

# SINTEA

SERVIZI INGEGNERIA E TECNOLOGIE AVANZATE



SINTEA srl □ Via Filippo Juvara 9 □ I - 20129 MILANO

Telefono +39 02 62065549

Email [info@sintearl.com](mailto:info@sintearl.com) □ PEC [pec.sintea@cert.telecompec.it](mailto:pec.sintea@cert.telecompec.it)

# SINTEA

SERVIZI INGEGNERIA E TECNOLOGIE AVANZATE

## GENERAL INFORMATION

Sintea was founded in 2002 by bringing together the experiences of Engineers, Technicians and Specialists who have gained, for over 30 years, significant professional experience in the professional or managerial level with industrial groups and engineering companies, producing power plants, industrial, manufacturing, large infrastructure and facilities to the civil service, both in Italy and abroad.

Sintea is able to face and develop all phases of a project, from feasibility study for the preparation of budgets and programs of works, from detailed design to procurement, construction supervision, project management, project control, testing, commissioning, management administrative orders.

Sintea is also able to provide specific advice on price analysis, calculations and estimates, technical specifications, contract documents, specifications and contracts, technical assistance during construction, technical and administrative assistance, quality control of security issues, technical issues -regulations.

## SITE AND ADDRESS

SINTEA Srl

Via Filippo Juvara, 9 20129 - Milano

Tel.: +39-02-62065549

Website: <http://sintea.xoom.it/>

Email: [info.sintea@alice.it](mailto:info.sintea@alice.it)

PEC: [pec.sintea@cert.telecompec.it](mailto:pec.sintea@cert.telecompec.it)

R.E.A. 1694809

P.IVA 03696210966

R.I. of Milan n. 03696210966

Registered at the Chamber of Commerce of Milan from 17-10-2002 to number 1,694,809

Registered with the Registrar of Companies from 10/23/2002 to MI-number 2002-240399

ATECO codes:

- Main activity : L-68.20.01
- Secondary activity : M-74.90.9

## OTHERS INFORMATIONS (Turnover in the last years)

2010	84.449 Euro
2011	74.809 Euro
2012	150.570 Euro
2013	156.371 Euro
2014	306.872 Euro

2015	312.161 Euro
2016	313.294 Euro
2017	363.554 Euro
2018	198.419 Euro
2019	191.453 Euro

## ATTACHMENTS

- list partners and Sintea organization
- areas of intervention and type of business
- list of main customers
- list of projects and activities carried out by the Sintea

## SINTEA Srl - Partners and consultants

NAME	PROFESSIONAL COMMITTEE	ITEM
Carlo Piemonte	Engineers - Brescia	971
Alberto Piatti	Engineers - Varese	1400
Vincenzo Lungarno	Engineers - Milan	17554

## Professional organization

Specialization / Profession	Partner / Consultants
<ul style="list-style-type: none"> <li>• Energy plants design, factory facilities, HVAC, mechanical and electrical plants for buildings</li> </ul>	Carlo Piemonte
	Alberto Piatti
	Vincenzo Lungarno
	Andrea Masella
	Mauro Piemonte
<ul style="list-style-type: none"> <li>• Business consulting and project management</li> </ul>	Paolo Timoni
	Eduardo Szego
<ul style="list-style-type: none"> <li>• Civil works, steel and reinforced-concrete structures</li> </ul>	Pier Benedetto Toschi
<ul style="list-style-type: none"> <li>• Informatics area</li> </ul>	Nicola Piatti
<ul style="list-style-type: none"> <li>• Secretary</li> </ul>	Liadia Abreu

# SINTEA

SERVIZI INGEGNERIA E TECNOLOGIE AVANZATE

## FIELDS OF ACTIVITY

**SINTEA srl** (Servizi Ingegneria Tecnologie Avanzate) carries out its activities within the services, engineering and advanced technologies and in particular:

### **S** E R V I Z I (SERVICE)

- real estate services relating to the purchase, sale, exchange, construction, renovation, leasing and maintenance of facilities equipped;
- services related to the lease of office space with the supply of skilled personnel, including non-employee.

