



**Vanguard 0<sup>+</sup>**  
business solutions





# ABOUT VANGUARD O+

is an EPM (Engineering, Procurement, and Project Management) consultancy firm operating.

The company is strategically focused on serving the industrial sector, delivering high - value solutions that align with sustainability and energy efficiency objectives.

## OUR VISION

"Driving the Energy Transition and Infrastructure Evolution for Sustainable Growth."

## OUR MISSION

"To revolutionize infrastructure projects in ports, logistics, utilities, and industrial facilities through innovative energy solutions, advanced technologies, and integrated systems."



STRATEGIC  
PLANNING



SITE SELECTION  
AND DESIGN



ENGINEERING  
MANAGEMENT



PROCUREMENT  
MANAGEMENT



PROJECT  
MANAGEMENT



ENERGY  
MANAGEMENT  
AND AUDITING



TURNKEY SOLUTIONS

# OUR EXPERTISE

**Our expertise** spans across various sectors, enabling us to deliver innovative solutions tailored to diverse industries.

Focusing on industrial sector specifically the following:

- Energy Audits & Solutions
- Retrofit Project Solutions
- EPC Project Delivery



# STRATEGIC PLANNING



## STRATEGIC PLANNING

We conduct feasibility studies and market analysis to identify demand for various projects, assess market dynamics, and determine optimal locations.

Developed a strategic roadmap for the projects, outlining site selection criteria, capacity requirements, and expansion plans.



# SITE SELECTION AND DESIGN



## SITE SELECTION AND DESIGN

Our services include site surveys and evaluations to identify suitable locations for various projects based on proximity to necessary resources, transportation infrastructure, and logistical considerations.

Collaborating with architects and engineers to design structures optimized for operational efficiency and environmental sustainability.



A photograph showing several people's hands and arms gathered around a table, looking at and pointing to architectural blueprints. A smartphone and some drafting tools are also visible on the table. The image has a blue tint.

# ENGINEERING MANAGEMENT

Vanguard O Plus excels in delivering top-notch engineering management services, ensuring that projects are executed seamlessly from conception to completion.

our engineering management services are designed to ensure the highest efficiency, quality, and cost-effectiveness throughout every stage of your project

