ELECTRICAL AND AUTOMATION SYSTEMS



Pre-engineering studies Project management

Electrical Design Plant automation design Instrumentation

Procurement and manufacturing of electrical equipments

Electrical Installation works Site supervision Commissioning and start-up

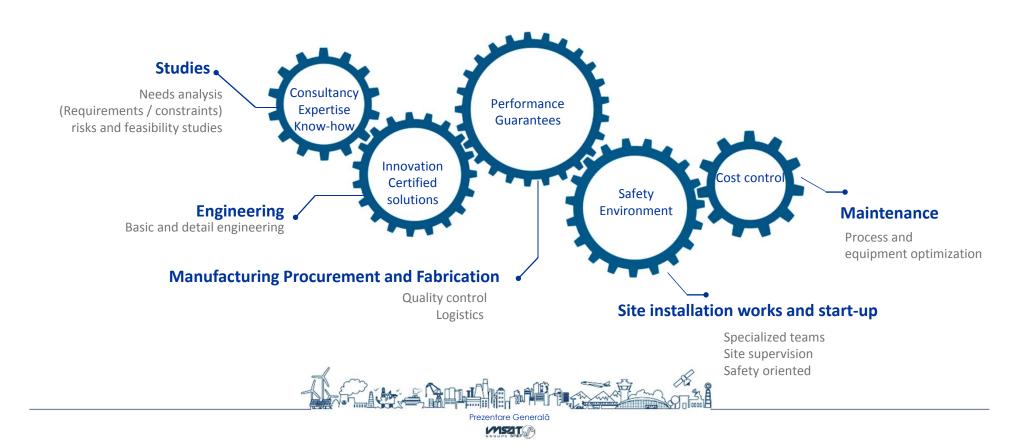
Electrical room arrangement, design and installation of auxiliary systems (HVAC, Fire detection, CCTV)





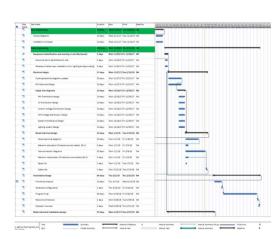
IMSAT: Delivering full product lifecycle of Electrical and Automation Projects

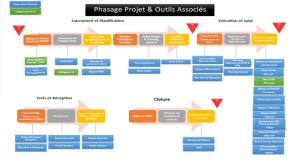
From basic studies to plant operation



Project Management







Reference Projects:

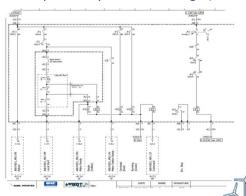
- LH VOLSK (Russia)
- LH Mbeya (Tanzania)
- BMIC (Egypt)
- LH EWEKORO (Nigeria)
- CB (Reunion Island)
- CRH (Slovakia)



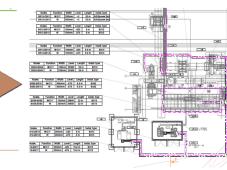
Complete Engineering Services

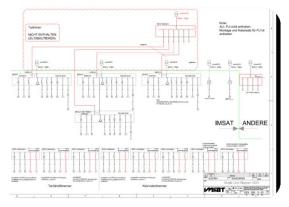
Experience in delivering complete engineering services:

- Basic engineering studies
- Detailed engineering studies
- Calculations
- Interdisciplinary engineering (electrical, automation, process)
- Electrical design
- Automation design
- Cabling & Installation design
- Lighting, grounding and lightning protection
- Special requirements design (ATEX, GOST)









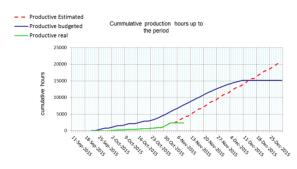


Complete site supervision services

Experience in delivering complete site services:

- Site administration
- Works supervision
- Safety management
- Logistics and site administration
- Planning, Scheduling and Quality control











Electrical Design, Procurement and Installation-High voltage distribution substations











Systems

- Schneider
- SIEMENS
- ABB
- OEM

Competences

- Engineering and Network calculation
- Equipment Design
- Procurement
- Installation
- Commissioning and start-up



Electrical Design, Procurement and Installation-Medium voltage distribution substations





References

- LafargeHOLCIM VOLKS (Rusia)
- BMIC Egypt
- CEMROM Constanta
- HOLCIM Campulung





Systems

- Schneider
- SIEMENS
- ABB
- OEM





Competences

- Engineering and Network calculation
- Equipment Design
- Procurement
- Installation
 - Commissioning and start-up



Prezentare General

Electrical Design, Procurement and Installation-Low voltage distribution systems





References

- LafargeHOLCIM VOLKS (Rusia)
- BMIC Egypt
- EWEKORO Nigeria
- PLN (France)
- HOLCIM (Romania)





