

**AGS Protección, Medida & Control, S.L.**  
**International Company Solutions and Electrical  
Global Services**



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## 1. COMPANY HISTORY

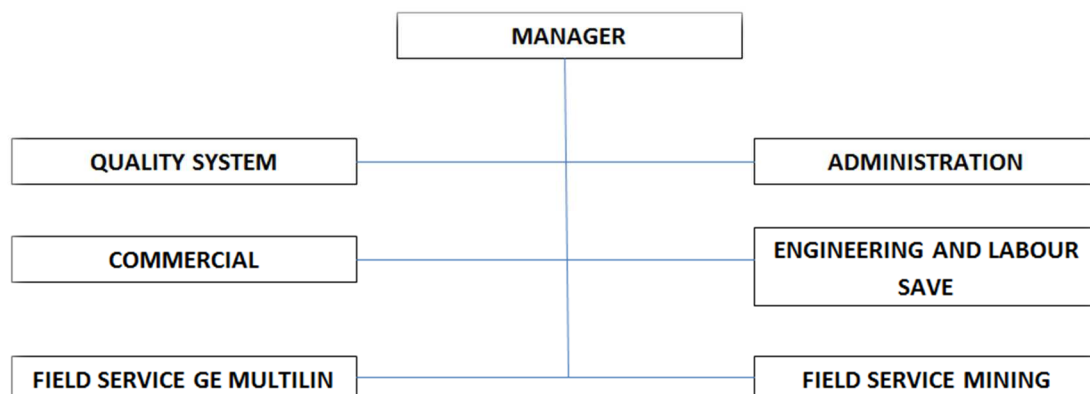
Our company started as a Society in 2000, but before its founder Andres Garcia had held as Technical Sales Representative Manufacturers such as General Electric, Artech, etc. ..., since 1994. Doing all sorts of features on the technical and commercial, there was soon to surround yourself with a team to give technical and commercial support to have the service quality as a first priority, this required highly qualified personnel and training to get ahead of the Market demand. Other manufacturers, Energyst CAT Rental Power, Lapp Kabbel, etc saw the effectiveness of our work and over the years we have incorporated firms that complement our portfolio of services and trends incorporating eco-efficiency and sustainability.

In 2004, our company extended more services for International Commissioning hand in hand with General Electric, and little by little we gain experience in power plants and electrical substations.

Thanks to the effectiveness shown for years to market with the services provided by AGS, in 2005 during Hurricane Delta hit the Canary Islands, ENDESA UNELCO entrusted AGS and ENERGYST Cat Rental the urgent Power Supply and replacement of Energy in all those municipalities that had been isolated from the Electric System, carrying out successfully all work and with an incidence of 0 accidents. AGS PMC Installed and maintenance during 5 years 80 MW in Generators 2,5 MW each in all the Canary Islands This project lasted 2 years, catapulted AGS as a company technically effective and quality recognized by all for his passionate dedication to any project of any size.

In 2009 we further diversified services to the general electricity sector. In 2011 we have consolidated into two main areas, National and International services to Power Plant and Commissioning and Start Up's with General Electric.

## 2. CHART



### 3. OUR MISSION

**Our Mission to our represented** is to let everyone know all its available solutions, increase the business volume with prestigious projects, getting more profitable the Canarian market and gain trust of all customers with the brand.

**Our task in Field Service** is to Verify, Calculate and Perform the testing protocols with the right tools for the installed protections on any Power Plant or Substation will be ready to come in service anywhere in the world.

**Our Organization** performs technical and commercial advice for any low and medium voltage (until 72 kV) appliance.

**Our Offer** includes a wide array of services and products that cover all of the support requirements for electrical installations.

### 4. CUSTOMERS DEMAND

- Demand approach and after sales service by the manufacturers.
- Transparency in service.
- Improve on Efficiency vs. Cost ratios.
- Need to have a single source with global solutions that are integrated as one in the project.
- In today's market it's ESSENTIAL to provide service and technical support to customers with an fast solution, due to high competition.

## 5. WHAT WE OFFER

The main activities of PMC AGS, SL, at LV and M. T electrical installation configurations

- Electrical power installations and lighting
- Facilities turnkey industrial buildings
- Expansion and reform of industrial
- Rush main feeds
- Adequate and reforms of all kinds of electrical
- Power factor correction
- Installation of telephony, voice and data
- Installation and verification Fire Systems
- Land net, Telecommunication.
- Commissioning and Start Up's

Building Workshop Electrical Boards. (800 m2)

- Protection and Control Panels
  - Integrated Racks
  - Cases of Auxiliary Services of AC and DC
- Distribution Boards for all types of facilities
- Motor Control Centers
- Communications Panels

Technical Assistance to engineering.

- ✓ Close collaboration for studies perform.
- ✓ Technical Advice.
- ✓ Guaranteed response time.
- ✓ Technical islands residents with total geographic mobility.
- ✓ Visit to the building works
- ✓ After Sales Services

Commercial and technical advising to Power Plants, distributors and installers.

- ✓ Closely work with the distributors and installers..
- ✓ Retrofits technical advice in Power Plants, updating and adapting discontinued equipment for new contacts and programming.
- ✓ Guaranteed response time adapting to the needs of Power Plants.
- ✓ Technicians and commercials islands residents..

TECHNICAL ADVICE AND COMMERCIAL TO DISTRIBUTION STORES AND INSTALLERS.

- ✓ Working closely with the Distribution Companies and installation companies.

- ✓ Advices.
- ✓ Guarantee response time.
- ✓ Technical and commercial island residents.
- ✓ After Sales Service

## ON SITE SERVICES

24x7 Emergency care

Advice

Solution to different problems that may arise.

Other engineering services:

- Department of studies and consultations
- Review and update documentation with “on site” data

collection facilities

- Delineation of external work (electrical, electromechanical and civil).
- Legalization of all projects

## **6. FIELD SERVICE DEPARTMENT**

What we do...

COMMISSIONINGS AND START-UP's OF PROTECTION AND CONTROL SYSTEMS IN ELECTRICAL DISTRIBUTION SUBSTATIONS, POWER PLANTS AND MAJOR ENERGY CONSUMERS AND PRODUCERS.

What we offer...

- ✓ Guarantee response time.
- ✓ Technicians with total worldwide geographic mobility and availability.
- ✓ Continuing Education in factory and field.
- ✓ After Sales Services.

## ON-SITE SERVICES

- ✓ 24x7 Emergency Care.
- ✓ Advice.

Solution to different problems that may arise.

Our task in Field Service is to Verify, Calculate and Perform the testing protocols with the right tools for the installed protections on any Power Plant or Substation will be ready to come in service anywhere in the world.

## **7. HEALTH AND SAFETY**

### STATEMENT OF PRINCIPLES

In order to ensure the safety of each and every one of its employees and subcontractors, AGS PMC SL has established a Management System Occupational Health and Safety, which minimizes accidents by detecting risk situations that arise through the application of appropriate techniques and implementation of corrective actions where necessary and possible. This will reduce both the injuries and losses that may accompany materials. The Prevention Plan thus conceived is everyone's task, on the part of management and controls, the leadership of the effort and operators, compliance with all standards of work to be told, as well as possible improvements to jobs become more secure.

The direction, taking responsibility in the policy of prevention of occupational hazards, is committed to providing adequate resources for the proper conduct of the Prevention Plan, to spread to all staff and their enforcement. For this purpose, no doubt counting on the collaboration of each and every one of those who form the company.

## **8. AGS ENGINEERS**

- ✓ High training level for all our engineers in the entire range of our products in our portfolio.
- ✓ Immediate reaction with response times tailored to the needs of our customers, 24x7 coverage.
- ✓ Total worldwide geographic mobility and availability.
- ✓ Continuing Training in factory and field.
- ✓ Experience.



## 9. TECHNICAL EQUIPMENT

AGS has the tools with the latest technology to perform field service, from injection tools (Omicron) to measuring equipment (network analyzers, flukes ...), which are calibrated annually for correct operation.



DESCRIPTION	Qt
UR RELAY	1
F650 RELAY	1
F600 REMOTE	2
DMS RELAY	1
BASIC MULTIMETER	1
OVERVOLTAGES PROTECTION FOR PC'S	2
DAC 300 CONVERTER	2
F485 CONVERTER	2
TRI-PHASE OMICRON CMC 156	2
SIX-PHASE OMICRON CMC 356	1
GRIMPADORA	3

