

INEO Energy & Systems



SUMMARY

Chapter 1

Presentation & key figures

Chapter 2

Sectors of activity & know-how

01

Presentation & key figures



Overview of ENGIE's current activities

74,7 Bn €
in 2014 revenues

152 900
employees

115,3 gigawatts
of installed power capacity

10,5 gigawatts
under construction

North America

Rev : **3,8**
4 100 coll.
13,1 GW
0,1 GW

Europe¹

Rev : **58,7**
136 600 coll.
49,2 GW
0,4 GW

Middle East

Rev : **0,5**
1 250 coll.
25 GW
3,6 GW

Asia

Rev : **5,4**
2 550 coll.
9,6 GW
0,7 GW

Latin America

Rev : **4,3**
5 450 coll.
14,2 GW
3,2 GW

Africa

Rev : **0,4**
150 coll.
0,3 GW
2,5 GW

Pacific

Rev : **1,5**
2 800 coll.
3,9 GW

* 100% of assets integral Capacity Held by the Group at December 31, 2014 , regardless Whether Either the detention rate . (1) INCLUDING Turkey.

ENGIE : Three main businesses

Power

- 1st independant power producer (IPP) worldwide
- 1st non-nuclear power producer in the world
- 115,3 GW of power-production capacity worldwide
- 10,5 GW of capacity under construction. *

Natural Gas

- 2nd buyer of natural gas in Europe
- 3rd LNG supply portfolio in the world
- 1st distribution network in Europe
- 2nd transport network in Europe
- A supply portfolio of 1,334 TWh

Services

- 1st supplier of energy efficiency services in the world
- 1,300 sites throughout Europe.
- 202 district cooling and heating networks throughout the world



* Independent Power Producer .

** Including 100% of the capacity of assets held by the group. December, 31, 2014, regardless of the percentage holding.

ENGIE Ineo : Notre profil et nos chiffres clés

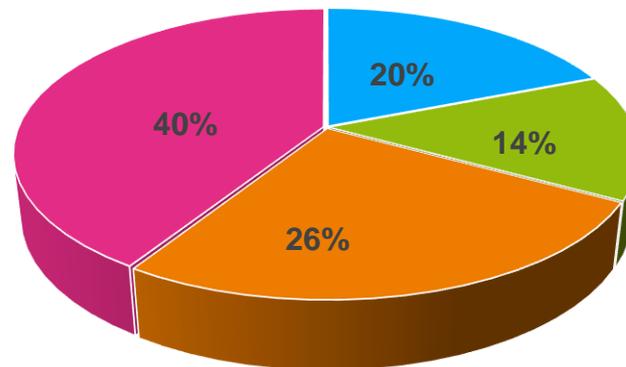
Major player in electrical engineering, information and communications systems, and related services

ENGIE Ineo provides its public and private customers with overall solutions from design right through to maintenance

15 355
Employees

300
Locations

2,4
Turnover



■ Industrial ■ Private tertiary ■ Public tertiary ■ Infrastructures

INEO Energy & Systems in numbers

292

employees

92 M€

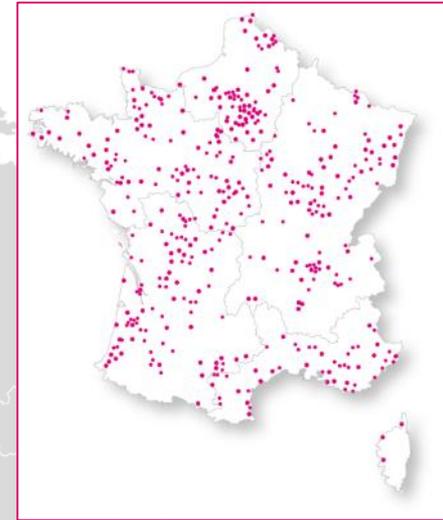
2014 turnover

9

locations

Key figures 2014

- > Vélizy-Villacoublay
- > Malakoff
- > Toulouse
- > Pau
- > Rio de Janeiro
- > Bamako
- > Ouagadougou
- > Brazzaville
- > Papeete