Systems

- Widthdrawable (Schneider, Siemens, Kubik, Eaton, ABB)
- Fixed systems
- Main distribution panels
- Auxiliary distribution panels
- Frequency drives







Competences

- Engineering and Network calculation
- Equipment Design
- Procurement
- Installation
 - Commissioning and start-up

Prezentare Generală



Plant automation-Hardware design













Systems

- SIEMENS
- ROCKWELLL
- SCHNEIDER

Competences

- Control and automation panel equipment Design
- Industrial Networks
- Process computers
- Control rooms
 - Commissioning and start-up



MSZIT

Plant automation-Hardware design









Systems

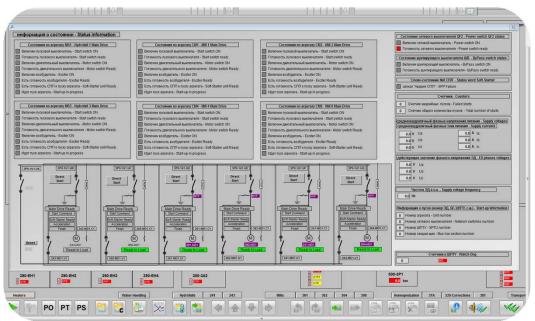
- SIEMENS
- ROCKWELLL

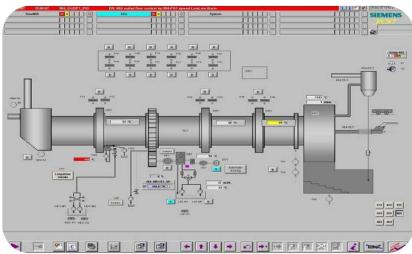
Competences

- Control and automation panel equipment Design
- Industrial Networks
- Process computers
- Control rooms
 - Commissioning and start-up



INSAT





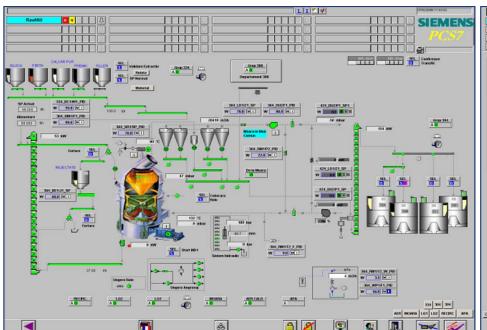
Platforms:

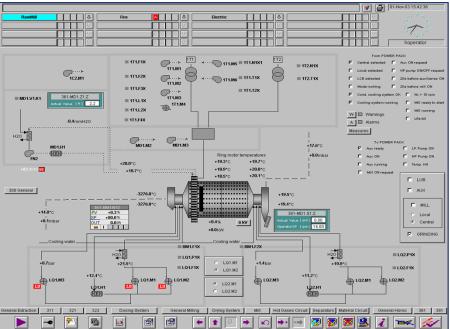
- SIEMENS (WinCC, Step7, PCS7, TIA)
- ROCKWELLL Allen Bradley



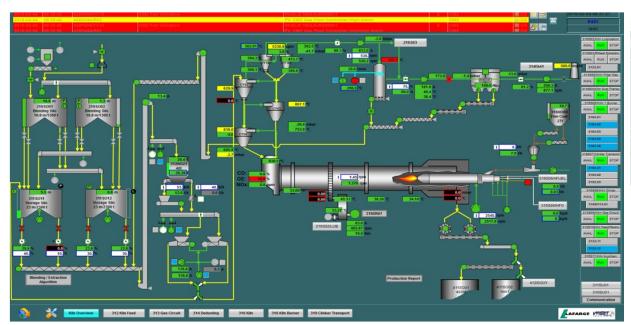
Competences

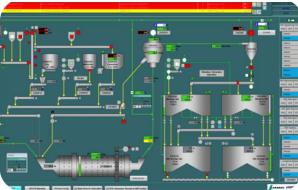
- Configuration and programming
- Process optimization
- Process SCADA
- Electrical SCADA
- Commissioning and start-up

