TECNOCORR
Marine & Industry Cathodic Protection

# INDUSTRIAL DIVISION

cathodic protection
& corrosion services

*Our mission is to provide customers with the best support and service, and to work with them to develop their business and investment.*

Federico Balocco

# company **profile**

Tecnocorr s.r.l. is an Italian company founded as part of the Tecnocorr group, a world leading manufacturer of sacrificial anodes. Our highly skilled professionals have over 30 years of experience in the fields of corrosion engineering and cathodic protection.

Tecnocorr s.r.l. can offer a complete service from corrosion-related consultancy, site survey, engineering, supply, installation and maintenance of cathodic protection and anti corrosion systems.

With four locations in Italy, USA, UK and Tunisia, Tecnocorr s.r.l. can quickly respond to customer needs with the most technologically advanced and cost effective solutions.

# quality
## guaranteed

The Tecnocorr Group operates a Quality Management System compliant with the ISO 9001:2015 standard. Continuous inspections and controls are carried out throughout all service phases and upon their completion. To ensure the highest level of quality, our engineers consistently comply with the following standards and codes:


SGS

TECNOCORR S.r.l. - MARINE & INDUSTRY CATHODIC PROTECTION

ISO 9001:2015

**BS standards •**
**API standards •**
**DNV standards •**
**ASTM standards •**
**ISO standards •**
**IEC standards •**
**DEP standards •**
**ARAMCO standards •**
**US MIL specifications •**

SGS

Tecnocorr S.r.l.
Quality Management System certified to ISO 9001:2015
Certificate No. IT17/0853 issued by SGS

# engineering
## & activities

**PRE-DESIGN SITE SURVEY**
- Environmental measurments
- Water & soil resistivity
- Vertical Electrical Soundings
- Water & soil chemical composition
- Current drainage & Stray current testing

**ENGINEERING**
- Basic & detailed design
- Calculation reports
- C.P. System layout and drawings
- Complete documentation & instruction manuals
- Pre-commissioning test procedures
- Commissioning test reports

**SITE SERVICE**
- Supervision during installation
- Startup & commissioning
- On-site personnel training
- Corrosion monitoring
- Non-destructive tests
- Coating inspections

# made in **Italy**

Made in Italy stands for attention to details, superior quality and in-house knowledge.
This is what makes Italy unique amongst all others.
We provide our staff with the best working conditions, information, instruction, training and supervision as necessary, to enable all employees to carry out their work safely and to a high standard.

# customer **service**

Tecnocorr s.r.l. and its engineering department take care of all the different stages of the system design in order to offer advanced and highly customized solutions to its customers. We also provide personalised advice for the planning and installation of cathodic protection systems and on-site assistance for checking corrosion problems on all types of offshore facilities.

Corrosion is a set of electro-chemical processes that leads to progressive degradation and consumption of many metallic materials when they're exposed to the action of their surrounding environment (seawater, fresh water, soil, concrete, chemicals, moist or corrosive atmosphere).

# costs of c

direct and indirect damage of corrosion is

**6% of the gross domestic product**

in industrialized countries

# 5 METRIC

corroded

**7 billion dollars**

is spent every year in the US

for the corrosion of oil and gas pipelines

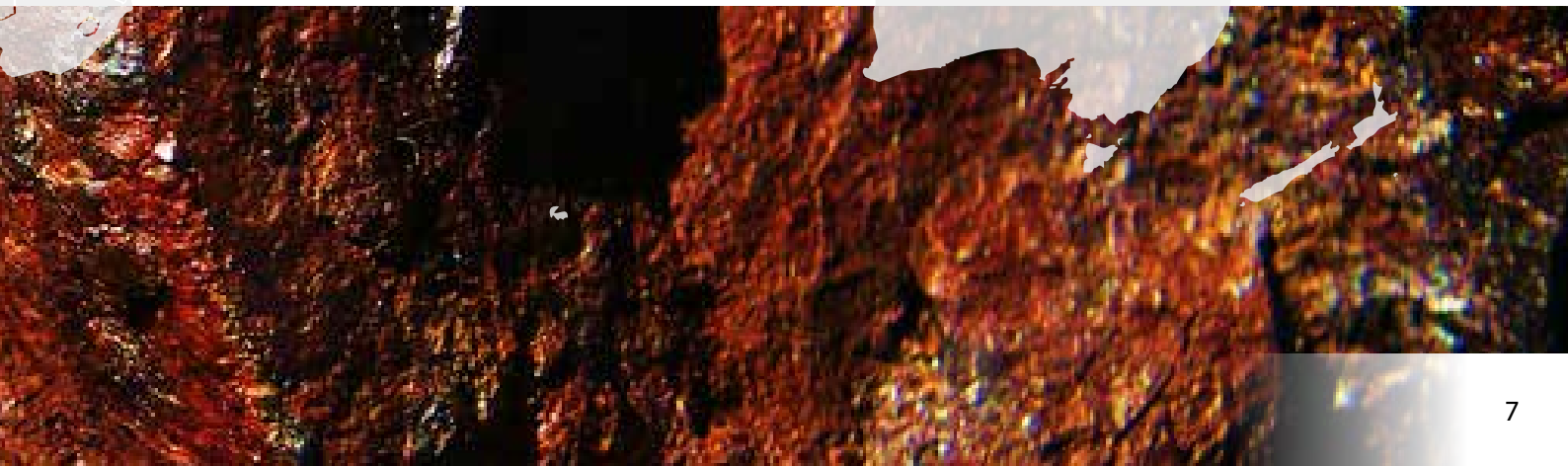
Although corrosion mechanisms are many and different, galvanic corrosion is the one of major economic impact. This kind of corrosion takes place when different metals in electrical contact or parts of the same metal with different physical properties, are placed in a conductive electrolyte, like seawater or soil.

# corrosion

**40%** **of all produced steel**
is used to replace corroded steel

**tons of steel**
every second worldwide

**30%** **of the costs could be saved**
with an efficient management of corrosive problems



# cathodic **protection**

By effectively protecting a metal structure, you can ensure that its integrity and functional properties can be preserved intact over time. This technological challenge involves many aspects of production such as design and proper choice of materials. In addition, it requires the application of suitable protective coatings and surface treatments, as well as implementing specific techniques like cathodic protection.

