

# Process & Handling Engineering

Your Project Partner

COMPANY PRESENTATION



# Company profile

<b>Raison Social</b>	<b>: P&amp;H Engineering.</b>
<b>Year of Foundation</b>	<b>: 2006</b>
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<b><i>Registre de commerce (RC)</i></b>	<b>: 13869</b>
<b><i>CNSS N°</i></b>	<b>: 7263479</b>
<b><i>Patente N°</i></b>	<b>: 39570335</b>
<b><i>Identifiant Fiscal (IF)</i></b>	<b>: 2261437</b>

# Business Fields

**P&H Engineering was founded in 2006. The experience gained during many years of activity enables the company to offer to its customers a highly qualified assistance in the following fields:**

- Mining and ore Treatment.
- Materials handling (phosphate, sulphur, coal, iron ore)
- Shipping facilities for loading and unloading bulk materials
- Chemical Industry (mainly for phosphoric acid, sulphuric acid and fertilizers)
- Energy efficiency
- Oil & Gas (Refining, LNG and GTL plants, LPG and LNG receiving Terminals...)
- Industrial Gases
- Storage tanks for oil & gas industry
- Pressure vessels for oil & gas industry
- Environmental protection (water treatment, dedusting systems,...etc.)

# SCOPE OF SERVICES

**Wide range of services can be provided by P&H Engineering. Among them we find:**

- Feasibility studies and cost estimates
- Consultancy
- Basic and detailed Engineering
- Revamping, extension of existing facilities.
- Technical assistance, support and coordination.
- Commissioning and Start up
- Trouble shooting

# Human resources & Software

## Human Resources:

- 3 Engineers
- 4 technicians and Cad operators
- Network of agreed Engineers & Cad designers (10 people)

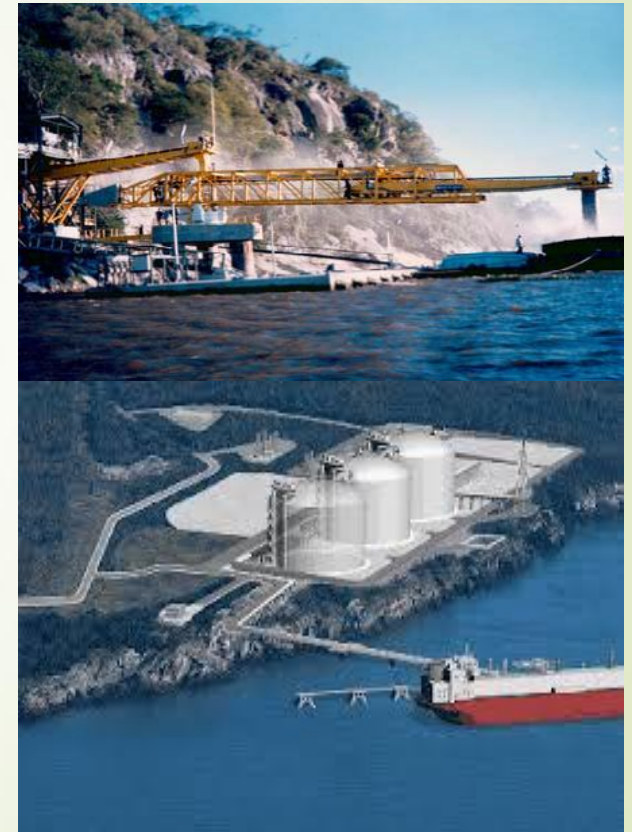
## Software:

- PV ELITE (PRESSURE VESSELS)
- TEKLA (DESIGN for STEEL STRUCTURE)
- TANK (STORAGE TANKS)
- AUTOCAD
- SOLID WORKS
- ISO PIPE (PIPING)
- ROBOT ( STEEL & CONCRETE STRESS ANALYSIS)
- CAESAR ( PIPING STRESS ANALYSIS)
- ANSYS FLUENT (CFD and Heat Exchange)
- HYSYS (Process Simulation)

# Engineering, Design & Consulting



- Bulk Materials Handling Systems
- stockyards, Belt conveyors
- Crushing & Screening stations
- LNG receiving terminals
- LPG receiving Terminals
- Petroleum Products Terminals
- Refining & petrochemical plants
- Air Separation Units
- Storage tanks,
- Pressure vessels & Piping
- DCS Control systems & Supervision



# Services

- Feasibility studies and cost estimates
- Consultancy
- Basic and detailed Engineering
- Design of new plants
- Revamping & extension of existing facilities.
- Technical assistance and coordination
- Energy Efficiency assessment and optimization
- Trouble shooting and Advanced process control systems



# Business fields

- Cement plant Sugar Industry
- Mining
- Industrial Gases
- Oil & Gas plants
- Power Plants
- Ports



## Among our Customers

- OCP Groupe SA Morocco
- Groupe Lafarge Ciments
- SANDVIK Sweden
- Cargotec Finland
- PHB Spain
- HATCH Canada
- BMA Germany
- Claudius Peters France
- SNIM Mauritania
- SAMIR Refinery Morocco
- AKWA Group Morocco
- Maghreb Oxygène Morocco
- Afriquia Gaz Morocco
- VIVO Energy



## An overview of our partners

- SOFREGAZ (France)
- Air Liquide Services (France)
- Heymo Ingeneria (Espagne)
- Cargotec/Siwertell (Finland)
- Sandvik (Sweden)
- Noksel (Spain)
- Cegelec (Vinci Group)
- SCIF (Morocco)
- Five Cail Babcock (FCB Group, France)
- Neyrtec Minerals (France)
- ...



