

**“Maintenance Customized Service”**

Speed, Flexibility and Professionalism for OEM, EPC and Final Customers... with High Quality and Competitiveness!

# Technical Field Services

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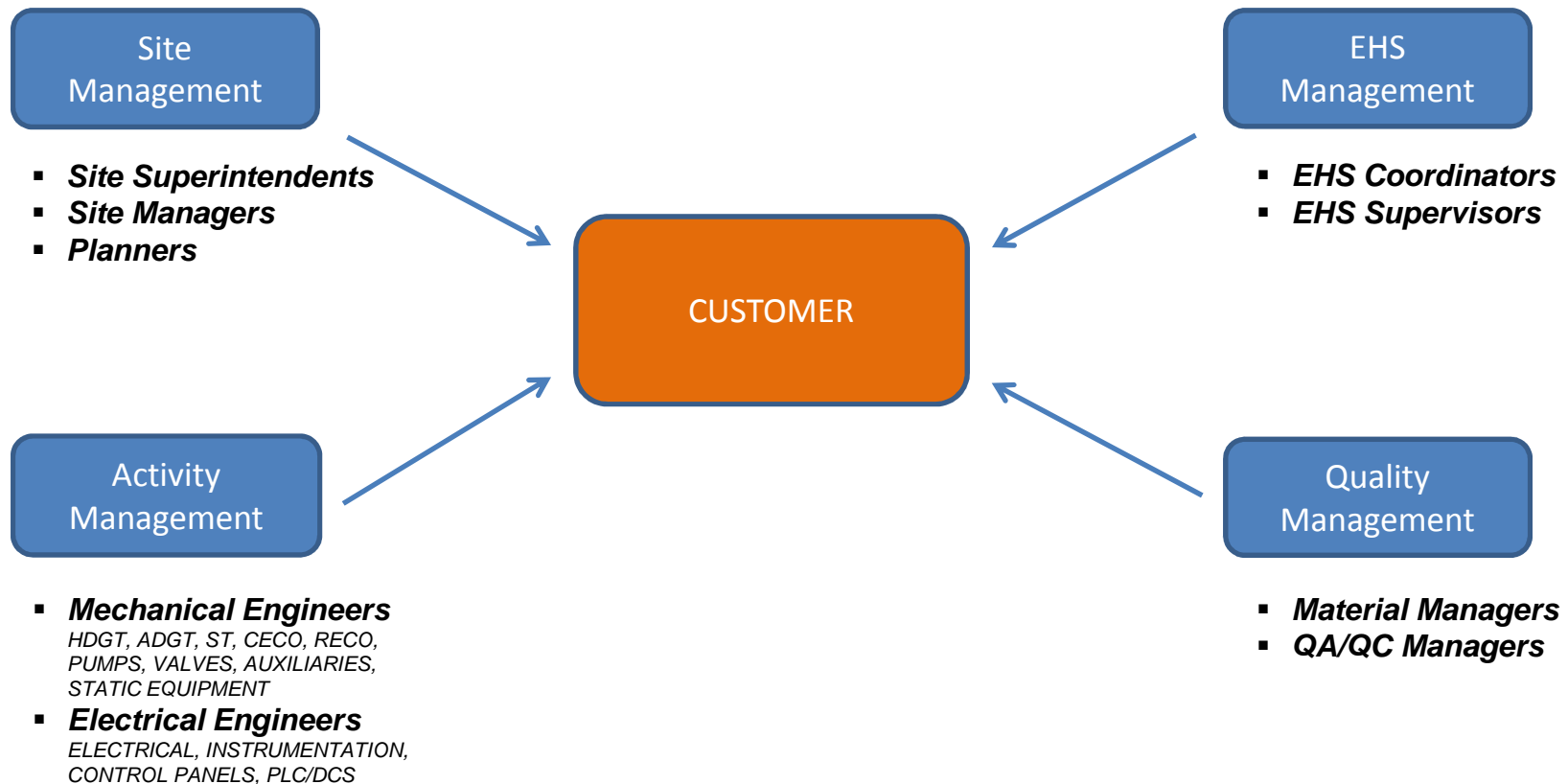


