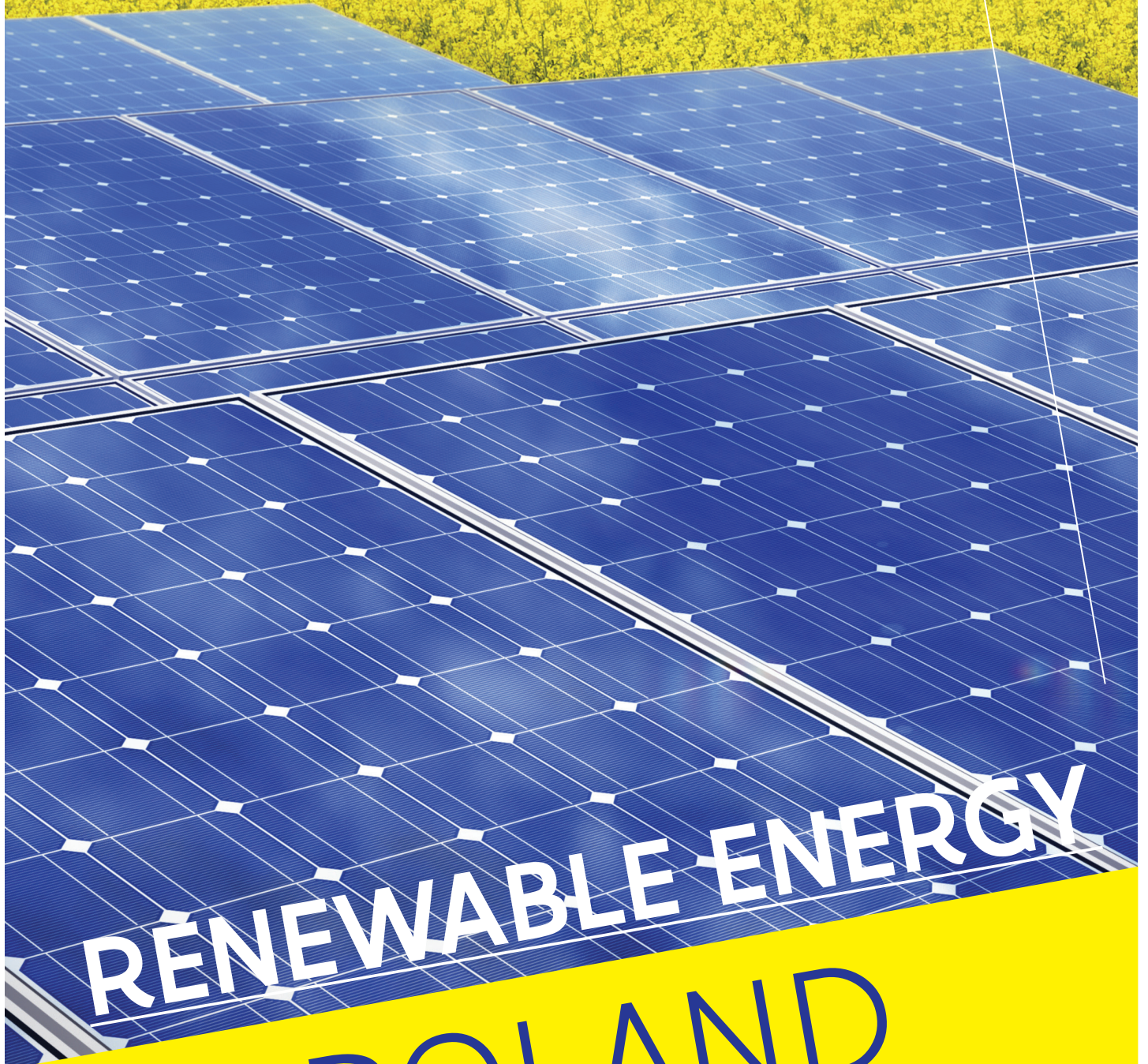




Flanders
State of the Art



RENEWABLE ENERGY

IN POLAND

FLANDERS INVESTMENT & TRADE MARKET SURVEY



RENEWABLE ENERGY IN POLAND

Table of Contents

I	General information	3
II	Renewable energy market in Poland.....	4
III	Sources of renewable energy in Poland	7
	3.1. Biomass	8
	3.2. Solar power	8
	3.3. Wind energy.....	9
	3.4. Biogas	11
IV	Market possibilites for Flemish companies.....	12
V	Useful links & contacts	14
	4.1. Renewable energy associations in Poland	14
	4.2. Important events.....	15
	4.3. Companies.....	16

I General information

The increased demand for energy, caused by the fast economic growth of countries on the global scale, the pollution of the environment that aggravates every year and the limited access to natural resources in the world, result in the growing interest in new technologies of acquiring energy – technologies that facilitate acquiring energy in a way that does not cause any harm to the environment, but is, at the same time, renewable and inexhaustible – which resources will never deplete – the so called “green energy”.

Pursuant to the Polish Energy Law Act from 1997, a renewable energy source (RES) means **a source which uses wind power, solar power, geothermal energy, sea wave, sea current and tidal energy, or energy obtained from the fall of rivers and biomass energy, energy from landfill gas as well as biogas produced in the process of sewage disposal and treatment or decomposition of plant and animal remains**. According to the regulation, regardless of the capacity of the source, the following types of energy are considered to be the energy produced from renewable sources:

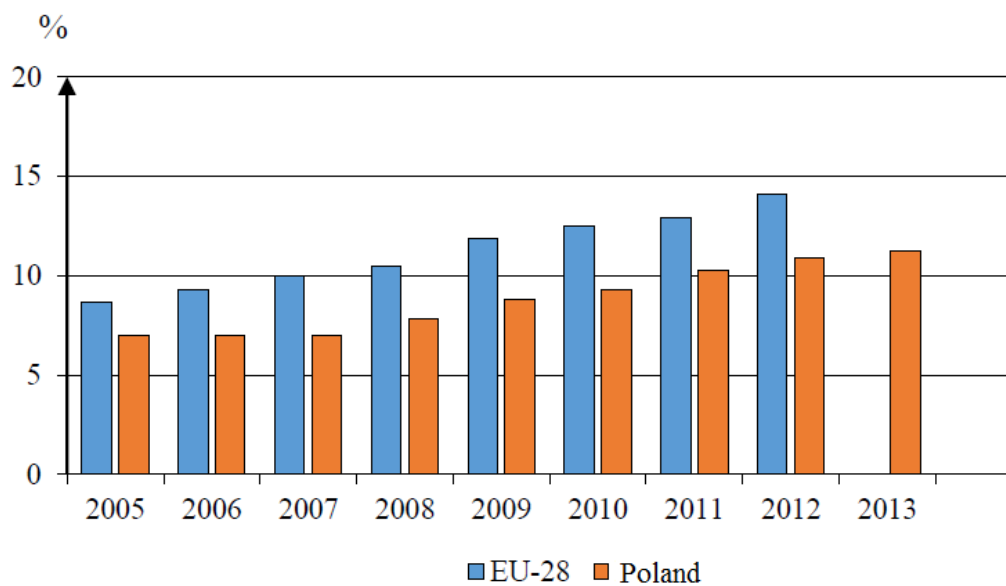
- electricity or heat, particularly from:
 - hydroelectric power stations and wind power stations,
 - sources generating energy from biomass and biogas,
 - solar photovoltaic cells and collectors for heat production,
 - geothermal sources,
- part of energy reclaimed from thermal treatment of municipal waste.

II Renewable energy market in Poland

The popularity of renewable energy in Poland is growing, but still the country lags behind West European countries (see chart below). The partial reason for growing demand for renewable energy is the necessity of improving energy security of the country and relieving its environmental burden. It is especially relevant while taking into consideration the fact that Polish power industry is based mainly on the carbon (it accounts for 90% of the whole energy consumption). In that conditions diversification of energy sources and its development seems to be extremely important.

The interest of Polish authorities in the development of renewable energy is reflected in the value of undertaken investments. According to some analyses, in the years **2011-2020** investment programs in renewable energy in Poland will account to approx. **€ 24 billion (bn)** (only **electricity and heat**) and additionally approx. **€ 3 bn for biofuels**. The biggest investments will be conducted in the sector of **wind energy (almost € 8 bn)**, **solar thermal energy (€ 8 bn)**, **biogases (€ 3.6 bn)** and **biomass CHP (€ 2.5 bn)**. The rest of the given amount will be targeted at biomass boilers, geothermal heating plants, hydroelectric power stations, heat pumps and PV.11 systems.

Consumption of the renewable energy in Poland and EU-28 in the years 2005-2013



Source: Central Statistical Office of Poland 2014, www.stat.gov.pl

The public spending on investments in renewable energy production is caused by the fact that the development of renewable energy is one of the priorities of **Energy Policy of Poland until 2030**. This act provides solutions to all challenges in that field faced by the country by giving the following mechanisms:

- relief of the renewable energy from the excise,
- support for enterprises producing renewable energy,
- tax mechanisms,
- support for renewable energy projects from the European and national environmental protection funds.

Another reason for the development of the renewable energy sector is the fact that Poland - as the member state of the EU since 2004 - has to fulfil the aims of the EU's growth strategy for the coming decade – **EUROPE 2020**. There are 5 priorities of the Strategy: employment, innovation, education, social inclusion and finally, climate/energy. Within the last mentioned priority there are the following targets specified: **reduce greenhouse gases emissions by at least 20% compared to 1990 levels or by 30%, if the conditions are right; increase the share of renewable energy sources in the final energy consumption to 20%** (for Poland, this priority is agreed on the lower level – averagely 15.5%); **and a 20% increase in energy efficiency**.

In order to fulfil those targets and also to adjust Polish energy policy to the standards of the European leaders in that field, the special act of law dedicated to the renewable energy was signed by the Polish president in March 2015. The act handles such issues as: **enhancing energy security and environmental protection, rational renewable energy sources' consumption, and optimal and sustainable energy procurement for its final consumers**. **Some of the resolutions came into force in the mid-April 2015**, others - including ways of supporting producers of energy coming from **renewable sources** - in **January 2016**.

The most striking difference between new and currently applicable law on renewable energy is that green certificates will be replaced by the **auction system** – investors, whose projects win an auction by offering the best price for the energy, obtain the right to resell it to the grid at the regular price. To keep proportion between the development of big and small installations, auctions will be divided into those addressed to installations of the power up to 1 kW and above that level.

The act focuses also on the **prosumers** (the name of prosumer is formed by contracting **producent** with the word **consumer**), that means on people who both produce energy and consume it. They are divided into two groups: the smallest installation up to 3 kW and those between 3 kW and 10 kW. In the case of the first mentioned group, the support will amount to PLN 0.75 (€ 0.19) per 1 kWh during 15 years, and for the second group – PLN 0.70 (€ 0.18) per 1 kWh. Repurchase prices depending on energy sources are presented in the chart below:

Power of an installation	Guaranteed repurchase price	Renewable energy source
up to 3 kW	PLN 0.75 (€ 0.19)	Water, wind and solar energy
3 kW – 10 kW	PLN 0.70 (€ 0.18)	Agricultural biogas
3 kW – 10 kW	PLN 0.65 (€ 0.16)	Water, wind and solar energy
3 kW – 10 kW	PLN 0.55 (€ 0.14)	Biogas from stockyards
3 kW – 10 kW	PLN 0.45 (€ 0.11)	Biogas from sewage treatment plants

Source: <http://www.money.pl/gospodarka/wiadomosci/artykul/ustawa-o-oze-ile-i-jak-zarabia-sie-na,31,0,1725727.html>

Regardless of the type of an electricity plant (solar, wind, water, etc.), each prosumer – in order to produce and sell the energy – has to sign a special agreement with a system operator. Thanks to such an agreement, the security, measuring and accounting mechanisms will be implemented as well as an electricity system will be installed and put into a power grid. As it comes to a final consumer, who does not run a business and wants to sell energy produced in a micro installation (so of the power up to 40 kW), it is not necessary to obtain any additional electricity production license.

