



**YOUR
PARTNER IN QUALITY**

WWW.GREEN-TK.COM

Welcome

Quality is our top priority!

Belal Akram
chief operating officer

«We will continuously strive to delight our customers with outstanding quality of our products and services.»



With decades of experience in the engineering and cleanroom industry, I have seen how technology, standards, and client needs continue to evolve. One thing, however, remains unchanged: the importance of expertise, dedication, and teamwork. At GreenTK, I make it a priority to keep my knowledge current, to follow the latest developments in our field, and to ensure that our entire team grows with them.

Our employees are the heart of our company. Many have been with us for years, some even from the very beginning. Their loyalty, skills, and commitment to quality are what make GreenTK a trusted partner for our clients. I am proud of their professionalism, their ability to adapt to new challenges, and the high standards they bring to every project.

Drawing on my own long-standing experience, I know that success comes from combining technical expertise with a culture of trust and collaboration. Together, we will continue to innovate, meet the highest industry standards, and deliver solutions that make a lasting difference for our clients — today and in the years to come.



About us

**At GreenTK, we don't just build systems.
We build trust, performance, and lasting value.**

Founded in 2012, GreenTK brings together many years of expertise in HVAC-R, cleanroom design and construction — built on strong partnerships with leading international manufacturers. Since its inception, the company has evolved into a certified and trusted name in cleanroom testing, calibration, and qualification, and is proud to be a member of the German Clean Room Institute.

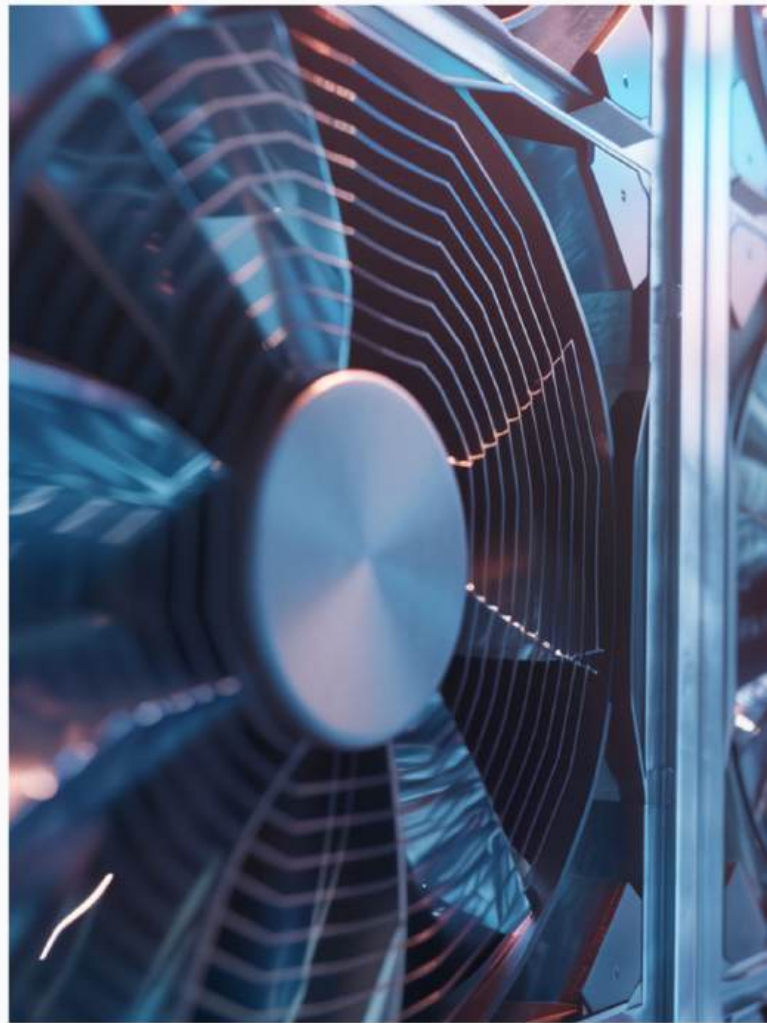
With a deep understanding of the Egyptian market, GreenTK supports clients across a wide range of industries, including pharmaceuticals, healthcare and food production. Our team combines technical know-how with strategic thinking to deliver engineering services, technical support and project solutions that meet the highest international standards.

As an ISO/IEC 17025:2017 and ISO/IEC 17020:2012 accredited company, our vision is to provide top-quality engineering services while expanding our footprint across the MENA and Gulf regions. We aim to bring innovation and proven expertise to our region.

