
S.T.E. energy
Energy Development in a
Human Sustainable World
a company by
Sorgent.e®

STE Energy: a global player in the energy field

With more than two hundred plants executed in the last few years in Italy and abroad and offices in many different countries, nowadays **STE Energy** can be considered as among the major Contractors in the field of energy and plant construction.

Born in Padua in 1995 and first of the companies managed by **Sorgent.e**, **STE energy** develops, designs, builds and manages as **General Contractor** a number of plants for the production of energy, mainly of a hydroelectric type, as well as electric and heating plants.
All over the world **STE Energy** carries on wind farms, PV, biomass and cogeneration projects as well as it executes plants for the production, transport and distribution of electrical and thermal power.

Thanks to collaborations with important research centers and partnerships with worldwide leading suppliers, **STE Energy** – by guaranteeing high quality, performance and efficiency – aids, with its experience, the engineering of preliminary and final projects.
In this context, **STE Energy promotes an organic collaboration with its own clients and local organizations** affected by this kind of interventions, even arranging the availability of the management competences of the whole group, achieved by practice in complex systems.

STE Energy's general knowledge and background are based not only on sustainable development but also on the social effects of the productive and economic processes. The growth in values of human resources considered as competitive human capitals to invest on is an important and representative feature of the company.

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"Investment Company"

Specialized in renewable energy sectors:
• Wind • Hydro • Photovoltaich

(total investments: more than 400mln€):

"Service Company"

30 companies working in the renewables.
Installed Power: more than **300 MW**
More than **50 Projects** obtained in the world

"General Contractor"

EPC – BOP – TurnKey
900 MW installed
200 MW under construction
Works in more than **20 countries**
More than **100 Projects** realized

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BUSINESS AREAS

Energy

- Co-generation and biomass PP
- Hydroelectric PP
- PhotoVoltaic PP
- Wind Farms

M&E Services

- Electric
- Heating and conditioning
- Energy saving
- Engineering and electric instrumentation

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OUR MAIN ACTIVITIES

General Contractor

EPC Contractor

Turnkey Solutions

Balance of plant

- Development of Power Plants sites
- Project management
- Erection
- Assembly
- Commissioning
- Operation & Maintenance