300

ENGIE Ineo locations in France & worldwide

02

Sectors of activity and know-how



Sectors and expertise

Energy

Aeronautics

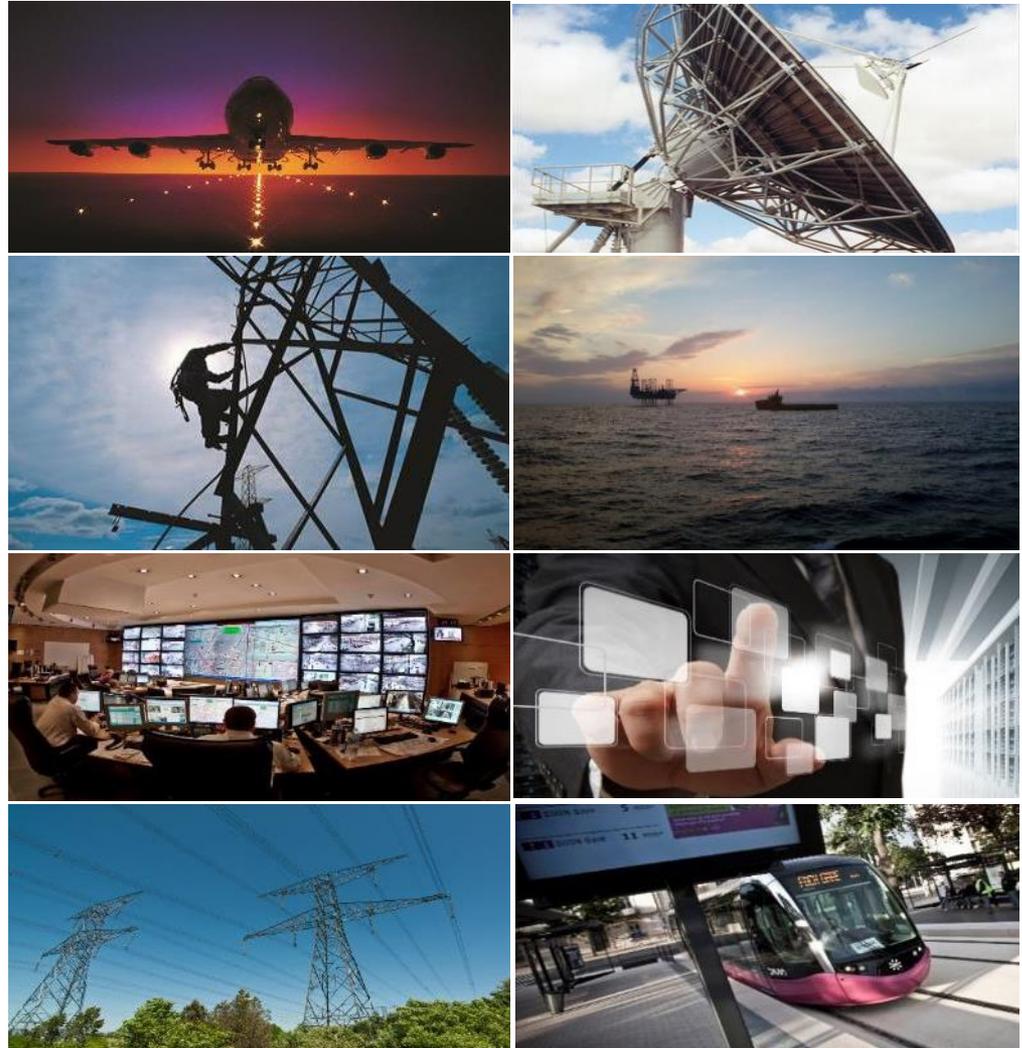
Oil & Gas

Security

Transport

Telecommunications

Services

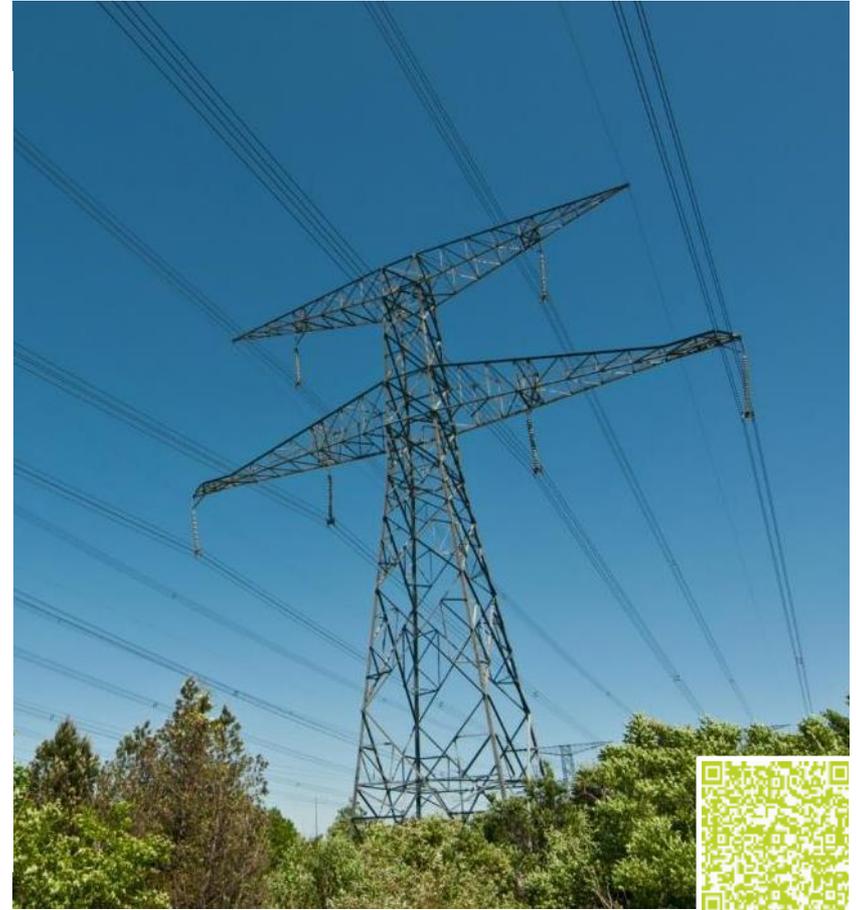


Energy

- **Build, modernize or renovate energy distribution and transportation networks**
- **Guarantee the continuity of services**
- **Develop new capacities for the production of renewable energies**
- **Secure the infrastructures**

- **Our expertise**

Construction, renovation and maintenance of high and very high voltage networks, of transformer and distribution stations, piloting and control command systems, energy management, smart grid, lightning detection and protection, installation and integration of photovoltaic solutions, construction of wind farms, renovation hydroelectric infrastructures, support to nuclear operators...



Energy



Power plant of Moorea (Polynésie Française)

Studies, supplies and installation of a new power plant of 16.5 MW

Key figures

16,5 MW

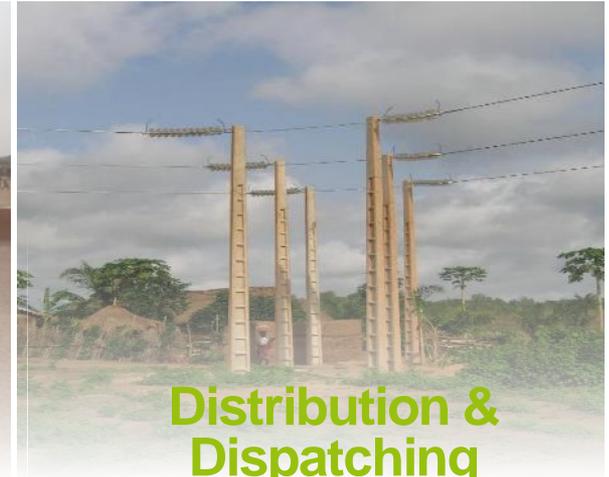


SOGEM (Mauritanie)

Construction of two substations
Construction of the link between 2 substations and the interconnection to the existing network

Key figures

225/90/30 kV : voltage



Projet Emblématique ??

