED TO DATE
- ✓

NUMBER OF EMPLOYEES

63 employees

✓

2.15-MILLION-MAN HOURS

OUR MAJOR CUSTOMERS





MITSUBISHI POWER PROJECTS IN THE UAE

AL LAYYAH COMBINED-CYCLE POWER PLANT, SHARJAH, UAE

Mitsubishi Power signed a long-term service agreement with Sharjah Electricity and Water Authority (SEWA) for Al Layyah Project for the long-term servicing and maintenance of Mitsubishi Power's M701F heavy-duty gas turbines that will ensure uninterrupted power supply in Sharjah, while enabling SEWA to improve reliability, efficiency, and availability of power in the Emirate.

The 1,026.3 MW gas turbine GTCC power plant in Sharjah, centers on two M701F gas turbines in a project underway by the Sharjah Electricity & Water Authority (SEWA) in the coastal city of Layyah.

In 2022, Mitsubishi Power's Advanced M701F Gas Turbines have commenced the simple cycle commercial operation at the Layyah power plant in Sharjah, which is owned and operated by SEWA.

The expansion supports Sharjah's economic development by boosting electricity production and enhancing water production in the emirate through the adoption of state-of-the-art power generation solutions and facilities.

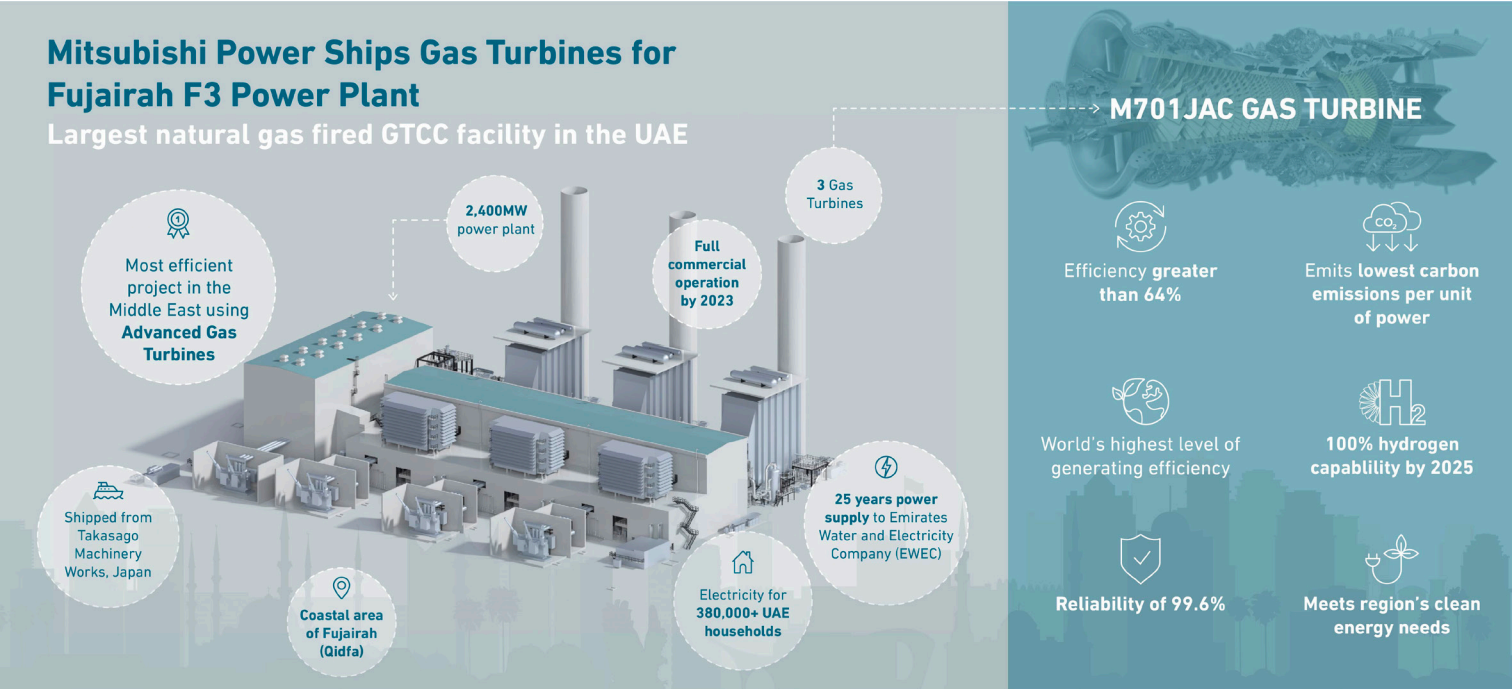
FUJAIRAH F3 PLANT

Mitsubishi Power's JAC-class gas turbines are set to power a 2.4GW gas-fired power plant, Fujairah F3, being built in the UAE. The US\$1.14bn plant is using an efficient combined cycle technology in the region and will be the largest natural gas fired GTCC facility in the UAE, playing a crucial role in the country's power generation sector, while also contributing to the GCC's power grid.

The plant will use an efficient combined cycle technology in the region and will be the largest natural gas fired gas turbine combined cycle (GTCC) facility in the UAE, playing a crucial role in the country's power generation sector, while also contributing to the GCC's power grid.