### **I** N G E G N E R I A (ENGINEERING)

- engineering services such as technical consulting, design and supervision;
- preparation of feasibility studies / economic;
- Main Contractor activities for the construction of technological systems;
- Management of projects and works of construction activities and / or facilities.

### **T** E C N O L O G I E **A** V A N Z A T E (ADVANCED TECHNOLOGIES)

- research, development, trade promotion and sale of technologies, materials and machinery.

Here are the details of the activities in engineering and advanced technologies.

# SINTEA

SERVIZI INGEGNERIA E TECNOLOGIE AVANZATE

## INGEGNERIA (ENGINEERING)

### DESIGN SERVICES

- feasibility studies
- overall design
- civil and structural engineering
- plant design
- technical and economic evaluations and restructuring projects for civil and industrial construction
- specific technical, administrative and contractual purchases and contracts

### PROJECT MANAGEMENT

- general planning
- estimate
- programming
- project control
- contract Administration

### ADVICE ON SPECIFIC SECURITY, FIRE AND ENVIRONMENT

### DIRECTION OF WORK

- work supervision
- high surveillance

### AUDITING PROJECTS

- investigative techniques
- checks and preventive programs
- assessments of how to tender

### SERVICE CONTRACT FOR PURCHASE

### TECHNICAL CONSULTING FOR HEAT PUMPS

With regard to the supply of heat pumps to large size, technical support from the manufacturer:

- definition of the optimal machine
- design
- construction
- delivery to the customer
- installation supervision
- assistance to start-up and testing

# SINTEA

SERVIZI INGEGNERIA E TECNOLOGIE AVANZATE

## INGEGNERIA (ENGINEERING)

### AREAS OF INTERVENTION

- thermal power plants and cogeneration
- renewable energy plants:
  - geothermal energy (heat applications)
  - biomass
  - energy recovery from gas decompression
- district heating and cooling
- heat pumps of high power and high temperature
- building services for civilian use, hospital, commercial or industrial (hvac systems, thermo-hydraulic, fire protection, compressed air, electrical and special)
- aqueducts - sewers - gas pipelines

Sintea has developed a qualified know-how in the definition process of high-efficiency power plants, with the identification of plant configurations and philosophies optimal adjustment to maximize energy efficiency and economical

# SINTEA

SERVIZI INGEGNERIA E TECNOLOGIE AVANZATE

## TECNOLOGIE AVANZATE (ADVANCED TECHNOLOGIES)

**SINTEA** is engaged in research, development, promotion and installation of technologies, materials and high technology machinery and under the contract has entered into a collaboration agreement for Italy with the Company **Friotherm AG** in Winterthur (Switzerland) promotion, marketing and installation of **heat pumps** has great potential.

The use of heat pumps and of great potential for the production of hot water at high temperature is a technology with multiple applications on a large scale, some of which are running successfully for over twenty years.

The application requires the availability of a source consisting of cold water from river, canal, lake, ground water, low temperature geothermal or waste or municipal sewage treatment plants, derived from processing circuits (eg, water circuits tower), to which it is possible to subtract a thermal power. Generally, the water derived from surface water bodies is recovered thermal energy with a temperature jump of only 3 ° C. Moreover, it is necessary that a consumer becomes available consists of a thermal hot water circuit. The temperature that you can reach for the hot water leaving the heat pump is 78 ° C for up to 9 MWt power unit and even 90 ° C for potential users of more than 9 MWt (heat pumps with centrifugal compressor).

The heat pump is reversible and can be used not only to produce heat for the production of energy cooling (chilled water temperatures of 6 to 12 ° C outlet / inlet of the evaporator heat pump) for environmental conditioning.