Dispatching
Substations 30/15 kV
Overhead and underground lines (medium and low voltage)

Key figures

167 km of HVA lines

84 km of HVB lines

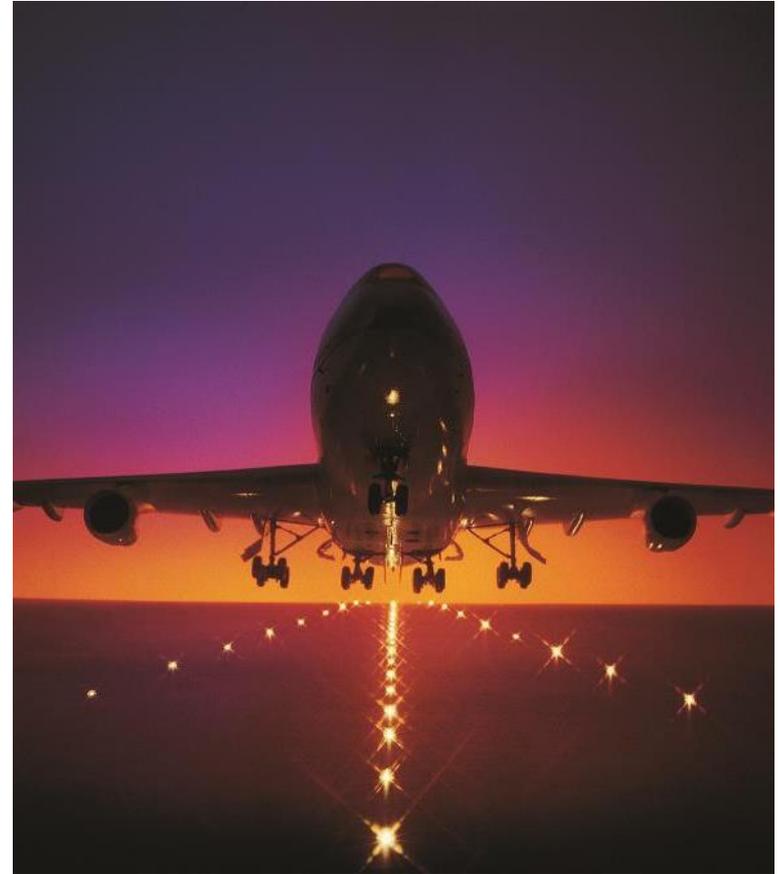
Aeronautics

Manufacturer of ATC/ATM



Integrator of ATC & Airport solutions

- Airport infrastructure
- Telecommunications & networks
- Air traffic control



Aéronautique



Power plant

ASECNA (International airport of Abidjan, Ivory Cost)

Rehabilitation of the airport's central infrastructure to prepare for the arrival of the A380

Key figures

- 14 months of project
- 2 x 500 kVa power plant



Runway lightings

DGGT (2011-2012)

Runway lightings for Kinkala Heliport, Congo

Key figures

- 6 months of realization
- 1 FATO installed
- 5 TLOF posts installed



Nav aids

DGGT (2011-2012)

VOR DME of Ollombo airport in Congo

Key figures

- 6 months of realization

Aéronautique



OACI (2013 – 2015)
Renovation of REDDIG
telecommunications network in
South America

Key figures

16 stations simultaneously updates

13 countries of South America



ASECNA (depuis 1998)
Mise en place d'un réseau de
stations VHF déportées par
satellite en Afrique

Key figures

72 satellite stations

17 countries concerned

Current phase **until 2017**



LCAA/OEA (2009 – 2012)
Equipements aéronautiques et
télécommunication de la tour de
Tripoli

Key figures

6,5 M turnover

Oil & Gas

Manufacturer of Oil & Gas products



Focus on O&Gmuster

Automated management solution for the security/safety of the personnel on all hazardous sites.