These generators will be the core facility for the natural gas fired GTCC plant, owned and operated by Fujairah Power Company F3 LLC, a special purpose company (SPC) jointly owned by Abu Dhabi National Energy Company (TAQA) and Mubadala Investment Company, as well as Marubeni Corporation and Hokuriku Electric Power Company. The plant is being built by the South Korean firm Samsung C&T Corporation. This shipment comprises a total of three units ordered in 2020, that includes the core facilities of this newly constructed plant, along with auxiliary machinery and accessory equipment.

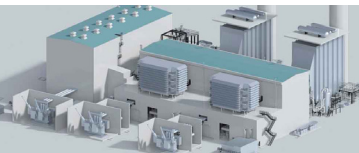
This project is the first in the Middle East to utilize Mitsubishi Power's advanced JAC-Series gas turbines.



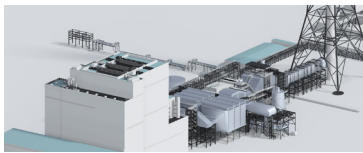
OUR TOTAL ENERGY SOLUTIONS

From pioneering the world’s largest, most efficient, and most reliable gas turbines, to hydrogen powered GTs, energy storage, and carbon utilization technologies, total energy management solutions, and power infrastructure digitalization, Mitsubishi Power is making significant investments to create a sustainable future. With a 100+ year track record of excellence in the energy industry, Mitsubishi Power develops the world’s most innovative clean power solutions and digital offerings for customers, empowering them at every stage of their energy transition journeys, affordably and reliably.

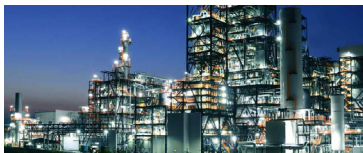
PRODUCTS



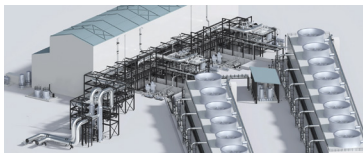
[GTCC](#)



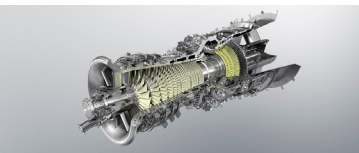
[Steam Power](#)



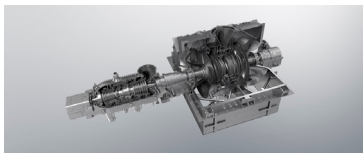
[IGCC](#)



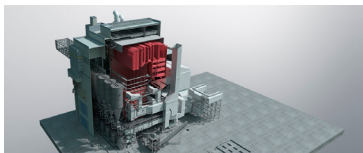
[Geothermal](#)



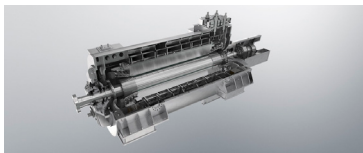
[Gas Turbines](#)



[Steam Turbines](#)



[Boilers](#)



[Generators](#)



[Control Systems](#)



[Fuel Cells](#)

