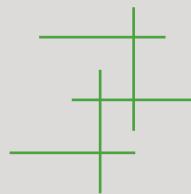


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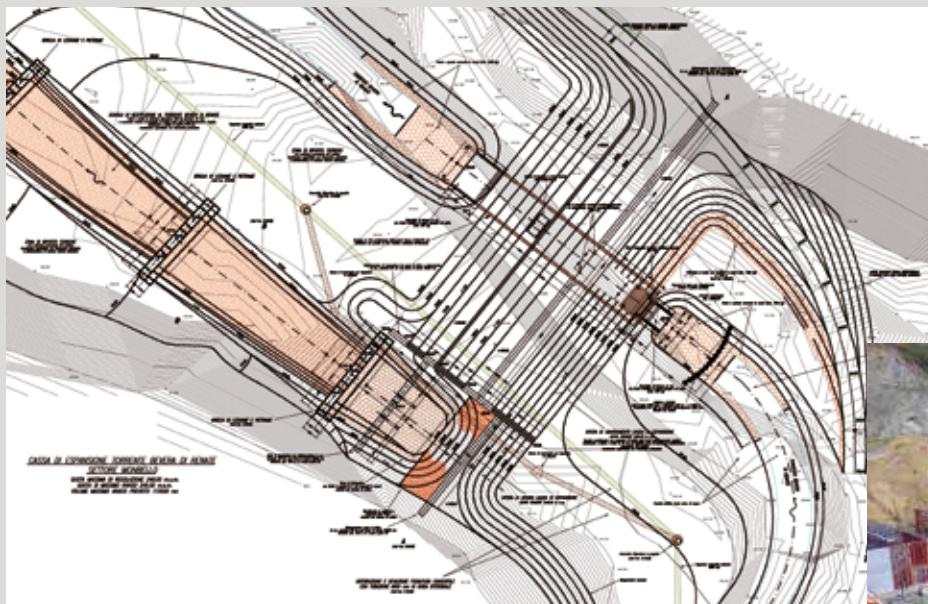


STUDIO PAOLETTI
INGEGNERI ASSOCIATI

Etaenergia s.r.l.

GROUP PROFILE

The Engineering companies **ETATEC STUDIO PAOLETTI s.r.l.** and **ETAENERGIA s.r.l.** with the professional Association **STUDIO PAOLETTI INGEGNERI ASSOCIATI** are operating since many decennia in different fields of hydraulic and environmental engineering.



▲ Lombardy Region - Flood retention reservoir project in Briosco on the Lambro River (1999)



▲ Servizi Ambientali SpA - Intermunicipal wastewater treatment plant in Borghetto Santo Spirito (2008)

Business fields

- Civil and industrial aqueducts and drinking water treatment plants
- Open channels and river navigation works
- Urban drainage, sewerages and waste water treatment plants
- Water resources management and hydraulic and environmental planning
- Road and railways hydraulics
- Waterpower and renewable energy plants
- River engineering



▲ Servizi Ambientali SpA - Work survey for the intermunicipal drainage pipes to the wastewater treatment plant in Borghetto Santo Spirito (2003)



▲ Lura Ambiente SpA - Sewerage modelling for the municipalities of the consortium (2000 - 2006)

Staff

**Estatec Studio Paoletti srl, Studio Paoletti
Ingegneri Associati, Etaenergia s.r.l.**

Partners:

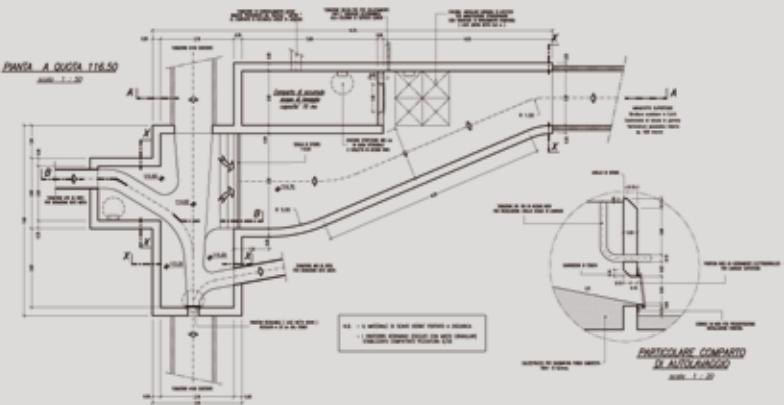
- Prof. Ing. Alessandro Paoletti (founder partner)
- Dott. Ing. Giovanni Battista Peduzzi
- Dott. Ing. Vincenzo Ciccarelli
- Dott. Ing. Stefano Croci
- Dott. Ing. Filippo Malingegno
- Dott. Ing. Cristina Giuseppina Passoni