Cathodic protection is a technique used to protect metals by inhibiting those electro-chemical processes, which cause corrosion. The principle operation is based on making the structure that is intended to be protected the cathode of a galvanic cell. The cathodic protection, typically coupled with a good protective coating, is absolutely the simplest and most economical method for protecting metal structures over time from corrosion damage. Depending on the types of application, the cathodic protection can be effected by means of sacrificial anodes or impressed current systems.

Sacrificial anodes Cathodic Protection is performed by coupling the metal with a less noble material that will corrode instead of the main structure thereby preserving it over time.
The protection of metal hulls by less noble materials has been around for a long time. However, the continuous progress of technology and materials science has led to the development of anodic alloys with superior features and performances. The Teconseal s.r.l. group has an international reputation for continuous research and a great attention to quality. Tecnocorr s.r.l. offers a wide range of sacrificial anodes suitable for many applications in both the nautical/marine and industrial applications.

# against corrosion

In the industrial sector, when it's necessary to protect large metallic structures under severe environmental conditions, sacrificial anodes often become uneconomical or even an impractical solution. In these cases, the installation of an impressed current cathodic protection system (ICCP) may be the best solution. The heart of these systems is a power supply unit (T/R - Transformer/Rectifier) which draws power from mains electricity or from a solar powered system. The T/R supplies the structures with the electrical current needed to inhibit corrosion through a system of anodes designed for the surrounding environment.
Tecnocorr S.r.l. deals with all the different phases of the engineering, supply and installation in order to ensure the best results with the best cost/efficiency ratio.

over 35 years
of **expertise**

# our activities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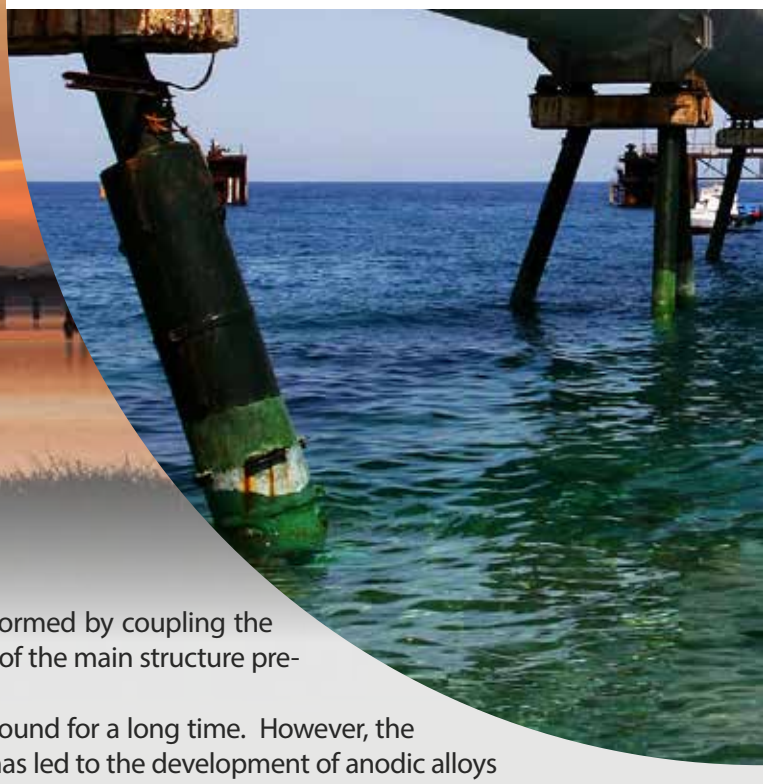
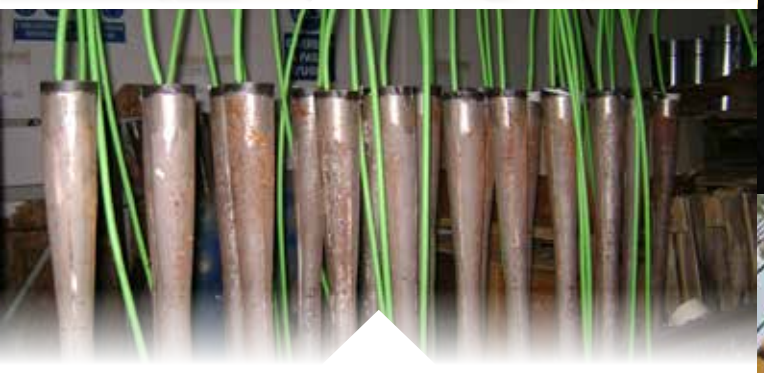
# sacrificial anodes

- Aluminium alloy anodes
- Magnesium alloy anodes
- Zinc alloy anodes
- Flush-mounted anodes
- Bracelet anodes
- Slender anodes
- Pre-packaged backfill anodes



The cathodic protection of a metal structure can be performed by coupling the metal with a less noble material, that will corrode instead of the main structure preserving it over time (sacrificial anodes).
The protection of metal hulls using zinc have has been around for a long time. However, the continuous progress of technology and material science has led to the development of anodic alloys with superior features and performance. The Tecnocorr s.r.l. group has an international reputation for constant continuous research and a great attention to quality. Tecnocorr s.r.l.offers a wide range of sacrificial anodes suitable for many applications in both nautical/marine and industrial applications.

In the Industrial sector, sacrificial anodes are of vital use for the protection of small port facilities, offshore platforms, subsea piping, internal storage tank surfaces and small pipelines. They also support for Impressed Current Cathodic Protection (ICCP) systems and are used as a temporary protection for on-shore and off-shore structures and pipelines.



# impressed current c.p. systems

Air & oil cooled transformer rectifiers •
Silicon-iron anodes •
MMO Titanium anodes •
Horizontal & vertical groundbed design •
Junction boxes and test points •
Electrical cable and accessories •
Remote monitoring & control •

In the Industrial sector, when it's necessary to protect large metallic structures under severe environmental conditions; sacrificial anodes often become an uneconomical or even an impractical solution. In these cases, the installation of an Impressed Current Cathodic Protection System (ICCP) may be the best solution.

The heart of these systems is a power supply unit (Transformer/Rectifier) which draws power from the mains electricity line or from a solar powered system. The ICCP supplies the structures with the electrical current needed to inhibit corrosion through a system of anodes designed for the surrounding environment.

