

## **TECNOVA HT**

**COMPANY PRESENTATION** 





## **Company Mission**

Improving **Safety**, **Reliability** and **Sustainability** of any Industrial Plant by **Process Automation** 

This mission is accomplished by:



Supply of Industrial Equipment for Process Automation



Engineering, Construction and Installation of Analysis Systems



Service on Call, Scheduled Maintenance & Training on Site



## The History



2009 New **HeadQuarters** 

1999 **TECNOVASERVICE** company was 1994 created

After a buy-out management **TECNOVA HT was** born

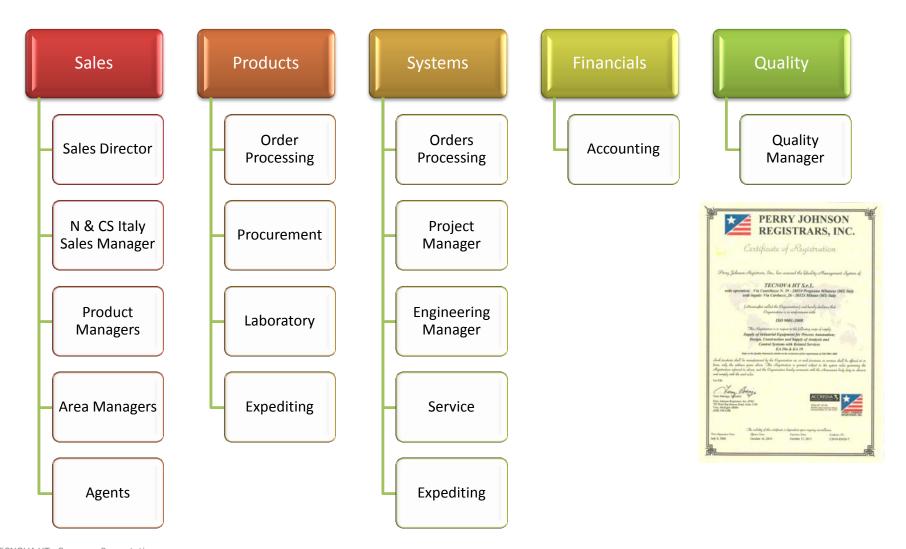
1976 Cavalli Bros. **Established TECNOVA** Company

After a decade of success the **TECNOVA Group** was composed by Automation, Systems and **Valves divisions** 

1986

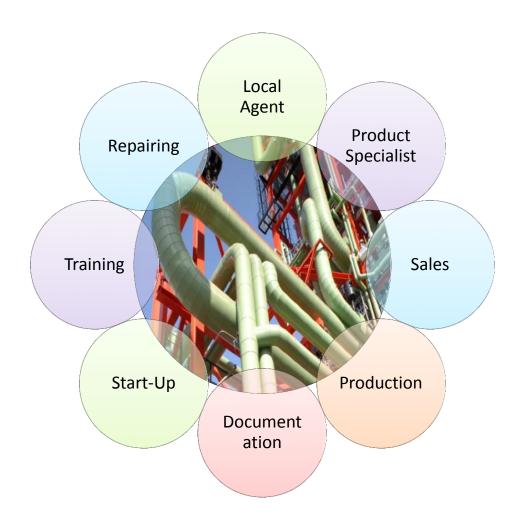


## The Organization Chart





## Around the Customer





#### The Market



## PharmaPfizerRecordatiDompè

# • Basf • Ciba • Polimeri Europa • Dow





















## The Principals

#### **Transmitters**

- Fuji Electric

- Cameron

#### **Flow Metering**

- Fuji Electric
- Cameron Barton
- McCrometer
- Eldridge
- VAF Instruments
- Trimec
- Dynameters

#### **Flow Computer**

- Cameron Barton
- Contrec
- Fluidwell

#### **Analysis**

- Fuji Electric
- K-Patents
- Sensotech
- Optek
- Hydramotion
- LAR
- Lemis Process
- Sintrol
- Hobrè
- Reineke

#### **Panel** Instrumentation

- Fuji Electric
- Ronan
- VAF

#### **Safety Devices**

Netherlocks







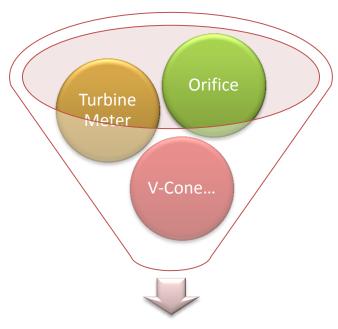




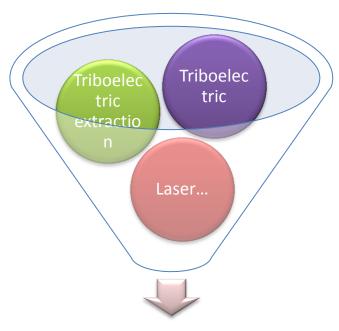




## The Basket



**Solving Flow Metering** 



**Solving Dust Analysis** 

**Product** 



**Application** 







#### **Refinery Expansion Project 700 K USD**

- V-cone flowmetering technology
- Interlocking Systems devices supply and on site mounting

#### Khursaniyah Gas Plant 1.1 MM USD

V-cone flowmetering technology





#### AGIP KCO - Kashagan field - Kazakhstan

- V-cone flowmetering technology
- High Static Pressure DP Transmitters

#### **AGIP Refining – Several units**

- V-cone flowmetering technology
- Thermal Mass Flowmetering Stack
- Dust analyser Stack





