Company Mission

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

This mission is accomplished by:

1. Supply of Industrial Equipment for Process Automation
2. Engineering, Construction and Installation of Analysis Systems
3. Service on Call, Scheduled Maintenance & Training on Site
The History

1976 Cavalli Bros. Established TECNOVA Company

1986 After a decade of success the TECNOVA Group was composed by Automation, Systems and Valves divisions

1994 After a buy-out management TECNOVA HT was born

1999 TECNOVASERVICE company was created

2009 New HeadQuarters
The Organization Chart

Sales
- Sales Director
- N & CS Italy Sales Manager
- Product Managers
- Area Managers
- Agents

Products
- Order Processing
- Procurement
- Laboratory
- Expediting

Systems
- Orders Processing
- Project Manager
- Engineering Manager
- Service
- Expediting

Financials
- Accounting

Quality
- Quality Manager
Around the Customer
The Market

**Oil & Gas**
- Saipem, Technip, etc.
- Eni Group, ExxonMobil
- Premabergo, Valvitalia

**Pharma**
- Pfizer
- Recordati
- Dompè

**Chemical**
- Basf
- Ciba
- Polimeri Europa
- Dow

**Food & Beverages**
- Heineken
- Procter & Gamble
- Ferrero

**Shipyards/FPSO**
- Fincantieri
- Grimaldi
- Rosetti Marino
- Saipem

**R&D**
- University La Sapienza Roma
- Politecnico Milano
- Cern
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
WorldWide Reputation

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
WorldWide Reputation

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
WorldWide Reputation

**SAIPEM** - ERSAI Kazakhstan
- Oil in Water analysers offshore

**SAIPEM** – Aquila FPSO
- Oil in Water analysers offshore

**SAIPEM** – OLT Tuscany – Offshore gasification Unit
- Interlocking Systems
WorldWide Reputation

Hassi r’mel Boosting Station 1.2 M USD

• V-cone flowmetering technology

Barzan Gas Project

• FAITH Fail Action Integrity Test Handling Systems
WorldWide Reputation

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
WorldWide Reputation

Chocolate Cream Production

- Sugar Concentration Brix grade by in line Refractometers

ST Microelectronics Microprocessors Production

- Acid Concentration by in line Refractometers
WorldWide Reputation

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

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

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

**On Site Activities**
- Installation Supervision
- Commissioning & Start-up
- Field Calibration
- Witnessed SAT
- Data acquisition
- Training

2013 - TECNOVA HT - Company Presentation
The References List

CEMS
Continuous Emissions Monitoring System
Power Generation 400 MW
EPC Foster Wheeler Italiana
Voghera Energia, Italy
The References List

Total Organic Carbon TOC liquid Analysis system

5 streams:
4 inlet in WWT
1 outlet from WWT

Double Range Analyser

Sampling Panel

Refinery,
Middle Italy
The References List

Process Refractometer Integration Zone 2

NESTE OIL, Oy

Rotterdam & Singapore Biodiesel Units
The References List

Sample Conditioning System 1 & 2 channels
To EEX p TOC analyser

NESTE OIL Oy
Rotterdam & Singapore Biodiesel Units
The References List

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
The References List

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
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Low Heating Value & Gas Density Analyser

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Raw Gas from Wells to be burnt in turbine

EPC General Electric / Nuovo Pignone
Florence, Italy

Queensland, Australia
The References List

CEMS downstream biogas combustion in 4 engines

4 independent streams analysis system

General Purpose Area
The References List

ALSTOM POWER Group

Several FGD flue gas desulphurisation units equipped by inlet & outlet Process Analysis Systems (SO₂, O₂, H₂O...)

- Gardanne, France
- Maritza, Bulgaria
- Kusile, South Africa....
The References List

Triple NOX analysis systems up/down stream Denox Unit

EPC Pensotti Boilers

Greece, Hellenic Petroleum Refinery
The References List

In-Line Concentration Measurement Process Refractometers

Hazardous Area, Eex d enclosure

BASF / CIBA Group, Italy
The References List

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
The References List

CEMS

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@ Crescentino, Piemonte, Italy

-QTY #4 Running Systems
-QTY #1 Back-up

-Stack Flue Gas FlowMetering
-Dust Analysis
-Produced Biogas
-Viscosity of Distillate
The References List

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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Al Jubail Project
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Kingdom of Saudi Arabia

Qty #3 Systems for Hydrocarbons Detection as TOC value

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The References List

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

V-Cone flowmetering

Rating #150 -> #900
DN 4" – DN 48 « > 100 running units
The References List

CEMS
Continuous Emissioning Monitoring System

SS316 Cabinet
Hazardous Area, Eex p Housing

EPC Siirtec Nigi, Milan

Italy, Taranto Refinery, EniGroup
The References List

As per Customer’s requirements, also micro-integrations are manufactured
Worldwide Service