Our mission is driven by continuous growth and a commitment to excellence. We invest in experienced professionals and constantly expand our capabilities — from engineering and project management to cleanroom validation, energy planning, equipment maintenance, training, and technology transfer.

Our services at a glance

We offer a wide spectrum of services where you, as our client, benefit from our technical expertise, industry experience and strong commitment to quality. Whether you're planning a new facility, optimizing existing systems or ensuring regulatory compliance — our tailored solutions are designed to meet your needs reliably and efficiently. With GreenTK, you gain a partner who understands your challenges and turns them into long-term value.



Overview

- GreenTK Lab
 - Calibration
 - HVAC Qualification
 - Thermal Validation and Mapping
 - Compressed Air / N2 and Steam Quality Test
- GreenTK Inspection
- Pharmaceutical Factories (design and build)
- Project Management and Site Supervision
- Refrigeration Systems (Food Supply Cold Chain)
- Energy and Environment Engineering
- Technical, Occupational Education and Training
- Plant Validation and Documentation
- Gap Analysis and Media Fill
- Production Equipment

GreenTK Lab

Precision starts with accuracy.

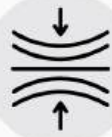
At GreenTK, our Calibration Services (ISO/IEC 17025) ensure that your measurement instruments perform with reliability and full traceability. We offer precise calibration services for a wide range of parameters, both in our accredited calibration lab and at your site. Calibrations are performed in line with ISO/IEC 17025 to ensure your instruments deliver accurate, traceable, and audit-compliant results.



Temperature

Temperature sensors are calibrated to ensure product quality, maintain proper flow or to meet safety requirements.

- Temperature Indicators
- Thermocouples
- Thermometers
- Data Loggers



Pressure & Vacuum

Pressure sensors can be found in instruments such as indicators and controllers and should all be calibrated in order to minimize the probability of erroneous readings.

- Pressure & Vacuum Gages
- Pressure Transducers
- Manometers
- Data Loggers



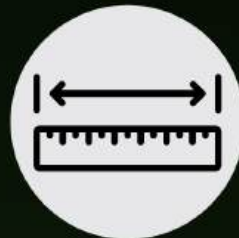
We can calibrate:



rpm



mass



length



conductivity



flowmeter



pH



**temperature &
relative humidity**



balance



**timer /
stop watch**



**differential
pressure**



micropipette



air velocity

Qualification

Reliable qualification is the foundation of regulatory compliance.

At GreenTK, we offer technical support for extensive GMP requirements in cleanroom environments, HVAC systems, building management systems (BMS), and equipment qualification. All qualification tests are performed in accordance with ISO 14644, ensuring your systems meet the highest international standards.

HVAC Qualification Tests

- airflow direction test & visualization
- air flow test
- differential pressure test
- classification of air cleanliness by particle concentration
- installed filter system leakage test
- recovery time test
- temperature & relative humidity test

Testing, Adjusting & Balancing

- electrical measurement
- rotational speed measurement
- drive adjustment
- static pressure measurement
- temperature testing
- flow measurement
- air pressure difference measurement

BMS Tests

- software verification
- pc verification
- system security verification
- utilities description
- temperature & humidity transmitter (THT)
- temperature transmitter (TT) verification
- pressure transmitter (PT)
- differential pressure switch (DPS)
- modulating valve verification
- variable speed drive (VSD) verification
- tagging verification



Precision in every degree

Thermal Validation and Mapping

We excel in delivering thermal validation and thermal mapping services to ensure precise environmental control across a variety of critical applications.

Our thermal validation services include rigorous testing to ensure reliable kill of bacteria, viruses, and other viable microorganisms, as well as comprehensive qualification. For dry heat depyrogenation tunnels, we offer expert thermal mapping to ensure consistent, safe operation across temperature ranges from 160°C to 400°C.

We evaluate and validate HVAC systems to ensure that temperature and humidity remain within specified limits, which is critical for the preservation of sensitive goods and biological samples.