- Real time monitoring of all personnel on board
- Management of mustering and emergency evacuation processes, time diminished by 70%
- Management of transport and hotel

Solutions integrator

- Greenfield & Brownfield infrastructures
- Offshore & Onshore



Oil & Gas



MOHO North

Integration of a telecommunication system on a Tension Leg Platform (TLP) and a Floating Production Unit (FPU) in République of Congo

Key figures

- 4** offshore sites
- 1** onshore site
- 26** integrated subsystem



SONATRACH-AGIP (2007-2009)

Multi-technical realization on the oilfields of BEN and ROM in Algeria

Key figures

- 55** oil well
- 2** years of realization



Pipeline DOBA-KRIBI (1998-2003)

Telecom infrastructure project pipeline Doba (Chad) to Kribi (Cameroon)

Key figures

- 1070** km : length of pipeline

Security

- Improve the security of goods and citizens
- Secure the territories and infrastructures
- Monitor, dissuade, prevent and act
- Anticipate et manage major risks
- Strengthen operational capacities
- Strengthen the operational capacity
- Vital operators, sensitive industrial sites, transport operators, civilian safety

- **Our expertise**

Videoprotection devices, training of operators, access control, urban supervision centre, hypervision, lightning protection, deployment of exceptional additional means, warning system for populations, help for intervention, vulnerability audits, secure information and communication systems, maintenance...



Security



GRTgaz (2012-2017)

Secure all sites classified as sensitive across national territory (video, intrusion detection, access control, perimetry). Centralized telesurveillance system (ITS)

Key figures

36 equipped sites



TOTAL E&P (2011-2012)

Commissioning of a security system and offshore solutions on the OFON field

Key figures

20 systems installed

20 000 hours of engineering



Airport of Bordeaux-Mérignac (2009-2014)

Installation and commissioning of a security system for the Bordeaux-Mérignac airport

Key figures

211 cameras

5 operation centers

Transport

- Design reliable and efficient infrastructures
- Implement a sustainable mobility, intermodal and accessible to all
- Guarantee the quality, reliability and safety of projects
- Propose innovating solutions for financing
- Our expertise

Energy, electrification, signalling ,energy recovery system, energy performance, road equipment, videoprotection, supervision, telecommunications, passenger information and operational support system (SAEIV) , multimodality, car sharing system, charging terminals' network, monitoring of parking, air control, aide navigational aid...



Transport



SEA (TGV Tours-Bordeaux)

Realization of the high speed railway
Tours-Bordeaux (low voltage lot)

Key figures

340 km line
5 years of realization

DIRIF (2011-2012)

Creation of high-speed transmission network.
Provide a data transmission system enabling
real time access to information by customers

Key figures

60 Equipment supported
22 tunnels

RATP (2012-2014)

Deployment of CCTV, telephony and IP
solutions on the Tramways T3b, T6, T8 in
Paris

Key figures

56 Equipped stations
33 km tramway lines

Services/Maintenance

- Improve the performance of installations
- Ensure the continuity of the service
- Ensure the long-term viability of installations
- Guarantee the comfort and security
- Control the energy consumptions

- **Our expertise**

Multi-technical and multi-site management and maintenance, global performance maintenance contract, follow-up and maintenance of energy and environmental performances, commitment to results, logistical support, call centres...

30

Customers

500

Maintained sites

15

Years of experience



Services/Maintenance



Maintaining safety conditions



Assistance of telephony systems



Safety radiotelephony channel

Major operator for the distribution of energy (2012-2017)

Outsourcing maintenance to protect sensitive industrial sites

Key figures

5 years of maintenance
36 maintained sites

RTE (Gestionnaire du Réseau de Transport Electrique) (1980-2013)

Telephone support for fault diagnosis and monitoring of hardware configurations

Key figures

7 years of maintenance
16 dispatchings centres

DGAC – DSNA (2000-2009)

Ensure the perpetuity of a system of radiotelephony channels on the long term

Key figures

6 200 monitored equipment
20 years of maintenance



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