Basis  
Plant Services

## TECHNICAL FIELD SERVICES

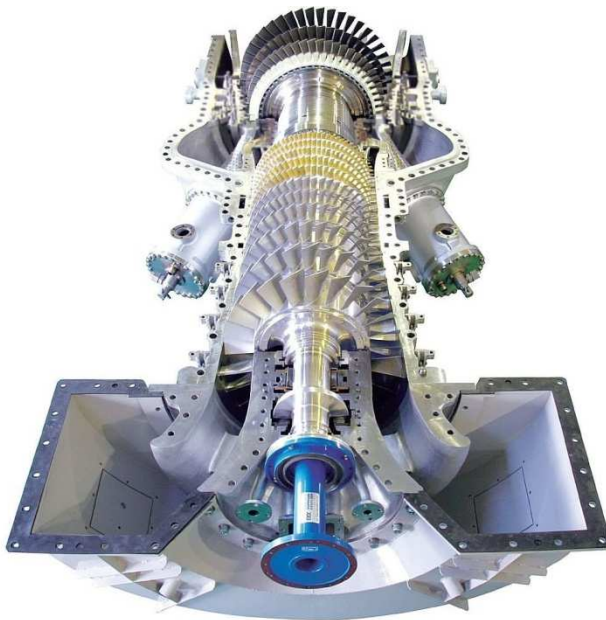
### Overview:

Basis Plant provides **over 40 full time employees** qualified in Energy, Industrial & O&G activities and Qualified External Portfolio of **over 50 Additional Technicians** with **more than 120K on site hours/year** performed on behalf of our customers



## TECHNICAL FIELD SERVICES

*Units/Products covered:*



- **Heavy Duty Gas Turbines**
- **Aeroderivative Gas Turbines**
- **Steam Turbines**
- **Centrifugal Compressors**
- **Centrifugal Pumps**
- **Reciprocating Compressors and Cubogas**
- **Control System MkII - MkVI**
- **Control System Suvimac I – II plus**
- **PLC-DCS Systems**

## TECHNICAL FIELD SERVICES

### *Activities:*

Basis Plant provides Field Service qualified in several Activities for Energy, Industrial & O&G Markets. We are able to operate on quality procedures attending all the NDT and signing all the quality certifications.

- ❖ **Supervision and Coordination of the manpower on site for **Installation and Service activities****
  - ➔ *Minimizing the time spent for any activity carried out by the manpower*
- ❖ **Troubleshooting**
- ❖ **Survey**
  - ➔ *Developing studies and analysis on how to get the best performance from the machinaries*
- ❖ **Emergency Call Out**
  - ➔ *Ready to solve as soon as possible Your issues*
- ❖ **Technical Trainings**

*We always produce detailed reports (daily, weekly, monthly and final) about all the activities carried out, anomalies found, measurements, calibrations performed, suggestions and conclusions.*

## TECHNICAL FIELD SERVICES

### *Installation and Service:*

#### INSTALLATION

- **Erection**
- **Precommissioning**
- **Commissioning**
- **Start-up**

#### SERVICE

- **Equipment Maintenance on:**
  - **Gas Turbine** (Major Overhaul, Modular Replacement, Blades Replacement, Hot Gas Path Inspection, Liner and Transition Piece Inspection, Combustion Inspection, Bearings Replacement)
  - **Steam Turbines** (Major Overhaul, Bearings Replacement)
  - **Centrifugal and Axial Compressor** (Major Overhaul, Gas and Oil Seals Replacement, Blades/Impeller Inspection, Bearings Replacement)
  - **Reciprocating Compressor** (Major Overhaul, Bearings Replacement, Bearings Alignment)
  - **Valves** (Mechanical Assembling and Dynamic Test)
- **Mechanical and Control Panel Revamping**
- **Equipment Upgrading**
- **Repairs**
- **Diagnostic (Boroscopic Inspection, Vibration Analysis, Performance Analysis, etc)**