DESCRIPTION	QUANTITIES
SAFETY CASE	3
PLASTIC TOOL CASE	1
CLAMP METER + MULTIMETER KIT	5
1000V WERA INTERCHANGEABLE SCREWDRIVER SET	5
1000V 210mm CUTTER	4
DIAGONAL PLIER 180 mm	1
UNIVERSAL PLIER 160mm, 1000V	5
FLAT MOUTH PLIER 160mm, 1000V	5
ELECTRICIAN SCISSORS 130mm, 1000V	5
SLIP JOINT PLIERS 1000V	1
FEMALE/FEMALE ADAPTER, 4mm, RED	45
FEMALE/FEMALE ADAPTER, 4mm BLACK	44
CROCODILE CLIP IEC 1010, 4mm, RED	18
CROCODILE CLIP IEC 1010, 4mm, BLACK	13
FLEXIBLE SOUNDER HOOK, 4MM, RED	26
FLEXIBLE SOUNDER HOOK, 4MM, BLACK	21
RIGIDE SOUNDER HOOK, BLACK	3
MALE ADAPTER CONNECTOR, 1.60mm, RED	68
MALE ADAPTER CONNECTOR, 1.60mm, BLACK	38
MULTICONTACT MALE ADAPTER CONNECTOR	13
FORK TERMINAL, 4mm, BLACK B4-I/KS	40
FORK TERMINAL, 4mm, RED B4-I/KS	60
HIRSCHMANN TEST LEADS WITH "BANANA" TIP, 32A, SILICON, BLACK L=200	32
HIRSCHMANN TEST LEADS WITH "BANANA" TIP, 32A, SILICON, RED L=200	22
HIRSCHMANN TEST LEADS WITH "BANANA" TIP, 32A, SILICON, BLUE L=200	22
HIRSCHMANN TEST LEADS WITH "BANANA" TIP, 32A, SILICON, YELLOW L=200	30
HIRSCHMANN TEST LEADS WITH "BANANA" TIP, 32A, SILICON, GREEN L=200	22
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TEST LEADS WITH SAFETY TIPS, SILICON, RED L=200	18
TEST LEADS WITH SAFETY TIPS, SILICON, BLACK L=200	18
TEST LEADS WITH SAFETY TIPS, SILICON, BLACK L=010	4
MULTILEAD HOSE WITH SAFETY TIPS	2
UNIVERSAL PLUG ADAPTER	5
ETHERNET SWITCH	5
PARALLEL CABLE-USB OMICRON ADAPTER	3



## 10. LABORATORY TEST

AGS has a fully equipped testing laboratory where tests are performed with the devices before work with them on field.



## 11. COMMISSIONINGS



# COMMISSIONINGS AND START-UP'S OF PROTECTION AND CONTROL SYSTEMS

... AGS around the world



... some of the GE Multilin commissionings carried out (GE devices)

- ✓ Commissioning and Start-up of electrical generator protection in Greece



- ✓ Commissioning and Start-up of 5 electrical generator protections in Algeria (Skikda)



- ✓ Commissioning and Start-up of Protection panels for 5 Power Generators of 37 MVA, FPSO Pazflor Corea, for oil extraction and refining



- ✓ Start-up of Protection panel of electrical generator protection in Greve in Chianti (Firenze-Italy)



- ✓ Commissioning and Start-up of electrical generator protection in Massa (Firenze-Italy). PDO SNDC Project



- ✓ Communication of all GE + Siemens relays with Yokogawa FCS system, communication of all input/output signals with FCS as per final mapping register list, redundancy test for CCUs & Ethernet switches, creation of graphics as per the project requirements also Commissioning and setting of protection parameters in the mm300 relay. Oman. Amal Steam Projec



- ✓ Start-up of Protection panel of electrical generator protection in Badajoz (Spain). Astexol 2 Project.



- ✓ Commissioning of Protection panel of electrical generator protection and synchronoscope in Chennai (India). Megha Project.



- ✓ Commissioning and Start-up of a Level 2 and 3 communication system in Chile
- ✓ Communication system commissioning in Montoir (France)
- ✓ Commissioning and Start-up of electrical generator protections in Greece
- ✓ Commissioning of electrical generator protection and synchronoscope in Sevilla (Spain)
- ✓ Maintenance of electrical generator protection and synchronoscope in Equatorial Guinea
- ✓ Commissioning and Start-up of a Level 2 and 3 communication system in Israel

- ✓ Commissioning and Start-up of a Level 2 and 3 communication system in Argentina
  - ✓ Commissioning of electrical generator protection in Como (Italy)
  - ✓ Commissioning of electrical generator protection in Thailand
  - ✓ Commissioning and Start-up of electrical generator protection and synchronoscope in Senegal
  - ✓ Commissioning and Start-up of electrical generator protection in Angola
  - ✓ Commissioning of electrical generator protection in Massa (Italy). PDO SNDC Project
  - ✓ Commissioning of electrical generator protection in Alzate Brianza (Italy)
  - ✓ Commissioning Migration to 101. Lomo Maspalomas Substation. Las Palmas. (Spain)
  - ✓ Commissioning of electrical generator protection in Alrar (Algeria)
  - ✓ Communication system Commissioning in Gasco (Abu Dhabi)
  - ✓ Commissioning of electrical generator protection in Habshan (Abu Dhabi)
  - ✓ Commissioning of electrical generator protection in Greve in Chianti (Firenze-Italy)
  - ✓ Commissioning of electrical generator protection in Massa (Italy). Yibal Project.
  - ✓ Commissioning of electrical generator protection in Massa (Italy). P62 Petrobras Project
  - ✓ Start-Up of electrical generator protection in Massa (Italy). P62 Petrobras Project
  - ✓ Commissioning of electrical generator protection in Massa (Italy). CLOV I Project
  - ✓ Commissioning of electrical generator protection in Massa (Italy). CLOV II Project
  - ✓ Commissioning of electrical generator protection in Alzate Brianza (Italy). P58 & P62 Project
  - ✓ Audit generator electrical line and performed a training on G60 settings and utilization. Senegal.
  - ✓ Commissioning of electrical generator protection in Levane (Italy)
  - ✓ Commissioning Migration to 101. Punta Grande (Lanzarote-Canary Islands). Spain
  - ✓ Ifat for Amal Steam Project phase 2 in Manama (Bahrain)
  - ✓ Commissioning Migration to 101. Buenavista. (Las Palmas-Canary-Islands). Spain
  - ✓ Commissioning and Start-up of level 1,2 and 3 communication system in Buenos Aires (Tenerife-Canary Islands). Spain
  - ✓ Commissioning of electrical generator protection in Sicily (Italy).
  - ✓ Commissioning of electrical generator protection in Oran (Algeria)
  - ✓ Commissioning of communication system in Tanger (Moroco)
  - ✓ Commissioning of communication system in Ras La Fan (Qatar)
- ... others commissionings carried out (GE, ABB, Woodward, DEIF... devices)