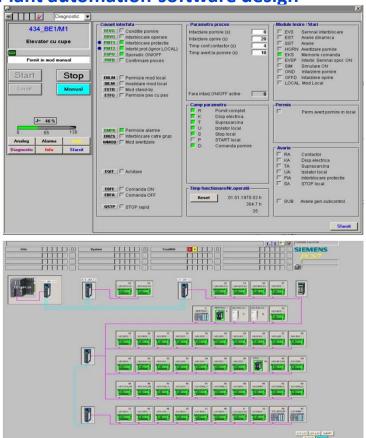


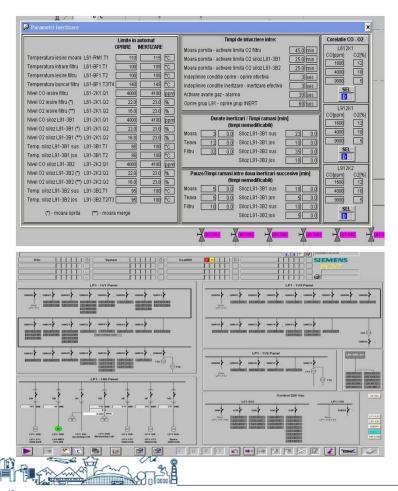














Electrical installation works

















Business areas

- Industry
- Oil &Gas
- Marine (oil platforms)
- Nuclear
- Automotive

Ability to perform all site activities with own qualified personnel!



Competences

- Electrical equipment installation
- Cable installation
- Instrumentation installation
- Tests, Commissioning and start-up

MSAT

Special Installation works















Instrumentation installation

Wiring, tests and calibration

Process connection (Instrument piping)

Business areas

- Industry
- Oil &Gas
- Marine (oil platforms)
- Nuclear
- Automotive

Ability to perform specialized installation in high quality demand projects (nuclear, oil&gas, marine)



Competences

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Special equipments design and manufacturing (E-Room Containers)













Business areas

- Industry
- Oil &Gas
- Marine (oil platforms)

Ability to deliver customized solutions for special applications!



Competences

- Mechanical design
- Fabrication
- Integration of electrical equipment
- Logistics

MSAT P

Auxiliary equipments for industrial facilities













Business areas

- Industry
- Commercial
- Public buildings

Plant design is completed up to the auxiliary systems.



Competences

- Engineering and design oh HVAC Systems
- Engineering and design oh Fire detection systems
- CCTV
- Access control

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Electrical room arrangement













Business areas
Industry

Plant design is completed up to the auxiliary facilities

Competences

■ Engineering for Electrical Rooms and control Rooms



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Project : Refinery DGO5 - TOTAL RN - Le Havre, France

Pictures from site erection period:

Key figures

Description	U.M.	Quantity
Erection cable tray	Km	>3.9
Erection of piping and tubing	Km	>4
Connections of pipings	pcs.	>1000
Installing of El devices	pcs.	>250
Installing of electrical ground	m	>3000
	pcs	>2800
Laying Cables	m	>1000
Cable connections	pcs.	>1450





























Project : Platform offshore AGMN for Anguille – GABON (EIFFAGE)

Pictures from site

Key figures

1 to y ligaroo		
DESCRIPTION	M.U.	QUANTITY
*Cable trays stainless steel	m	3.300
* Laying Cables	m	55.000
* Cable connections	pcs	2.928
* Instrumentation devices	pcs.	525
* Lighting fixtures	pcs.	107
* Alarm system	pcs	24
* System fire and gas	pcs	36
* Communication system	pcs	5
Tubing systems (hydraulic, gas-lift and injection)	m	9.500























Project : Platform offshore OFQ for OFON2 - NIGERIA (EIFFAGE)

Pictures from site

Key figures

DESCRIPTION	M.U.	QUANTITY
*Cable trays stainless steel	m	8.066
* Laying Cables	m	65.325
* Cable connections	pcs	1.669
* Instrumentation devices	pcs.	525
* Lighting fixtures	pcs.	1.141
* Communication system	pcs	6
* Electrical devices	pcs	1 26











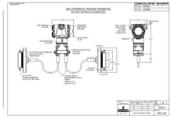












Project : Phosphate Mines Co., Jordan (SNC Lavalin)
Pictures from site erection period:



















Project : Arpechim Pitesti, Romania Pictures from site erection period:











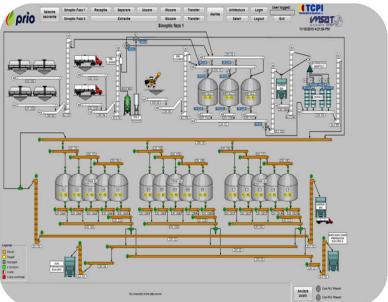






Project : Biodiesel Plant – TCPI Lehliu – Romania Pictures from site erection period:







Project : Platform Ponticelli-Nigeria Pictures from site erection period:















Project : Wet Flue Gas Desulphuration ROMANIA

















References















































GEICOTAIKI-SHA





































MICHELIN

























Key figures







+30



rs Mil. Euros

Turnover (2017)

employees

Agencies and headquarters



+1000

customers



MSAT

Certifications

• ISO 9001 – from 1999







- ISO 14001 from 2004
- OHSAS 18001 from 2004
- SA 8000 from 2015
- ISO/CEI 27001 from 2009





Others







IGSU











CNCAN

ANRSC

ISCIR

ANRE

INSEMEX

AFER

AACR