Tecnocorr s.r.l. deals with all the different phases of the engineering, supply and installation in order to ensure the best result with the best cost/efficiency ratio.

# offshore platforms

- Stand off aluminium anodes
- Reference electrodes
- MMO Titanium anodes
- Sled-mounted anodes
- Tensioned anodes

Offshore platforms are constantly exposed to corrosion due to the harsh marine environment. Protection is carried out through aluminium or zinc sacrificial anodes, but when the weight of the structure is critical, an impressed current ICCP system or a hybrid system (impressed current combined with sacrificial anodes) can be the best option. Tecnocorr s.r.l. always performs a detailed study of all offshore platform s features, with particular attention to both to the marine environment parameters and to the issues related to the design and compatability of cathodic protection, with metallic materials and coatings. There are a variety of different ICCP systems that can be applied: suspended anodes or tensioned systems-systems with anodes directly connected to the structur-systems with remote anode groundbeds on the seabed. Tecnocorr's experience is critical to implement a careful design and selection of materials in order to provide the most advanced and effective CP system to preserve the life of the structure.

# sealines

Aluminium bracelet anodes •
Sled-mounted anodes •


External coating is the primary system for corrosion control on submarine pipelines.

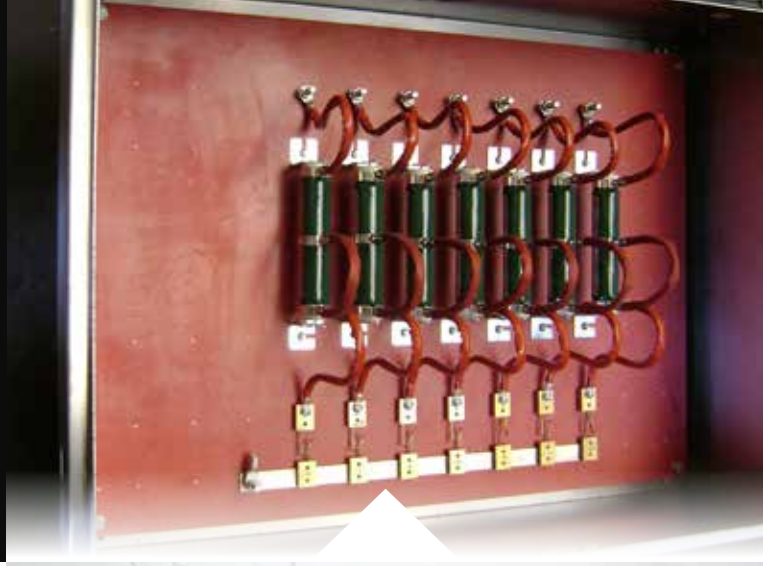
A cathodic protection system based on sacrificial anodes is also applied to protect the pipelines in case of any deficiency in the coating system.

Bracelet-type sacrificial anodes (aluminium-indium as a standard, or sometimes zinc) are the usual preferred system, although in cases of high temperatures; sled type anodes are typically installed.

Tecnocorr s.r.l. confronts the challenges of this extremely harsh saltwater environment by careful selection of materials and a constant commitment to research and innovation.

# pipelines

- Air & oil cooled Transformer/rectifiers
- MMO Titanium and Silicon-iron anodes
- Canistered anodes
- Flexible anodes
- Reference electrodes & corrosion probes
- Vertical deepwell & horizontal shallow groundbed
- Junction boxes & test stations
- Flange insulation kits & surge protection
- Insulating joints



Pipelines undergo different corrosion processes depending on the soil characteristics in which they are located. Pipeline integrity has to be maintained to ensure safe operation without failures that could jeopardize public safety, result in product loss, or cause property and environmental damage (dangerous and ethically unacceptable).
From an economic point of view, corrosion can lead to significant costs for both private and public sectors. The costs of corrosion can be significantly mitigated by the application of an effective corrosion protection system and an advanced monitoring system. Tecnocorr's strength and experience is based on many projects around the world for the protection of pipeline installations. These include desert areas in which, to achieve an adequate level of protection, impressed current systems were implemented using deepwell groundbeds with FeSi alloy anodes or Titanium MMO anodes. Tecnocorr s.r.l. provides the widest range of services for corrosion control and continuously offers the most innovative solutions to preserve structures from corrosion, maintain the efficiency of the pipelines and reduce their management costs.

# oil fields & refineries

Explosion-proof equipments •
Vertical deepwell groundbeds •
Fexible MMO titanium anode •
Junction boxes & test stations •
Insulating joints •
Solid state polarization cells •

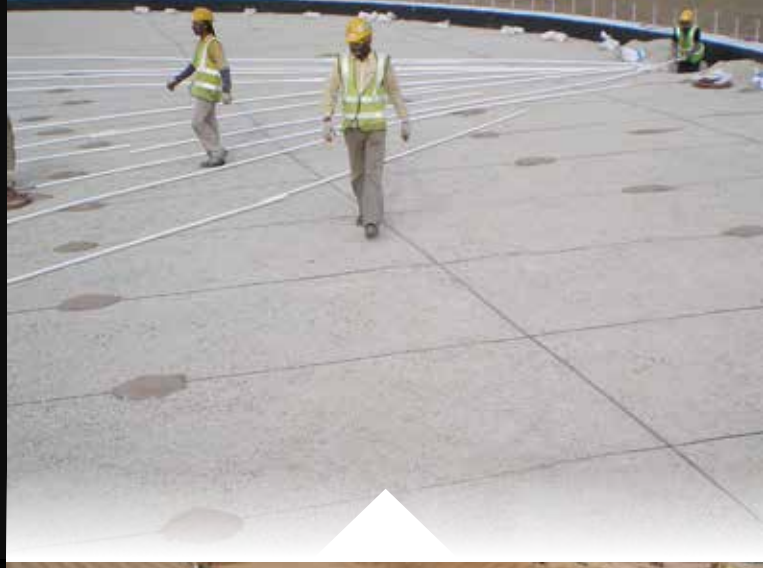
Oil fields and refineries are some of the largest structures in the oil and gas industry and represent a technological challenge for corrosion engineering and cathodic protection.