# SINTEA

SERVIZI INGEGNERIA E TECNOLOGIE AVANZATE

## MAIN CLIENTS

### Public and private Clients

on behalf of:

- 3E Ingegneria Srl - Pisa
- A2A Milano Friotherm AG
- AB Impianti Srl
- AG Power - Riva del Garda(Cartiere del Garda e AGS) Friotherm AG
- American Husky III Srl
- BAS S.p.A. - Bergamo Ambiente e Servizi - Bergamo - Italia Friotherm AG
- CNR - Istituto di Geoscienze e Georisorse - Pisa
- CNR-IRSA sede di Bari
- Degrémont - Milano
- Ecoenergia Srl
- GPC IP - Parigi
- IML Impianti Srl
- Infrastrutture Lombarde SpA
- IPCF - CNR - UOS Cosenza
- Metanalpi
- Milano Depur SpA
- Nord Energia SpA
- Noy Ambiente - Dalmine (BG) Friotherm AG
- Ospedale San Raffaele di Milano
- Politecnico di Milano - Dip. di energia Robur SpA
- Provincia di Sassari
- SEM Morbegno Friotherm AG
- Sidelmed
- Studio 5 Srl
- Telecom Italia Spa
- Università degli studi di Milano
- Varese Risorse SpA



**CURRICULUM VITAE**  
**CARLO PIEMONTE**

**Born:** 28/05/1951 to Milan  
**Nationality:** Italian  
**Residence:** Brescia - Via Calvi, 22  
**Degree:** Mechanical engineer (energy specialization)  
**Eng. Order:** Brescia, n. 971, since 1975  
**Languages:** Italian, English, French

**General Background:**

- Project management.
- Feasibility studies.
- Detailed design of power plants: heat and power units, district heating systems, geothermal energy utilization, natural gas turbine expanders, energy recovery systems for industrial applications;
- Detailed design of facilities for industrial and civil buildings: HVAC plants, water and sewage, compressed air, steam plants, fire-fighting, natural gas supply, etc.
- Professor and searcher at the Energy Department of the Polytechnic of Milan from 1974 to 2000 and at University of Brescia since year 2000.
- Consultant of Techint SpA - Milan from 1978 to 2002.
- Energy manager of BAS (Bergamo Ambiente e Servizi) from 1992 to 2005.
- President of the Geothermal Committee of AIRU (Italian District Heating Association) from 1990 to 1994.
- President of UGI (Italian Geothermal Association) from 1994 to 2005.
- Professor in Energy Management for engineers at LIUC (University Carlo Cattaneo) of Castellanza from 1994 to 2002
- Professor at University of Brescia (Civil Engineering Department) from 2002 to 2012.
- Vice-President of European Geothermal Conference (Basel, 1999)
- Member of IGA (International Geothermal Association) Board of Directors from 2001 to 2004
- Weekly training course on geothermal applications at the University of Salto (Uruguay) in 2010

**Present Qualification:**

- Senior Partner of SAI (Studio Associato di Ingegneria).
- Founding member of the Sintea Srl - Via F. Juvara, 9 - Milan

**Qualifications:**

- Fire prevention: Registration in the list of professionals in DM 25/03/1985
- Construction site safety: Enabling coordinator for the planning and execution of the work (ex
- Legislative Decree 494/96 now Legislative Decree 81/08)
- Regional Register of Inspectors, n. 3069 from 2001

**CURRICULUM VITAE**  
**ALBERTO PIATTI**

**Born:** 10/09/1958 to Varese  
**Nationality:** Italian  
**Residence:** Varese - Via Mulini Grassi, 5  
**Degree:** Mechanical engineer (energy specialization)  
**Eng. Order:** Varese, n. 1400, since 1985  
**Languages:** Italian, English

**General background**

- Detailed design for projects for plants in public concerns, services (particularly: hospital and industrial field).
- Project Engineering for "Turn Key" plants in energy field
- Technical and economical feasibility studies
- Energy saving and renewable and alternative energy sources studies and projects
- Natural gas pipelines and distribution systems, HVAC, cogeneration , geothermal energy utilization, power plants, electric energy recovery from the natural gas depressurization feasibility studies and projects
- Consultant of Techint SpA - Milan from 1985 to 2002.
- Professor at Libero Istituto Universitario Carlo Cattaneo (LIUC) - Castellanza (VA) since 1994, in Thermodynamics and Energy Management