With GreenTK, you benefit from accurate, compliant, and reliable services that safeguard both products and processes — no matter the thermal challenge.



autoclaves



ovens



tunnels



**warehouses
/ rooms**



incubators



**refrigerators
& cool rooms**



stability cabinets



trucks

Quality tests

Compressed Air

- oil aerosol content test
- dew point test
- solid particle count test
- carbon dioxide gas contamination content test
- carbon monoxide gas contamination content test
- nitrous gas contamination content test
- sulfur gas contamination content test

Compressed Nitrogen

- oil aerosol test
- dew point test
- solid particle count test
- carbon dioxide gas contamination content test
- carbon monoxide gas contamination content test
- oxygen contamination content test

Steam Quality Test

- non condensable gases
- dryness value
- super heated temperature



GreenTK Inspection

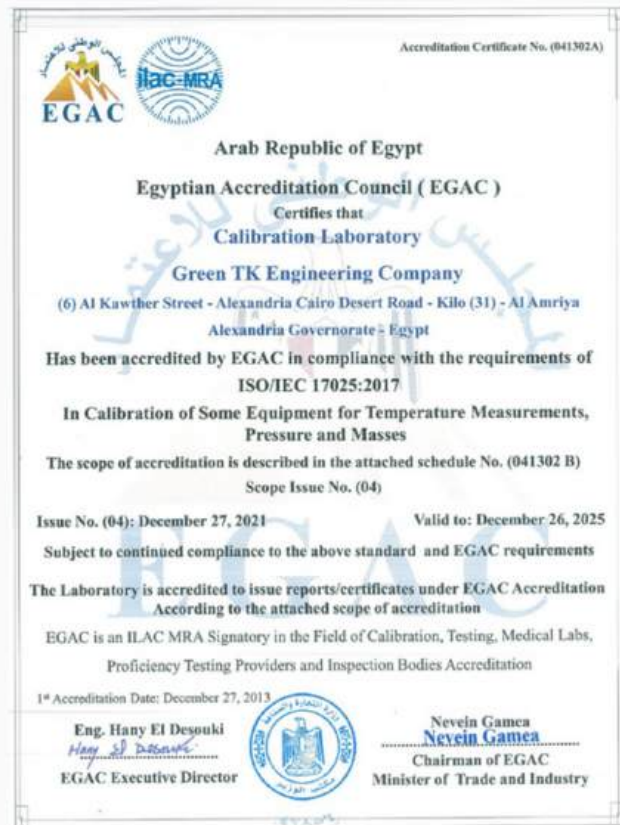
Internationally Accredited Inspection Body (Type A)

Accredited by EGAC in compliance with ISO/IEC 17020:2012, we operate in the field of inspecting and confirming the validity of cleanrooms and their associated controlled environments (HVAC qualification), as well as verifying the performance of temperature-controlled chambers. (CAB No. 032203B)



Internationally Accredited Calibration Laboratory

Accredited by EGAC in compliance with ISO/IEC 17025:2017, we provide calibration services in the fields of temperature measurement, pressure and mass (CAB No. 041302B).



ISO 9001:2015 Certified Management System

Certified by Bureau Veritas, our management system meets the requirements of EN ISO 9001:2015 for calibration, testing, temperature mapping, validation and HVAC qualification for cleanrooms and hospitals, as well as electro-mechanical engineering and energy solutions. (Certificate No. MER20.789/UQ – Version 1)



