

Argus Mediterranean Solid Fuels 2016

“The future of coal in Italy”

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Coal in Italy

→ Italy's final figures for 2015 are stable compared to 2014: the country imported 16 million tonnes of steam coal and 3,5 million tonnes of coking coal and PCI in 2015.

→ Modern high efficiency, low emission coal plants operating in Italy emit 25-33% less CO₂ and significantly reduce non-carbon emissions compared to older, less efficient technology.



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Environmental Friendly Investments in Italy Into the coal power plants

Investments
From 1998 to 2008

7.000 million Euros

Coal Power Plants Efficiencies

- **Italy: 39%**
- **European Average: 35%**
- **European Average in 2020 (IEA Forecasts): 40%**

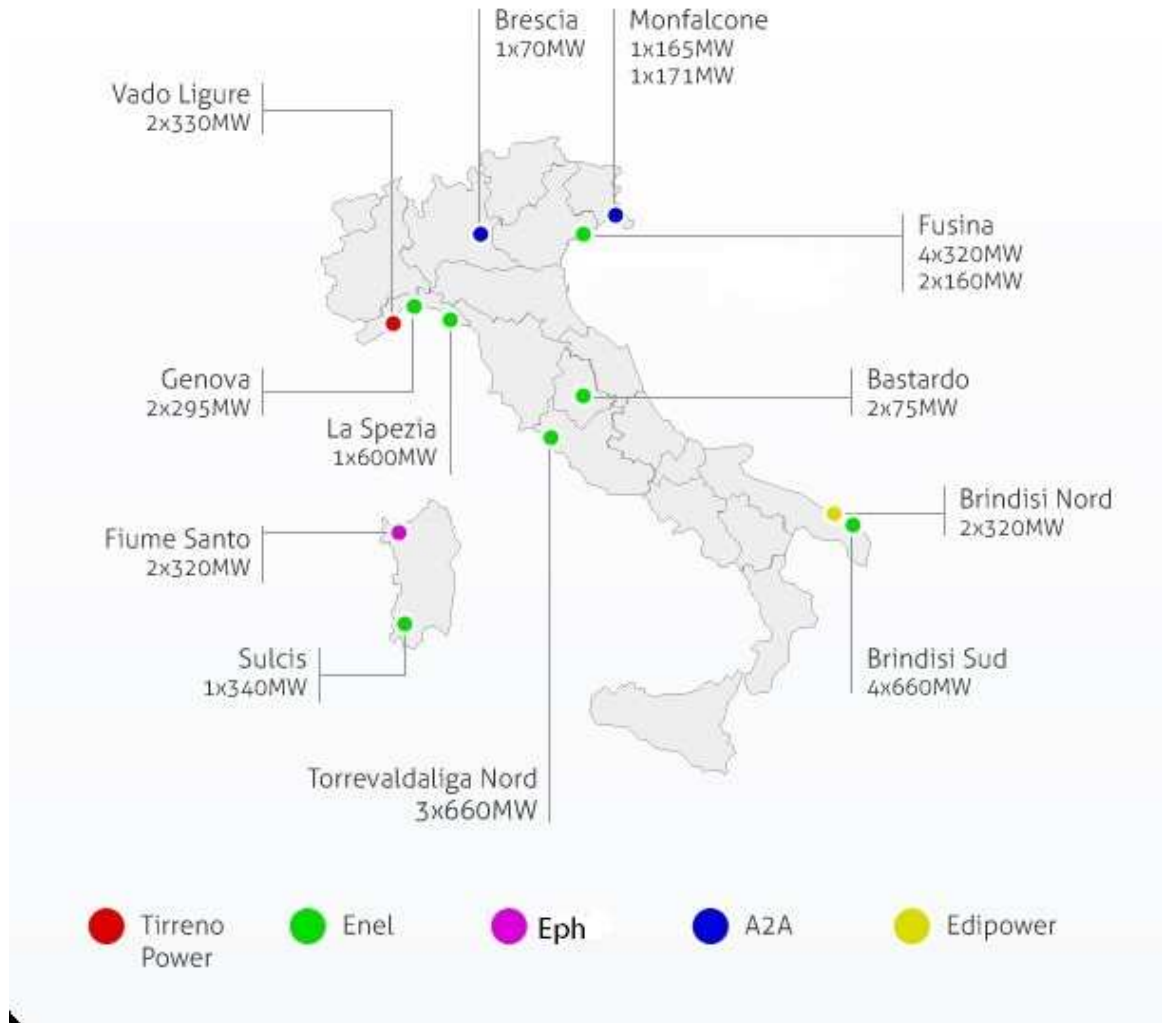
Emas Certification

**All coal power plants are
EMAS certified**



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Italian power plants





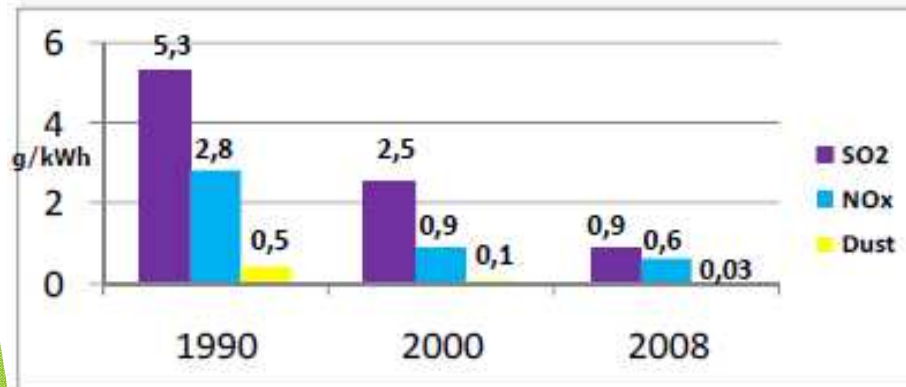
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Not only CO₂

Italian Coal Power Station achievements in pollutant reduction

Trend 2008 vs 2000

SO ₂	-64%
NO _x	-33%
Dust	-70%



•100% recovery of ash and chalk.

•They can be easily reused for the production of pilling, cement, street paving and for the production of building material.



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Torrevaldaliga North: 46% peak efficiency, which is only reached in Japan and Denmark in the world



Torrevaldaliga North: dome





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Torrevaldaliga North: control rooms