▲ Official for the Po river – Nizza Monferrato municipality – Work survey for the new mouth of the Nizza river into the Belbo river (1999 - 2004)

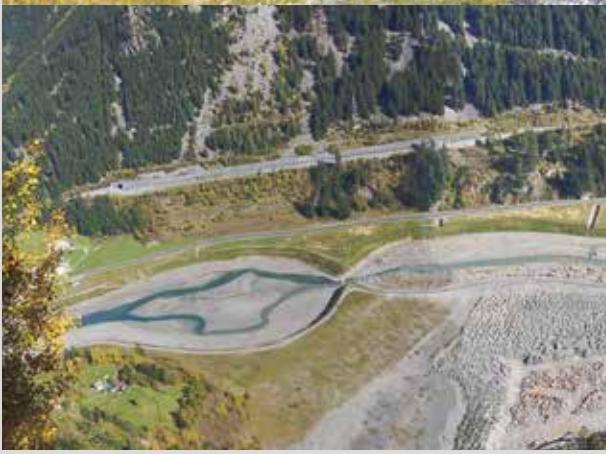
The **founder**, Prof. Ing. Alessandro Paoletti, has been from 1980 to 2010 full Professor in Hydraulic Constructions in Milan Polytechnic and from 1992 to 2010 President of Urban Hydraulics Research Center (CSDU) at the Milan Polytechnic.

The Group consists of more than 30 people, including more than 20 hydraulic and environmental engineers and surveyors who have extensive work experience in different fields of hydraulic and environmental engineering.



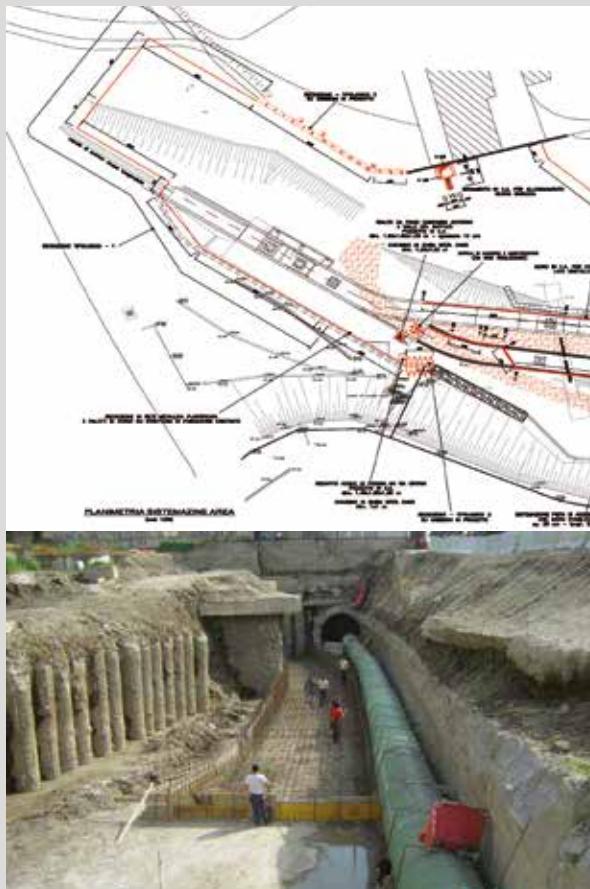
▲ TASM Spa – Project and work survey for the new sewer trunk line Cesano Boscone - Corsico – Overflow weir of the sewer trunk line (2003 - 2008)

The Group maintains continuous relationships with scientific research in hydrology, hydraulics and hydraulic engineering and collaborates regularly with university-level experts in complementary disciplines such as geology, hydrogeology, structural and mechanical engineering, electrical and electronic engineering, architecture, urban planning and environmental sciences.