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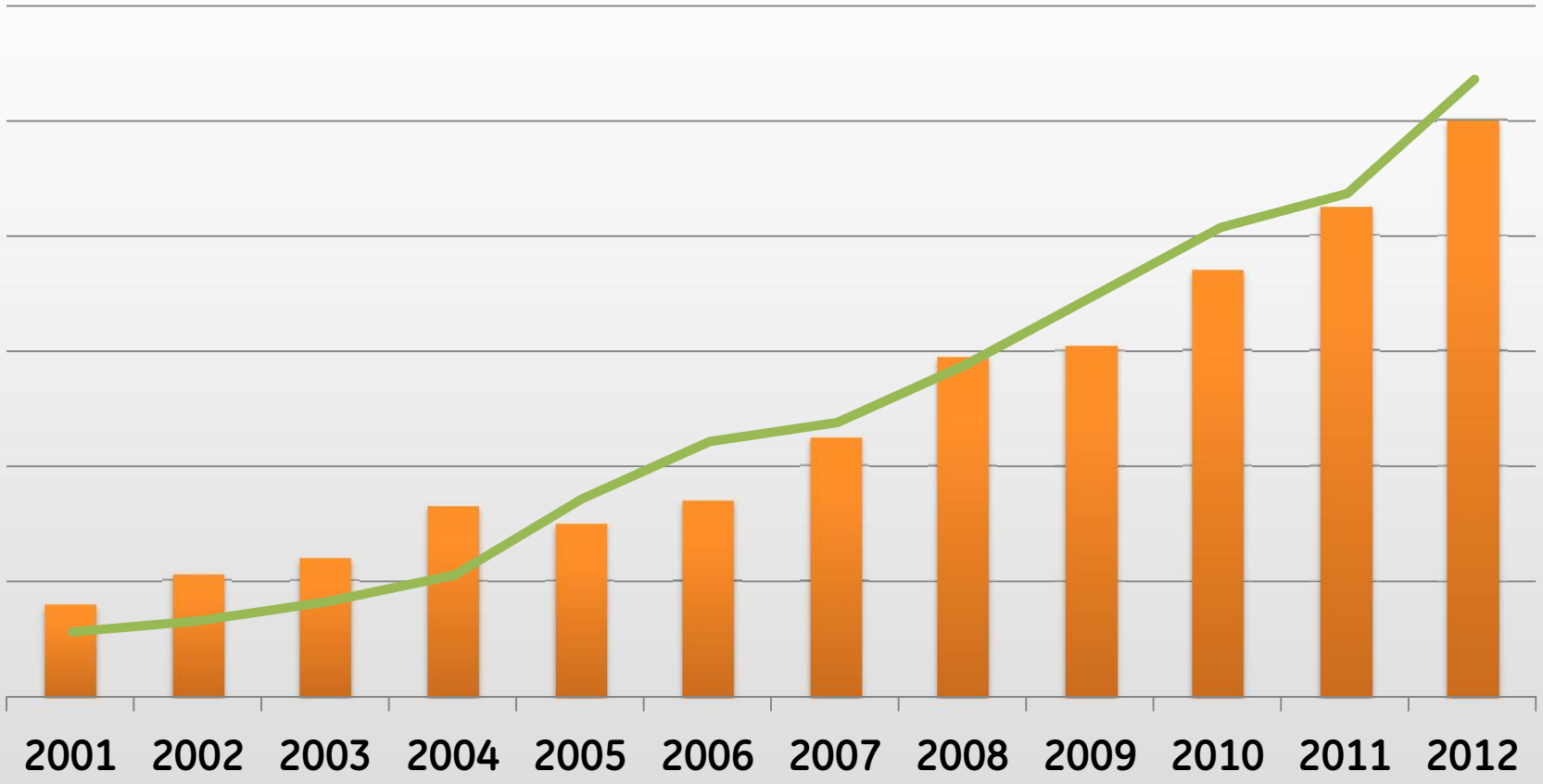
VALUES OF A STABLE GROWTH



Foreseen values of 2012
(holding's data)