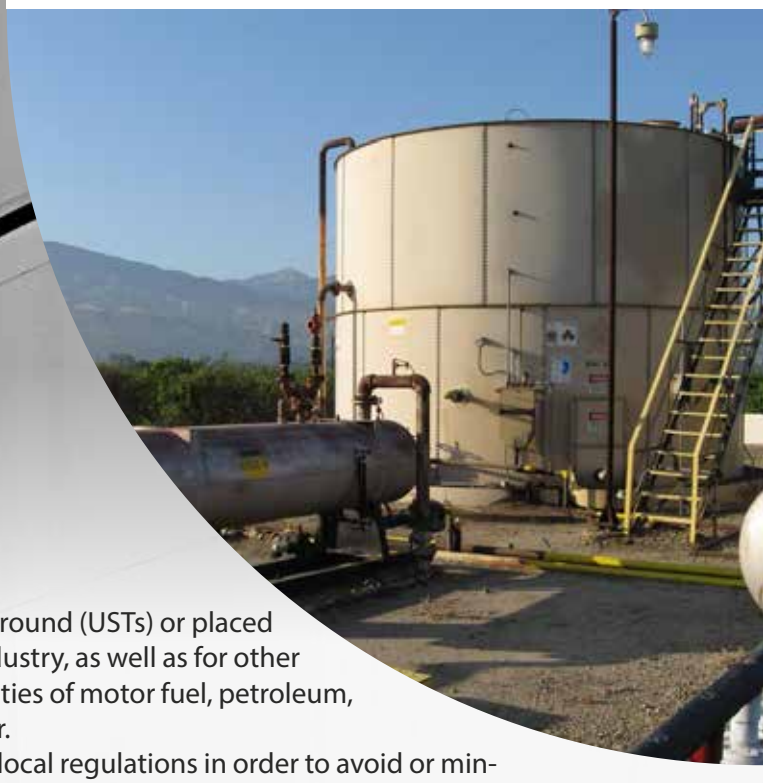
Buried pipelines running underground, large storage tanks, plants dealing with high temperatures and corrosive chemicals are all often located in the same area, and are affected by different corrosion problems.

Tecnocorr s.r.l. employs highly skilled technicians with over 30 years of experience in the design of anti- corrosion and cathodic protection systems and fully understand the problems arising in these structures. Our engineering department uses the most advanced products and technologies to offer the best and most cost-effective solutions to corrosion problems in these situations.

# storage tanks

- Air & oil cooled Transformer/Rectifiers
- Grid and loop arrangement MMO Titanium anodes
- Magnesium and zinc ribbon anode
- Aluminium and Magnesium anodes for internal
- ICCP for internal surface
- Reference electrodes with soil access
- Junction boxes & test stations
- Flange insulation kits

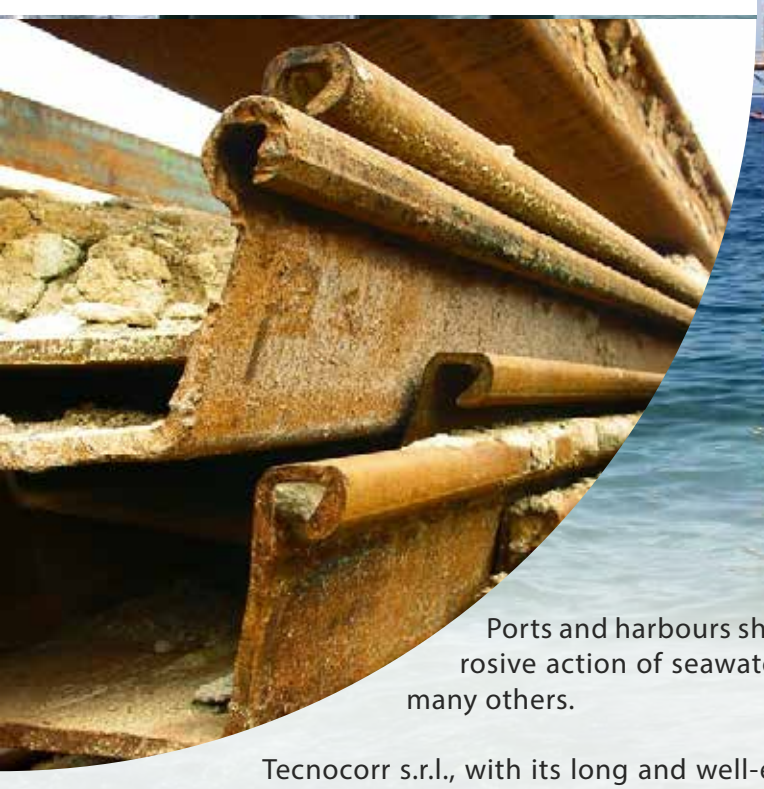




Corrosion of metallic storage tanks, both buried underground (USTs) or placed aboveground (ASTs) is a primary concern for oil&gas industry, as well as for other industries and facilities which need to store large quantities of motor fuel, petroleum, solvents, heating oil, lubricants, liquid gas or even water.
Both USTs and ASTs are subjected to strict national and local regulations in order to avoid or minimize the risk of product leackage, which may cause severe environmental damage.
To ensure an effective protection against corrosion, Tecnocorr s.r.l. offers a wide range of highly-customized solutions depending on specific tank's configuration, size, stored product and surrounding environment.
Ranging from the production and supply of sacrificial anodes for the protection of internal surface, to the complete design of ICCP system for the protection of large AST's bottom surface, Tecnocorr s.r.l. can offer the most advanced and cost-effective solutions to ensure the safety and the longest service life for your tanks.

