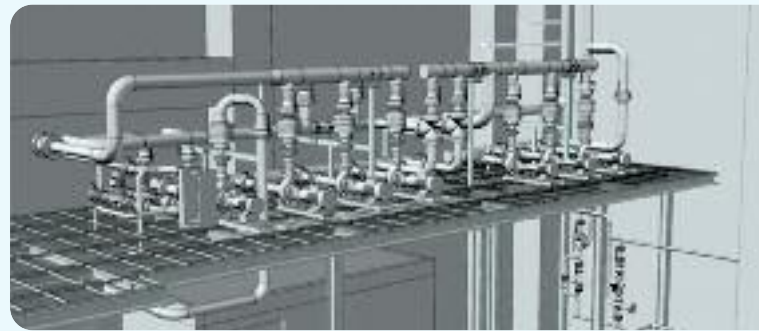




Biomass cogeneration plant and piping of the production plant of Rodengo Saiano



SPECIAL PROJECTS

Polo Tecnologico per l'Energia has realized many special projects such as:

- renewal of the Public Lighting Systems of Padua's Municipality, replacing old moving coil transformers with electronic converters;
- evaluation of Tibet's hydroelectric resources (survey and analysis were carried out by our staff in loco);
- computational modelling of Martignano's tunnel entrance on S.S. 47 in Valsugana (Trento), exploiting day-light to avoid the use of artificial lighting support.

TECHNICAL COUNSELLING

In the energy field, **Polo Tecnologico per l'Energia** offers scientific consultancy in:

- developing European Projects in cooperation with companies and Public Administrations;
- training through seminars and refresher courses;
- editing Energy Performance (EPC) and outsourcing financing (FTT) contracts;
- drafting and handling environmental and bureaucratic files to obtain the necessary permissions, authorizations and possible loans.



Photovoltaic system for Trentino Trasporti totalling 1,6 MW



Photovoltaic system for Consorzio Melinda totalling 4 MW

SOME OF OUR CUSTOMERS



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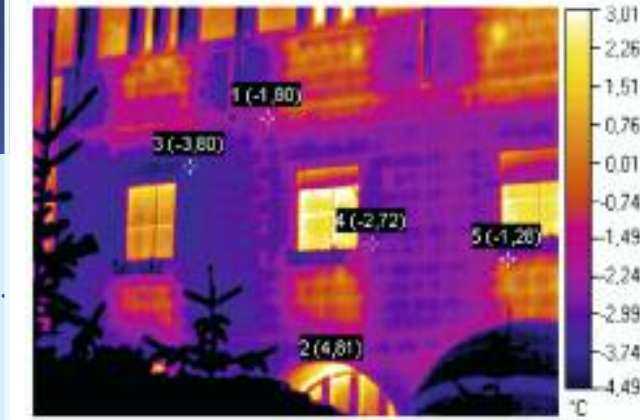


**USING OUR ENERGY
 TO REDUCE YOUR CONSUMPTION**

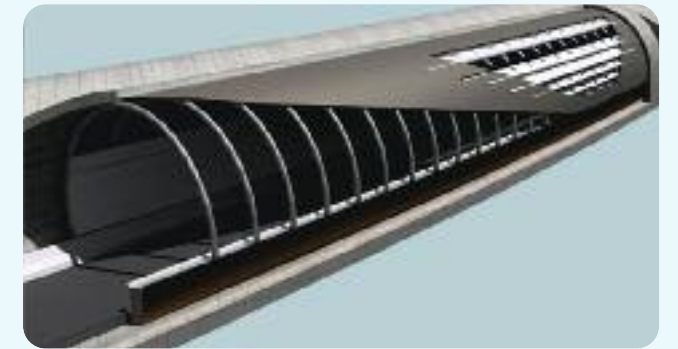
The Stella building - Headquarters in Trento



Thermographic analysis for energy efficiency assessment



Right: methane cogeneration plant in Tione
Below: designing of the tunnel entrance of the Martignano tunnel on the national road S.S. 47



Polo Tecnologico per l'Energia is an engineering firm founded in 2001. The company works in the thermal and electric energy field, offering consultancy to companies, consortia, industries, private citizens and Public Administrations.

PTE can develop turnkey projects aimed at a complete client satisfaction, understanding specific needs in order to find the most effective solution. In addition, we offer continuous assistance during the installation phase and identify the most suitable financial support.

Polo Tecnologico per l'Energia has a team composed of 15 engineers specialized in different energy sectors:

- energy saving and efficiency
- renewable energy sources
- free energy market
- public lighting

- combined heat and power (CHP)
- trigeneration
- district heating / cooling.