Production: 100 M€
Employees: 180

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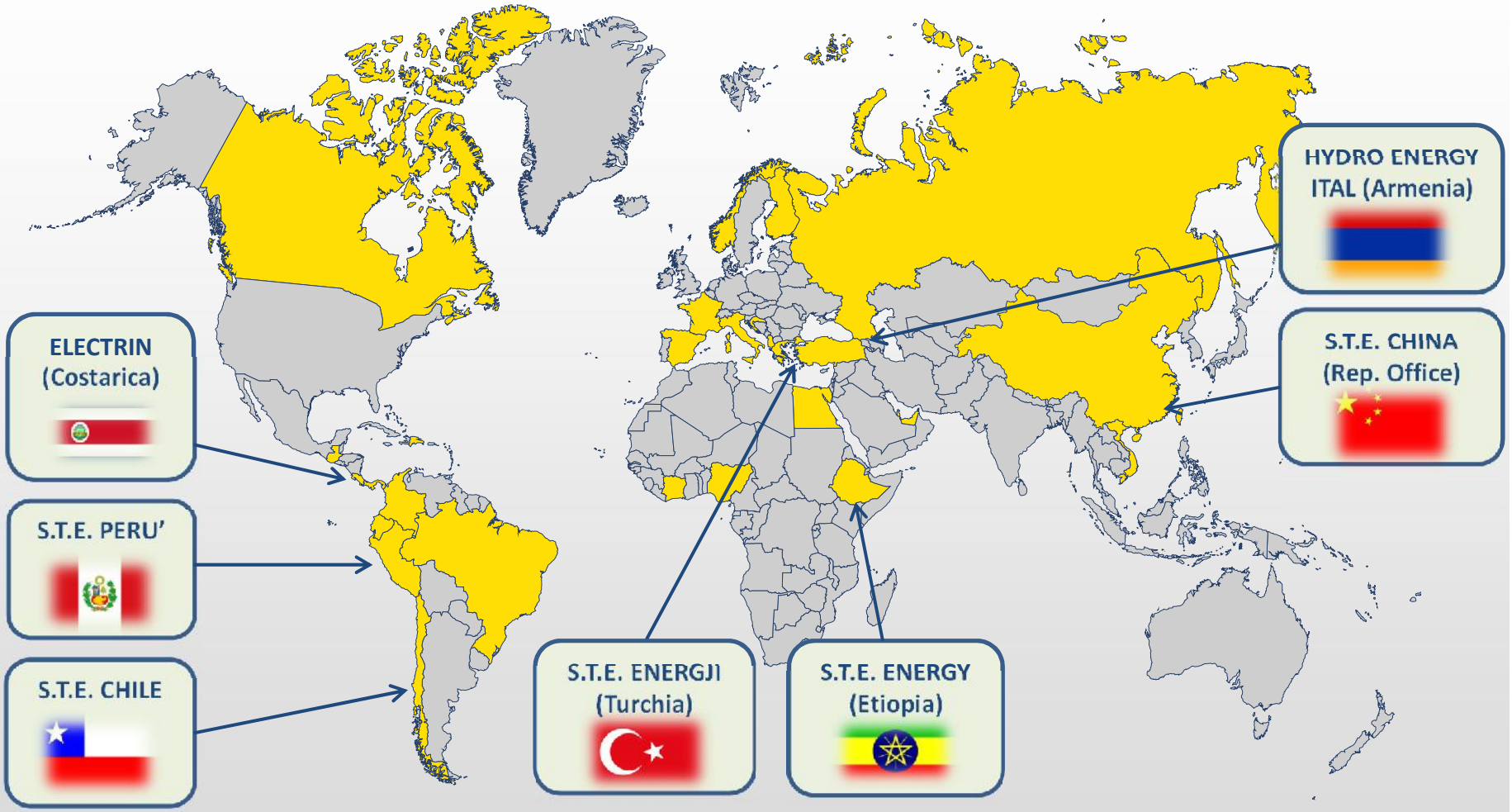
WORLDWIDE PRESENCE & LOCAL BRANCHES



FRANCE | GREECE | CROATIA | NORVAY | FINLAND | TURKEY | ALBANY | SPAIN | RUSSIA | IVORY COAST | EGYPT | ETHIOPIA | NIGERIA | QATAR | UAE | CHINA | VIETNAM | DOMINICAN REPUBLIC | GUATEMALA | NICARAGUA | COSTA RICA | CHILE | BRASIL | PERU' | EQUADOR | COLOMBIA |

O&M - **Remote Control System**

- In order to allow a **Continuous and Centralized Control** of the energy production, *STE Energy* developed a comprehensive Remote Control System based on **SCADA (*Supervisory Control And Data Acquisition*) interfaces**

- Through the centralized control room at *STE Energy* facilities in Padua (Italy) or other local control rooms, the *STE Energy* Remote Control System **monitors on a 24/7 basis all the main operations parameters** of several power plants and remotely supports its scheduled and unscheduled maintenance.

Main advantages of the STE Remote Control System are
Optimization of Production Output and **Reduction of "*out of order*" Time** thanks to a timely alarming service

O&M - **STE Guardian**

- STE Guardian is a **web-based application** aimed to manage and **simplify the periodical maintenance of the power plant**

- Main funcionalities:
  - ✓ Management of the centralized system
  - ✓ Real-time reports of production and works data
  - ✓ Simulation of work orders
  - ✓ Generation of maintenance plan
  - ✓ Alarms management
  - ✓ Meters read out
  - ✓ Spares warehouse management
  - ✓ Daily news

A control room available through one click!