The act specifies also the idea of **individual prosumers**, such as households, farmers, business people, small housing associations and small companies, and so-called **collective prosumers**: local governments, schools, bigger housing associations etc. Moreover, the act facilitates all administrative procedures of setting up micro- and small installations: lack of any obligatory concession or reduction of formalities on connecting a micro installation to a network. What is more, according to the act, the volume of energy bought at auctions as well as its price will be set by the government.

It is assumed, that thanks to the act there will be about **250 thousands prosumers** in Poland **until 2020** and the consumption of energy from renewable sources will account for 19% (currently it is approx. 12%) of the final annual energy consumption. The number of home renewable energy systems is supposed to grow also thanks to - among other above mentioned things - easier access to loans for consumers. Moreover, according to the scenario adopted by the Polish government, in 2020 Poland is supposed to be fifth in the ranking of the EU countries in terms of the number (area) of installed solar panels (after Germany, Italy, France and Spain).

In order to support producers of renewable energy from local resources, with a particular focus on a distributed generation (that is: the energy generated or stored by a variety of small, grid-connected devices), the act implements the institution of so-called **official seller**. The guarantee of energy receipt/purchase is granted to a licensed producer of energy from renewable sources which is connected to the grid. It means that a power company from the specific region is obliged to buy the energy coming either from renewable sources or from agricultural biogases. This purchase is possible at the average price of electricity from the previous calendar year.

On the other hand, new law may be less beneficial for a group of so-called 'large' power industry. It is because the act does not guarantee any return on capital, what is essential in that business. Instead of the minimum price there is an assistance ratio, which is moreover very volatile. Another shortcoming of the new act is the lack of acquired rights protection. Any possible compensation claim from the Treasury will be very difficult to get, then.

III Sources of renewable energy in Poland

The most important **renewable energy sources** in Poland in 2013 included: wind power, hydropower and biomass power. The structure of renewable energy sources in Poland and their development's trends are presented in the chart below:

RES type	Capacity (MWh)					
	2008	2009	2010	2011	2012	2013
Wind power	451.090	724.657	1180.272	1616.361	2496.748	2644.898
Hydropower	940.576	945.210	937.044	951.390	966.103	966.236
Biomass power	231.990	252.490	356.190	409.680	820.700	876.108
Biogas power	54.615	70.888	82.884	103.487	131.247	136.319
Solar power	0	0.001	0.033	1.125	1.290	1.290
Total	1678.271	1993.246	2556.423	3082.043	4416.088	4624.851
Growth y/y absolute values (MWh)	154.494	314.975	563.177	525.620	1334.045	208.763
Growth y/y in %	10.14%	18.77%	28.25%	20.56%	43.28%	4.73%

Source: Central Statistical Office of Poland 2014, www.stat.gov.pl

How does Poland look in comparison to the whole European Union's statistics?

The structure of sources of renewable energy in the EU looks quite different. The most important source there are also solid biofuels, but they accounted only for 47.19% of total. A striking difference can be observed in analysis of further positions - the second place in the EU was taken by hydropower (16.24%), following wind (9.97%) and solar (5.13%) energy, while in Poland they are not as important.

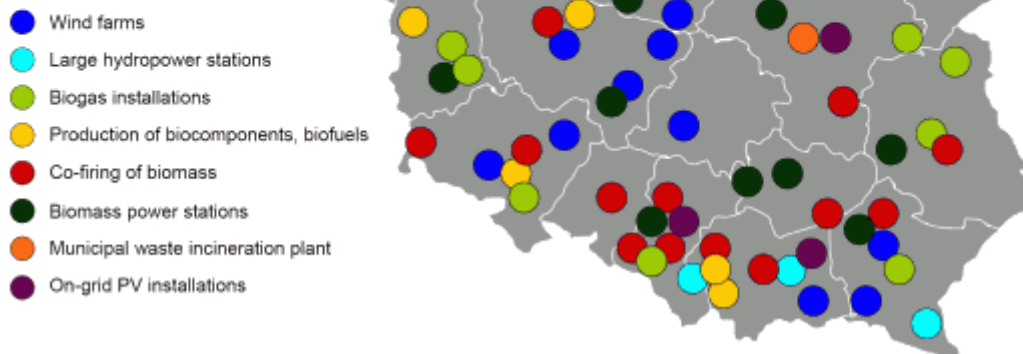
	Poland	EU-28
Solid biofuels	80.03%	47.19%
Liquid biofuels	8.20%	0.02%
Wind energy	6.05%	9.97%
Hydropower	2.46%	16.24%
Biogas	2.12%	6.81%
Municipal waste	0.42%	4.92%
Heat pumps	0.33%	-
Geothermal energy	0.22%	3.21%
Solar energy	0.18%	5.13%
Ocean wave energy	-	0.02%

Source: Central Statistical Office of Poland 2014, www.stat.gov.pl

When comes to the distribution of **renewable energy installations** in Poland, they are located unequally, especially in the north and south part of the country. It is because of the favorable conditions there.

Distribution of renewable energy installations in Poland

(based on Energy Regulatory Office data)



Source: Polish Information and Foreign Investment Office, www.paiz.gov.pl

3.1. Biomass

Total installed capacity in biomass in Poland at the end of 2013 amounted to 876.108 MWh. Electricity production from biomass in 2013 reached 92 GWh. Generating energy by burning solid fuels such as wood and straw are of great interest. It is absolutely understandable since officially existing energetic biomass resources in Poland have been estimated at about 30 million tons per year:

- 9 Mt – wood and wood waste from the forests and orchards,
- 8 Mt – cereals straw,
- 6 Mt- various types of bio-waste,
- and other materials (usually not often used).

The biggest mass of biomaterial available in Poland are animal feces: 80 Mt of manure and 20 Mt of slurry. However, these materials are not usually taken into account as the renewable energy and treated rather as problematic, agricultural waste.