GreenTK Services

From Validation to Optimization – Tailored Solutions for Your Success

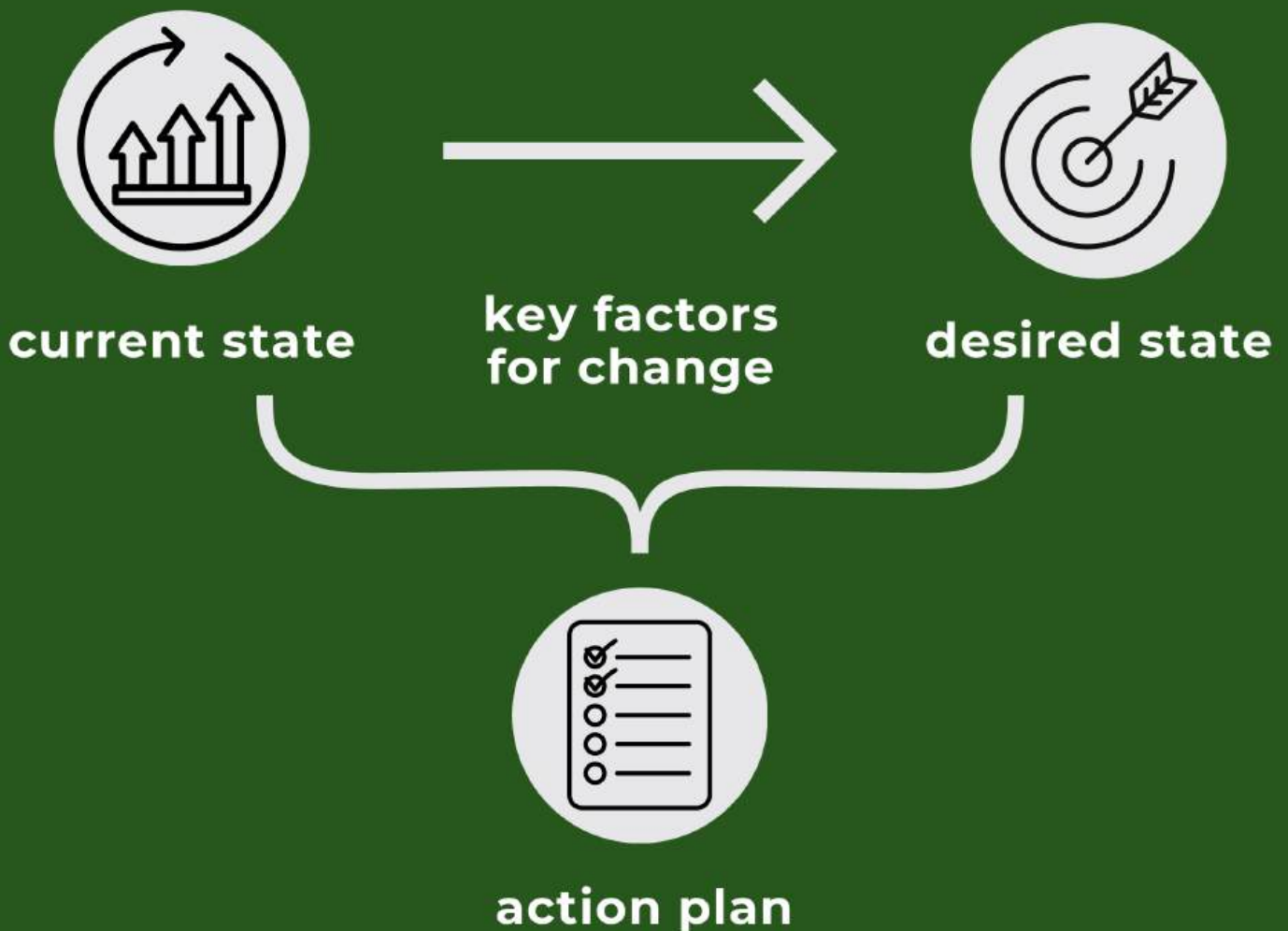
Plant validation & Documentation

- Complete plant documentation & SOP's
- Batch manufacturing record.
- Qualification, validation documents etc.

Media Fill Supervision

- Cause of failure investigation.
- Fumigation process and validation.
- Supervision Media fill (liquid and dry products).
- Training on gowning.
- Training on behavior in sterile area.