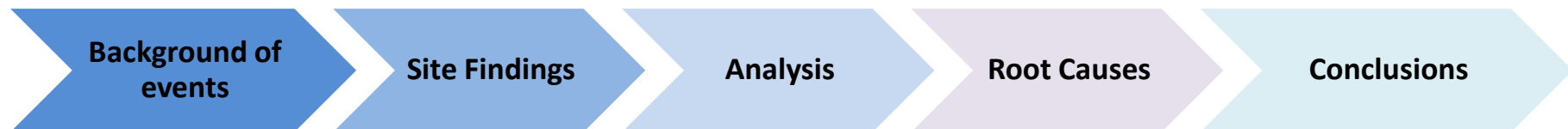


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## TECHNICAL FIELD SERVICES

### *Troubleshooting:*

- In case of critical plant failures, Basis Plant is able to provide very high skilled Senior Technicians Intervention for a complete set of Engineering and Technical Investigations in order to find the origin of the issue and suggest the solution to minimize the time of the equipment shutdown and loss of production.
- Basis Plant releases in shortest time a **Troubleshooting Report** including required interventions, spare parts needed and specialists who will coordinate the repairs, following the below process:



## TECHNICAL FIELD SERVICES

### *Survey:*

- A **rejuvenation, upgrade and revamping** of Your equipment will enable to:
  - *extend Your equipment life*
  - *minimize the plant shutdown and unexpected stops*
  - *control NOx emissions*
  - *save fuel*
  - *improve the safety of the operators.*
  
- After Your equipment inspection (*visual and diagnostic activities*) and plant documentation checking, our highly skilled experts will produce a detailed **Survey Report** including: findings analysis, parameter measurements, etc.

**Thanks to our help Your equipment will reach the highest performance of productivity.**



## TECHNICAL FIELD SERVICES

### *Emergency Call Out:*

Due to sudden failures each plant is subject to equipment shut down. Additional to delays on arrival at site of personnel in charge of troubleshooting and intervention on the machineries a huge loss of production will be faced.

As a consequence we put in place the **Emergency call out service** able to satisfy any request of technical intervention on site in 24/48 hours .

To do this we need to analyze suitable conditions to place our personnel of mobilization such as: visa management, mobilization time, possibility to dedicate a local team of supervisors/specialists etc.

*If our specialists may be resident in Your country,  
intervention may be assured in the shortest time!*

*We have specialists ready to leave,  
for each skill you may need!*

## TECHNICAL FIELD SERVICES

### *Technical Training*

Our company provides several kinds of training to meet all our customer requirements, such as:

#### ***Theoretical Trainings***

**TO:**

- *explain of thermodynamics principles*
- *explain how a singular machines (gas and steam turbines, centrifugal compressors), control panels, electrical motors, and plants in general (upstream, midstream, downstream) works*
- *explain exhaust system*

**WITH:**

highly skilled Trainers with a background of more than 10 years experience on technical activities worldwide.

***ALL the trainings may be held in your headquarter, plants, camps or other facilities, and include a final examination with a multiple choice test to verify the learning of each attendant.***

Mechanical Sessions		
Training #	Training Name	Duration (Days)
1	Familiarization	3-5
2	Gas Turbine: Theory	5
3	Gas Turbine: Heavy Duty	5
4	Gas Turbine: AERO + HSPT	4,5
5	Centrifugal Compressors Theory	3
6	Centrifugal Compressors Practice	4
7	Dry Gas Seals	1,5
8	Reciprocation Compressors	4
9	Steam Thermal Cycle	2,5
10	Steam Turbine	5

**Field Service Engineer:**  
**A. D.**  
**Italian**

**Service Workforce**  
**BPS**  
**Field Service**



**Profile**

**POSITION**

- SITE MANAGER**
- MECHANICAL ENGINEER**
- MATERIAL MANAGER**
- SITE CORDINATOR**

**CLR-TRAINING-CERTIFICATES-OJT**

- New Managerv Development Course;
- Six Sigma DMAIC "Green Belt" certification;
- TBC and HVOF coatings applications for Combustion and HGP's Components;
- Gas Turbines, Centrifugal and Reciprocating Compressors, Health and Safety on Industrial Plants, On-Site Management Course