President and founder of PTE is Maurizio Fauri, Engineer and since 2001, Professor of Electrical Power Systems at the Faculty of Engineering of the University of Trento.

The firm is certified under ISO 9001: 2008.

In 2014 Polo Tecnologico per l'Energia was certified UNI CEI 11352, to operate as an Energy Service Company (ESCO).



Società certificata
ISO 9001: 2008
Certificato n: 9175.PTPE

RENEWABLE ENERGY SOURCES

In this sector, **Polo Tecnologico per l'Energia** develops feasibility studies, technical-economic evaluations of investments, the calculation of ROI, the preliminary, final and executive design, management and accountancy for the construction of hydroelectric, photovoltaic, thermal and biomass heating systems and wind turbines of any size and power.

We have designed hydroelectric and photovoltaic systems ranging from a few kW to more than a MW, as well as wind farms, cogeneration systems and biomass / gas district heating of dozens of MW.



Hydro Power Plant of 1,3 MW in Darzo



Biomass cogeneration plant of Asiago

ENERGY SAVING AND EFFICIENCY

The company carries out electric and thermal energy efficiency analysis, both in the industrial and civil field, focusing on technical and management improvement to reduce costs and consumption.



In the energy efficiency sector, **Polo Tecnologico per l'Energia** has designed many zero net energy residential and office buildings. Furthermore, it has developed various Energy Efficiency Regulation Plans for Municipalities, e.g. the award-winning plan for Padua (2005).

In this sector we also develop geothermal systems and Public Lighting Regulation Plans for Municipalities.

CARBON CREDITS

Polo Tecnologico per l'Energia works in the Voluntary Market, allowing it to support its clients in obtaining the necessary procedures and documents for different types of energy and environmental certifications (e.g. acquisition of CO₂ certificates) and for the offset of events, shows, fairs and products.

Polo Tecnologico performs a detailed analysis of Greenhouse Gases (GHG) emissions associated with the organization of events, with the life cycle of a product (LCA - Life Cycle Assessment), and the analysis of a product's Carbon Footprint.

Proces of CO₂ emissions offset

ENERGY EFFICIENCY CERTIFICATES

Polo Tecnologico per l'Energia is an E.S.Co. (Energy Service Company) accredited by GSE (the national energy service managing body), which allows it to release White Certificates (Energy Efficiency Certificates).



FREE ENERGY MARKET

Polo Tecnologico per l'Energia offers its consultancy for the purchasing of electric energy and gas on the Free Market to more than 1400 companies and for a total amount of 2 billion kWh (1% of total consumption in the free energy market in Italy) and 100 million m³ of natural gas. Specifically, what we do is:

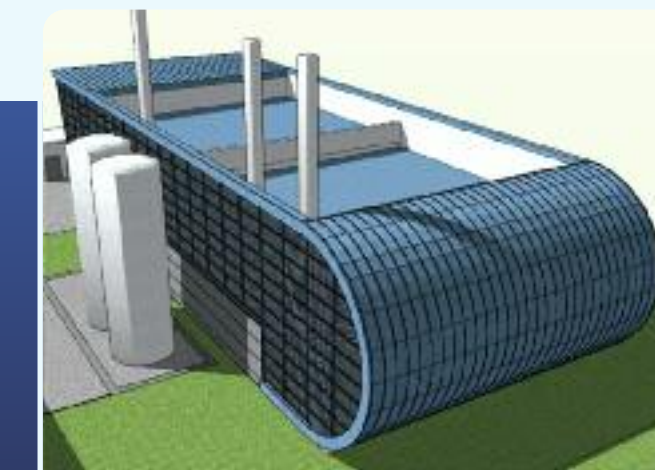
- market analysis and development of economic scenarios with different raw materials;
- planning scope statements for public tenders and online auctions;
- checking supply contracts and monthly invoicing;
- checking monthly and yearly consumptions in order to evaluate savings;
- cost checking and monitoring;
- consumption optimization;
- constant update of specific legislation;
- training through seminars and courses.

ENGINEERING DESIGN

Polo Tecnologico per l'Energia, thanks to its skilled team, can carry out any kind of electric and thermal energetic design, project management and accountancy, both in the industrial and civil field.

Our offers are tailored to the clients' needs and always consider the energy efficiency aspect; we also offer assistance in preparing public and private tenders.

Design processes are supported by 3D graphic models and several field instruments (e.g. disto, IR camera, luxmeter, network analyzer).



Methane cogeneration plant and district heating system in Pioltello