- ✓ Commissioning of Woodward protection relays in Tasiast (Mauritania). Kinross Gold Mine.



- ✓ Commissioning of MM200 motor protection relays in Los Guinchos Power Plant (La Palma – Canary Islands). Spain.



- ✓ Commissioning of 5 DEIF Genset controller for Malabo Residential.
- ✓ Commissioning of DEIF Genset controller for Caterpillar Emergency Group in Salinas Power Station. (Fuerteventura –Canary Island) Spain
- ✓ Commissioning of GE M family Protection Relays. Salinas Power Station. (Fuerteventura-Canary islands) Spain
- ✓ Maintenance of GE M family Protection Relays and Woodward Overcurrent protection Relays in Diesel 13. Los Guinchos Power Station (La Palma-Canary Island) Spain



- ✓ Maintenance of GE M family Protection Relays in Diesel 8. Los Guinchos Power Station (La Palma-Canary Island) Spain
- ✓ Commissioning of ABB protection Relays in Salinas Power Station. (Fuerteventura-Canary Islands) Spain
- ✓ Several interventions in Canary Islands Power Stations and Electrical Substations: Guinchos, Bco. Tirajana, Salinas, Candelaria, Granadilla...
- ✓ ...

... also we are carrying out different field services as:

- ✓ Generation and Load Studies
- ✓ Electrical System Simulations
- ✓ Arc Flash Study
- ✓ Energy Efficiency in Generation
- ✓ Another Studies of Electrical Systems for improve and reduction cost supplying new systems with a high payback.
- ✓ ...

With this kind of services we pretend to obtain an useful information source in order to give to the power generation, energy transmission and load supply more security, efficiency and reliability to the facilities installed in the corresponding plant.

With the electrical load and generation survey we can determine if the distribution of the power by the generation plants that are currently working in the installation could supply new loads, verify the capacity of the electrical system, share the loads in a properly way, perform a tracing of the power factor and calculate the energy consumption before and after the implementation of the action plan in order to improve the system.

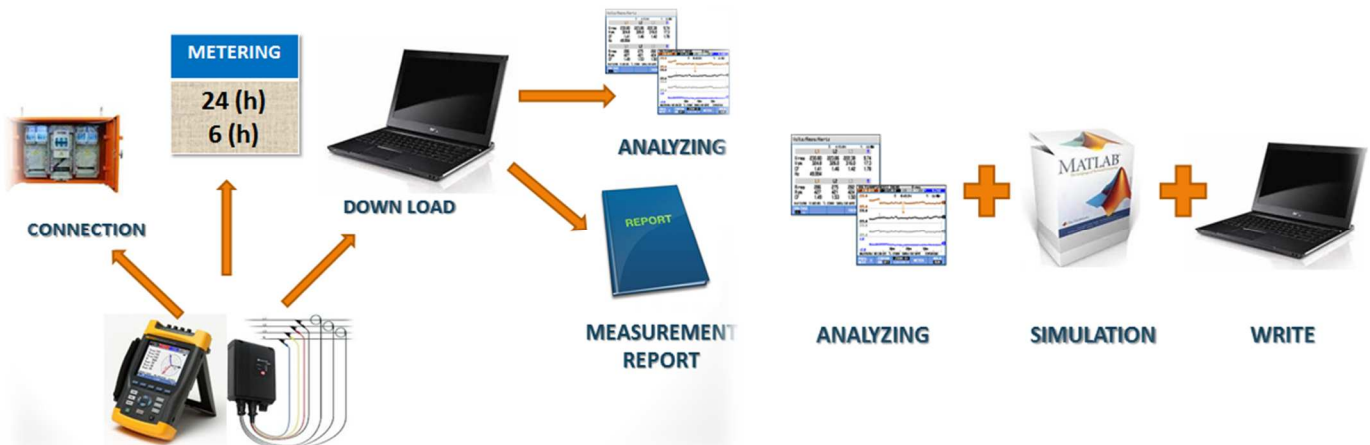
... example of Electrical System Studies