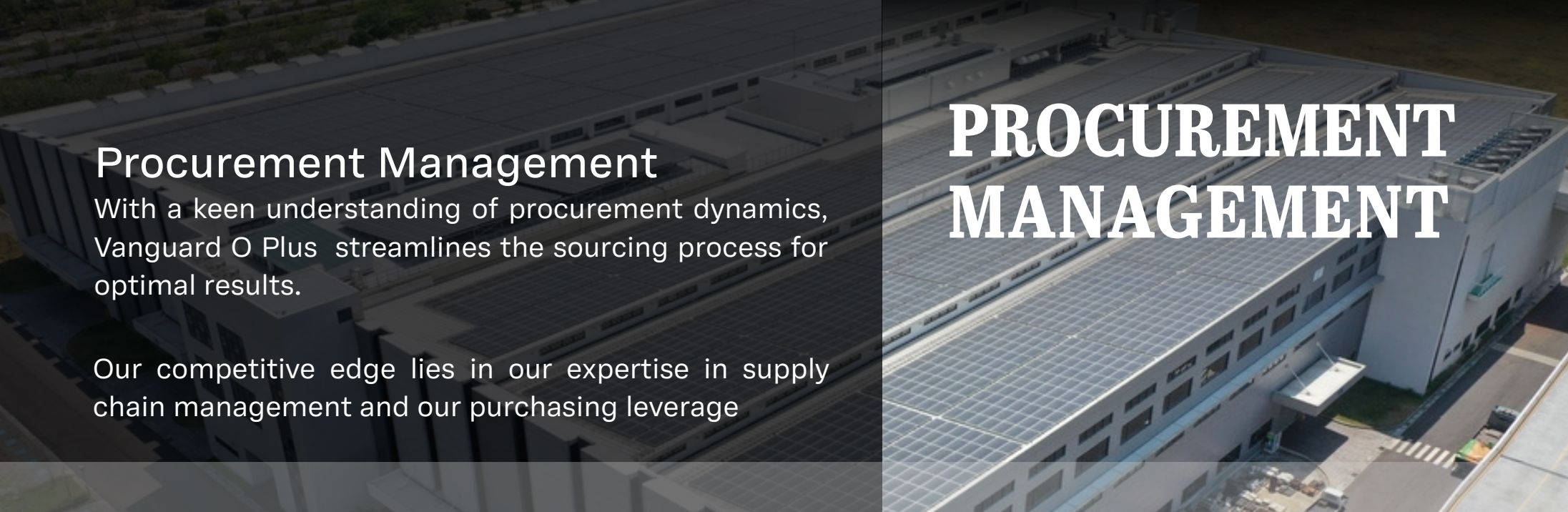
## Engineering Management

**Our experienced** team harnesses the power of innovation to address complex challenges, always aiming for efficiency and sustainability Through services including :

- DESIGN MANAGEMENT
- DESIGN REVIEW
- VALUE ENGINEERING
- CONSTRUCTION MANAGEMENT
- INTEGRATING ENERGY EFFICIENCY & SUSTAINABILITY IN PROJECT DESIGN

**Our approach** is characterized by a steadfast commitment to quality and a forward-thinking mindset, ensuring we deliver solutions that meet the needs of our clients





## Procurement Management

With a keen understanding of procurement dynamics, Vanguard O Plus streamlines the sourcing process for optimal results.

Our competitive edge lies in our expertise in supply chain management and our purchasing leverage

# PROCUREMENT MANAGEMENT

Our procurement management services encompass strategic sourcing, supplier evaluation, and contract negotiation, all designed to maximize value for our clients ensuring supply chain reliability and adherence to schedules.

Our local procurement experts engage in negotiations to secure contracts that guarantee timely availability of essential materials and equipment on-site, providing you with the confidence that your project will be delivered within the designated timeframe.



Our unparalleled experience empowers us to provide comprehensive project management services with unmatched expertise



Vanguard O Plus provides end-to-end engineering management solutions, overseeing projects from conceptualization to completion.



Our experienced team meticulously plans, coordinates, and executes engineering tasks, ensuring that each phase aligns seamlessly with project objectives.

# PROJECT MANAGEMENT







We provides tailored services to optimize your project's operations.

Whether it's sourcing the most capable and competitive contractors and design and engineering consultants, or managing design changes to align with budgetary goals, we are dedicated to your ultimate success.



# ENERGY MANAGEMENT AND AUDITING

## Energy Management and Auditing

Vanguard O+ is committed to creating energy-efficient environments that optimize functionality while promoting sustainability.

Our energy management and auditing services help facilities enhance performance, reduce operational costs, and minimize carbon emissions, all while contributing to global efforts to combat climate change.



# TURNKEY SOLUTIONS



At Vanguard O+, our Elevate Special Projects service offers comprehensive turnkey solutions tailored to the unique needs of each client. We take full responsibility for the entire project lifecycle, delivering a seamless and hassle-free experience by managing every phase—from initial concept through to final execution and delivery.

Our turnkey solutions ensure that all aspects of your project are meticulously planned and executed, allowing you to focus on your core business while we handle the complexities of design, construction, and implementation.

## KEY COMPONENTS OF OUR TURNKEY SOLUTIONS INCLUDE:

- CONCEPTUAL DESIGN AND PLANNING
- PROCUREMENT AND SUPPLY CHAIN MANAGEMENT
- COMMISSIONING AND HANDOVER
- ENGINEERING AND DESIGN MANAGEMENT
- CONSTRUCTION MANAGEMENT

By offering a single point of contact throughout the entire project, Vanguard O+ minimizes risk and guarantees that every detail is handled with precision and professionalism. Whether it's a complex industrial facility, a large-scale logistics center, or an innovative energy project, we deliver turnkey solutions that exceed expectations.