**EXPERIENCE**

**23 Yrs Oil&Gas Industry**

**Key Customers**      **Recent Missions**

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>✓ JGC</li> <li>✓ Atlantic LNG</li> <li>✓ Marathon LNG</li> <li>✓ NAOC</li> <li>✓ Malaysian LNG</li> <li>✓ Bechtel</li> <li>✓ Darwin LNG</li> <li>✓ Total Angola</li> <li>✓ Petrobras</li> </ul> | <ul style="list-style-type: none"> <li>✓ Bir Seba, Frame5 installation, MS5001</li> <li>✓ Point Fortin, major inspection and filter house replacement, MS5002+Centrifugal Compressors</li> <li>✓ Mittelbrunn, mechanical completion, Frame3</li> <li>✓ Malabo, major inspection, MS5002+Centrifugal compressors</li> <li>✓ Ob Ob, material coordinator&amp;on-site coordinator, various generator drives</li> <li>✓ Soyo, installation commisioning start-up, Frame6-7+various compressors</li> </ul> |
|--|---|

**Equipment - Expertise**

Type	Equipment-Expertise
<b>Equipment</b>	Frame3 -5(single&double shaft)-6-7, LM2500, PGT25+, GE5, GE10, PGT10, LM6000, PGT16
<b>Technology</b>	Open cycle, LNG plants, Refineries, Petrochemical Industries, Pumping stations.
<b>Install/Comm.</b>	yes – yes
<b>Maint./retrofit</b>	yes – yes
<b>Troubleshooting</b>	yes
<b>Languages</b>	Italian, English, Spanish, Portuguese, French
<b>Other - details</b>	Auxiliary skid supervision, Centrifugal compressors supervision

**FSE career employers**

*GE Oil&Gas, GE I&RS.*

1

2

3

4

**Field Service Engineer:**  
**T. C.**  
**Italian**

**Service Workforce**  
**BPS**  
**Field Service**



**Profile**

**POSITION**

MECHANICAL ENGINEER HDGT  
 SITE MANAGER

CLR-TRAINING-CERTIFICATES-OJT

- HDGT  
 Frame 9FA

**EXPERIENCE**

23 Yrs  
 Oil&Gas  
 Industry

1

**Equipment - Expertise**

2

Type	Equipment-Expertise
Equipment	Frame 3, 5, 6, 6FA, 9, 9FA, PGT5, PGT10
Technology	CCGT, Open cycle, Biomass plant, LNG Plant, Pumping Stations, Refineries, Platform.
Install/Comm.	yes – yes
Maint./retrofit	yes – yes
Troubleshooting	yes
Languages	Italian, English, Spanish
Other - details	Auxiliary skid supervision, Centrifugal Pumps assembling, Steam Turbines assembling, BCL compressors assembling

**Key Customers**      **Recent Missions**

3

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>✓ Gasco</li> <li>✓ Atlantic LNG</li> <li>✓ Egyptian LNG</li> <li>✓ British Petroleum</li> <li>✓ Agip KCO</li> <li>✓ Saras</li> <li>✓ SNAM</li> <li>✓ EON Ruhr Gas</li> </ul> | <ul style="list-style-type: none"> <li>✓ Stolberg, rejuvenation of gas turbine commissioning, MS3002J</li> <li>✓ Habshan, commissioning and start up, MS5002D/BCL</li> <li>✓ Blendecques, combustion inspection, GE10</li> <li>✓ Point Fortin, modular replacement, MS5002D</li> <li>✓ Tangguh, maintenance activities, MS5002D, MS5002C. MS5002C+</li> </ul> |
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**FSE career employers**

4

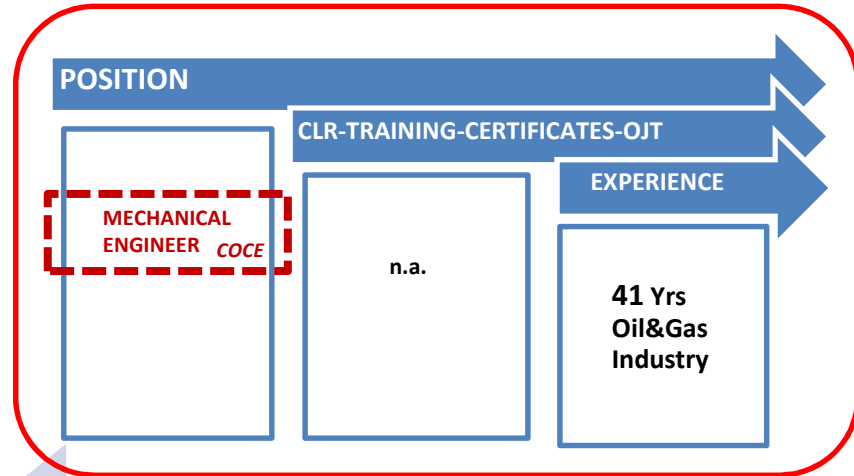
*Granite, GE Energy, Saras Raffinerie Sarde.*