1. Introduction about the electrical system.
2. General failures found on distribution boards and transformers.
3. General data measures from distribution boards. (Generation & Loads)
4. Simulations in different load scenarios and periods.
5. Generation efficiency.
6. Electrical protection and control system verification and recommendation.
7. Economic quotation and payback calculation.

... all data are taken from all the electrical system of the plant

## 12. OTHER SERVICES

... all data are taken from all the electrical system of the plant



... with this kind of study is possible to carry out measures for improvement and efficiency

		PERIOD 02				PERIOD 03			
		TOTAL ENERGY CONS.	A/C ENERGY CONS.	ENERGY CONS. WO A/C	ENERGY SAVED (%)	TOTAL ENERGY CONS.	A/C ENERGY CONS.	ENERGY CONS. WO A/C	ENERGY SAVED (%)
		(08:00 - 12:00)	(08:00 - 12:00)	(08:00 - 12:00)		(12:00 - 17:00)	(12:00 - 17:00)	(12:00 - 17:00)	
<b>TOTAL</b>	P (kW)	1215,63	489,47	<b>726,16</b>	<b>40,26</b>	1734,93	838,51	<b>896,42</b>	<b>48,33</b>
	Q (kVA.)	543,31	94,52	<b>448,79</b>	<b>17,40</b>	649,10	66,52	<b>582,58</b>	<b>10,25</b>

... more improvements examples...

Why capacitor banks in some points of the facilities?



Measurement Point		MP 40		MCC03+08	
P (Kw)	Q (kVar)	tg φ	φ	cos φ	
345,92	527,8	1,53	0,99	0,55	
P (Kw)	Q <sub>FINAL</sub> (kVar)	tg φ <sub>FINAL</sub>	φ <sub>FINAL</sub>	cos φ <sub>FINAL</sub>	
345,92	127,8	0,37	0,35	0,94	
CAPACITOR BANK		700 kVA.	2x50 + 6x100		
Q <sub>CB-P</sub> (kVar)	U <sub>CB</sub> (kV)	U <sub>Base</sub> (kV)	S <sub>n Base</sub> (MVA)	B <sub>CB</sub> (pu)	
400	0,55	0,55	10	0,040000	

Measurement Point		MP 41		MCC04	
P (Kw)	Q (kVar)	tg φ	φ	cos φ	
1035,75	645,79	0,62	0,56	0,85	
P (Kw)	Q <sub>FINAL</sub> (kVar)	tg φ <sub>FINAL</sub>	φ <sub>FINAL</sub>	cos φ <sub>FINAL</sub>	
1035,75	145,79	0,14	0,14	0,99	
CAPACITOR BANK		700 kVA.	2 x 50 + 6x100		
Q <sub>CB-P</sub> (kVar)	U <sub>CB</sub> (kV)	U <sub>Base</sub> (kV)	S <sub>n Base</sub> (MVA)	B <sub>CB</sub> (pu)	
500	0,525	0,525	10	0,050000	

At this section of the study, we can conclude that SCENARIO 08 03 + SCENARIO 07, with all the improvements explained in this document can save around **2126.83 fuel liters per day** (around **8.5% of energy input** to produce electrical energy to supply the whole old camp, mining/workshop and ADR). Also as we can view with A/C action plan allows run/stops gensets as the following table shows:

PERIOD DEMAND	SCENARIOS SC. 08 01 + SC. 02			SCENARIOS SC. 08 03 + SC. 07			DIFFERENCE BETWEEN BOTH SITIATIONS			TOTAL GENSETS SAVED
	PS 01	PS 02	LOCAL GENSETS	PS 01	PS 02	LOCAL GENSETS	PS 01	PS 02	LOCAL GENSETS	
Number of gensets running in P01	3 CM	3	3	3 CM + 1 HS	3	0	-1	0	3	2
Number of gensets running in P02	3 CM	4	3	3 CM + 1 HS	3	0	-1	1	3	3
Number of gensets running in P03	3 CM	4	3	3 CM + 1 HS	3	0	-1	1	3	3
Number of gensets running in P04	3 CM	4	3	3 CM + 1 HS	3	1	-1	1	2	2
Number of gensets running in P05	3 CM	3	3	3 CM + 1 HS	2	1	-1	1	2	2

...after the study and all the improvements proposed is possible to save per year about XXXXX liters of fuel in the plant apart from other facility improvements.