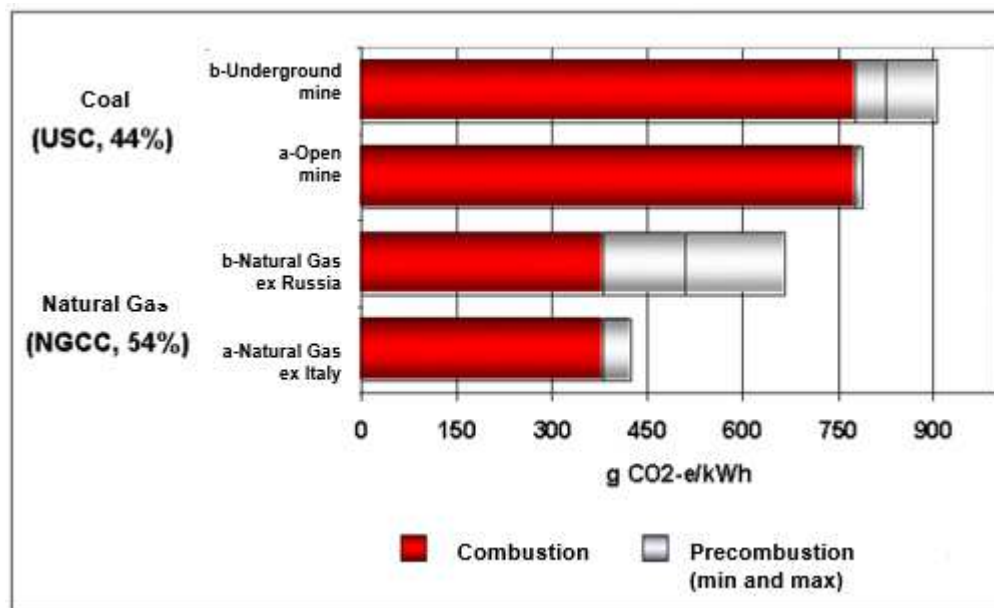




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Gas vs Coal: LIFE CYCLE ANALYSIS

Potential variability range of greenhouse emissions in the life cycles of natural gas and coal



Source: Fuel Research Institute, Milan

a) gas produced and consumed in Italy
b) imported Russian gas



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ASSOCARBONI

ITALIAN ASSOCIATION OF COAL OPERATORS

The Association

Founded in 1897 the Association, with more than 80 member companies, is the only association representing the entire coal value chain from coal mining groups to electricity and steel producers, cement manufacturers, shipping firms, terminal operators, maritime agents, surveyors, engineering companies, boiler makers, bulk handling equipment manufacturers.

Italian Commitment

With its headquarters in Rome, Italy, and with a representation in London and Brussels, on a national level the Association is a member of Confindustria Energia and sits on the Board of Directors of the Fuel Experimental Station of Milan (a leading fuel research entity within the Ministry of Industry and Trade).

International Commitment

On an international level, Assocarboni is member of CIAB (Coal Industry Advisory Board) - a section of the International Energy Agency of Paris, which brings together more than 40 companies (both energy producing and electric generation companies) from 14 different countries, of WCA (World Coal Association) in London and of the "Working Party on Coal" of the ECE-UN Energy Committee in Geneva.

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