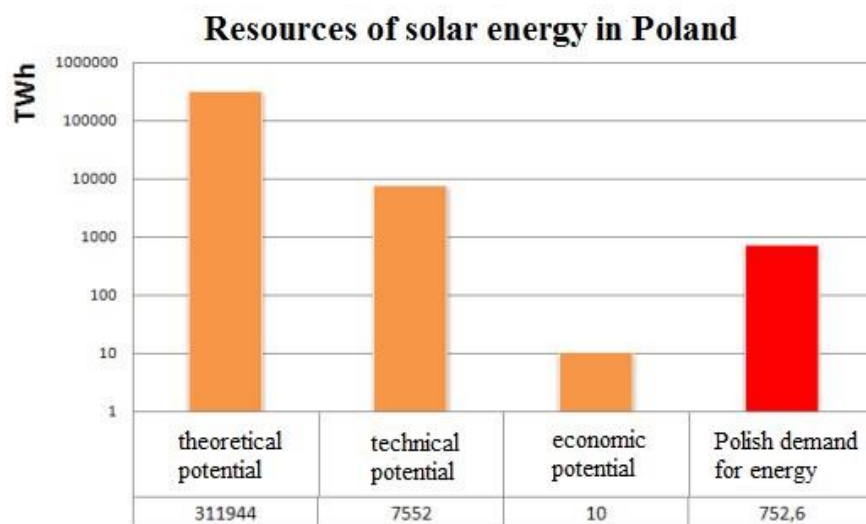
However, in Poland there is a deficit of good quality biomass for briquettes and pallets production. Nevertheless, according to the experts, there will be a strong increase of biomass used for specialized installations (biogas, other biofuels) and development of the installation for only biomass burning (mainly in the form of briquettes and pallets), higher usage of bio-waste for energy production.

In order to develop in that field, there is a necessity for introduction of new technologies (anaerobic digestion, composting, pyrolysis etc.) which will decrease the negative impact of bio-waste on the environment as well as for research on new sources of cheap biomass (i.e. maize straw, algae, etc.).

3.2. Solar power

According to conducted researches, Polish potential for solar energy production is too low to fulfil the whole energy demand of the country (see the graph below), so the usage of it is not recommended in the scale for the entire country's needs, but rather for local purposes.

Resources of solar energy in Poland are very volatile – annually and even daily. During winters, the insolation is seven times weaker than in summer. Owing to this meteorological conditions, solar energy is mainly converted into heat (rarely to electric energy) using installations at the rooftops and built-up areas.



Source: www.zielonaenergia.eco.pl

The popularity of solar energy production in Poland is growing, the trend is especially visible in Polish households.

Specification	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
	in TJ									
Solar energy production	3,6	6,3	10,6	15,0	54,0	283,4	350,0	434,4	544,0	639,3
Final consumption, including:	3,6	6,3	10,6	15,0	54,0	283,4	350,0	434,4	544,00	639,3
Trade and services	3,6	6,3	10,6	15,0	54,0	83,4	100,0	134,4	164,2	179,3
Households	-	-	-	-	-	200,0	250,0	300,0	379,8	460,0

Source: Central Statistical Office of Poland 2013, www.stat.gov.pl

3.3. Wind energy

In Poland in 2014 there were about 2,300 wind turbines of a total capacity of 3,700 MW. In 2013 energy coming from wind accounted for 13% of the total energy consumption in Poland and more than 50% of the energy from renewable resources. In comparison to the energy from traditional sources like coal, the wind - as well as renewable energy as a whole - lags behind: the energy from coal power plants was in the amount of 84,566 thousands GWh and from brown coal in the amount of 56,959 thousands GWh, while for the wind energy it was only about 5,822 thousands GWh. However, there is

an optimistic trend: for coal energy the annual growth is not more than 1%, and – on the contrary – for the wind energy it is on the level of 50%.

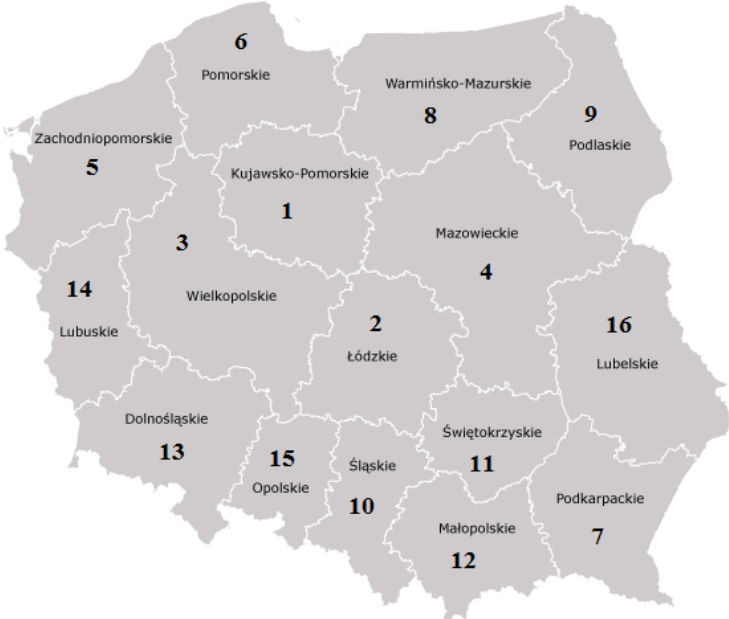
The distribution of wind energy installations in Poland is unequal, mainly because of different conditions of particular regions. The biggest number of installations is in the north part of the country, especially in the kujawsko-pomorskie region (see the chart and the map below). Installations located there make up 25% of total wind energy installations in Poland.

Number of installations and wind power capacity in Poland (as of June 2013)

	Region	Number of installations	Capacity (MW)
1	Kujawsko-pomorskie	215	296,1
2	Łódzkie	162	277,7
3	Wielkopolskie	114	291,5
4	Mazowieckie	62	142,7
5	Zachodniopomorskie	49	836,9
6	Pomorskie	31	312,2
7	Podkarpackie	25	82,5
8	Warmińsko-mazurskie	23	209,5
9	Podlaskie	19	120,4
10	Śląskie	16	11,6
11	Świętokrzyskie	14	6,1
12	Małopolskie	11	3,0
13	Dolnośląskie	7	74,3
14	Lubuskie	7	56,6
15	Opolskie	5	84,2
16	Lubelskie	5	2,2

Source: TPA Horwath Poland

Map of the Polish voivodships in the order of the number of installations located there



3.4. Biogas

In Poland, biogas is produced mainly on municipal waste landfill, in sewages and farm biogas farms. The biggest capacity (collectively about 65 MW) is produced by sewages, but only 75 from 4300 all sewages in Poland are adapted to produce energy. More than 3100 of them are municipal sewages, the rest is industrial. From 800 municipal waste landfills in Poland, only 170 have degassing installations, but only 90 are adapted to produce energy and heat from biogases.