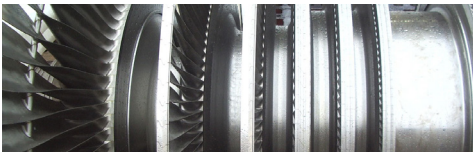


[Others](#)

SERVICES



[Gas Turbines](#)



[Steam Turbines](#)



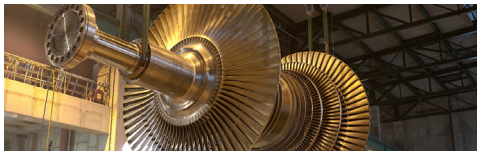
[Boilers](#)



[Generators](#)



[Air Quality Control System \(AQCS\)](#)



[Long Term Service Agreement](#)



[Support of Operation and Maintenance](#)



[Training](#)



[Comprehensive Maintenance](#)



[Intelligent Solutions TOMONI®](#)



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“Since 1970, Mitsubishi Power has pioneered hydrogen fuel combustion technologies, and our recent large-scale and ambitious projects demonstrate our commitment and accumulated expertise in this field. With MHI’s 2040 goal, a key objective for Mitsubishi Power will be to help our customers in the UAE and the wider region bend the cost curve of their energy transition with affordable and reliable solutions. This is going to be pivotal in demonstrating how hydrogen can competitively fulfil clean energy expectations and bring us one step closer towards a carbon neutral society.”

KHALED SALEM

President, Mitsubishi Power Middle East & Africa (MEA)



DECARBONIZING GAS TURBINES: OUR HYDROGEN EXPERTISE

Mitsubishi Power has long pioneered hydrogen fuel combustion technologies, and our recent large-scale and ambitious projects demonstrate our commitment and accumulated expertise in this field.

Commercializing hydrogen is now a global priority, to scale its use. Mitsubishi Power, along with Mitsubishi Heavy Industries (MHI) are fast-tracking this process through projects such as the recently announced Takasago Hydrogen Park, the world's first center for the validation of hydrogen-related technologies, from hydrogen production to power generation, which will support the commercialization of small and large frame gas turbines.

Mitsubishi Power is building a value chain for hydrogen, from production to use, through further integration and advancement of the existing energy infrastructure and hydrogen-related technologies. By further developing this approach and linking it with many different types of hydrogen-centric industries, MHI aims to establish a hydrogen ecosystem that will accelerate its commercialization through verification at the Takasago Hydrogen Park.

Mitsubishi Power is committed to bringing our most advanced solutions and services to the UAE, to support our customers achieve an optimal transition to a clean energy future with a resilient, reliable, and robust energy supply.

OUR NET-ZERO JOURNEY

Mitsubishi Heavy Industries have set two ambitious new targets to realizing a carbon neutral society. MHI Group is aiming to remove all carbon dioxide emissions from its own operations by 2040 – cutting emission by half by 2030 (compared to 2014). MHI Group is also adopting a new goal to achieve Net Zero emissions through its entire value chain by 2040. These targets include the reduction in emissions attributed to our customers' use of our products and services, and the reduction contribution from MHI's Carbon dioxide Capture, Utilization and Storage (CCUS) business.

Net zero is a social and scientific imperative and highly achievable. Mitsubishi Power sees five interdependent factors that pave the way to net-zero and on this journey, and must ensure that decarbonization solutions are accessible, reliable, and affordable, across industries and geographies – as a company, as an industry and as a society.