**Field Service Engineer:**  
**R. T.**  
**Italian**

**Service Workforce**  
**BPS**  
**Field Service**



**Profile**



1

**Equipment - Expertise**

2

Type	Equipment-Expertise
Equipment	BCL, MCL, PCL and SRL GE centrifugal compressors, AN GE axial compressors, GE Frame 3, 5 (single&double shaft) and 6
Technology	Oil&Gas industry, LNG Plant, Refineries, Pumping station
Install/Comm.	yes – yes
Maint./retrofit	yes – yes
Troubleshooting	yes
Languages	Italian, English
Other - details	n.a.

**Key Customers**      **Recent Missions**

3

- ✓ Tecnimont
  - ✓ Sonatrach
  - ✓ RIMP
  - ✓ Chiyoda
  - ✓ Linde
  - ✓ Bechtel
  - ✓ Foster Wheeler
  - ✓ MLNG
  - ✓ Qatargas
  - ✓ TSKJ
  - ✓ Saipem
  - ✓ GASCO
  - ✓ SEGAS
  - ✓ KPO
  - ✓ Motor Oil Hellas
  - ✓ Sergaz
  - ✓ Shell
  - ✓ Saudi Aramco
  - ✓ Petrofac
  - ✓ Atlantic LNG
  - ✓ OMV
  - ✓ WRPC
- ✓ Baumgarten, minor inspection, PCL 602-3
  - ✓ Capo Bon, revamping, BCL coce
  - ✓ Point Fortin, major inspection and modular exchange, BCL and MCL coce
  - ✓ Alba Field, hot gas path inspection, BCL coce
  - ✓ Warry, consultative service, BCL, 2MCL, DMCL coces
  - ✓ Ruwais, major inspection, BCL306
  - ✓ Barcelona (Venezuela), major inspection, SRL coce
  - ✓ Sbeitla, Sbika, Capo Bon, minor inspection, BCL coce
  - ✓ Rabigh, major inspection, MCL coce
  - ✓ Damietta, minor inspection, BCL, MCL, 3MCL coces
  - ✓ Habshan, general overhaul, BCL, 3MCL, 2BCL coces

**FSE career employers**

4

*Nuovo Pignone*

**Field Service Engineer:**  
**P. D.**  
**Italian**

**Service Workforce**  
**BPS**  
**Field Service**



**Profile**

**POSITION**

**CLR-TRAINING-CERTIFICATES-OJT**

**MECHANICAL ENGINEER PUMPS**

- Rotating Equipment Alignment
- Centrifugal Pumps

**EXPERIENCE**

- 22 Yrs Lathe and Bore Operator
- 25 Yrs Oil&Gas Industry

**Equipment - Expertise**

Type	Equipment-Expertise
Equipment	Centrifugal and Vertical Pumps, Motor Pumps, Booster Pumps, Boiler Feed Water Pumps
Technology	Oil&Gas industry
Install/Comm.	yes – yes
Maint./retrofit	yes – yes
Troubleshooting	yes
Languages	Italian, English
Other - details	n.a.