# jetties & harbour facilities

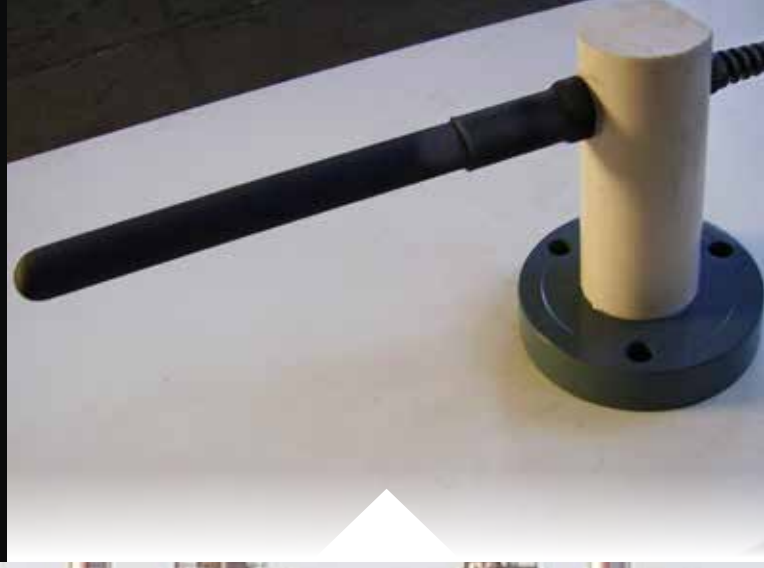
Automatic Transformer/Rectifiers •
Shielded MMO Titanium anodes •
Zinc and Ag/AgCl reference electrodes •
Junction boxes & test stations •
Canistered anodes •



Ports and harbours show a large variety of structures subjected to the corrosive action of seawater, like berths, mooring dolphins, jetties, quays and many others.

Tecnocorr s.r.l., with its long and well-established experience, offers a wide range of solution for protecting all of these structures ranging from cathodic protection of the sheet piles used for the containment of quays, to the steel foundation piles of piers.

# water intake & cooling systems



- Automatic Transformer/Rectifiers
- Flange-mounted MMO Titanium anodes
- Zinc and Ag/AgCl reference electrodes
- Junction boxes & test stations

Water from surface sources is often used by various industries for many uses and purposes, such as cooling of large power-generating systems, desalination, irrigation and oil&gas and petrochemical processing. Water intake structrures are needed to collect water and make it useful by filtering from scaling and fouling materials.

There are many structures that need to be protected against corrosion with different kind of solutions, such as intake structures, descaling and filtering systems, pumps, pipelines, heat exchanger and downstream installation.
Tecnocorr s.r.l. can offer a wide range of solutions for all of these structure, ensuring the longest lifetime and the best protection against corrosion.

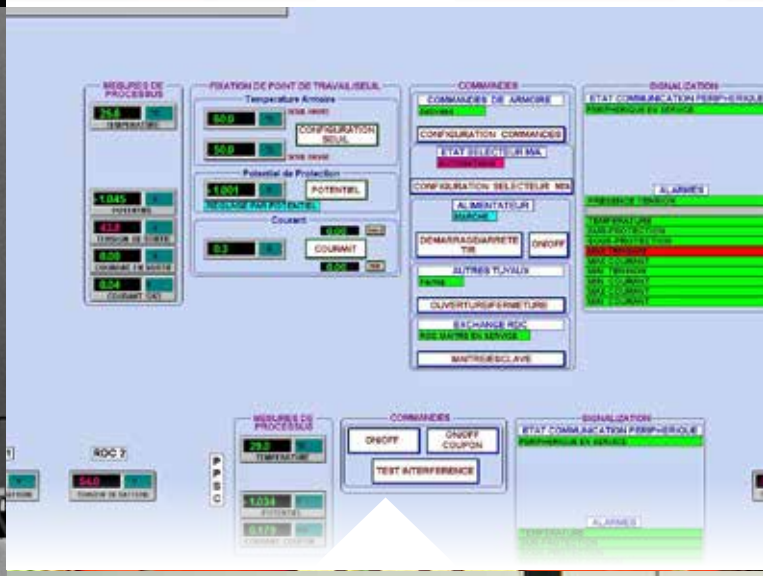
# reinforced concrete

Automatic transformer/rectifiers •
Wire & grid MMO Titanium anodes •
MMO Titanium reference electrodes •
Corrosion probes •

Reinforced concrete structures exposed to marine environment or other chloride-rich environment are prone to suffer from corrosion of the reinforcing steel.
This kind of corrosion may lead to severe concrete spalling and large section losses on reinforcing steel, which may result in significant damage or even collapse of the structures.
In addition to a careful design and a wise choice and good preparation of concrete, Cathodic Protection of new concrete structures is a proven and cost-effective solution to maximize the operating life and minimize the maintenance costs of many reinforced concrete structures.
Tecnocorr s.r.l. may offer customized solution using both galvanic anodes and ICCP systems for preventing and also monitoring reinforcing steel corrosion.
Cathodic protection of reinforced concrete is a little investment which will save lots of maintenance costs and may prevent your structures from serious damages.

# remote control & monitoring systems

- T/R unit control & command
- Polarization potential on/off cycle response
- Real time data visualization
- Potential attenuation vs. coating conductance
- Detection of coating defects on pipelines
- AC interference detection and evaluation
- Spectral analysis of polarization potential
- Integration with SCADA systems
- Solar powered



For a correct and efficient management of cathodic protection systems and corrosion prevention, it is always advisable to perform a series of periodic checks on the system itself and on the protected structures.
Tecnocorr s.r.l. offers a remote control & monitoring system developed in many years and tested with great success all over the world which allow the user to have a complete control on our systems, instantly detecting every possible breakdown or incorrect operating condition. In addition, our systems can detect coating defects on long pipelines and many other critical situation without the need for field and site inspection.
Our remote monitoring and control systems can be interfaced with SCADA systems already operating on the plants and can be solar-powered to allow installation in remote areas with no mains electricity line.
A remote control and monitoring system is an highly-effective way to minimize maintenance costs both in terms of site and field inspection and repair costs, and ensure the best performances for all the project life.

# methods & evolution of monitoring

1

On-site survey and inspection are usually carried out by specialized technicians and, in case of large structures or long pipelines, require long times and careful planning, These problems often result in lack of monitoring.

2

To detect damages and leaks in long pipelines, as well as holidays in pipeline's coating always require massive on-site inspection.

3

Technology makes it possible to minimize on-site surveys and inspections, automatically acquiring and recording data from cathodic protection systems and allowing fast and reliable data transmission, also in the harshest environments and conditions.

4

Our remote monitoring and control system dramatically improves the efficiency of your corrosion control strategy, allowing you to have a real-time visualization and full control over all the cathodic protection system's parameters, corrosion state of the structures and a reliable leaks detection.

# antifouling systems

- Copper-Aluminium anodes
- Copper-iron anodes
- Electrochlorination cells
- Automatic power feeding


It's a well-known fact that every structure in contact with seawater is prone to be covered with seaweed, shellfish, barnacles and many other marine organisms. This phenomenon is called "fouling" and always lead to a serious degradation of the performances of the interested structures.
Ship's hulls, seachests, water intakes, heat exchangers and cooling systems are amongst the structures that suffer the most marine fouling, which may cause serious damages in terms of increased drag force, clogging of pipes, filters and pumps and increased corrosion rate. Tecnocorr s.r.l. may design and supply antifouling systems based both on impressed current copper-aluminium anodes and electrochlorination cell. Copper-alluminum anodes systems are based on the well-known antifouling properties of copper, which is non-toxic for marine environment but inhibits the formation of fouling, while electrochlorination cells are electro-chemical devices able to produce sodium hypochlorite, a strong but non-toxic antifouling agent, directly from seawater without the need of other chemicals.

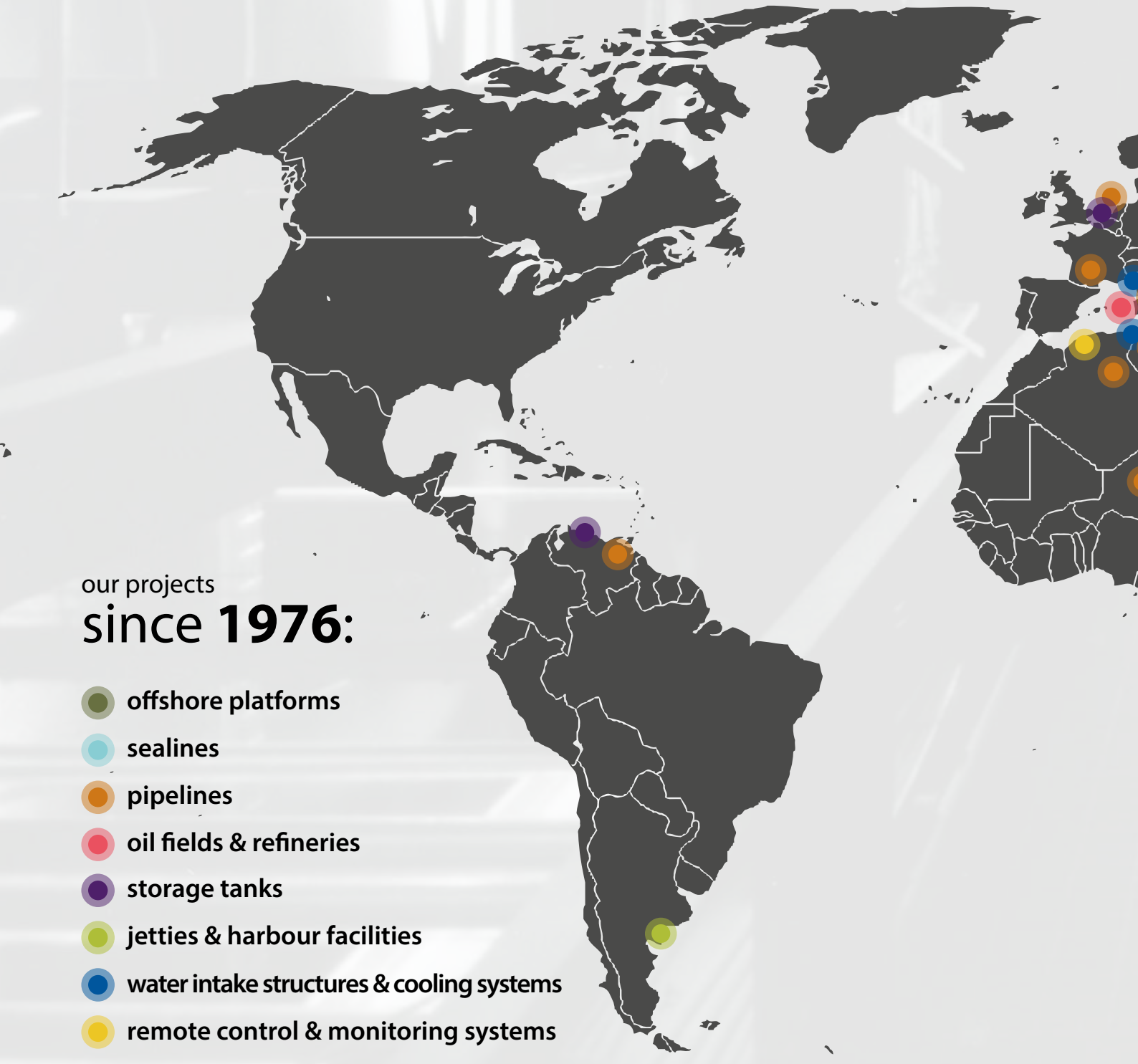
# trace heating

Self-regulating heating cables •
Constant-power heating cables •
Single-wire heating cables •
Thermal insulation •
Power feeding & Temperature regulation •

Heat tracing is a system used to maintain or raise the temperature of pipes and vessels in order to avoid fluids from freezing or increase their viscosity. Trace heating is performed via special heating cables running in physical contact along the length of the pipe. Pipe and vessels must then be covered with thermal insulation to retain heat losses.