**Present Qualification**

- Consultant
- Professor in "Thermodynamics" and "Facility services for industry" courses at LIUC University of Castellanza (VA)
- Founding member of the Sintea Srl - Via F. Juvara, 9 - Milan

**Qualifications:**

- Fire prevention: Registration in the list of professionals in DM 25/03/1985
- Construction site safety: Enabling coordinator for the planning and execution of the work (ex Legislative Decree 494/96 now Legislative Decree 81/08)
- Regional Register of Inspectors, No 3070, for the category technological systems
- Safety at Work: Head of Prevention and Protection
- Structural work: qualified to perform testing under Act 1986 of 1971

**CURRICULUM VITAE**  
**VINCENZO LUNGARNO**

**Born:** 07/10/1961 to Usmate-Velate (MB)  
**Nationality:** Italian  
**Residence:** Usmate-Velate (MB) - Via Vittorio Emanuele II n. 10  
**Degree:** Mechanical engineer (energy specialization) in 1990 at Politecnico - Milan  
**Eng. Order:** Milano, n. 17554 since 1994  
**Languages:** Italian / French

**General Background**

- Detailed design projects for plants in public concerns, services (particularly: hospital and industrial field).
- Project Engineering for "Turn Key" plants in energy field
- Technical and economical feasibility studies
- Energy saving and renewable and alternative energy sources studies and projects
- Natural gas pipelines and distribution systems, HVAC, cogeneration , geothermal energy utilization, power plants, electric energy recovery from the natural gas depressurization feasibility studies and projects
- Software preparation for energy balances and simulation of the behaviour of energy plants
- Direction of works and accounting of works
- Consultant of Techint SpA - Milan from 1990 to 2002.
- Assistant at Libero Istituto Universitario Carlo Cattaneo (LIUC) - Castellanza since 2001

**Present Qualification**

- Consultant
- Founding member of the Sintea Srl - Via F. Juvara, 9 - Milan

**Qualifications:**

- Enabling the role of emergency fire service representative (pursuant to Legislative Decree no. April 9, 2008 n. 81 art. 46 and DM 10 March 1998)
- Enabling the role assigned to the first aid company (pursuant to Legislative Decree no. April 9, 2008 n. 81 art. 45 and the DM 388/03)