QUALITY, CERTIFICATES AND INTERNAL POLICIES

ISO 9001 Quality Certificate

Qualifying Certificate (SOA) for Italian public works. (unlimited in OG9 category - EPC for Power Generation Systems)

International Safety and Security Certificates.

Ethical Code.

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SOME REFERENCES

- Hydroelectric Power Plants
- Electromechanical Plants
- Photovoltaic Power Plants
- Wind Farm
- Cogeneration Systems

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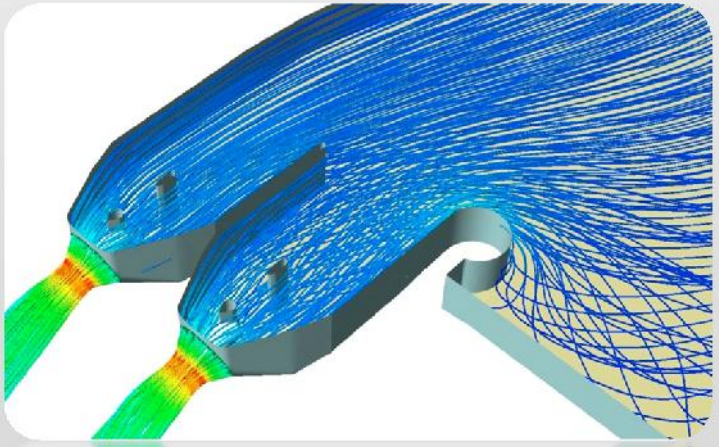
INNOVATION AND DEVELOPMENT

- **VLH turbines with very low head**
- Pelton, Francis, Kaplan turbines
- Asynchronous and Synchronous generators
- Generator with permanent magnet
- Frequence convertor
- Hybrid compact high voltage substation
- “Smart grid” system
- Test hydraulic systems
- Low environmental impact plants



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MARIPOSAS

Description: Turnkey design, supply and assembly of electrical works
Site: Chile
Year: 2009-2010
Feature: Francis 1 x 5900 kW.

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CHIBURGO

Description: Turnkey design, supply and assembly of electrical works
Site: Chile
Year: 2005-2007
Feature: Francis 2 x 12000 kW

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LOS NEGROS

Description: Turnkey design, supply and assembly of electrical, automation and mechanical works
Site: Costa Rica
Year: 2004-2005
Feature: Francis 2 x 10000 kW

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Lircay HPP

Description: Hydroelectric Power Plant
Site: Chile - Maule
Year: 2007-2009
Feature: Francis 21.4 MWe

INFRASTRUCTURE 100
In association with KPMG

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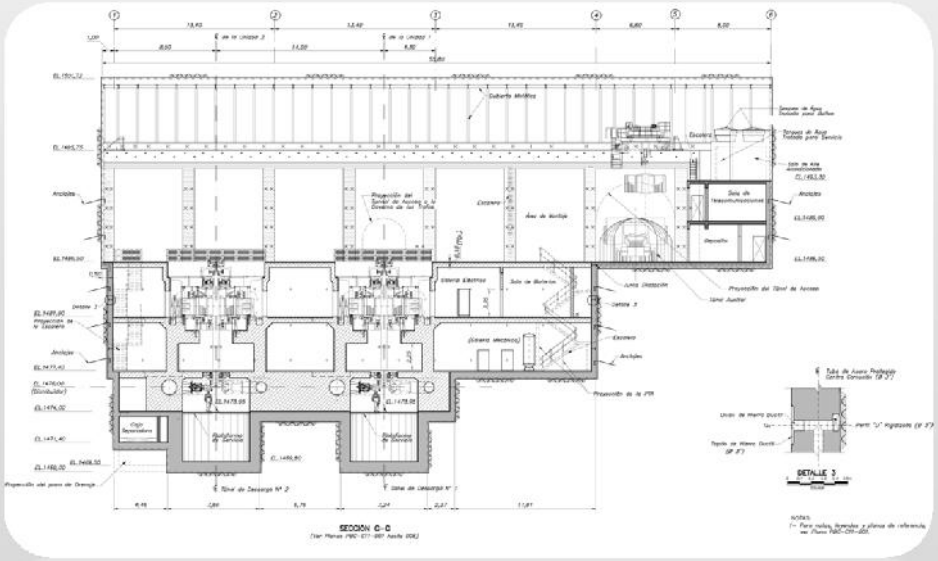
QUITARACSA

Description: Hydroelectric Power Plant
Site: Perù
Year: 2011-2013
Feature: 112 MWe



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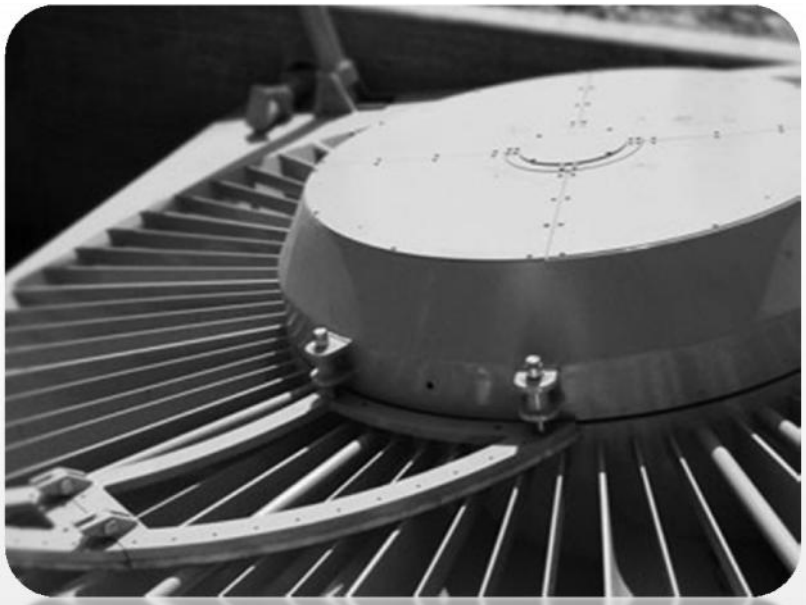
C. I. MONTODINE

Description: Hydroelectric Power Plant
Site: Italia - Cremona
Year: 2011
Feature: VLH, 0.5 MWe



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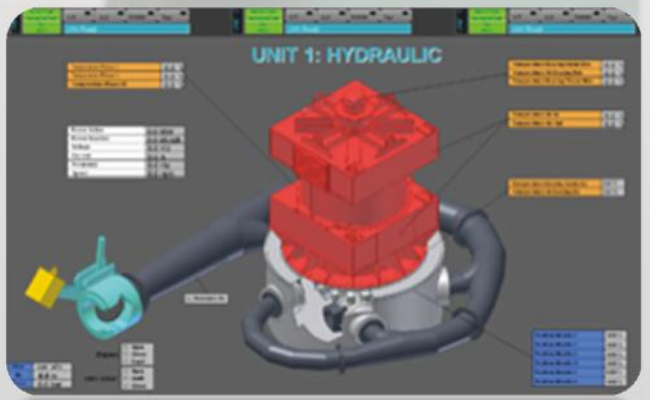
KALE

Description: Turnkey design, supply and assembly of electrical and automation works.
Site: Turkey
Year: 2008-2010
Feature: Pelton 3 x 11800 kW



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YEDISU

Description: Turnkey design, supply and assembly of electrical and automation works
Site: Turkey
Year: 2008-2010
Feature: Kaplan 3 x 7770 kW

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ZOGNO

Description: Turnkey design, supply and assembly of civil, electrical, automation and mech. works.
Site: Italy
Year: 2004-2005
Feature: Francis 4 x 1800 kW

