



Studio Santi is an independent engineering consulting firm which operates in the **energy sector**. It provides consulting engineering services like feasibility studies, engineering design, project management, health&safety management, firefighting, environmental impact studies, grid studies, testing, but also energy modeling, energy technology assessment, energy management, business development, energy market analysis/investments evaluation, technical advisory, appraisals, due diligence, R&D, education and training. Studio Santi Quality/Environment/Energy Management System is certified ISO 9001/14001/50001 by IMQ. Furthermore, Studio Santi technical director is certified "EGE" for Civil and Industrial sectors.

The customer portfolio counts major Italian State-owned companies (eg. SOGEL, ENAV, Port of Rome, AdR, etc.) and important private owned companies (eg. Conad, Edison, Tirreno Power, etc.).

As a lender engineer, Studio Santi is a qualified **Technical Advisor of UniCredit Project Finance** and it is also in charge as 'Energy Expert' of Officinae Verdi, a j.v. between UniCredit and WWF. Furthermore, Studio Santi served as owner engineer for BNL BNP Paribas.

Among the most important works carried out by Studio Santi as Engineering Designer/Project Manager/Safety Coordinator/Technical Advisor in Italy and abroad, stand out:

- **RENEWABLES** - **555 MW** power plants (about 25MW photovoltaic, **190MW wind**, 160MW agroforestry biomass, 40MW gasification MSW, 140MW hydropower) and connections to the grid, for clients such as BNL-BNP Paribas, NIS-GazpromNefit, Munich-Re/ERGO-Welivit , etc.;
- **COAL/BIOMASS** - coal handling systems for ENEL TVN 1980 MW coal-fired USC power plant (PowerGen International Prize winner), **coal&biomass handling and storage** system for a new 350 MW USC section in Tirreno Power TVS 1200 MW CCGT power plant;
- **LNG** - offshore oil tower conversion into an innovative 5.2 GScm/year **regasification terminal**;
- **OIL (logistics)** - **rehabilitation of 14 km of offshore pipelines** suffering from internal corrosion caused by bacteria, using *in-situ* cleaning and coating (work published by World Pipeline Feb. 2011 titled "*The Italian Job*"); coastal deposits of oil products and related logistic at the ports of Civitavecchia and Gioia Tauro, up to more than 350,000 cubic meters of total capacity;
- **SMART GRID** - Design, technical/scientific coordination for the implementation of a new **Smart-Grid in the Port of Rome**, integrating distributed generation from renewable energy sources, smart metering and widespread control system, monitoring and automatic billing;
- **ENERGY EFFICIENCY** - **first-of-a-kind Project Financing for energy efficiency** in food&beverage distribution sector (CONAD), ESCo model; **energy manager** for ENAV (Italian Agency for Air Traffic Management), SOGEL (Italian Governmental Company for ICT), Port of Rome;
- **GREEN BUILDING** - drafting of the "**National Guideline for the Design of Italian Sustainable Airport Terminals**" commissioned by ENAC (Italian Civil Aviation Authority); on behalf of ADR, plant design and dynamic energy modeling of the **new terminal T3 at Rome Fiumicino International Airport**; winner of the international tender "NexTower" by the National Air Transport Management (ENAV) to design the future control tower for the Italian airports;
- **EDUCATION & TRAINING** - advisor for **O&M staff training program of Tirreno Power** (more than 400 employees in thermal and hydro power plants), educational books, notes and classes provider;
- **ENERGY STORAGE** - founder of a start-up developing an **A-CAES patent pending technology**;
- **R&D SERVICES** - **scientific advisor** for testing of a new **concentrated photovoltaic cogeneration system** at the airport of Pantelleria, commissioned by ENAC (Italian Civil Aviation Authority).

Studio Santi was founded and is directed by Federico Santi, power engineer, Ph.D., professor at the **University of Rome "Sapienza"** - **M.Sc. Energy Engineering**, author of more than 50 publications and articles, visiting professor in several universities in the world and chairman/invited speaker in many international conferences. With a strong work ethic based on solidarity and responsibility, Studio Santi put the professional activity beside an intense commitment in support of **humanitarian missions in Tanzania and Brazil**, as well as in the area where it is located. Investors and financial institutions, insurance companies of the energy sector, strategic consulting firm in need of specialist support and high-level public and private companies can found in Studio Santi a qualified partner, pro-active, multi -disciplinary and with a holistic view of energy, able to support the definition and achievement of most ambitious goals. The main customers of Studio Santi:

