

Education

M.Sc. Environmental Engineering,
Politecnico di Torino, Italy

EU financed, Inter-university
project at Universitat Politècnica
de Catalunya (UPC) in Barcelona,
Spain

Qualifications/Memberships

Formerly Engineers Association of
Torino province

Certificates/Training

First aid certificate (2017)

Fire extinguishing certificate (2014)

Safety and Environmental
Management in site works (2008)

Health and Safety Coordinator on
temporary site works (2003)

Professional History

REGENESIS:
Regional Manager Europe
2019 – current
Med District Manager
2011 – 2018

TRS Servizi Ambiente:
Tech Manager for Sales Dept.
2010 – 2011
Business Development Manager
2006 – 2010
Manager of Remediation Dept.
2005 – 2006
Manager of Design and R&D Dept.
2003 – 2005
Project Engineer and Site Manager
2001 – 2003

Profile

Eng. Marcello Carboni is the Regional Manager for Europe at REGENESIS. He joined the company in 2011. In his current role he coordinates the European Sales and Technical teams and evaluates the development potential of new countries. Marcello has 20 years contaminated land experience, having provided successful remediation designs and implementation on over one thousand projects across Italy and other countries in Europe. He is also a recognized speaker at many Italian and international contaminated land conferences.

Prior to his current role, Marcello was the District Manager for Mediterranean countries up until 2018, responsible for all sales and customer support across the area. Marcello provided remedial solutions using REGENESIS technologies to clients within the contaminated land and groundwater remediation industry. This included providing remedial designs, data review, attending project meetings and site visits to advise on application techniques and procedures.

His experience in contaminated land management is extensive, both at investigation and remediation stages: design, tendering, implementation and project management of several in situ, onsite and offsite technologies for contaminated soil and groundwater. This includes processes such as: bioventing, soil vapor extraction, Pump & Treat, excavation, ISCO, ISCR, enhanced bioremediation. He has been involved in some of the first ORC Italian applications in the early years 2000, at manufacturing plants and refineries.

Prior to joining REGENESIS, Marcello gained his first 10 years of experience in the design and implementation of remediation of contaminated sites whilst working for an Italian consultancy and contractor company.

He graduated in 2001 from the Polytechnic of Turin in Engineering for the Environment and Territory, having followed part of his academic studies at the Technische Universiteit Delft (TUDelft) in the Netherlands. He also participated at the Universitat Politècnica de Catalunya (UPC) in Barcelona for the development of an inter-university project financed by the European Community relating to the study of the transport of residual contaminants deriving from the reuse of treated civil waste water for irrigation purposes within the vadose zone.

Selected Project Experience**Former manufacturing site in North Italy, chlorinated solvents, 2M€ in situ remediation**

- Enhanced anaerobic bioremediation and in situ sorption of source areas and plume of superficial aquifer.
- REGENESIS provided technical support, supply and application of remediation products.
- Project Management, client management, coordination of the technical team and site personnel.

Selected Project Experience continued**Active pharmaceutical plant, North Italy, chloroform, 500k€ in situ remediation**

- Enhanced reductive dechlorination managed in multiple phases inside the plant and in surroundings.
- REGENESIS provided support in finding and proposing alternative innovative injection technologies to enhance product distribution in difficult site conditions and in non-accessible areas; supply of the products, installation of injection locations, injections.
- Project Management, client management, coordination of the technical team and site personnel.

High speed train railway station, North Italy, chlorinated solvents, 350k€ in situ remediation

- Enhanced reductive dechlorination supported by *in situ* sorption, using a combination of liquid activated carbon and electron donors, in multiple areas both inside, and in the surrounding area of, the train station.
- REGENESIS found the solution to remediate a widespread low concentrations plume in a large-scale public site with multiple stakeholders, involving work on the platforms, next to railway tracks and close to the busy station, minimizing interference with the station activities, public roads and other major ongoing site works.
- Project Management, client management, coordination of the technical team and site personnel; site management of pilot activities.

Redevelopment of a former gasworks site, North Italy, PAH, TPH, cVOC, 200k€ in situ remediation

- Build-up of an in situ protection barrier in the groundwater at the site boundaries using colloidal activated carbon, prior to realization of remediation activities of internal areas.
- REGENESIS provided technical support to find a solution to passively protect areas external to the property, while the client was realizing major excavation and ISCO activities. All on a strict time schedule, for the construction of a new office development. REGENESIS supplied the products, carried out the installation of injection locations and undertook the injections.
- Project Management, client management, coordination of the technical team and site personnel; coordination with drilling company and with other environmental companies involved in the redevelopment project.

Active manufacturing plant, Switzerland, chlorinated solvents, 100k€ pilot test

- Direct push injection for biostimulation and bioaugmentation of a cVOC plume exiting a manufacturing plant.
- REGENESIS identified with the consultant the depth of the layers requiring injections in a complex geology setting, supplied the remediation products and carried out the injection work.
- Project Management, client management, coordination of the technical team and site personnel; coordination with drilling company.

Dismissed chemical plant, South of Spain, chlorinated solvents, 100k€

- Application in different areas of a site heavily impacted by a variety of chlorinated solvents, using electron donors, zero-valent iron, dechlorinating microorganisms. Method: direct push injections and well injections.
- REGENESIS has evaluated the dosing to be applied in each area depending on specific site conditions; supply of the products, direct push injection of the products and technical support on site for in well application.
- Project Management, client management, coordination of the technical team and site personnel.

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