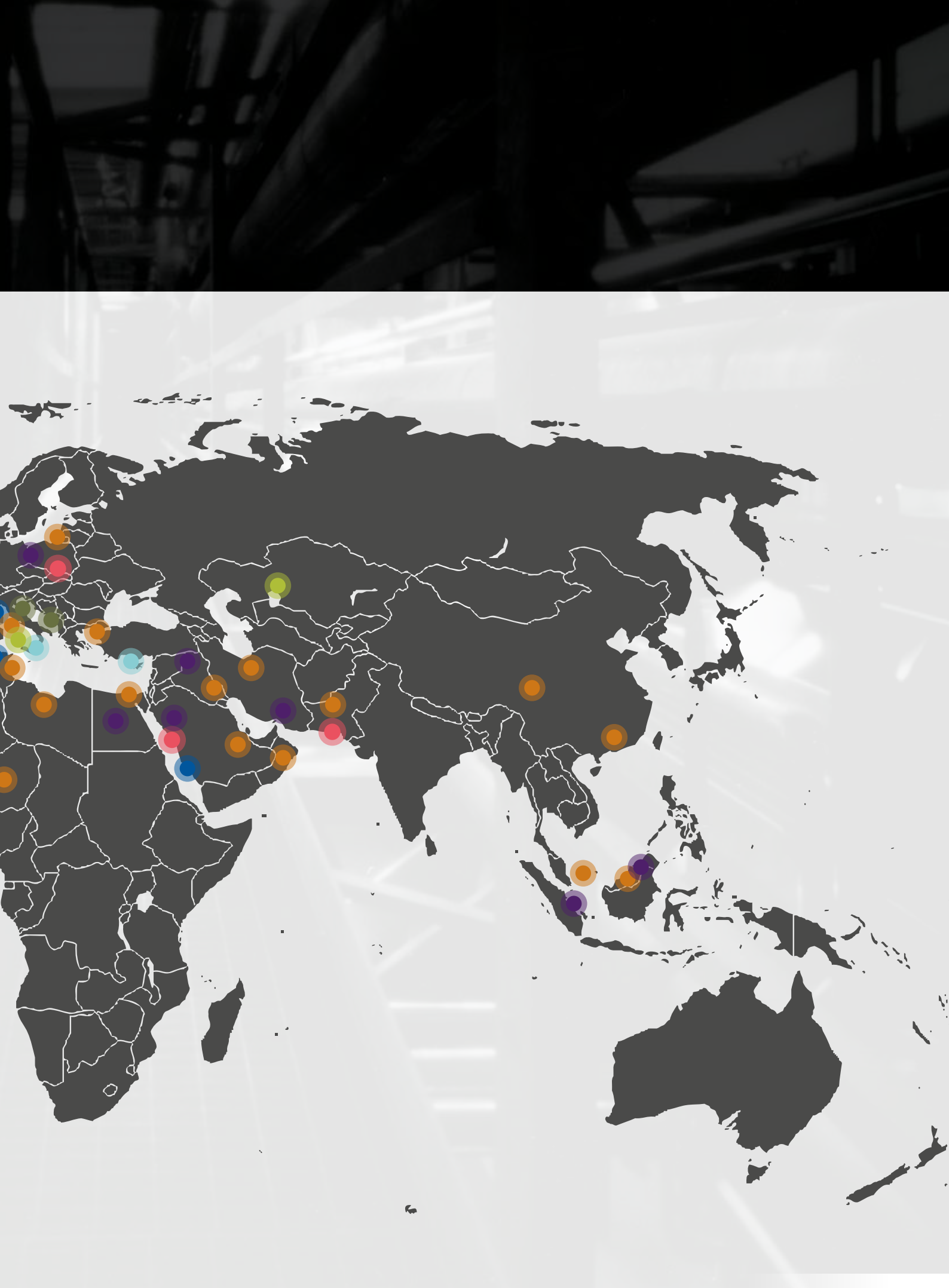
Tecnocorr s.r.l. can provide full-system's design and supply a wide range of heating cables suitable for different applications.

# significant **experience**



our projects
## since **1976**:

- offshore platforms
- sealines
- pipelines
- oil fields & refineries
- storage tanks
- jetties & harbour facilities
- water intake structures & cooling systems
- remote control & monitoring systems



# 1976

REFINERY PROJECT, oil field & refinery, **Karachi - Pakistan**

REFINERY PROJECT, oil field & refinery - sealine, **Rome - Italy,** **1977**

ANIC/ENICHEM PROJECT, tank & pipelines, **Gela - Italy,** **1979**

gas pipeline, **Piemonte, Liguria - Italy,** **1980**

MONTALTO DI CASTRO NUCLEAR POWER STATION, pipeline, **Montalto di Castro - Italy,** **1981**

ANSALDO PROJECT, underground train, **Lima - Peru,** **1985**

ANSALDO PROJECT, underground train, **Copenhagen - Denmark,** **1987**

ANSALDO PROJECT, underground train, **Naples - Italy,** **1988**

RHOURDE EL AMRA PROJECT, underground gas pipeline, **Algerie,** **1989**

RHOURDE NOUSS PROJECT, underground pipelines, **Algerie,** **1990**

PENNINA, BRENDA, BARBARA PLATFORMS PROJECT, offshore platforms, **Adriatic Sea - Italy,** **1990**

BIN QASIM POWER PLANT, water intake structures structures - internal/external pumps, **Bin Qasim - Pakistan,** **1990**

BISOTOUN RISING MAIN PIPELINE PROJECT, dia. 1400 underground pipeline, **Esfahan - Iran,** **1991**

BRINDISI POWER STATION PROJECT, underground pipelines & condensers, **Brindisi - Italy,** **1992**

LAYYAH DESAL PROJECT, desalination plant, **Layyah - UAE,** **1992**

LIGANG POWER PLANT PROJECT, underground pipelines, **Ligang - China,** **1993**

CARTIERE BURGO PROJECT, water intake structures structures, condenser & internal/external pipelines, **Duino - Italy,** **1993**

HUB RIVER POWER PLANT PROJECT, underground pipelines, **Hub River - Pakistan,** **1993**

MARGHERA REFINERY PROJECT, underground GPL bullets, **Marghera - Italy,** **1994**

BIR REBAA POWER PLANT PROJECT, underground pipelines, **Bir Rebaa - Algerie,** **1994**

BARBARA "G", GARIBALDI "C" PLATFORMS PROJECT, monitoring system for platform, **Arbatax - Italy,** **1994**

LIBERTY POWER PLANT PROJECT, underground pipelines & condensers, **Sharjah - Pakistan,** **1995**

BIN QASIM POWER PLANT PROJECT, condensers & heat exchanger, **Bin Qasim - Pakistan,** **1995**

ZAHARANI & BEDDAWI PROJECT, sealines, **Lebanon,** **1995**

LUBE OIL PLANT PROJECT, underground pipeline & jetty, **Augusta - Italy,** **1995**

SAN MARTIN PORT PROJECT, jetty, **Rosario - Argentina,** **1995**

ARAMCO TANKS DEPOT PROJECT, external & internal tanks - underground pipelines, **Jizan - Saudi Arabia,** **1995**

ETHYLENE OXIDE GLYCOL PLANT PRALCA, storage tanks & underground pipelines, **Maracaibo - Venezuela,** **1995**