According to experts, in upcoming years in Poland there will be focus on biogas farms, so on energy coming from energy crops, agro-food wastes, as well as from waste dump biogas or expired food.

IV Market possibilities for Flemish companies

An investment in renewable energy is a quite complex and advanced undertaking, from the technical, logistic, economic and, first of all, legal and linguistic point of view. Depending on the type of RES (technology, the type of energy generated) and amount as well as the region of location of the future investment, administrative and legal procedures may differ significantly. Each investment requires a number of permits, decisions and agreements with competent administrative authorities.

An investment process may be divided into three basic stages:

- developer stage,
- construction of a RES unit,
- operational.

The developer state is the most advanced one in terms of formal and legal procedures. It consists mainly of:

- land acquisition – decision about location,
- decision on environmental conditions of approval of a project,
- building permit,

which is followed by obtaining a concession or a registration for carrying out a business activity consisting in the generation of energy from renewable sources¹

Aid for conventional and renewable energy projects is possible under various structural funds and EU programs (more information: <http://www.funduszedlaenergetyki.pl/>, available only in Polish).

What is more, the Polish Government supports the production of energy from renewable sources by:

- investment incentives for producers of renewable energy (system of differently colored certificates),
- obligating energy companies trading in and selling electricity to purchase electricity from renewable sources,
- priority access to the transmission grid for producers of renewable energy,
- exemption of electric energy from renewable sources from the excise tax,
- decreasing by 50% the fee for connecting small installations (<5 MW) to the grid. This type of installations are also exempt from the license fee and the annual fee paid by license holders,
- co-funding investments in clean energy under the National Fund for Environmental Protection and Water Management (NFOŚiGW).

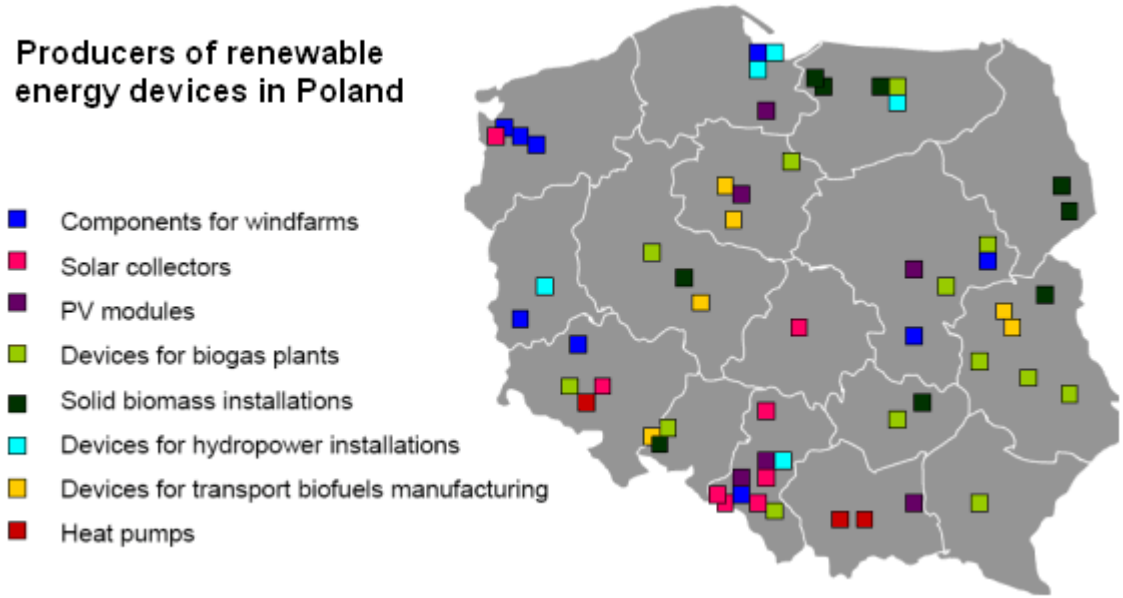
There are a lot of enterprises, both foreign and domestic, investing in renewables in Poland. The most active foreign investors are Vortex, EDP, RWE, E.ON, CEZ, GDF Suez, Mitsui & J.Power, Acciona (wind farms), Dalkia (biomass combustion), Poldanor, AXZON Group (biogas plants). There are also Polish

¹ <http://www.pigeo.org.pl/index.php?menu=przegladaj&id=131>

players, e.g. Enea, Energa, Tauron, PGE (see the contact details to the above mentioned companies on the page 16).

Poland is also gradually becoming an attractive destination for investments in manufacturing of devices used in energy generation. There are estimated to be more than 200 production companies working for the renewable energy sector (Institute for Renewable Energy data).