# Detailed Services by Business Field

## Mining and ore Treatment:

- Feasibility studies identifying options and costs.
- Flow sheet diagrams
- Basic design
- Detailed engineering
- Preparation of tender documents
- Report on tenders
- Preparation of contract
- Construction supervision



# Detailed Services by Business Field

## Materials handling Systems (phosphate, sulphur, coal, iron ore)

- Feasibility studies identifying options and costs.
- Flow sheet diagrams
- Basic Design according international codes & standards (ISO 5048, CEMA)
- Detailed engineering
- Preparation of tender documents
- Report on tenders
- Preparation of contract
- Construction supervision



# Detailed Services by Business Field

## Shipping facilities for loading and unloading bulk materials

- Feasibility studies identifying options and costs.
- Flow sheet diagrams
- Basic Design according international codes & standards (ISO 5048, CEMA)
- Detailed engineering
- Preparation of tender documents
- Report on tenders
- Preparation of contract
- Construction supervision



# Detailed Services by Business Field

Chemical Industry mainly for phosphoric & sulphuric acids and fertilizers:

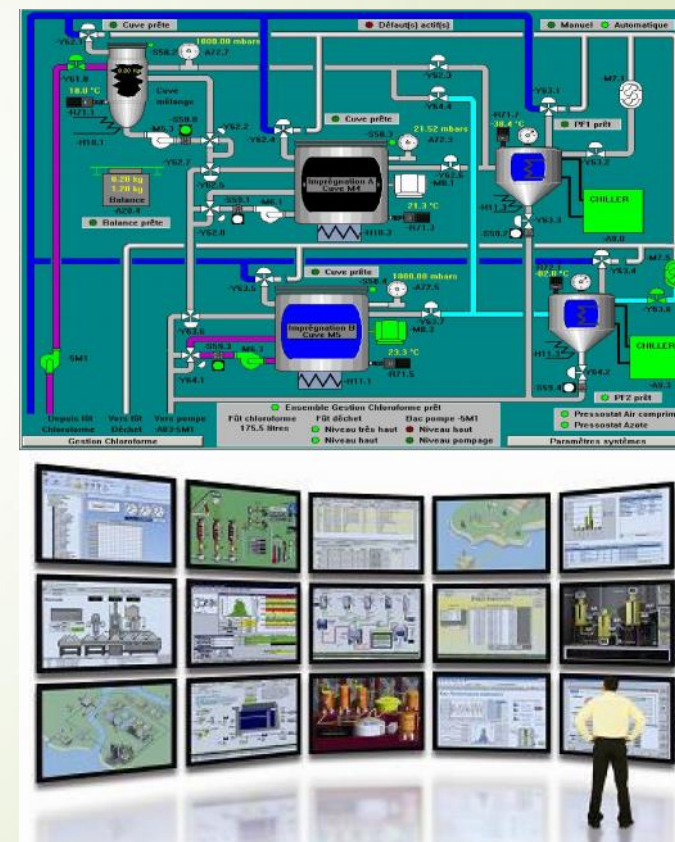
- Flow sheet diagrams
- Basic design
- Detailed engineering
- Preparation of tender documents
- Report on tenders
- Preparation of contract
- Construction supervision



# Detailed Services by Business Field

## Energy efficiency and optimization

- Remote Supervision and Monitoring Systems (SCADA...)
- Production review and evaluation
- Process control philosophy review and analysis
- Optimization action plan identification and implementation
- Design and tuning of Intelligent and Advanced control loops
- DCS implementation of Multi-Variable Predictive Control Systems (MVPC)
- Increase of products recovery
- Operational procedures review
- Operations team Training



# Detailed Services by Business Field

## Refining, LNG and GTL plants, LPG and LNG receiving Terminals...)

- Feasibility study
- Basic design
- Process design (Flow sheets, P&ID, equipment design and sizing...)
- Owners engineering and contractors management
- Cost estimate (CAPEX and OPEX, Business plans...)
- Permitting (Environmental Study and acceptance, Construction permit...)
- Preparation of tender documents
- Report on tenders
- Preparation of contract
- Construction supervision
- Commissioning and start up



# Detailed Services by Business Field

## Industrial Gases

- Feasibility study
- Basic and detailed design of Cryogenic Air Separation Units
- Process design (Flow sheets, P&ID, equipment design and sizing...)
- Owners engineering and contractors management
- Cost estimate (CAPEX and OPEX, Business plans...)
- Preparation of tender documents
- Permitting (Environmental Study and acceptance, Construction permit...)
- Report on tenders
- Preparation of contract
- Construction supervision to Commissioning and start up
- Operational procedures
- Process control philosophy, design, implementation and tuning.



# Detailed Services by Business Field

## Storage Tanks for oil & gas industry

- Basic Design according international codes & standards (API, ASME, CODERES)
- Detailed engineering
- Preparation of tender documents
- Report on tenders
- Preparation of contract
- Construction supervision



# Detailed Services by Business Field

## Pressure vessels & Piping

- Basic Design according international codes & standards (ASME, CODAP)
- Detailed engineering
- Preparation of tender documents
- Report on tenders
- Preparation of contract
- Construction supervision