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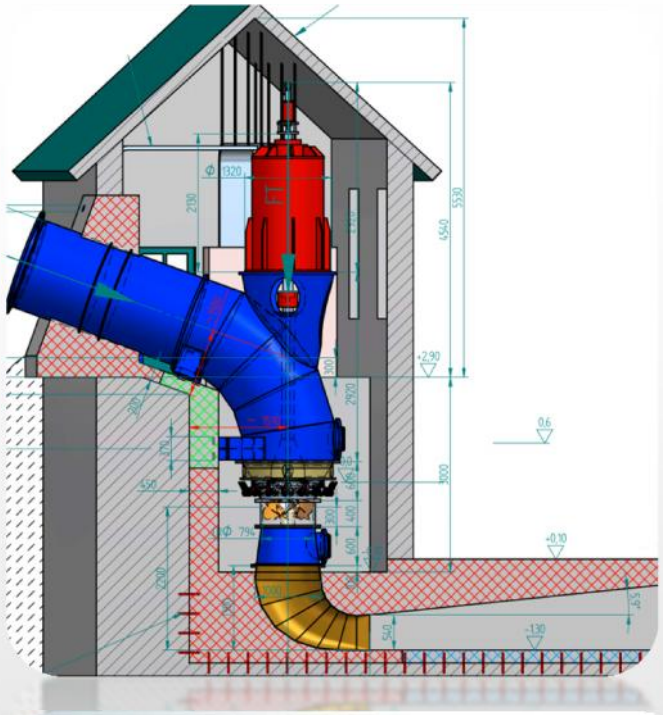
C.I. VOLTABAROZZO

Description: Hydroelectric Power Plant
Site: Italy - Veneto
Year: 2000
Features: 0.8 MW Kaplan



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SOME REFERENCES

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- **Electromechanical Plants**
- Photovoltaic Power Plants
- Wind Farm
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15 TOWNS - ETHIOPIA

Description: Waterworks
Site: Ethiopia
Year: 2011 - 2013
Feature: 95 boreholes in 15 cities

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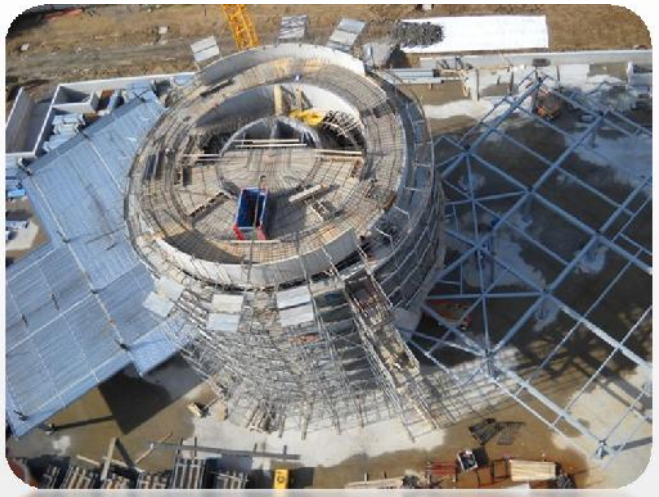
CITTA' DELLA SPERANZA – RESEARCH CENTRE