Producers of renewable energy devices in Poland



Source: Polish Information and Foreign Investment Office, www.paiz.gov.pl

V Useful links & contacts

4.1. Renewable energy associations in Poland

**Polska Izba Gospodarcza Energii Odnawialnej
(Polish Economic Chamber of Renewable Energy)**

Address: ul Gotarda 9

02-683 Warszawa

Phone: +48 22 548 49 99

E-mail: pigeo@pigeo.pl

URL: www.pigeo.pl

President: Prof. PhD. Andrzej Radecki

**Polska Izba Biomasy
(Polish Chamber of Biomass)**

Address: ul. Chmielna 100

00-801 Warszawa

Phone: +48 661 069 027

E-mail: biuro@biomasa.org.pl

URL: <http://www.biomasa.org.pl/english-version.html>

President: Mr. Ryszard Gajewski

**Polska Izba Biopaliw
(Polish Chamber of Biofuels)**

Address: ul. Grzybowska 2 lok. 49

00-131 Warszawa

Phone: +48 22 436 06 11

E-mail: info@kib.pl

URL: www.kib.pl

President: Mr. Zygmunt Gzyra

**Stowarzyszenie Energii Odnawialnej
(Polish Association of Renewable Energy)**

Address: ul. Ogrodowa 59a

00-876 Warszawa

Phone: +48 22 433 12 38

E-mail: biuro@seo.org.pl

URL: <http://www.seo.org.pl/>

President: Mr. Robert Kuraszkiewicz

**Polska Grupa Agencji Energetycznych
(Polish Group of Energy Agencies)**

Address: ul. Mickiewicza 33/15

60-837 Poznań

Phone: +48 61 816 77 27

E-mail: biuro@pgae.pl

URL: <http://pgae.pl>

Office director: Mrs. Justyna Turek-Plewa

4.2. Important events

Green Power – International Renewable Energy Fair

Venue: Poznań International Fair Ltd

ul. Głogowska 14

60-734 Poznań

Contact person: Mr. Marcin Gorynia

Phone: +48 61 869 22 13

E-mail: marcin.gorynia@mtp.pl

URL: <http://greenpower.mtp.pl/en/>

2015 dates: 26-28.05.2015

Next edition's dates: 10-12.05.2016

RENEXPO Poland – International Trade Fair and Conferences for Renewable Energy and Energy Efficiency

Venue: Warsaw Centre Expo XXI

Ul. Prądzyńskiego 12/14

01-222 Warszawa

URL: <http://www.renexpo-warsaw.com/en/>

2015 dates: 22-24.09.2015

Conventional and Renewable Energy Fair

Venue: Szczecin International Fair Ltd

ul. Struga 6-8

70-777 Szczecin

Phone: +48 91 46 44 401

E-mail: office@mts.pl

URL: <http://mts.pl/en/>

2015 dates: 27-29.03.2015

Fair of Renewable Sources of Energy ENEX

Venue: Targi Kielce S.A.

ul. Zakładowa 1

25-672 Kielce

Phone: +48 41 365 12 22

E-mail: biuro@targikielce.pl

URL: <http://www.targikielce.pl/en/>

2015 dates: 5-6.03.2015

International Renewable Energy Fair TEO

Venue: Targi Pomorskie

ul. Hetmańska 38

85-039 Bydgoszcz

Phone: +48 52 323 07 19

E-mail: targi-pom@bdg.pl

URL: <http://www.targi-pom.com.pl>

2015 dates: 28-29.03.2015

Next edition's dates: 26-27.03.2016

BIOGAZ-EXPO Bydgoszcz

Venue: Lucznicka Hall

ul. Toruńska 59

85-087 Bydgoszcz

Contact person: Ms. Małgorzata Lepper-Kordas

Phone: +48 52 375 80 29

E-mail: mlepper@ctpik.com.pl

URL: <http://ctpik.com.pl/?lang=en>

2015 dates: 16-18.06.2015

Next edition's dates: 2017

4.3. Companies

Vortex Energy Polska Sp. z o.o.

ul. Malczewskiego 26

71-612 Szczecin

Phone: +48 91 431 53 80

URL: <http://vortex-energy-group.com/pl/> (PL, EN, GE)

RWE Polska S.A.

ul. Włodarzewska 68

02-384 Warszawa

Phone: +48 22 821 46 46

E-mail: info@rwe.pl

URL: <http://www.rwe.pl/pl>

E.ON Energie Odnawialne Sp. z o.o.

Plac Rodła 8, pok. 2003

70-419 Szczecin

Phone: +48 91 359 42 81

E-mail: info.szczecin@eon.com

URL: <https://www.eon.pl/pl.html>

CEZ Polska Sp. z o.o.

Al. Jerozolimskie 63

00-697 Warszawa

Phone: +48 22 218 01 01

E-mail: info@cezpolska.pl

URL: <http://www.cezpolska.pl/pl/strona-glowna.html>

GDF SUEZ Energia Polska S.A.

Zawada 26

28-230 Połaniec

Phone: +48 15 865 67 01

E-mail: sekretariat@gdfsuez.pl

URL: www.gdfsuez-energia.pl

VEOLIA ENERGIA POLSKA S.A.

ul. Puławska 2

02-566 Warszawa

Phone: +48 22 568 81 00

URL: www.veolia.pl

POLDANOR S.A.

ul. Dworcowa 25

77-320 Przechlewo

Phone: +48 59 833 43 61

URL: www.poldanor.com.pl (PL, EN)