gap analysis



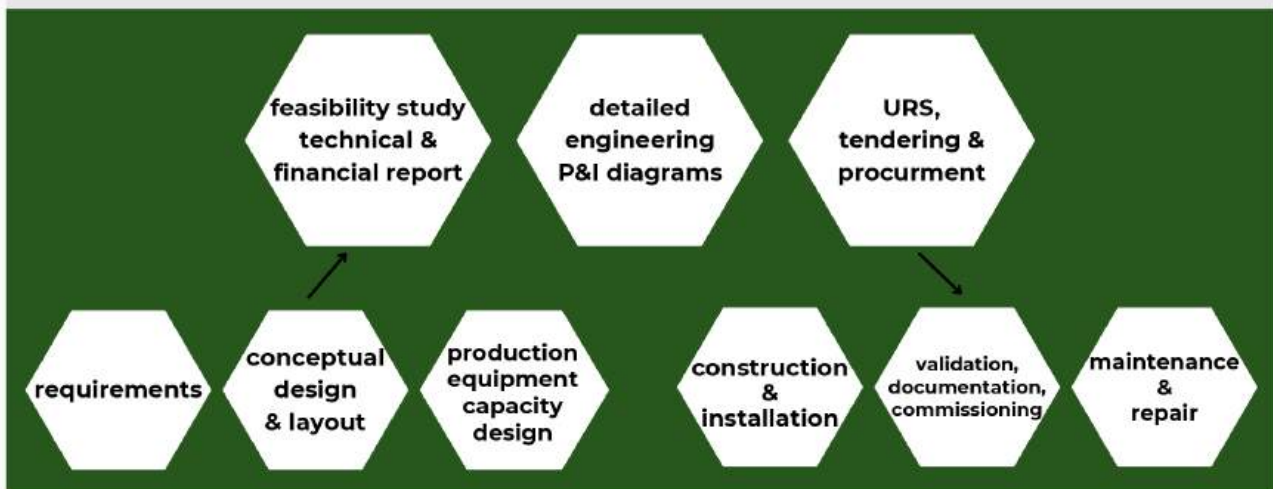
Engineering

Pharmaceutical Factories

GreenTK offers fully integrated engineering solutions for pharmaceutical facilities, in full compliance with **EU GMP, US FDA** and **WHO GMP** guidelines. We manage your project from concept to completion — reliably, efficiently and with a deep understanding of regulatory requirements.

Our **Design & Build services** include:

- Feasibility study and factory capacity analysis
- Production line layout and equipment URS
- Architectural design (civil works and wall mounting systems)
- Electromechanical engineering
- HVAC and utilities – design and construction
- Installation and commissioning of production equipment



Projects & Site Supervision

GreenTK's Project Management and Site Supervision services ensure smooth execution across all phases of your project — from the initial design review to the final stages of construction. Our team coordinates all contractors and oversees every step of the process, focusing on time and budget control while ensuring full compliance with technical specifications, client expectations and international standards.





Refrigeration Systems

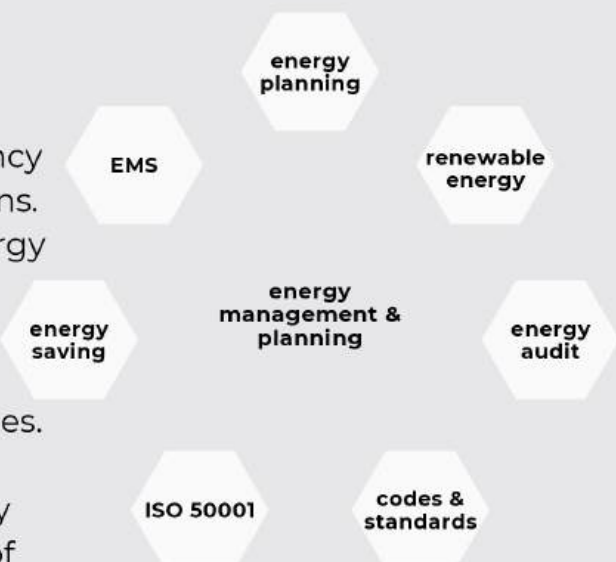
GreenTK offers turnkey Design & Build solutions for the **entire cold chain in the food industry** – from farm to fork. Our expertise ensures that temperature-sensitive goods are stored and handled under optimal conditions at every stage of the process.

We specialize in the planning, construction and delivery of:

- Refrigerated warehouses
- Pre-coolers and fast coolers
- Controlled atmosphere cold stores
- Quick freezers and IQF systems
- Terminal cold stores
- Central refrigeration systems and display units for mega markets

Energy and Environment

GreenTK's Energy & Environment services cover a broad spectrum of solutions aimed at improving efficiency and supporting sustainable operations. We provide expert consulting in energy management and environmental strategies, and offer professional services to operate, monitor and manage critical systems and processes. In addition, we support the implementation of renewable energy technologies and the development of long-term sustainability policies.



TVET Training

Building Technical Skills for Sustainable Workforce Development

At GreenTK, we believe that building technical capacity is key to sustainable growth. With over 35 years of international experience in education and workforce development, we position ourselves as a trusted training provider for the industry—combining deep expertise with modern, competency-based training (CBT) and HR skills upgrading.

Our approach is based on international best practices and aligned with occupational standards. We support companies in assessing their workforce needs and delivering tailor-made training programs that create long-term value — for both organizations and individuals.

Our TVET services include:

- Identification of occupational roles and skills demand
- Training Needs Assessments (TNA)
- Train the Trainer Programs (ToT)
- Off-the-job and on-the-job training (CBT & OJT)
- Monitoring & Evaluation of Training Effectiveness (M&E)
- Pre-assessment of trainees' capabilities
- Development of curriculum and learning materials
- Equipment and tool needs analysis for training workshops
- Capacity building of training facilities
- Procurement support and tendering supervision

With GreenTK, you gain a partner who not only delivers training — but helps shape the future of your workforce.



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