Description: Building of Laboratories and Officies

Site: Italia - Padova

Year: 2011 - 2012



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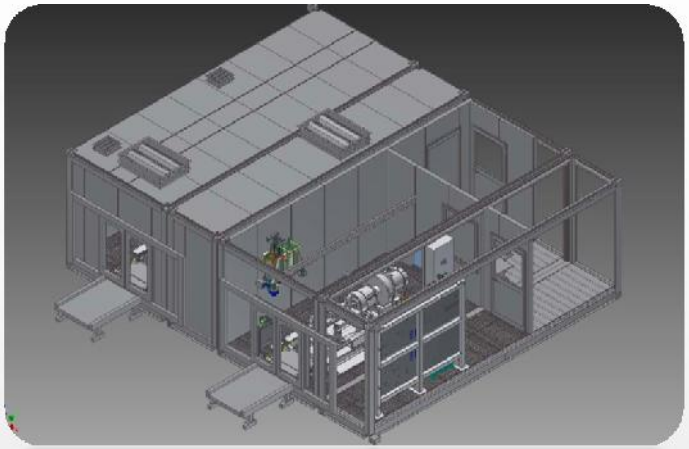
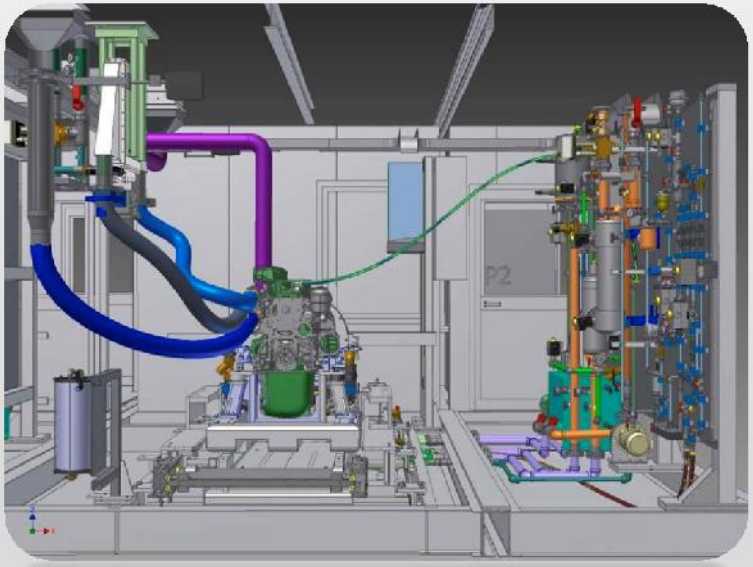
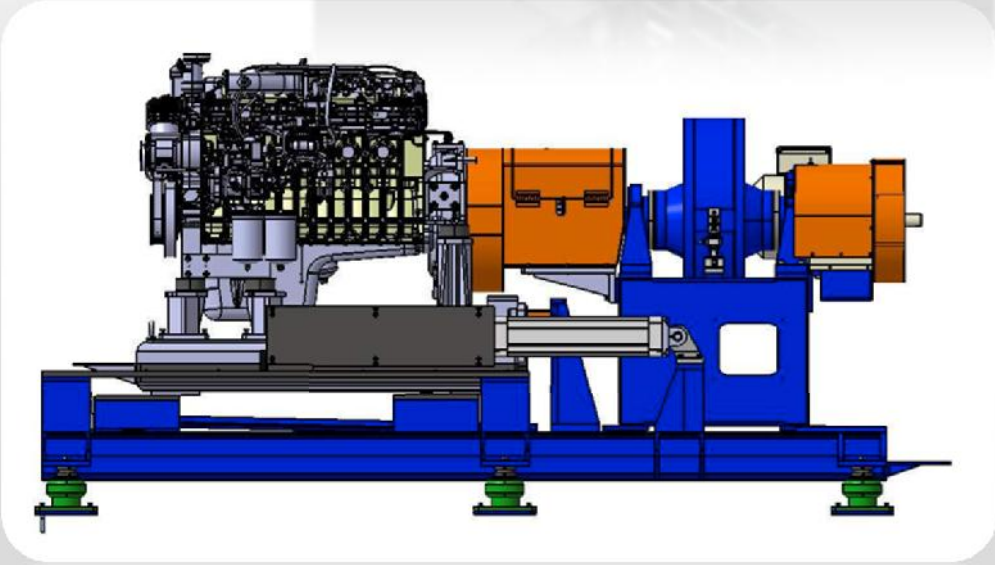
CATERPILLAR CONTROL CENTRE

Description: Revamping of Check Systems for motor industry
Site: India - Bangalore
Year: 2012