BIOGAS COMPANIES						
Company name	Address	Zip	Town	Phone	e-mail	URL
ABIOS Sp. Z o.o.	ul. Obornicka 330	60-689	Poznań	+48 61 669 46 52	biuro@abios.pl	www.abios.pl
AK NOVA Sp. Z o.o.	ul. Mragowska 3	60-161	Poznań	+48 61 662 33 93	biuro@aknova.com.pl	www.aknova.com.pl
ALLTER POWER Sp. Z o.o.	ul. Chałubińskiego 8	00-613	Warszawa	+48 22 203 47 25	biuro@allterpower.pl	www.allterpower.pl
BALTIC RENEWABLE	ul. Hrubala 14	80-289	Gdańsk	+48 58 522 07 03	rms@balticrenewable.com	http://biogaz.balticrenewable.com
BERUTEX	ul. Staszica 7	55-011	Siechnice	+48 71 311 38 88	info@berutex.com	www.berutex.com
BETTER-ENERGY Sp. z o.o.	ul. Lotnicza 100	54-133	Wrocław	+48 71 359 93 51	biuro@better-energy.pl	www.better-energy.pl
BIO ALIANS Doradztwo Inwestycyjne Sp. Z o.o.	ul. Solec 81b/73a	02-001	Warszawa	+48 22 201 90 39	biuro@bioaliens.pl	www.bioaliens.pl
BIO POWER Sp. Z o.o.	ul. Solna 3	22-400	Zamość	+48 84 638 42 16	biopower-oze@wp.pl	www.biopower.home.pl
BIOGAZOWNIE POLSKIE Sp. Z o.o.	ul. Biskupińska 14	30-732	Kraków	+48 12 261 05 56	biuro@biogazownie.pl	www.biogazownie.pl
BIO-INDUSTRY	ul. Świerkowa 21/17	89-606	Chojniczki	+48 660 000 427	biuro@bio-industry.pl	www.bio-industry.pl
BIOPOLINEX Sp. Z o.o.	ul. Kunickiego 45	20-417	Lublin	+48 81 748 48 73	biuro@biopolinex.pl	www.biopolinex.pl
BIOWATT SA	ul. Błacharska 2	61-006	Poznań	+48 61 855 35 90	biowatt@biowatt.pl	www.biowatt.pl
Biuro Inżynierskie CENTRUM Sp. Z o.o.	ul. Berneńska 3c	03-976	Warszawa	+48 22 617 01 41	biuro@bicentrum.pl	www.bicentrum.pl
CAD-PROJEKT Sp. Z o.o.	ul. Kwiatów Polskich 26	71-499	Szczecin	+48 91 424 21 00	info@cad-projekt.eu	www.cad-projekt.eu
CONEX Sp. Z o.o.	Al. Jerozolimskie 65/79	00-697	Warszawa	+48 22 630 66 10	biuro@conex-oze.pl	www.conex-oze.pl
DECO CleanEnergy	ul. Petrażyckiego 22	52-419	Wrocław	+48 71 364 32 83	biogazplant@biogazplant.pl	www.biogazplant.pl
EKO-TREND Sp. Z o.o.	ul. Odrodzenia 7	22-400	Zamość	+48 84 638 60 10	sekretariat@eko-trend.pl	www.eko-trend.pl
ELTECO POLAND SA	ul. Księży Pijarów 5	31-466	Kraków	+48 12 623 33 00	sekretariat@elteco.pl	www.elteco.pl
ENERGENE Sp. Z o.o.	ul. Wróblewskiego 38a	93-578	Łódź	+48 518 386 979	kontakt@energene.eu	www.energene.eu
FAMBUD Sp. Z o.o.	ul. Mszczonowska 73	96-100	Skierniewice	+48 46 833 38 02	fambud@fambud.eu	www.fambud.eu
GRAS ENERGIA	ul. Strażnicza 1	82-300	Elbląg	+48 55 239 38 37	biuro@grasenergia.pl	www.grasenergia.pl
INŻYNIERIA ENERGETYCZNA Sp. Z o.o.	ul. Tragugutta 23	43-300	Bielsko-Biała	+48 33 810 71 62	office@inzynieria-energetyczna.biz.pl	http://inzynieria-energetyczna.pl

KLIMAPOL Sp. Z o.o.	Dąbrowica 127c	21-002	Jastków	+48 81 742 62 03	info@klimapol.com	www.klimapol.com
M&W Odnawialne Źródła Energii	ul. Pułaskiego 11	15-339	Białystok	+48 604 310 911	miroslawwojtiuk@gmail.com	http://eko-energia.info
POLSKA GRUPA BIOGAZOWA - PGB DEVELOPMENT Sp. Z o.o.	ul. Gotarda 9	02-683	Warszawa	+48 22 548 49 00	pgbiogaz@pgbiogaz.pl	www.pgbiogaz.pl
PROBIKO Sp. Z o.o.	ul. Paderewskiego 38a	62-020	Swarzędz	+48 61 650 95 87	biuro@probiko.pl	www.probiko.pl
PWP KATOWICE Sp. Z o.o.	ul. Katowicka 60	41-400	Mysłowice	+48 32 209 01 88	biuro@pwpkatowice.pl	www.pwpkatowice.pl
RENBIO Sp. Z o.o.	ul. Jagiellońska 94c	85-027	Bydgoszcz	-	info@renbio.pl	www.renbio.pl
SOLTECH	ul. Czechowska 6/7	20-072	Lublin	+48 81 534 38 17	soltech@post.pl	www.transtech-eco.pl
THERMEX Sp. Z o.o.	ul. Friedleina 6	30-009	Kraków	+48 12 633 99 07	info@thermex.com.pl	www.thermex.com.pl
ZRB BUDTECH Sp. Z o.o.	ul. Dojazdowa 9	43-100	Tychy	+48 32 757 03 52	biuro@biogazownie.eu	www.biogazownie.eu

SOLAR COMPANIES

Company name	Address	Zip	Town	Phone	e-mail	URL
A&B SOLAR COMPANY Sp. Z o.o.	ul. Szewska 9/5	61-760	Poznań	+48 880 880 660	biuro@solarcompany.pro	www.solarcompany.pro
ACTIV-PRO	ul. Jackowskiego 37a	64-100	Leszno	+48 65 521 07 19	fotowoltaika@activpro.pl	www.activpro.pl
AS-MAR	ul. Reymonta 66	09-200	Sierpc	+48 24 275 43 53	biuro@as-mar.pl	www.as-mar.pl
AVATAR ENERGIA	ul. Krakowska 98/116	50-427	Wrocław	-	avatar.consulting@wp.pl	-
BRUK-BET Sp.z o.o. - Bruk-Bet SOLAR	ul. Mroźna 8	33-102	Tarnów	+48 14 632 08 20	pavelbien@gmail.com	www.solar.bruk-bet.pl
COMSYSTEM S.C.	Godzimirz 9	78-400	Szczecinek	+48 94 372 06 09	biuro@akumulatory-zelowe.pl	www.akumulatory-zelowe.pl
EasySolar Sp. Z o.o.	ul. Obornicka 330	60-689	Poznań	+48 61 669 46 64	info@easysolar.pl	www.easysolar.pl
EKO GALICJA Sp. Z o.o.	ul. Płk. Dąbka 8/102	30-732	Kraków	+48 797 142 747	annakanadys@ekogalicja.pl	www.ekogalicja.pl
EKOINSTALHOME PW	ul. Bałtycka 52a	05-120	Legionowo	+48 602 254 112	office@ekoinstalhome.pl	www.ekoinstalhome.pl
EKOPARK SA	Lipienica 12	87-410	Kowalewo Pomorskie	+48 56 622 05 46	info@eko-park.org	www.eko-park.org
EKO-SOLAR	ul. Wszeradów 2	46-100	Namysłów	+48 77 444 20 00	biuro@eko-solar.eu	www.eko-solar.eu
EKO VOLT	ul. Darłowska 54	60-452	Poznań	+48 604 961 209	biuro@ekovolt.com.pl	www.ekovolt.com.pl
ETI POLAM	al. Jana Pawła II 18	06-100	Pułtusk	+48 23 691 93 00	etipolam@etipolam.com.pl	www.etipolam.com.pl
ETSOL	ul. Tarninowa 8	62-095	Murowana Goślina	+48 604 953 925	tech@etsol.pl	www.etsol.pl

