GE Kuwait Technology Center (GEKTC)
Mariam Al-Rushaid,
Director, GE Kuwait Technology Center

About GE Kuwait Technology Center (GEKTC)

Since the early 1970s, GE has been a strong partner to Kuwait’s public and private sectors, supporting the country’s infrastructure needs across the aviation, energy, and healthcare sectors.

GEKTC is a flagship, first-of-its-kind facility in Kuwait, which serves power sector customers in the country and abroad, and includes centers for Training, Tooling, and Research & Development (R&D).

When we first started this project, our vision for GEKTC was to bring something unique to the country and to our customers, an initiative sitting at the nexus of skills development, technology, and innovation that would help to further strengthen talent, increase productivity, and support the sustainable development of the power sector.

Thanks to the unwavering support of the Kuwait Direct Investment Promotion Authority (KDIPA), Markaz, the Kuwaiti Ministry of Electricity and Water, and Kuwait University, our vision has been made a reality.

Since the inauguration of GEKTC in 2016 to this day, we have remained focused on upholding our vision and transforming the future of energy in Kuwait and beyond.

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Director, GE Kuwait Technology Center
Building on GE’s Strong Presence in Kuwait

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GEKTC serves three core areas in the power sector: training, tooling, and engineering.

GEKTC Training Center:
Offers both theoretical and hands-on training.
- Can support more than 900 trainees a year
- Hands-on training: Gas turbine operation & maintenance, steam turbine operation & maintenance, generator operation & maintenance, control maintenance, excitation and gas power plant operation & maintenance, and aeroderivative gas turbine operation & maintenance
- 35+ Courses offered
- 2,100 sqm Workshop area

GEKTC Tooling Center:
Offers repair & maintenance services. Delivers timely and quick service support for customers.
- Up to 90% reduction in shipping time for customers in Kuwait and neighboring countries
- Up to 10% reduction in costs for customers in Kuwait and neighboring countries

GEKTC R&D Center:
Offers cutting-edge research and development including Hot & Harsh technology.
- Equipped with state-of-the-art technology, GEKTC’s R&D Center enables rapid response and tailored solutions to customer issues
- Covers four critical technology areas:
  1. Failure Analysis & Material Life Assessment
  2. Oil & Fuel Testing
  3. Controls Simulation
  4. Monitoring & Diagnostics

Can support more than 900 trainees a year

900+
Trainees

35+
Courses offered

2,100 sqm
Workshop area
GEKTC is a world-class facility established to provide enriching training programs, a sustainable tooling center, and innovative engineering for decades to come.

**GEKTC Training Center**

Offering both theoretical and hands-on training, the Training Center can support more than 900 trainees a year. It offers a tailored curriculum for professionals and students, taught by GE experts, on actual heavy duty gas turbines, aeroderivative gas turbines, steam turbines, generators, and more.

The Training Center has been helping customers to better understand and provide the skills needed to further enhance the capabilities of their employees.

**GEKTC Tooling Center**

Featuring various tools required to support the maintenance and modification of GE and non-GE gas turbines, generators, and steam turbines, the Tooling Center serves as a repair hub, delivering timely and quick service support for customers.

The Tooling Center has been supporting the country’s power plants during planned and forced outages and has helped reduce tool delivery time by up to 90%.

In a bid to support the local small and medium enterprises (SME) sector, the Center works with local vendors and suppliers for tooling orders, consumables, and the certification and calibrations of tooling. This enables local suppliers to be part of GE’s global supply chain.

**GEKTC R&D Center**

Addressing four critical technology areas - Failure Analysis & Material Life Assessment, Oil & Fuel Testing, Controls Simulation, and Monitoring & Diagnostics - the R&D Center leverages the skills and facilities of the engineering community in Kuwait and across the region.

The R&D Center co-creates solutions for challenges faced by field engineers and customers. It also offers a troubleshooting and simulation laboratory, enabling GE engineers to proactively provide operation and maintenance advice to improve plant reliability and to respond faster to complex control issues associated with power plant operation and equipment upgrades.

GEKTC also focuses on Hot & Harsh research that evaluates the effect of high temperature, dust, corrosion, erosion, duty cycle, and fuel harshness, which have a critical impact on the reliability and efficiency of power plants. The findings of these studies are applied on turbines and generators, further strengthening their reliability and efficiency.
The path-breaking R&D at GEKTC is aimed at driving the productivity and operational efficiency of our customers, including through co-created initiatives on GE’s digital industrial technologies.

The GEKTC R&D Center includes a Monitoring & Diagnostics Center for analytics-based remote monitoring of GE turbines and related equipment, as well as a Controls Simulation laboratory. They provide custom software solutions, as well as extensions to GE Digital industrial software applications and the Predix Platform, to help customers gain maximum benefits from the Internet of Things (IoT), analytics, and their digitization initiatives.

Highlighting GE’s focus on the digital industrial transformation to achieve unprecedented levels of operational efficiency and productivity, the GEKTC team works with researchers, industry, and software developers to co-create digital industrial solutions for the power sector.
For further information, please contact:

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