LOMBARDY REGION – Sondrio Province
Project and work survey for the hydraulic protection on the Adda River in the area affected by the Val Pola's landslide (2008 - today)

Main References



Urban drainage, sewerages and waste water treatment plants

- NAPLES MAJOR - Commissario Straordinario Emergenza Sottosuolo - Preliminary and detailed projects and work supervisions of the rehabilitation and enhancement works of the main sewer and drainage networks in Naples (2001÷today)
- SERVIZI AMBIENTALI S.P.A. (SV) - Preliminary and detailed projects and work supervisions of intermunicipal wastewater treatment plant in Borghetto S. Spirito and supply and drainage systems (1997÷today)
- COMMISSARIO STRAORDINARIO EMERGENZA SARNO (NA) - Detailed projects of intermunicipal sewer system in Subcomprensorio 3, wastewater treatment plant in Subcomprensorio 1 and rehabilitation of sewerage in Scafati municipality (1998÷2007)
- ENIA S.P.A. (RE) - Guide lines definition for management and treatment of urban polluted rainwaters in sewerage systems in the Ambito Territoriale Ottimale n°3 - Regione Emilia Romagna (ATO 3 RE) (2006÷2007)
- ASTEM S.P.A. (LO) - Preliminary and detailed projects and work supervisions of the sewerage system in Lodi municipality (2004÷today)
- S.I.S. SOCIETÀ ITALIANA SERVIZI - Cattolica (RN) - Master Plan and detailed projects of the rehabilitation and enhancement works of the urban drainage networks in Riccione (RN) (2006÷2009)

▲ Naples Major - Commissario Straordinario Emergenza Sottosuolo - Work survey for the overflow weirs on the sewer trunk line Arena S. Antonio (2005 - today)

Civil and industrial aqueducts and drinking water treatment plants

- AMAP S.P.A. (PA) - Preliminary and detailed projects of the Rosamarina aqueduct from Casteldaccia to Risalaimi drinking treatment plant of Palermo (1996÷2003)
- LURA AMBIENTE S.P.A. (VA) - Master plan, preliminary and detailed projects of aqueducts and water systems in the municipalities of the consortium (1998 - today)
- AZIENDA SERVIZI INTEGRATI COLLINE COMASCHE S.p.a. - Master plan, preliminary and detailed projects of aqueducts and water systems in the municipalities of the consortium (1995÷today)
- ECOSYSTEM S.P.A. - Master plan, preliminary and detailed projects of aqueducts and water systems in the municipalities of the consortium (1980 ÷today)
- ACRA, Association for the Rural Cooperation in Africa and Latin America, ONG - Detailed and constructive project of aqueduct and water system project for 14 villages in N'Jombe district, Iringa Region (Tanzania) (2006÷2008)
- BERGAMO PROVINCE - Master plan, preliminary and detailed projects and work supervision of the new aqueduct Pianura Bergamasca for water supply of about 70 Municipalities after the emergency caused by atrazine (1988÷ 1995)



▲ Bergamo Province - Pumping station of Pianura Bergamasca Aqueduct in Osio Sotto (1988 - 2000)

Water resources management and hydraulic and environmental planning

- EMILIA ROMAGNA REGION, ARPA Bologna - Feasibility study of low environmental impact storages for irrigation purposes in Piacenza Province (2006÷2007)
- BERGAMO PROVINCE – Master Plan for Water Resources Management for entire province (2008÷2011)
- BASIN AUTHORITY FOR THE PO RIVER – Management plan of the alluvial sediments of the riverbed of the Po river from Turin to the Adriatic sea (2004÷2008)
- SONDRIO PROVINCE, SOGESID S.P.A. - Master Plan for Water Resources Management for entire province (2008÷2011)
- IRER, Regional Research Institute of Lombardy - Technical, scientific and operative support for the Regional Water Protection Plan (2001÷2006)
- C. LOTTI & ASSOCIATI - Basin Authority for the Po River – Master Plan for flooding defence in the Lambro river - Olona river catchment, (2001÷2004)
- HYDROAID - Water for Development Management Institute (TO), Ministry of Foreign Affairs of Italy - Scientific and technical survey for urban drainage in Brazil – Italy International Cooperation (2005÷2008)
- BASIN AUTHORITY FOR THE ARNO RIVER – Survey and review of the projects regarding flooding defence in the Arno river catchment (2002÷2004)
- EXPO 2015 S.P.A. (MI)– Technical, scientific and operative support for Hydraulic sector of EXPO 2015 Master Plan, including the Parco della Via d'Acqua up to Naviglio Grande in Milan (2008÷2010)



▲ IRIDE ENERGIA S.p.a. (TO) – Pont Ventoux Srl – Construction of the barrage on the Dora Riparia river for the waterpower plant Pont Ventoux – Susa (1993 - 2004)



▲ Naples Major - Commissario Straordinario Emergenza Sottosuolo – Work survey for the overflow weir on the sewer trunk line in Epomeo street (2008 – today)