**Key Customers**      **Recent Missions**

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>✓ Qatar Gas</li> <li>✓ Technimont</li> <li>✓ Agip KCO</li> <li>✓ Saipem</li> <li>✓ Worley Parson</li> <li>✓ Belayim Petrobel</li> <li>✓ NMPP Transnet</li> <li>✓ TransCanada</li> <li>✓ Sasref</li> <li>✓ Mellita Oil&amp;Gas</li> <li>✓ Technip</li> <li>✓ BP</li> </ul> | <ul style="list-style-type: none"> <li>✓ Sannazzaro de' Burgondi, mechanical seal on centrifugal pump installation</li> <li>✓ Kuwait City, centrifugal pump commissioning</li> <li>✓ Ravenna, centrifugal pumps installation and start-up</li> <li>✓ Izmit, centrifugal pumps troubleshooting</li> <li>✓ Johannesburg, commissioning, centrifugal pumps MSND5stages</li> <li>✓ Ras Laffan, commissioning and start-up, centrifugal pumps DHF4stages</li> <li>✓ Yanbu, commissioning and start-up, centrifugal pumps DDHF4stages</li> <li>✓ Habshan, installation and commissioning, vertical pumps VCD4stages</li> </ul> |
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**FSE career employers**

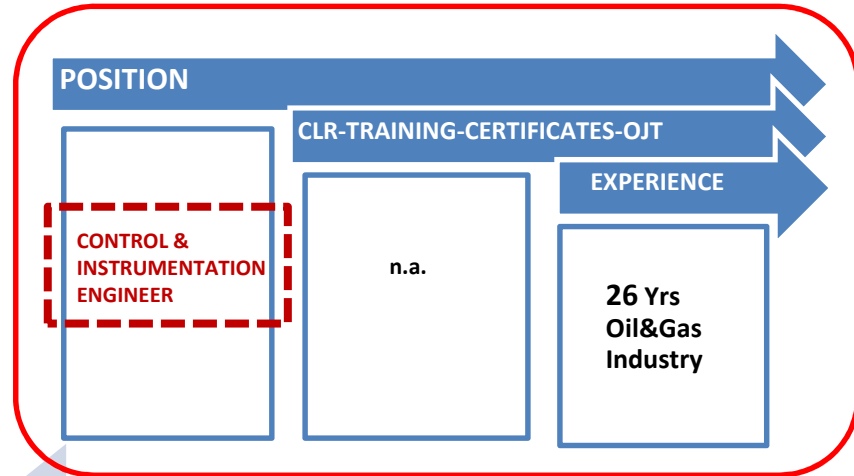
*Cerutti Torino, Nuovo Pignone Bari*

**Field Service Engineer:**  
**A. S.**  
**Italian**

**Service Workforce**  
**BPS**  
**Field Service**



**Profile**



1

**Equipment - Expertise**

2

Type	Equipment-Expertise
Equipment	Speedtronic Suvimac I, Suvimac II, Mk.2, Mk.4, Mk.5, Mk.6, Mk.6E.
Technology	Oil&Gas industry, LNG Plant, Refineries, Power Generation
Install/Comm.	yes – yes
Maint./retrofit	yes – yes
Troubleshooting	yes
Languages	Italian, English
Other - details	n.a.

**Key Customers**      **Recent Missions**

3

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>✓ Exxon Mobil</li> <li>✓ Waha Oil</li> <li>✓ WRPC Warry Refineries</li> <li>✓ NG Power</li> <li>✓ NAOC</li> <li>✓ Kuwaitian Oil Company</li> <li>✓ Petrobel</li> <li>✓ Safco</li> <li>✓ Petrobrazyl</li> <li>✓ Eni</li> <li>✓ Snam</li> <li>✓ Atlantic LNG</li> <li>✓ Tragaz</li> <li>✓ Elf</li> <li>✓ Transcanada Pipeline</li> <li>✓ Phillips Petroleum</li> <li>✓ Petrobras</li> </ul> | <ul style="list-style-type: none"> <li>✓ Eket, Erha platform, Waha North, Dahra, Gialo, South Deefa, Warry, Ebocha, Kwale, Ob Ob, Pakarab, Kuwait City, Egypt, Saudi Arabia, Plojesti, Russia, Kitina offshore, technical assistance, consultative service, survey, frame 5, LM2500, PGT25, frame 6, frame 1, frame 3, frame 7, GE10B, PGT10, various generators.</li> <li>✓ Point Fortin, shutdown, MS5002</li> <li>✓ Perm, control panel debug and upgrade, MS5002 with centrifugal compressor</li> <li>✓ Plojesti, Mk.5 upgrade, MS5001PA</li> </ul> |
|--|---|