**SINTEA**

**S**ERVIZI **I**NGEGNERIA E **T**E<sub>C</sub>NOLOGIE **A**VANZATE

**LIST OF  
PROJECTS**

## LIST OF PROJECT

Year	Client - location	Job	Work performed
2002 - 2006	BAS S.p.A. - Bergamo Ambiente e Servizi - Bergamo - Italia	District heating plant for the ex-Magrini area in Bergamo with heat pump (3 MW) and cogeneration engine (2 MW)	Technical assistance to Friothersm (manufacturer of the heat pump) in the definition phase, design, construction, installation and start-up of the heat pump.
2005 - 2009	A2A Milano	50 MWt cogeneration station for supplying the district heating system of Milano Canavese, including a 15 MW heat pump	Technical assistance to Friothersm (manufacturer of the heat pump) in the definition phase, design, construction, installation and start-up of the heat pump.
2005 - 2009	A2A Milano	50 MWt cogeneration station for supplying the district heating system of Milano Famagosta, including a 15 MW heat pump	Technical assistance to Friothersm (manufacturer of the heat pump) in the definition phase, design, construction, installation and start-up of the heat pump.
2006 - 2009	AG Power - Riva del Garda (Cartiere del Garda e AGS)	50 MWe combined cycle power station for supplying Cartiere del Garda and the district heating system of Riva del Garda	Technical assistance to Friothersm (manufacturer of the heat pump) in the definition phase, design, construction, installation and start-up of the heat pump.
2007 - 2009	Noy Ambiente - Dalmine (BG)	Trigeneration station for S.Raffaele Hospital (Milan) - 20 MWe - 60 MWt - 40 MWf	Technical assistance to Friothersm (manufacturer of the heat pump) in the definition phase, design, construction, installation and start-up of the heat pump.
2008 - 2009	SEM Morbegno	Cogeneration station for the district heating system - 14 MWe - 30 MWt including a 4 MW heat pump	Technical assistance to Friothersm (manufacturer of the heat pump) in the definition phase, design, construction, installation and start-up of the heat pump.
2008 - 2008	GPC IP - Parigi	Geomadrid project: 30 MWt district heating system including a 5 MW heat pump fed by geothermal source	Technical assistance to Friothersm (manufacturer of the heat pump) during the offer heat pumps
2008 - 2009	Provincia di Sassari	Geothermal district heating system (15 MW) for Casteldoria area including 2 x 3 MW heat pumps	Technical assistance to Friothersm (manufacturer of the heat pump) during the offer heat pumps
2008 - 2008	GPC IP - Parigi	Thermal station (25 MWt) for the Boulogne-Billancourt district heating and district cooling system in Paris, including 3 heat pumps	Technical assistance to Friothersm (manufacturer of the heat pump) during the offer heat pumps
2009 - 2009	Degrémont - Milano	8 MWe cogeneration plant with heat pump for city depuration plant (San Rocco - Milan)	Technical assistance to Friothersm (manufacturer of the heat pump) during the offer heat pumps
2009 - 2009	Milano Depur SpA	4 MWe cogeneration station with heat pump fed by the water of the purification plant (Nosedo - Milan)	Technical assistance to Friothersm (manufacturer of the heat pump) during the offer heat pumps
2011 - 2012	Infrastrutture Lombarde SpA	Città della Salute e della Ricerca - Milan (High Technology Hospital and Research Centre). Design of: HVAC and mechanical plants - trigeneration station (8 MWe - 25 MWt - 25 MWf)	Technical cooperation in the feasibility study
2011 - 2011	CNR - Bari	Vigor Project - Geothermal heating system for IRSA-CNR of Bari, with utilization of absorption heat pumps	Feasibility study and basic design
2011 - 2011	CNR - Bari	Project Vigor - Geothermal district heating system of CNR and Rende University (Calabria), including a 3 MW heat pump	Feasibility study and basic design
2012 - 2012	Town House	HVAC systems for new suites of Town House	Works Direction
2012 - 2012	CNR	Project Vigor - Use of geothermal energy for drying sludge from the sewage treatment plant of Lamezia Terme (CZ)	Feasibility study and basic design
2012 - 2012	CNR	Project Vigor - Use of geothermal energy for the drying process of pasta in Santa Cesarea Terme (LE)	Feasibility study and basic design
2012 - 2013	CNR	Project Vigor - Use of geothermal energy to power a desalination of sea water in Termini Imerese (PA)	Feasibility study and basic design
2012 - 2012	CNR	Vigor Project - Technical Report for the design of a plant for district heating and / or cooling at the site Vigor of Mazara del Vallo	Feasibility study and basic design