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PARTNERSHIP AND COLLABORATION
The need to collaborate in unprecedented ways to develop technologies and business models that enable sustainable growth.
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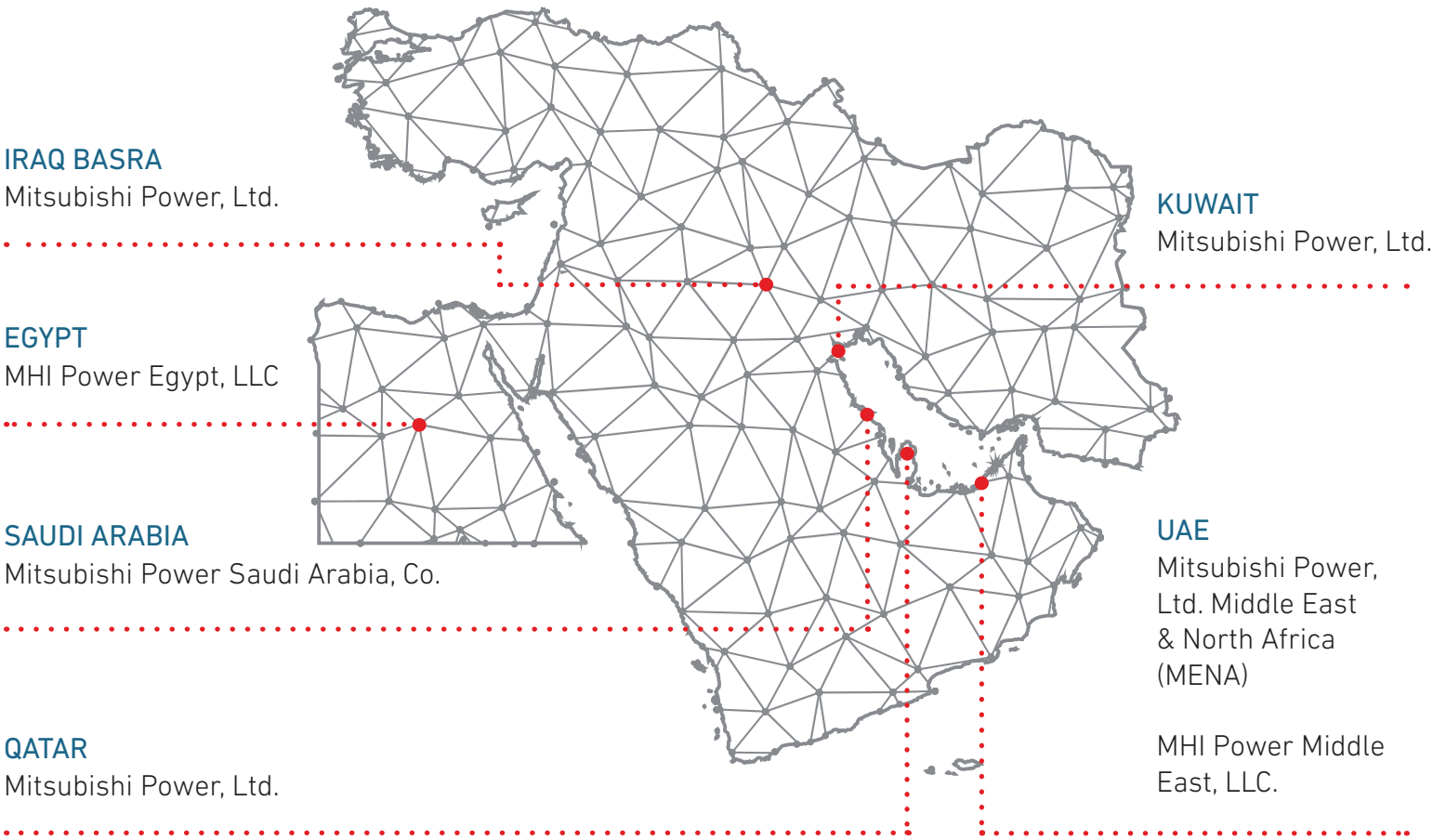
TECHNOLOGY AND INFRASTRUCTURE
The need for scale and the acceleration of a broad range of existing and new decarbonizing technologies.
- ✓

JOB AND SKILLS
Net-zero will be achieved with the people who can deliver it, so jobs and skills will be crucial. There is a need to create a culture of continuous learning, enabling talent to evolve and thrive with rapidly changing technologies.
- ✓

POLICY AND REGULATIONS
This will play a pivotal role in incentivizing the shift to low or zero carbon technologies. There is a need to globally align regulations that support ambitious yet pragmatic net-zero goals and mitigate any imbalance across the world.
- ✓

FINANCE
Lastly, the transition needs to be financed and needs to be backed by viable business cases. There is still work that needs to be done to explore new viable financial models for low-carbon solutions to reduce risk and accelerate adoption.

OUR MIDDLE EAST PRESENCE



For more information, please visit <https://power.mhi.com/regions/mena/>



THANK YOU