Road and railways hydraulics

- AUTOSTRADA PEDEMONTANA LOMBARDA S.P.A. - Guidelines for the design of drainage and waste water treatment platform highway and hydrological - hydraulic studies of various sections of the highway (2008)
- MILANO SERRAVALLE - MILANO TANGENZIALI S.P.A. - Assago (MI) (2008÷in atto) Hydraulic study and physical hydraulic modelling (1999÷2002) and detailed project (2008÷today) for A7 highway's bridge on the Po river to protect the bridge's piers scouring
- CEPAV DUE. High Speed Railway Torino – Venezia. Support to the detailed project of railways viaducts over Oglio and Serio rivers (2013)
- MILANO SERRAVALLE – MILANO TANGENZIALI S.P.A. – A52 Tangenziale Nord Milano. Rho – Monza reach. Validation of the hydraulic components of the final design (2014)
- AUTOSTRADE CENTRO PADANE S.P.A. (CR) - Hydraulic and environmental impact advice for the final project of the new highway near Castelvetro LINKING the SS 10 "Padana Inferiore" and the SS 234 and of the new bridge over the Po river (2003÷2005)
- AUTOSTRADE CENTRO PADANE S.P.A. (CR) – Numerical modelling 2D and hydraulic physical modelling of the Po river at the new bridge over the Po river of the motorway linking the SS 10 "Padana Inferiore"; study of erosion caused by the bridge piles (2010÷today)

Waterpower and renewable energy plants

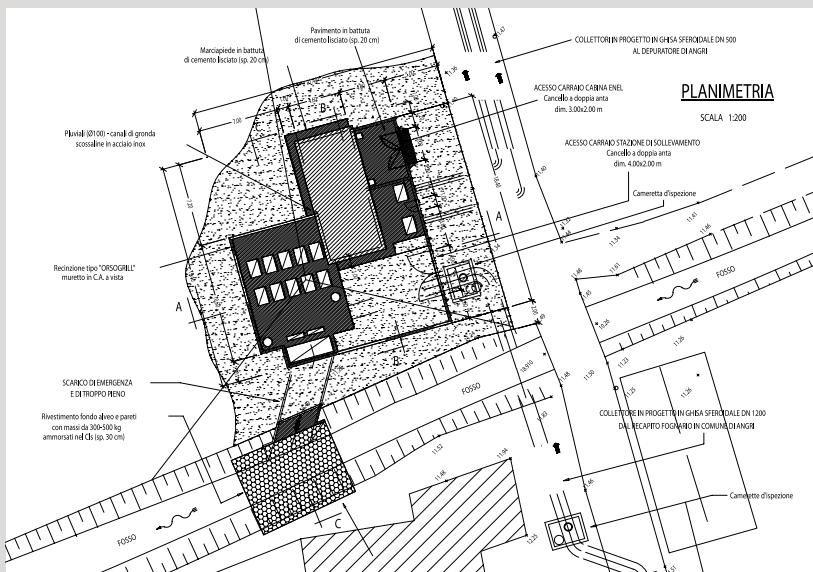
- **PONT VENTOUX SCRL - IREN S.P.A. (TO) (ex Iride Energia Spa)**: Detailed and constructive projects of the pumping storage 150 MW hydropower plant of Pont Ventoux - SUSA (1993÷2006)
- **IREN S.P.A. (TO) (ex Iride Energia S.P.A.)** - Final and detailed projects for renewing and upgrading of Salbertrand - Chiomonte and Chiomonte - Susa hydropower plants (2008)
- **ECOWATT s.r.l. (BS)** - Detailed project and work supervision of the new hydropower plant of Porlezza (CO) (2006÷2008)
- **TRENTO PROVINCE** - Hydraulic and project-financing studies over district's hydropower plants (2005).
- **EDIPOWER S.P.A. (MI)** - Preliminary project for renewing and upgrading of the hydropower plant of Gravedona (CO) (2007)
- **EDIPOWER S.P.A. (MI)** - Analysis of management scenarios of the Villa di Chiavenna (SO) reservoir (2003÷2004)
- **EDISON S.P.A.** - Hydrological and hydraulic study of the Giaredo and Rochetta reservoirs on the Magra river catchment (MS) (2001)
- **LA GRANDE STUFA s.r.l.** - Villaguardia (CO) - Final and detailed projects and work supervision of the biomass power plant and district heating network in Villaguardia (CO) (2006÷2012)
- **REC s.r.l. - REPOWER Italia S.P.A. (MI)** - Final project of the pumping storage 600 MW hydropower plant of Campolattaro (BN) (2010)