AMOCO CHEMICAL PLANT PROJECT, storage tanks & underground pipelines, **Kuantan - Malaysia,** **1995**

EL TABLAZO CHEMICAL PLANT PROJECT, underground pipelines, **Maracaibo - Venezuela,** **1996**

ESCRAVOS LAGOS PROJECT, underground pipeline, **Lagos - Nigeria,** **1996**

TRANSTUNISIEN GASLINE PROJECT, underground pipelines, **Tunisie,** **1996**

SONATRACH GAS PIPELINE PROJECT, underground gas pipeline, **Hassi R' Mel - Algerie,** **1997**

RABIGH Water intake structures PROJECT, water intake structures stage 4 & 5 structures, **Rabigh - Saudi Arabia,** **1997**

YAMBU POWER STATION PROJECT, underground pipelines & condensers, **Yambu - Saudi Arabia,** **1998**

STEEL COMPLEX EXPANSION PROJECT, underground pipelines, **Khorasan - Iran,** **1999**

DARQUAIN OIL FIELD PROJECT, internal/externaltanks, **Darquain - Iran,** **2000**

BIN QASIM POWER PLANT PROJECT, water intake structures structures, **Bin Qasim - Pakistan,** **2000**

AGIP PRIOLO REFINERY PROJECT, LPG underground tanks, **Priolo - Italy,** **2000**

MIRFA POWER & DESALINATION PLANT PROJECT, water intake structures structures, **ABU DHABI - UAE,** **2001**

CONDEA JETTY PROJECT, jetty, **Augusta - Italy,** **2001**

RADES POWER STATION PROJECT, cooling water system & water intake structures structures, **Rades - Tunisie,** **2001**

**2002, Bandar Abbas - Iran**, water intake structures, REFINERY WATER INTAKE PROJECT

**2002, Genova - Italy**, sealine & offshore platform, PORTO PETROLI PROJECT

**2002, Haradh - Saudi Arabia**, storage tanks & underground pipelines, ARAMCO HARADH GAS PLANT PROJECT

**2003, Pu My - Vietnam**, storage tanks & underground pipelines, PU MY FERTILIZER PROJECT

**2003, Yambu - Saudi Arabia**, storage tanks & underground pipelines, SABIC ACETIC ACID PROJECT

**2004, Sur - Oman**, underground pipelines, OMAN - INDIA FERTILIZER PROJECT

**2004, Takreer - Saudi Arabia**, tanks & underground pipelines, TAKREER UNLOADED-GASOLINE/LOW SULPHUR PROJECT

**2004, Mellitah - Libya**, underground pipelines, MELLITAH GREEN STREAM PROJECT

**2004, Milazzo - Italy**, LPG underground tanks, MILAZZO REFINERY PROJECT

**2005, Priolo - Italy**, underground pipeline, ERG NORTH - SOUTH PIPELINE PROJECT

**2005, Zaghreb - Croatia**, offshore platforms & interconnection sealines, INA - IKA - ANA PLATFORMS PROJECT

**2005, Sannazzaro de Burgundi - Italy**, underground oxygen pipelines, ENI SANNAZZARO REFINERY PROJECT

**2006, Priolo - Italy**, underground pipelines, ERG MED PROJECT

**2006, Rosignano Solvay - Italy**, underground pipelines - water intake - pumps, SOLVAY COGENERATION PLANT

**2006, Poggio Renatico - Italy**, underground pipelines, SNAM GAS COMPRESSION PLANT PROJECT

**2007, Biskra, Skikda - Algerie**, underground pipeline diam 30", SONATRACH OLEODUC NK1 PROJECT

**2008, Biskra, Skikda - Algerie**, remote monitoring & control system, SONATRACH OLEODUC NK1 PROJECT

**2008, Vlore - Albania**, jetty, PIA TERMINAL PROJECT

**2008, Kuryk - Kazakhstan,** jetty extension, KURYK PORT PROJECT

**2008, Republic Singapor**, storage tanks & underground pipelines, NESTE OIL NEXBTL PLANT PROJECT

**2008, Gdansk - Poland**, storage tanks & underground pipelines, GDANSK REFINERY PKRT PROJECT

**2008, Al Arish - Egypt**, internal/external tanks & underground pipelines, EMG GAS PLANT PROJECT

**2009, Rotterdam - Holland**, storage tanks & underground pipelines, NESTE OIL NEXBTL PLANT PROJECT

**2009, Gdansk - Poland**, storage tanks & buried vessels, LOTOS REFINERY PROJECT

**2009, La Spezia - Italy**, sheet piles port facility , MIRABELLO PORT PROJECT

**2009, Livorno - Italy**, ship-lift , SHIPYARD PROJECT

**2010, San Severo - Italy**, underground fuel gas pipelines, SAN SEVERO CCCP PROJECT

**2010, Livorno - Italy**, quay sheet piles, MOROSINI SUD PROJECT

**2010, Bayet - France**, underground fuel gas pipelines, BAYET CCCP PROJECT

**2010, Thisvi - Greece**, underground gas pipeline, THISVI CCPP PROJECT

**2011, Livorno - Italy**, quay sheet piles, MOROSINI NORD PROJECT

**2011, Salerno - Italy**, sheet piles port facilities, MANFREDI QUAY PROJECT

**2012, Zubair - Iraq**, underground oil transfer lines & flow lines, ZUBAIR OIL FIELD PROJECT

**2012, Brindisi - Italy**, sheet piles port facility, BRINDISI PORT MONTECATINI TERMINAL PROJECT

**2012, Al Habaneya - Iraq**, storagetanks & underground pipelines, SCOP PS4 NEW PUMPING STATION PROJECT

**2013, Savona - Italy**, quay sheet piles, MARINA DI LOANO QUAY PROJECT

**2013, Kirkuk - Iraq**, external & internal storage tanks, SCOP 1st JUNE DEPOT - NEW DIBBS POWER STATION PROJECT

**2013, La Spezia - Italy**, quay sheet piles, EX LIPS DOCK PROJECT

**2014, Grosseto - Italy**, underground pipelines & monitoring system, WATER SUPPLY PIPELINES PROJECT

**Taranto - Italy**, jetty, ENI TARANTO REFINERY TEMPA ROSSA TERMINAL PROJECT

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*Thank you to everyone*
*who allowed us*
*to achieve our dream.*

Federico Balocco