

BUSINESS FORUM ITALIA-TUNISIA

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FEDERAZIONE ANIE



ANIE has being representing the Italian Electrical Engineering and Electronic Industry for over 70 years.

The ANIE Industry in figures (in 2018):

78 billion Euros of total turnover

of which

58 billion Euros represented by the Electrical Engineering and Electronic Technologies
(52% of export on total turnover)

- ✤ 20 billion Euros represented by the General Contractor Industry
- ✤ 468,000 employees
- 4% intra-mural R&D expenditure on total turnover (less than 1% the corresponding % for Manufacturing Industry)
- In second place in Europe for total turnover
- Almost 60% of the total turnover in the Italian Electrical Engineering and Electronic Industry comes from SMEs

The **ANIE system** supplies technologies for public and private infrastructures in strategic markets:





Italian Electrical Engineering and Electronic Industry

ANIE TECHNOLOGIES

% distribution of total turnover by sector and final markets







2015-2050

A CHANGING SCENARIO

Energy systems around the world are going through rapid transitions that affect many aspects of our lives.



GLOBAL ENERGY TRENDS

Major transformations are underway for the global energy market...





Energy demand is set to grow by more than 25% to 2040*

The global power mix is transforming, with an increasing share of renewables in generation

Among fossil fuels, natural gas demand continues to grow

The energy transition is based on decarbonisation and enabled by innovative technologies

The future is shaped by the rapid growth of electricity and digitalization



Global Energy Investments (2017) % 1.8 Trillion US \$







Who we are



Some of the main figures in the Italian National Energy and Climate Plan (NECP)

- 30% share of energy from renewable sources in gross final consumption of energy by 2030
- 55,4% share of **renewable sources** in the electricity sector by 2030
- 43% reduction of the primary energy consumptions and 39,7% reduction of the final energy consumptions by 2030 (compared with PRIMES 2007 scenario)

The Italian technologies for Power industry



The Italian technologies for Power industry Total turnover (11.5 billion euros), % distribution



- Italy is the second manufacturing hub in Europe
- Looking at technologies for Power industry, Italy is second in Europe for production value and export, with a share of total European value of 10%
- More than 50,000 employees in the Italian Industry supplying technologies for Power industry

FOCUS ON ENERGY FEDERAZIONE NAZIONALE IMPRESE ELETTROTECNICHE ED ELETTRONICHE ANIE The Italian technologies for Power industry CONFINDUSTRIA **OVERVIEW OF TECHNOLOGIES SOLUTIONS FOR** TRANSPORT **GENERATION** TRANSMISSION DISTRIBUTION **INDUSTRY INFRASTRUCTURE** DIGITALIZATION **MV Switchgears**, Power plan and **Electric Motors HV Substations** controlgears and components and Drives assemblies **Micro Grid and** LV Switchgears, **HV Power Lines** distributed **Smart Grid** controlgears and generation assemblies **Energy storage** Power Distribution transformers systems transformers

Renewables

MV and BT Power Lines and Optic Fiber



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The Italian technologies for Power production, Transmission and Distribution - figures

	2015	2016	2017	2016/2015	2017/2016
		million euro		annual % change rate	
DOMESTIC MARKET	5,520	5,333	5,234	-3.4	-1.8
TOTAL TURNOVER	7,018	6,711	6,811	-4.4	1.5
EXPORT	4,519	4,416	4,493	-2.3	1.7
IMPORT	3,020	3,038	2,916	0.6	-4.0
TRADE BALANCE	1,499	1,378	1,577		

Source: ANIE

• Storage

- Transformers
- Smart grid
- Switchgears and controlgears

- Manufacturers of equipment, components and systems for the production (traditional sources), transmission, distribution and storage of electrical energy
- Rotating machines
- Power lines

The Italian technologies for Renewable Energies - figures



	2015	2016	2017	2016/2015	2017/2016
		million euro		annual % change rate	
DOMESTIC MARKET	3,539	3,442	3,552	-2.7	3.2
TOTAL TURNOVER	4,543	4,444	4,637	-2.2	4.3
EXPORT	2,138	2,124	2,233	-0.6	5.1
IMPORT	1,133	1,122	1,149	-1.0	2.4
TRADE BALANCE	1,004	1,003	1,084		

- Manufacturers of components and/or turnkey power plants
- 6 O&M service providers
- Power producers from renewable energy sources

Source: ANIE

🌜 Photovoltaic

🌜 Wind

HydroelectricBioenergy

🌜 Geothermal

Concentrated Solar Power

Italian total electricity production vs production from Renewables (2006-2017)





- Share of electricity production from renewables: 15% in 2006 32% in 2017
- The amount of electricity from renewables doubled in 7 years
- Extraordinary contribution of hydropower, wind and photovoltaic.

Source: ANIE processing on TERNA data

Foreign markets: the Italian technologies for Power industry





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Italian exports to Tunisia by industrial sectors (year 2018)



Source: ANIE processing on ISTAT data

According to preliminary data, in 2018 the Italian exports of Electrical Engineering and Electronic technologies account for about 15% of total Italian manufacturing exports to Tunisia, for a value of 528 million euro and annual growth of 5.8%.

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Technologies for Power industry – Trade balance Italy-Tunisia



* Renewable and traditional energies Source: ANIE processing on ISTAT data

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The Italian exports of technologies for Power industry* to Tunisia Compound Annual Growth Rate, 2013-2018



* Renewable and traditional energies Source: ANIE processing on ISTAT data



According to preliminary data, in 2018 the Italian exports of technologies for Power industry account for about 40% of total Italian Electrical Engineering and Electronic exports to Tunisia, for a value close to 215 million euro and a double-digit growth.

+10.4% annual growth rate of Italian exports of technologies for Power industry to Tunisia in 2013-2018 (+1.6% for Italian manufacturing exports)