**IMPROVEMENTS**



Harmonic Filters



**BENEFIT**



Capacitor Banks



**IMPROVEMENTS**



**BENEFIT**



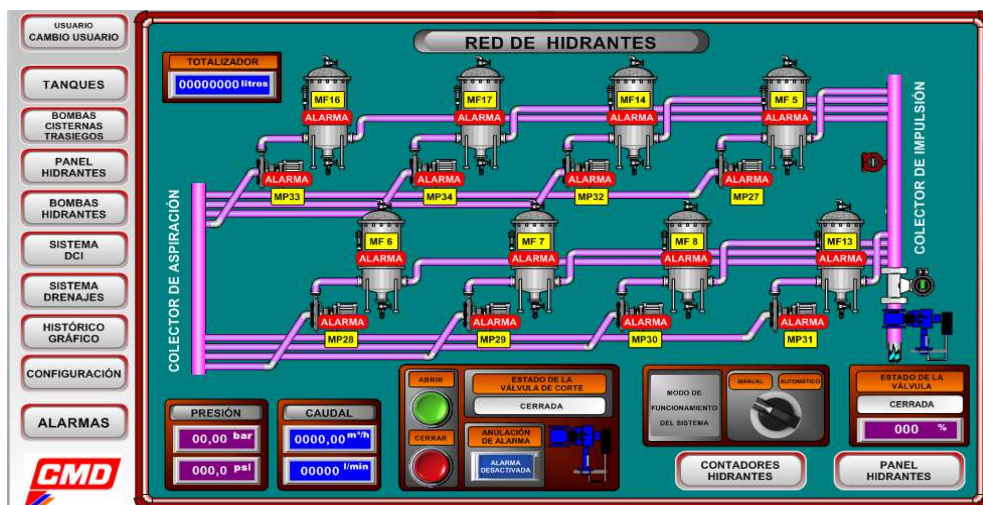
### 13. Executed Projects

Following you can see an account of the projects assigned and executed by our company throughout our experience:

#### Industry and Electric Power Stations

- **Replacement of energy** with electric groups of 2 MW. The total amount is 80 MW during the Delta hurricane in the Canary Islands. We carried out the supply, installment, starting up and maintenance during the hurricane. After that, we have been in charge of the maintenance and operation of the mobile power stations contracted by Endesa to Energyst Cat Rental in Gran Tarajal Fuerteventura 14 MW, Guía de Isora in Tenerife 8 MW, etc.
- **Supply and Installation, 28 New Panel for 28 Substation in Unelco Cannary Islands.**
- **Supply and installation** of the automatic switch 3P, 1.250A, 50kA, (Retrofit) Group Gas Power Station Granadilla.
- **Supply and installation** of the automatic switch 3P, 1.250A, 50kA, (Retrofit) Gas Group (Greco 1) in Power Plant Barranco de Tirajana.
- **Supply and installation** of the automatic switch 3P, 1.250A, 50kA, (Retrofit) Gas Group (Greco 2) in Power Plant Barranco de Tirajana.
- **Retrofit control room** Electric Power Station Los Guinchos , updating all the power switches without the substitution of the enfolding ones, also the cleaning-up of bus bars. Supply and installation. 4 Breakers. 1.250A, 80kA, (AGUT CCM), 7 Switches 1.250A, 50kA, (PANEL CCM WATT), 3 Switches 1.250A, 50kA, (Table CCM WATT).
- **Supply and installation** of the automatic switch 1.250A, 50kA at the power station Los Guinchos in La Palma (new supply of the auxiliary services panel).
- **Engineering, Supply and installation** of the dashboard and protection for a bomb of oil pressure group XII 132 KW, with a system of removal of micro cuts for the power station in Los Guinchos, La Palma.
- **Supply and installation** of 4 automatic switches 3P, 1.250A, 50kA, (Retrofit)2 Group Gas Power Station Las Salinas, Fuerteventura.
- **Switch supply** MPACT Plus, 800A, 3P, Electric power station in Granadilla, Tenerife.
- **Retrofit. Supply** of 30 protection pump relays MM200, General Electric, for the substitution of the pump relays of Sprecher Mod. CT3 at the Diesel power station Los Guinchos. Island of La Palma.
- **Supply of 4** protection pump relays MIGP151E000H00C , General Electric, for the electric power station of Las Salinas in Fuerteventura.
- **Supply and installation** of the Engine Control Center for the pumping from the dock to the electric power station of Granadilla, Tenerife.
- **Supply and installation** of the switch EntelliGuard Breaker 3P, 2000A, 65k at the power station Diesel Los Guinchos. Island of La Palma.
- **Maintenance of switches** in CCM 1250A, 3P, at the electric power station of Barranco de Tirajana.