**FSE career employers**

4

*GE Oil&Gas, IRMA, CSI.*

**Field Service Engineer:**  
**S. M.**  
**Romanian**

**Service Workforce**  
**BPS**  
**Field Service**



**Profile**

**POSITION**

**CLR-TRAINING-CERTIFICATES-OJT**

**EXPERIENCE**

**ELECTRICAL & INSTRUMENTATION ENGINEER**

- Speedtronic Mark VI
- Audit and Management of Quality
- Reliability Availability Maintenance Safety Analysis from risk

**27 Yrs Oil&Gas Industry**

**Equipment - Expertise**

Type	Equipment-Expertise
Equipment	Frame 3-5-6-7-9, LM2500 family, PGT25 family, Centrifugal Compressors
Technology	Oil&Gas industry, LNG Plant, Refineries, Single Cycle
Install/Comm.	yes – yes
Maint./retrofit	yes – yes
Troubleshooting	yes
Languages	Romanian, English, Italian
Other - details	n.a.

**Key Customers**      **Recent Missions**

- ✓ E.ON Rurhgas
  - ✓ HDEC Hyundai
  - ✓ Petrofac
  - ✓ GASCO
  - ✓ ADGas
  - ✓ Eni Saipem/Sonatrach
  - ✓ Bechtel/Chevron
  - ✓ Angola LNG
  - ✓ CTJV for Qatargas
  - ✓ SPP Slovakia
  - ✓ Plus Petrol
  - ✓ ENPPI for Eni/Petrobel/Belayim
  - ✓ Eni Snam Progetti
  - ✓ Petrom/OMV Austria
- ✓ Hugelheim, installation and commissioning, frame 3
  - ✓ Al Ahamadi, installation and commissioning, MS5002C
  - ✓ Ruvais, installation, 3MCL1005
  - ✓ Das Island, installation and commissioning, MS5002D
  - ✓ Arzew, installation and commissioning, frame 5-6-7
  - ✓ Ras Laffan, installation and commissioning, frame 6-9
  - ✓ Velke Kapusany, installation and commissioning, LM2500, PGT25+
  - ✓ Camisea Field, installation and commissioning, frame 5

**FSE career employers**

*SNP Petrom-OMV Austria.*



**Field Service Engineer:**  
**D. G.**  
**Italian**

**Service Workforce**  
**BPS**  
**Field Service**



**Profile**

**POSITION**

**CLR-TRAINING-CERTIFICATES-OJT**

**MATERIAL MANAGER**  
**QA/QC**

- Logistic quality & no conformity management,
- ISO9001: 2008 internal auditor
- Quarantine Inspector
- Biosecurity Inspector

**EXPERIENCE**

**8 Yrs Oil&Gas Industry**

**Key Customers**      **Recent Missions**

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>✓ ZADCO</li> <li>✓ Chevron</li> <li>✓ PetroChina</li> <li>✓ Marathoil</li> <li>✓ Petrofac</li> <li>✓ Yemen Gas</li> <li>✓ Pemex</li> <li>✓ Sonatrach</li> <li>✓ Petrobel</li> <li>✓ Petroleum Development Oman</li> </ul> | <ul style="list-style-type: none"> <li>✓ Avenza, modules assembling, frame 9E and frame 6</li> <li>✓ Shanshan, Kong Ku He, installation of turbocompressor, PGT25+ Malabo, refurbishing turbocompressor, MS5002D</li> <li>✓ In Salah, installation, PGT25dle</li> <li>✓ Bal'Haf, installation, MS5001P</li> <li>✓ Material management and QA/QC activities</li> </ul> |
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**Equipment - Expertise**

Type	Equipment-Expertise
Equipment	Gas Turbines and Centrifugal Compressors
Technology	Open cycle, LNG plants, Refineries, Petrochemical Industries, Pumping stations.
Install/Comm.	yes – yes
Maint./retrofit	yes – yes
Troubleshooting	no
Languages	Italian, English, French
Other - details	n.a.

**FSE career employers**

*n.a.*

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# Contacts

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Elio Di Giovanni - *Sales Manager*

[elio.digiovanni@basisgroup.com](mailto:elio.digiovanni@basisgroup.com)

*Website:*

[www.basisplant.it](http://www.basisplant.it)