# **CONSULTANCY REFERENCE PROJECTS**





## Establishment of a Dry Port and Logistics Center in Shaq El-Thuaban

**CLIENT**  
Ministry Of Transportation

## Consultancy Services PPP Consultancy

- ☒ Preparation of an executive summary on the Egyptian marble and granite sector and the expected volume of goods in the Shaq El-Thuaban area.
- ☒ Preparation of the terms of reference contract draft and tender documents for the project of establishing a dry port and logistics center in the Shaq El-Thuaban area under a public-private partnership system.
- ☒ Preparation of a model for partnership agreement and its annexes.
- ☒ Providing technical support for the work of the specialized committees in the tendering process, studying offers, evaluation, and award, up to the completion of the contract with the winning bidder throughout the period according to the progress of work.



## Establishment of dry port and Grain Storage Center and Agricultural Industrial

**CLIENT**  
Orchid Logistics

## Consultancy Services PPP Consultancy

The project involves the development of a grain storage center and an agricultural industrial complex by Orchid Logistics in Sadat City, Egypt.

The center will handle imported grains and feed materials, especially from the Black Sea region, through Egyptian ports on the Mediterranean Sea. **Key features include:**

- ✓ **Grain Storage:** Capacity of 300,000 metric tons in steel silos and flat warehouses.
- ✓ **Edible Oil Tanks:** Capacity of 95,000 metric tons.
- ✓ **Value-added Services:** Milling, roasting, weighing, and packaging.
- ✓ Processing plants and agricultural industrial facilities.
- ✓ Customs yard and logistics areas.



## CONSULTANCY SERVICES INCLUDE:

### ✓ **MARKET STUDY:**

Analysis of storage capacities, market insights, and industrial challenges in Egypt.

### ✓ **FEASIBILITY STUDY:**

Verification of logistics, technical, and economic feasibility, equipment recommendations, and financial model development.

### ✓ **MANAGING AND DRAFTING PROPOSAL FOR PPP TENDER**





## NOVA (Jan.2024 – Dec.2024)

**CLIENT**  
Ecologi



Consultancy Services  
Design Review & Optimisation of  
MEP Systems .

# Scope of Work (Jan.2024 – Dec.2024)

- ☑ I. Conducting a design review and optimising the MEP systems for the Nova factory, which includes an admin building and a production area equipped with sheet metalworking equipment.
- ☑ II. Focusing on the specific requirements of the Laser machine room within the production area, which necessitated specialised air conditioning, ventilation, and exhaust air systems.
- ☑ III. Studying the operation of the laser machine to calculate the required ventilation for maintaining indoor air quality within acceptable ranges to ensure worker safety.
- ☑ IV. Employing the design thinking process to approach the project, as follows:
  1. Empathise: Understanding the challenges faced by the owner and the implications on different areas.
  2. Define the Problem: Conducting a workshop with the manufacturing machine supplier, project owner, and consultant to clearly define the requirements of the machine room and design accordingly.
  3. Ideate: Designing a solution for the room, iterating on the design and machine selection to achieve the most suitable and financially feasible solution.
  4. Prototype and Test: Delivering the solution to the site and collaborating with the supplier to test it thoroughly.





## STRENGTHENING STRATEGIC WHEAT RESERVE IN EGYPT (2023)

### OWNER

Egyptian Holding Company for Silos and Storage (EHCSS) – Ministry of Supply and Internal Trade (MoSIT).



Projects granted by : European Investment Bank (EIB)

Project Main Consultant : Agence Francaise de Development (AFD)

Establishing 6 new Silos projects with a total Storage capacity of 420,000 tons ((%12 of the existing storage capacity of GoE