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- **Photovoltaic Power Plants**
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INTERPORTO PADOVA

Description: Photovoltaic Power Plant
Site: Italy - Padova
Year: 2010
Feature: 12.5 MWe, roof: 240,000 sqm

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SAN SOLAR

Description: Photovoltaic Power Plant
Site: Italy – San Fiorano (LO)
Year: 2011-2012
Feature: 6 MWp

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CERIGNOLA

Description: Photovoltaic Power Plant
Year: 2011
Feature: Ground mounted PV Plant
Power: 1 MWp

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DOMESTIC PV SYSTEMS

Description: Photovoltaic Power Systems
Site: Italy
Year: 2009-2011
Feature: 1,2 MW

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Nuova Siri PP

Description: Wind Farm
Site: Italy - Basilicata
Year: 2007 - 2008
Feature: 12x1.5 MWe

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Ariano Irpino

Description: Wind Farm
Site: Italy – Avellino
Year: 2011 - 2012
Feature: 5x2,050 kW

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- Hydroelectric Power Plants
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- Wind Farm
- **Cogeneration Systems**

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Torrazza PP

Description: Cogeneration Plant with wood biomass for agriculture uses
Site: Italy - Torino
Year: 2012-2013
Feature: 1MWe - 4.1 MWt

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Cesano Boscone PP

Description: Cogeneration Plant with wood biomass for district heating
Site: Italy - Milano
Year: 2011-2012
Feature: 1 Mwe, 12 MWt, 1600 apartments (I°step) final projects: 5.000 ap.

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Monza 2 PP

Description: Cogeneration Plant with gas for district heating
Site: Italy - Milano
Year: 2009-2011
Feature: 2x4MWe gas engines, 2 boilers, 24 MWt

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CONSELVE

Description: Cogeneration Power Plant
Site: Italy
Features: Thermal Power 5.3 MWt

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OUR OFFICIES

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COSTARICA

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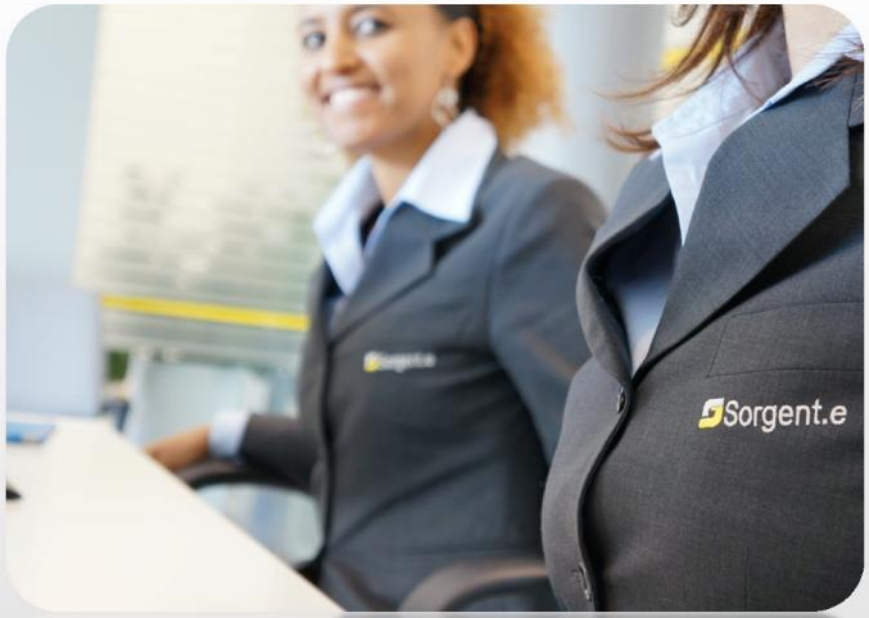
Barrio Los Sauces
100E Y 75S De Pali
San José

ARMENIA

New Italy Hydro Closed Joint Stock Company
microdistrict, 68
0023, Hrazdan



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