#### **SAIPEM - ERSAI Kazakhstan**

Oil in Water analysers offshore

#### **SAIPEM** – Aquila FPSO

Oil in Water analysers offshore

**SAIPEM** – OLT Tuscany – Offshore gasification Unit

Interlocking Systems







#### Hassi r'mel Boosting Station 1.2 M USD

V-cone flowmetering technology

#### **Barzan Gas Project**

 FAITH Fail Action Integrity Test Handling Systems





#### **SARPOM Refinery**

 TOC Total Organic Carbon and TNb Total Nitrogen Bound 2 channels on line analyser



#### **FIUMESANTO Pow Gen**

 TOC Total Organic Carbon and TNb Total Nitrogen Bound 2 channels on line analyser, 2 systems





#### **Chocolate Cream Production**

 Sugar Concentration Brix grade by in line Refractometers



#### ST Microelectronics Microprocessors Production

 Acid Concentration by in line Refractometers





#### **Marine Fuel Booster Packages**

- In line Viscometers
- PD meters



#### **Several Cruising Ships**

- PD meters fuel services
- Turbine meters water service
- Engine shaft torque meter



## System Integration

- Site Survey
- Project Specifications
- Project Vendor List
- Local Rules & Directives
- Sample Conditioning System
- Fast Loop Calculations
- Analysis System
- Project Review

Engineering

#### Costruction

- Devices, Components Purchasing
- Drawings Approval
- Integration
- Witnessed FAT
- Vendor Data Book
- Operative & Maintenance Manual

- Installation Supervision
- Commissioning & Start-up
- Field Calibration
- Witnessed SAT
- Data acquisition
- Training

On Site Activities





**CEMS** 

**Continuous Emissions Monitoring System** 

Power Generation 400 MW

**EPC Foster Wheeler Italiana** 

Voghera Energia, Italy





Total Organic Carbon TOC liquid Analysis system

5 streams:4 inlet in WWT1 outlet from WWT

Double Range Analyser

**Sampling Panel** 

Refinery, Middle Italy







Process Refractometer Integration Zone 2

**NESTE OIL, Oy** 

Rotterdam & Singapore Biodiesel Units





Sample Conditioning System 1 & 2 channels

To EEX p TOC analyser

**NESTE OIL Oy** 

Rotterdam & Singapore Biodiesel Units





Low Heating Value & Gas Density Analyser

Process calorimeter
Hazardous Area Zone 1, Eex p housing

Raw Gas from Wells to be burnt in turbine

**EPC General Electric / Nuovo Pignone Florence, Italy** 

Sakhalin Project, Russia





Low Heating Value & Gas Density Analyser

Process calorimeter
Hazardous Area Zone 1, Eex p housing

Raw Gas from Wells to be burnt in turbine

**EPC General Electric / Nuovo Pignone Florence, Italy** 

Qafco 5&6, Qatar





Low Heating Value & Gas Density Analyser

Process calorimeter
Hazardous Area Zone 1, Eex p housing

Raw Gas from Wells to be burnt in turbine

**EPC General Electric / Nuovo Pignone Florence, Italy** 

Queensland, Australia







CEMS downstream **biogas** combustion in 4 engines

4 independent streams analysis system

General Purpose Area





#### **ALSTOM POWER Group**

Several FGD flue gas desulphurisation units equipped by inlet & outlet Process Analysis Systems (SO<sub>2</sub>, O<sub>2</sub>, H<sub>2</sub>O...)

- Gardanne , France
- Maritza, Bulgaria
- Kusile, South Africa....





Triple NOX analysis systems up/down stream Denox Unit

#### **EPC Pensotti Boilers**

Greece, Hellenic Petroleum Refinery





In-Line Concentration Measurement Process Refractometers

Hazardous Area, Eex d enclosure

**BASF / CIBA Group, Italy** 









#### **CEMS**

Largest Bio-Ethanol Plant in the World from river cane

#### CHEMTEX, Mossi & Ghisolfi Group

@ Crescentino, Piemonte, Italy

QTY #4 Running Systems QTY #1 Back-up

CO; CO2; NO; NO2; SO2; H2O; HCl; by FTIR
O2 by Zirconium
TOC by FID
Stack Flue Gas FlowMetering
Dust Analysis







#### **CEMS**

Largest Bio-Ethanol Plant in the World from river cane

CHEMTEX, Mossi & Ghisolfi Group

- @ Crescentino, Piemonte, Italy
- -QTY #4 Running Systems
- -QTY #1 Back-up
- -Stack Flue Gas FlowMetering
- -Dust Analysis
- -Produced Biogas
- -Viscosity of Distillate





Al Jubail Project **SATORP** JV Total + Saudi Aramco Kingdom of Saudi Arabia

Qty #3 Systems for Hydrocarbons Detection as TOC value

- Pre sampling
- Sampling Conditioning System
- EEX p hazardous area TOC

( Witnessed FAT @ factory by Technip Inspection)









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Saturated & Superheated Steam Metering in **ENIpower**, **ERGpower**, **EDISONpower** ...

V-Cone flowmetering

Rating #150 -> #900 DN 4" - DN 48 « > 100 running units





**CEMS** 

Continuous Emissioning Monitoring System

SS316 Cabinet Hazardous Area, Eex p Housing

EPC Siirtec Nigi, Milan

Italy, Taranto Refinery, EniGroup









As per Customer's requirements, also micro-integrations are manufactured



## Worldwide Service