▲ ECOWATT srl - Turbine testing for waterpower plant in Val Rezzo (2006)

River engineering

- **PARCO VALLE LURA (CO)**. Preliminary, final and detailed projects of detention storages in Bregnano and Lomazzo for flood mitigation of the Lura river (CO) (2012 – today)
- **AIPO Agenzia Interregionale per il Po** – Feasibility study of the regulation, morphological restoration and re-naturalization of the Po river through new hydropower barrages on the stretch from Cremona up to the Mincio river mouth (2008÷2010)
- **LODI MUNICIPALITY** - Hydrologic-hydraulic study of the Adda river in the town of Lodi and detailed project and work supervision of flooding defense of the town (1999÷today)
- **LOMBARDY REGION AND SONDRIO PROVINCE** – Preliminary, final, detailed projects and work supervision of the hydraulic regulation and morphological restoration of the Adda river and the whole area affected by the Val Pola landslide near Boronio in Valtellina (1997÷today)
- **LOMBARDY REGION AND SONDRIO PROVINCE** – Preliminary, final, detailed projects and work supervision of the hydraulic regulation and morphological restoration of the Torreggio river and the whole area affected by the Torreggio landslide near Torre S. Maria in Valtellina (1997÷today)
- **AIPO Agenzia Interregionale per il Po** – Preliminary and final projects of the hydraulic protection works against the Po river flooding in the area of Arena Po (PV) (2005÷2010)
- **AIPO Agenzia Interregionale per il Po** – Feasibility study and detailed projects prof the detention storages for flood mitigation of the Seveso river in Milan (2011÷today)
- **LOMBARDY REGION** – Final and detailed projects of the hydraulic protection works against the Lambro river flooding in Agliate near Carate Brianza (MI) e in S. Giorgio di Villasanta (MI) (2000÷2009)



▲ Commissario Straordinario Emergenza Sarno (NA) – Project of intermunicipality sewer system in Subcomprensorio 3 – Layout of the pumping station in Angrisani Municipality (2001 - 2005)