- **Supply and assembly** of power breakers of earthed power sources 72 KV at the Substation Electric Power Station Salinas in Fuerteventura.
- **Supply and starting up** of the Project Hespérides Panels for the substations of ENDESA UNELCO en CANARIAS.
- **Development Engineering** Trafos Electrification Panels Connection at the Wind Park Molino del Viento, in el Hierro.
- **Supply, Installation and Commissioning 2 Generator 1500 KVA, for African Minerals in Sierra Leona. 2013/1014.**
- **Supply, Installation and Commissioning Electrical Pannels and transfer Swicht Pannels for Rail Way. Customer African Minerals in Sierra Leona.**
- **Design, Supply, Installation and Commissioning Electrical Pannels and Control System for supply Petrol to Air Companies in Gran Canarias Airport and Tenerife Airport.**



## Residential:

- **Refurbishment of 80 schools** in Las Palmas de Gran Canaria.
- **Refurbishment of 15 schools** in Santa Lucía (Gran Canaria).
- **Hotel RIU Cabo Verde** (SAMPOL).
- **Hotel H3 Santana Cazorla Group.**
- **Refurbishment of schools** in La Laguna and Santa Cruz de Tenerife.
- **Parking La Palma Airport.**
- **ICOD Hospital Tenerife.**
- **Shopping center Yumbo San Bartolomé de Tirajana.**
- **Health center** in Telde.
- **RTVE building** (Group and Emergencies) Las Palmas de Gran Canaria.
- **Víctor Jara theatre** (Emergencies) Santa Lucía (Gran Canaria).
- **Electric supply** for the construction company Grupo Félix Santiago Melián.
- **Galleries Airport** in Tenerife Norte (Emergencies).
- **Electric supply for 452 houses** Ciudad del Campo.
  - - Insular Historic Archive (Emergencies and luminaires) in Fuerteventura
  - - Disabled Center (Emergencies and luminaires) in Fuerteventura
  - - Puerto Rico – Mogán Tunnels (Emergencies) in Las Palmas
  - - New Ikea Building (Emergencies, UPS and Generators) in Las Palmas



- Canary brewery factory (Emergencies) in Las Palmas



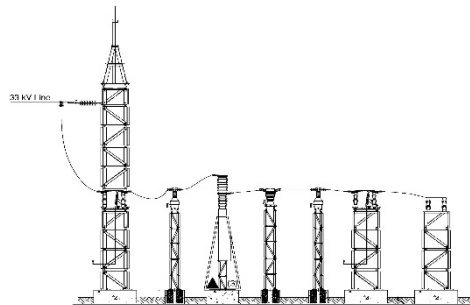
#### **14. Executed services and projects for Kinross-Tasiast**

SUPPLY E-HOUSE AND ELECTRICAL PANNELS FOR NEW CAMP IN TASTIAT	2011
SUPPLY 3X250 KVA GENERATOR PRAMAC FOR NEW CAMP IN TASTIAT	2011
STUDY OF TASTIAT ELECTRICAL SYSTEM	2012
CONNECTION GENSET AND OHL TO CHANGER OVER KITCHEN OLD CAMP	2012
ORMAZABAL HV CABINET REVIEW (CGMCOSMOS -P CABINET)	2013
SONDAGE WATER SUPPLY SYSTEM ELECTRICAL INSTALLATION (INSERTED REMOTE CONTROL OF PUMPS)	2013
INTALLATION OF RUNWAY LIGHTS IN THE TASTIAT MINE AIRPORT	2013
FIRE SYSTEM INSTALLATION IN DATACENTERS IN TTV, ADMIN, NOUACHOTT OFFICE. (IT DEPARTMENT)	2013
HV VOLTAGE: CONNECTIONS OF SIX OUTDOOR TERMINATIONS FOR CABLE 1X300MM2 (SITE SERVICE DEPARTMENT)	2013

AUDITORY OF ELECTRICAL MOTORS LOCATED IN WAREHOUSE IN TASIAST. (SUPPLY CHAIN DEPARTMENT)	2014
AGS SIGNED CONTRACT AS ELECTRICAL SUPPLIER OF KINROSS (STILL ACTIVE)	2014
NEW ELECTRICAL INSTALLATION FOR DATACENTER TTV. (IT DEPARTMENT)	2014
FIRE SYSTEM INSPECTION FOR MINE FLEET AREA & REVISION OF THE CONTROLLER OF DIESEL GROUP IN AREA PHASE 1B. (SITE SERVICE DEPARTMENT)	2015
FIRE SYSTEM CONTROL PANEL SNMP SOLUTION INSTALLATION (IN PROGRESS)	2015
CONNECTION GENSET TO KITCHEN'S CHANGEOVER AND COMMISSIONING (IN PROGRESS)	2015
FIRE SYSTEM FOR EXTENSION WAREHOUSE (IN PROGRESS)	2015
ELECTRICAL INSTALLATION EXTENSION WAREHOUSE (IN PROGRESS)	2015
INSTALLATION OF FIRE SYSTEM FOR DATACENTER IN ADR. (FM200) (IN PROGRESS)	2015
MODIFICATION ELECTRICAL INSTALLATION DATACENTER IN ADR (IN PROGRESS)	2015