## Consultancy Services “Market Study & Logistics Chain” Scope of Work (Sep.2022 – Mar.2023)

- ☑ I. Assessing relevance and consistence of wheat storage needs identified in regards to address the situation in a short term and longer-term perspective.
- ☑ II. Defining specific objectives and related outputs and outcomes to assess vulnerabilities, risks and bottleneck that affect the wheat supply at both international and national levels.
- ☑ III. Ensuring consistency and complementary of the objectives and the outputs with other projects supporting the development of wheat storage facilities.
- ☑ IV. Defining and detailing the components and activities and duration for implementing the project.
- ☑ V. Establishing the logical framework of the project from the indicative one and the relative monitoring and evaluating system including indicators;
- ☑ VI. Providing an Environmental and Social Management Framework, proportionate to the E&S risks identified and complying with the AFD E&S standards;
- ☑ VII. Identifying the contribution of the project climate co-benefit.
- ☑ VIII. Assessing the operational modalities to define roles and capacities of the stakeholders at various levels of the wheat value chain (purchase, collect, storage, processing, and market distribution).
- ☑ IX. Defining the institutional and operational framework for project implementation, including a tentative organogram of the PMU and decentralized/local partners.
- ☑ X. Establishing a preliminary financing plan and estimates for the projects' CAPEX and OPEX.



## FIELD AND STORAGE SILOS (2019-2020)

### OWNER

Egyptian Holding Company for Silos and Storage (EHCSS) – Ministry of Supply and Internal Trade (MoSIT).

**PROJECTS GRANTED BY :** World Bank, OPEC and UAE.

**Wheat Filled Silos;** Establishing 11 new projects with a total storage capacity of 600,000 Tons.

**Wheat Storage Silos/Hubs);** Phase One :Establishing 8 new projects with a total storage capacity of 530,000 tons , and expanding 2 existing projects with an additional capacity of 70,000 tons.

**PHASE TWO :** Establishing 7 new projects with a total storage capacity of 465,000 tons, and expanding 6 existing projects with an additional capacity of 170,000 tons.



# Consultancy Services “Market Study & Logistics Chain” Scope of Work (2019 - 2020)

- ☑ I. Analysis of the wheat sector situation in Egypt with regard to the economic and social dimensions in particular to the food security related to the Bread Subsidy Program and evolution of the national demand.
- ☑ II. Analysis of stakeholders involved in wheat storage activities (Government agencies, producers, private sector).
- ☑ III. Consistency of the envisaged project to confirm the wheat storage capacity needs provided by the MoSIT to provide the adequate Preparedness and Response to the food security/ Wheat supply in Egypt.
- ☑ IV. Conceptual design of the investment program: Technical Conceptual Design - Economical & Financial Analysis - Environmental & Social Assessment - Project Structuring - Assessment of Needs for Capacity Building within EHCSS.





## NILE STEVEDORING AND STORAGE COMPANY (NSSC) (2010)

### OWNER

ADM/Medsofts & Wadi Group



Grains & Feed Materials Transshipment Operations (floating ship-unloader at Alexandria port inner anchorage, Discharging Capacity 600 Tons /Hour.

Inland Grains Terminal: 2.5 Km away of Alexandria port via Nubareya canal.

Storage Capacity: Steel silos 120,000 tons, Flat Warehouses 100,000 tons.

# Consultancy Services “Market Study & Logistics Chain” Scope of Work (2010)

- ☒ I. Validation of total grains and feed materials' imports forecast for Egyptian markets based on historical country statistics (production, consumption, and GDP and population growth).
- ☒ II Assessment of the complete logistics chain to identify the maximum achievable throughput with the proposed alternatives of discharging & handling equipment and storage capacity.
- ☒ III. SWOT/ competitive analysis of the existing Grains & Feed Materials terminals/stevedores at Dekheila and Alexandria ports to determine the project's value proposition in terms of services and tariffs.
- ☒ IV. Determination of the project's feasible market capture based on the targeted major customers' shares shifts.
- ☒ V. Validation of the overall logistics chain for the project in terms of the designated range of vessels, discharging rates, barge cycle time, required number and capacity of the shuttling barges, and the layout & flow scheme for the inland (river) terminal in terms of storage capacity and handling rates.
- ☒ VI. Recommendations of the most suitable handling equipment for the port transshipment operations and the inland (river) terminal.
- ☒ VII. Estimates for the project's CAPEX and OPEX, and projected financial statements & ratios (Income statement, cash flow statement, IRR, payback period).





**Vanguard 0<sup>+</sup>**  
business solutions

