



COMPETITORS ITALY RENEWABLE ENERGY GENERATION PLANTS

April 2014

INTRODUCTION TO METHODOLOGY

Databank's methodology for Competitors reports begins with a careful screening to identify the main organisations that are representative of a given sector. Several one-to-one interviews are then conducted with the selected organisations. Questionnaires are sent to all the leading companies on an annual basis. The information collected is then verified by an expert in the particular sector using a system of counterchecks to guarantee that the information is entirely reliable and consistent. The process is then completed using Cerved Group's proprietary information about Italian enterprises. All Competitors reports also include details concerning the strategies and performances of the leading companies in each sector.

Wherever no specific source is indicated, the information published in these reports can be assumed to have been taken from Cerved Group's proprietary information bank. Coverage of any sector in Competitors products may be used in company presentations or in training courses on the subject.



SECTOR DESCRIPTION

Scope

This report covers the planning, manufacture, installation and operation of power plants for the generation of energy from alternative sources. This includes aerogenerators, conventional wind turbines, photovoltaic panels, biomass plants and gasifiers.

- **Product technology:**

- photovoltaic panels are made up of series-connected modules that generate electricity from solar energy. The key component in the system is the photovoltaic cell (a square or circular plate on which the upper and lower sides form positive and negative poles); in order to generate electricity a number of modules need to be connected together in series, creating a photovoltaic field. There is no theoretical limit to the maximum capacity that can be achieved, which is dependent on the number of modules that are connected together. In general a 1MW capacity plant is considered to be medium to large in size;
- vertical or horizontal axis aerogenerators transform the kinetic energy of the wind into electricity. They can be categorised according to their capacity (small sized plants from 1 to 200KW, mid-sized from 200KW to 800KW, large plants over 1,000KW);
- biomass plants use various organic materials (virgin wood, agricultural or industrial residue, sewage sludge) to generate energy through the use of turbines and gasifiers.

- **Purpose:** electricity generation from alternative energy sources.

- **Client groups:**

- **Direct clients:** installation partners, wholesalers or companies selling direct to private consumers, public institutions, industrial users and similar, electricity generation companies, investment funds;
- **End customers:** private consumers, public institutions, industrial users and similar, electricity generation companies, investment funds.

Segments

The sector can be segmented according to the energy source:

- **Photovoltaic**
- **Wind:** including both onshore and offshore wind farms
- **Bioenergy:** various production technology, such as biomass from agricultural and forestry residues, biogas and vegetable oils.



LIST OF COMPANIES ANALYSED

AB ENERGY S.R.L.	HELIOS TECHNOLOGY S.P.A.
AIO'N RENEWABLES S.P.A. ^(a)	I.V.P.C. S.R.L. (ITALIAN VENTO POWER CORPORATION)
ARTISTICA S.R.L.	ICQ HOLDING S.P.A.
ASJA AMBIENTE ITALIA S.P.A.	IML IMPIANTI S.R.L.
BERICA IMPIANTI S.P.A.	MONTANA S.P.A.
BONO SISTEMI S.P.A.	PHOENIX SOLAR S.R.L.
COFELY ITALIA S.P.A.	POWERELSE S.R.L. IN LIQUIDAZIONE
CONERGY ITALIA S.P.A.	RENERGIES ITALIA S.R.L.
CPL CONCORDIA SOC. COOP.	RUTHS - S.P.A.
E.ON PRODUZIONE S.P.A.	S.A.G. SOLAR ITALIA S.R.L.
ECOTERMICA SERVIZI S.P.A.	SIEMENS S.P.A.
EDISON ENERGIE SPECIALI S.P.A.	SIRAM S.P.A.
ENEL GREEN POWER S.P.A.	SOLARDAY S.P.A. IN LIQUIDAZIONE
ENEL.SI S.R.L.	SOLOM S.P.A.
ENERCON SERVICE ITALIA S.R.L.	SORGENIA MINERVINO S.P.A.
ENERPOINT S.P.A. IN LIQUIDAZIONE	SORGENIA S.P.A.
ENERQOS S.P.A.	SORGENIA SOLAR S.R.L.
ENERRAY S.P.A.	SORGENIA VENTO S.R.L.
ENIPOWER S.P.A.	STC S.P.A.
ERG RENEW S.P.A.	SUNERG SOLAR S.R.L.
ERG WIND 4 S.R.L.	SUNPOWER ITALIA S.R.L.
FEA S.R.L.	TERNIENERGIA S.P.A.
FISIA ITALIMPIANTI S.P.A.	TM.E. S.P.A. - TERMOMECCANICA ECOLOGIA
FOSTER WHEELER ITALIANA S.R.L.	TURBODEN S.R.L.
FRI-EL GREEN POWER S.P.A.	VESTAS ITALIA S.R.L.
FW POWER S.R.L.	VOREAS S.R.L.
GAMESA EOLICA ITALIA S.R.L.	

a) - after a period of legal disputes, AIO'N RENEWABLES declared itself bankrupt on 14/03/2013



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