## LIST OF PROJECT

Year	Client - location	Job	Work performed
2012 - 2013	Nord Energia SPA	Redefining the general architecture of the combined cycle power plant of 125 MW in Ceriano Pond (MB)	Feasibility study and basic design
2012 - 2014	Regione Lombardia Ministero dell'Istruzione, Università e Ricerca	Project DeGAss (Gas Dehumidification with double absorption) under the call for "Industrial research and experimental development in strategic sectors"	Market research and definition of technical specifications - Designing an application case
2012 - 2013	Avv. Rampinelli	Central heat with heat pumps air / water service Rampinelli Villa in Bovezzo (BS)	Detailed engineering and Works Direction
2012 - 2013	Toscana Energia Green	Energy recovery at the plant of Saint-Gobain Pisa	Feasibility study
2012 - 2013	Ferraris Energia	Central heat with heat pumps air / water service to the building site at Via Cardano 8	Detailed engineering and Works Direction
2013 - 2014	Intergen	Trigeneration plant from 1.2 MWe to the service of the office of Telecom Italy Rome Oriolo	Detailed engineering
2013 - 2013	Ospedale San Raffaele	Renovation of thermal power plant with the addition of a heat pump air / water service to the complex Ville Turro Hospital San Raffaele in Milan	Detailed engineering
2014 - 2016	Politecnico di Milano Dipartimento di Energia	Measures to reduce energy consumption and CF production processes in the food industry	Energy analysis
2014 - 2015	MetanAlpi Sestriere teleriscaldamento	Recovery of sensible heat of condensation of exhaust gas engines cogeneration in the three district heating systems in Sestriere, Pragelato and San Sicario	Intermediate design
2014 - 2014	Blu Energy Milano Srl	Completion connections utilities OSR - Power system TLR Milan 2 - Adjustment trigeneration plant NIC	Basic engineering
2014 - 2015	Intergen	Trigeneration plant for the establishment Lamberti in Zanica (BG)	Detailed engineering
2014 - 2014	Telecom Italia SpA	Use of geothermal energy at the headquarters of Telecom Italy in Rozzano	Feasibility study
2015 - 2016	American Husky III Srl	Thermoelectric power plant of 125 MW in the municipality of Ceriano Laghetto (MB)	Project plants for building permits - Application for fire fighters design review
2015 - 2018	Università degli Studi di Milano	Renovation use space according to changing needs and organization of departmental working groups at the LITA building in Segrate	Detailed engineering, Works Direction and Safety Manager
2015 - 2015	Ospedale San Raffaele	Construction of a new pavilion in the Hospital complex in Milan	Basic engineering
2015 - 2017	Convert Italia SpA	Trigeneration plant for the establishment Corden Pharma a Caponago (MB)	Basic engineering, construction permits and work direction
2015 - 2016	Studio 5 Srl - Padova	Transfer test plants Tilab from Rome Valcannuta 250 to properties Telecom in Via Reiss Romoli and Stampalia in Turin	Detailed engineering
2015 - 2016	Ospedale San Raffaele	Connecting the thermal power plant of Residence Park Lambro with the district heating network OSR	Detailed engineering
2015 - 2015	Ospedale San Raffaele	District heating network in Milan 2	Verification and hydraulic calculation
2016 - 2017	Ospedale San Raffaele	Repowering of the refrigeration plant and extension of district heating and cooling systems for the San Raffaele Hospital	Detailed engineering
2017 - 2017	MetanAlpi Sestriere teleriscaldamento	Cogeneration plant in Sauze d'Oulx	Feasibility study
2017 - 2018	Ospedale San Raffaele	Works of completion of the trigeneration plant of San Raffaele Hospital in Milan	Detailed engineering
2017 - 2017	Ospedale San Raffaele	Dorsal links between the trigeneration plant of San Raffaele Hospital at the CT2 Central in Milan 2	Detailed engineering
2017 - 2017	Ospedale San Raffaele	Enhancement of the CT2 Thermal Power Station in Milan	Detailed engineering
2017 - 2017	Ospedale San Raffaele	Enhancement of the district heating network of Milan 2	Detailed engineering
2017 - 2019	Ospedale San Raffaele	Connection of new utilities (Steflor and Cascina Cassinella) to the trigeneration plant of San Raffaele Hospital in Milan	Detailed engineering
2018 - 2019	Saccir - Roma	Trigeneration plants at the San Filippo Neri hospital in Rome	Engineering services for authorization procedures
2019 - 2019	Ospedale San Raffaele - Milano	Replacement of 3 cogeneration engines for the trigeneration plant of the San Raffaele Hospital in Milan	Feasibility study
2019 - IC	MetanAlpi Sestriere teleriscaldamento	San Sicario and Pragelato cogeneration plants - Energy efficiency	Feasibility study
2019 - IC	IT Impianti Tecnologici	Technical assessment for the air conditioning system in via Foppa in Milan	Expert for IT
2020 - 2020	Enertech Solution	Analysis of heating and energy system of municipal public buildings in Corsico (MI)	Site inspections