## **15. Executed services and projects for Kinross-Chirano.**

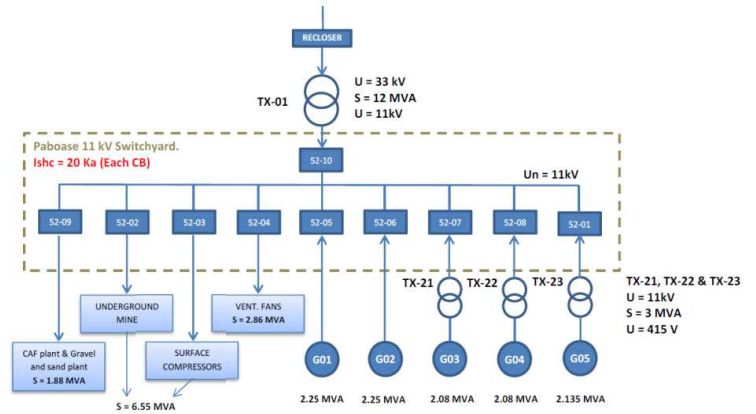
Protection Relay Coordination Study for Paobase underground	2013
Design, Supply and Installation Transfer Switch Panel for Paobase	2013
Design System Synchronization for Paobase Underground Paobase	2013
Commissioning and Start Up MV Capacitor Bank ABB 33 KV in Paobase	2013
Repair and Synchronization Generators in Paobase Underground	2013
Design, Supply, Installation and Commissioning New Substation in Paobase 33 Kv	2014





Supply, Installation and Commissioning ABB Outdoor Switch 33KV for Paobase 2014

PROTECTION RELAYS RETROFIT ON EXISTING 11KV SWITCHGEAR YORKSHIRE SF6 2014



-12MVA TRANSFORMER 33KV/11KV Supply, Installation and Commissioning 2014



-Design, Supply, Installation and Commissioning 11KV SUBSTATION 2014



## 16.- HUMAN RESOURCES



Nº Total employees	24
Nº Engineers:	20
Nº Electrical degree:	2
Nº Administrative degree	2

Academic degree	Nº
Industrial Engineer	13
Telecommunications Engineer	1
Technical Engineer	6
Team leader	2
Administrative & Quality System	2

### **16. REASONS TO TRUST ON AGS**

- ✓ **GLOBAL** solutions company.
- ✓ **SOLID HUMAN TEAM** with extensive experience implementing and providing added value services on equipment and low voltage material systems.
- ✓ **WIDE COVERAGE** which minimizes the intervention times.
- ✓ **PRESENCE** in all sectors with a wide range of products in service.
- ✓ **CONTINUOUS** improvement in search of excellence
- ✓ **SPECIALIZATION**
- ✓ **EXPERIENCE**
- ✓ **QUALITY**

## Availability

- ✓ Effective response and absolute **National** and **International** geographic availability.

## Professionals

- ✓ Excellent product, applications and customer needs knowledge.
- ✓ High training level for all our engineers in the entire range of our products in our portfolio.

## Speed

- ✓ Immediate reaction with response times tailored to the needs of our customers, 24 x 7 coverage.
- ✓ Availability of spare parts throughout the entire products life cycle, providing continuity and efficiency on installed solutions.

## Integrity

- ✓ We follow the highest standards of compliance and integrity in business conduct.



AENOR (Spain), AFNOR Certification, France, ABSA Vincitore International, Portugal, ANCC, Mexico, ANPCB, Portugal, CCC, Cyprus, CIB, Italy, CQC, China, CCM, Chile, CCM, Czech Republic, CEN, Canada, DQS, Ireland, Serbia, Germany, FCAY, Brazil, FORDISORINA, Venezuela, ICCRETIC, Colombia, IMC, Mexico, Intertek Certification, Poland, IIRAM, Argentina, IQS, Japan, KPS, Korea, METEC, Greece, NEST, Hungary, NIRA, AZ, Romania, NTA, Ireland, PCIC, Ireland, Quality Austria, Austria, S2, Russia, S2, Israel, S2, Slovenia, SIRM, QAS International, Malaysia, SCS, Switzerland, SBC, Romania, TEST, BY, Czech Republic, TUV, Turkey, TUV, Austria, IQNet is represented in the UK by ANCH Certification, UK, UK, Ireland, Greece and SIDA, Inc.