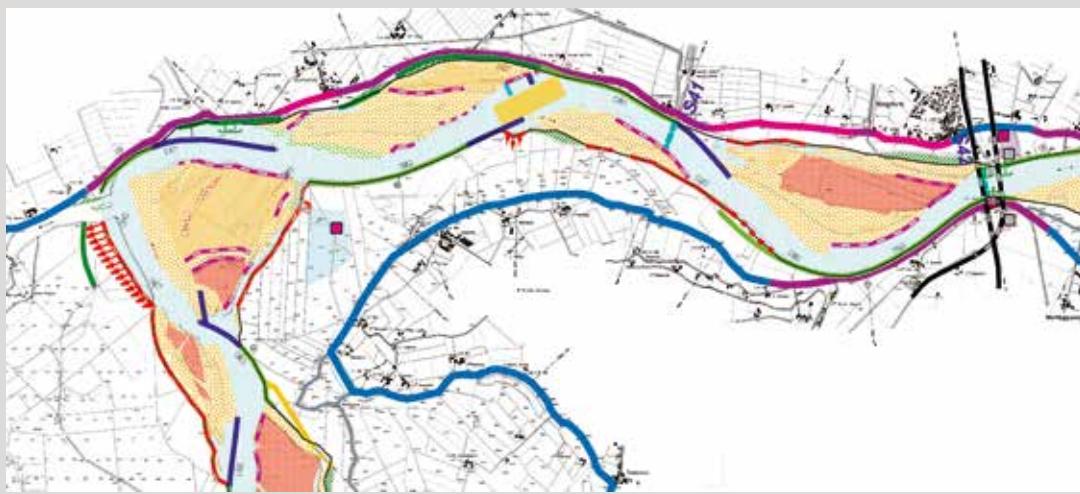
Main Clients

AEB S.P.A. (SEREGNO - MI)
 A2A S.P.A. (MI)
 AEM S.P.A. (TO)
 AGAC S.P.A. (RE)
 AIPO (EX MAGISTRATO PER IL PO) - PARMA
 ALPINA S.P.A. (MI)
 ALPINA ACQUE Srl (FC)
 ASTEM S.P.A. (LO)
 AUTORITÀ DI BACINO DEL F. PO (PR)
 AUTORITÀ DI BACINO DEL F. ARNO (FI)
 AUTOSTRADA PEDEMONTANA LOMBarda S.P.A. (MI)
 AUTOSENTE CENTRO PADANE S.P.A. (CR)
 AZIENDA SERVIZI INTEGRATI COLLINE COMASCHE S.P.A. (EX
 CONSORZIO INTERCOMUNALE DI FINO MORNASCO-CO)
 AZIENDA SPECIALE AMAP – PALERMO (EX AZIENDA
 MUNICIPALIZZATA ACQUEDOTTI DI PALERMO)
 CAP HOLDING SPA (MI)
 COMUNE DI ASSEMELINI (CA)
 COMUNE DI BERGAMO
 COMUNE DI BOLLATE (MI)
 COMUNE DI CESANO MADERNO (MI)
 COMUNE DI GIUSSANO (MI)
 COMUNE DI IGLESIAS
 COMUNE DI LODI
 COMUNE DI LIVIGNO (SO)
 COMUNE DI LURATE CACCIVIO (CO)
 COMUNE DI MILANO
 COMUNE DI NAPOLI
 COMUNE DI NIZZA MONFERRATO (AT)
 COMUNE DI S. GIULIANO MILANESE (MI)
 COMUNE DI SESTO SAN GIOVANNI (MI)
 COMUNE DI VENEZIA
 CONSORZIO DI BONIFICA DESE-SILE (VE)
 CONSORZIO DI BONIFICA EST TICINO VILLORESI (MI)
 CONSORZIO DI BONIFICA MEDIA
 PIANURA BERGAMASCA – (BG)
 CONSORZIO DI BONIFICA PARMIGIANA-MOGLIA SECCHIA (RE)
 CONSORZIO DI BONIFICA PIACENZA
 ECOSYSTEM S.P.A. (EX CONSORZIO INTERCOMUNALE DI
 MERATE-LC)
 ECOWATT ENERGIE RINNOVABILI s.r.l.
 EDIPOWER S.P.A.
 EDISON S.P.A. (MI)
 ENIA S.P.A. (RE)
 ENTE IRRIGUO UMBRO TOSCANO (AR)
 EXPO 2015 S.P.A. (MI)
 FERROVIE NORD MILANO S.P.A.
 GENIA S.P.A. (EX AZIENDA MUNICIPALIZZATA SERVIZI PUBBLICI -
 SAN GIULIANO MILANESE

IREN S.P.A. (TO) (EX IRIDE ENERGIA S.P.A.)
 IRISACQUA s.r.l.
 LA GRANDE STUFA s.r.l. (VILLAGUARDIA CO)
 LURA AMBIENTE S.P.A. (EX CONSORZIO INTERPROVINCIALE
 PER IL RISANAMENTO DEL BACINO DEL T. LURA) –
 CARONNO PERTUSELLA (VA)
 METROPOLITANA MILANESE S.P.A.
 PARCO VALLE LAMBRO (MB)
 PARCO VALLE LURA (CO)
 MILANO SERRAVALLE - MILANO TANGENZIALI S.P.A. (MI)
 PONT VENTOUX S.C.A.R.L. (TO)
 COMMISSARIO STRAORDINARIO EMERGENZA SARNO
 PROVINCIA DI BERGAMO
 PROVINCIA DI COMO
 PROVINCIA DI CREMONA
 PROVINCIA DI GENOVA
 PROVINCIA DI RAGUSA
 PROVINCIA DI SONDRIO
 PROVINCIA DI TRENTO
 REC s.r.l. - REPOWER ITALIA S.P.A. (MI)
 REGIONE EMILIA ROMAGNA
 REGIONE LOMBARDIA
 REGIONE SARDEGNA
 ROMAGNA ACQUE S.P.A.
 SERVIZI AMBIENTALI S.P.A. (EX CONSORZIO
 INTERCOMUNALE DI BORGHETTO S. SPIRITO-SV)
 SIEMENS S.P.A. (PV)
 SINDACO DI NAPOLI - COMMISSARIO STRAORDINARIO
 EMERGENZA SOTTOSUOLO E VERSANTI DELLA CITTÀ DI
 NAPOLI
 S.I.S. SOCIETÀ ITALIANA SERVIZI S.P.A. (RICCIONE)
 SOGESID S.P.A. (ROMA)



▲ AIPO - Interregional Agency for the Po River - Nizza Monferrato Municipality - Work survey for the new mouth of the Nizza River into the Belbo River (1999 - 2004)



▲ Basin Authority for the Po River - River bed alluvial sediment management Master Plan in the Po River (2004 - 2008)



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