GALMET Sp. Z o.o.	ul. Raciborska 36	48-100	Głubczyce	+48 77 403 45 00	salary@galmet.com.pl	www.galmet.com.pl
GRODNO SA	ul. Kwiatowa 14, Michałów Grabina	05-126	Nieporęt	+48 22 772 45 15	grabina@grodno.pl	www.grodno.pl
GTI	ul. Szyszkowa 34	02-285	Warszawa	+48 22 575 82 66	biuro@gti.pl	www.gti.pl
HAWKER	ul. Leszczyńska 73	43-301	Bielsko-Biała	+48 33 822 53 81	sekretariat@pl.enersys.com	www.hawker.pl
HYMON ENERGY Sp. Z o.o.	ul. Dojazd 16a	33-100	Tarnów	+48 14 657 20 21	biuro@hymon.pl	www.hymon.pl
INFOTOM	ul. Morelowa 24	65-434	Zielona Góra	+48 601 773 483	poczta@infotom.com.pl	www.infotom.com.pl
INGETEAM	ul. Kozykowa 60/62 m. 39	02-673	Warszawa	+48 22 821 99 30	polska@ingeteam.com	www.ingeteam.com
LUMEN TECHNIK	ul. Domaniewska 39a	02-672	Warszawa	+48 22 100 65 65	kontakt@lumentechnik.pl	www.lumentechnik.pl
MAYBATT	ul. Chmielna 73b/49	00-802	Warszawa	+48 22 652 11 89	-	www.maybatt.pl
MERSEN	ul. Walerego Sławka 3a	30-633	Kraków	+48 12 646 97 22	biuro.polska@mersen.com	www.mersen.com
MPL ENERGY Sp. Z o.o.	ul. Wschodnia 40	44-119	Gliwice	+48 32 440 08 77	pawel.kostrzewa@mplenergy.pl	www.mplenergy.pl
NO-EL	al. Roździeńskiego 188	40-203	Katowice	+48 32 203 91 37	no-el@no-el.pl	www.no-el.pl
NOVAVIS SA	ul. Bartycka 26 (BudExop), paw. 58	00-716	Warszawa	+48 22 628 11 03	office@novavis.pl	www.novavis.pl
OPA-LABOR Sp. Z o.o.	ul. Wyzwolenia 22	41-103	Siemianowice Śląskie	+48 32 228 16 09	opa@opalabor.pl	www.opalabor.pl
OZEnergia	Kiełpin 24a	66-006	Zielona Góra	+48 530 530 322	biuro@ozenergia.com.pl	www.ozenergia.com.pl

PASSIVE ENERGY Polska	Pl. Wolności 1a	12-100	Szczytno	+48 534 963 160	biuro@passiveenergy.pl	www.passiveenergy.pl
PV LAB	ul. Złota 61 lok. 205	00-819	Warszawa	+48 797 355 150	biuro@pvlab.pl	www.pvlab.pl
RECONAL	ul. Krakowska 150	35-506	Rzeszów	+48 17 852 06 68	reconal@reconal.com.pl	www.reconal.com.pl
REGESS Sp. Z o.o.	ul. Bankowa 36	58-500	Jelenia Góra	+48 75 612 60 60	geert.vandikkelen@regess.eu	www.regessenergy.com
REMOR SA	ul. Kolejowa 48	73-210	Recz	+48 95 765 41 03	sprzedaz@remor.pl	http://remorsolar.com
RENSAN ENERGY	ul. Bł. Ks. Kubisty 24	40-749	Katowice	+48 601 944 969	biuro@rensanenergy.pl	www.rensanenergy.pl
ROSSA COMMERCUM	ul. Pod Fortem 2/3-4	31-302	Kraków	+48 12 357 12 71	rossa@rossa.info.pl	www.rossa.info.pl
SELFA-PV	ul. Bieszczadzka 14	71-042	Szczecin	+48 91 81 46 300	info@selfa-pv.com	www.selfa-pv.com
SIBA	ul. Grzybowa 5g	05-092	Łomianki, Dąbrowa Leśna	+48 22 832 14 77	siba@siba-bezpieczniki.pl	www.siba-bezpieczniki.pl
SOLARA DEVELOPMENT	ul. Ogrodowa 37/50	00-873	Warszawa	+48 22 207 29 10	sales@solaradevelopment.com	www.solaradevelopment.com
SOLAR SHOP	ul. Łązówka 44	34-100	Wadowice	+48 33 873 17 47	biuro@solarshop.pl	www.solarshop.pl
SOLARLINE S.C.	ul. Odległa 6	20-442	Lublin	-	biuro@solarline.pl	www.solarline.pl
SUN ELECTRIC	ul. Wyżynna 12	20-560	Lublin	+48 500 100 151	biuro@sunelectric.pl	www.sunelectric.com.pl
SUNSOL	ul. Mierostawskiego 21	80-430	Gdańsk	+48 58 746 38 99	biuro@sunsol.pl	www.sunsol.pl

SUNWIND Sp. Z o.o.	ul. Nowogrodzka 50/515	00-695	Warszawa	+48 505 913 203	biuro@sunwind.pl	www.sunwind.pl
SWE	ul. Marklowicka 30a	44-300	Wodzisław Śląski	+48 794 704 726	info@swenergia.pl	www.swenergia.pl
T&T PROENERGY Sp. Z o.o.	Leszczyńskie Centrum Biznesu, ul. Geodetów 1	64-100	Leszno	+48 65 322 21 22	biuro@ttproenergy.pl	www.ttproenergy.pl
VertigoGreen Energy Sp. Z o.o.	ul. Batorego 91	62-080	Baranowo	+48 502 232 912	jarek.trela@vertigogreenenergy.pl	www.vertigogreenenergy.pl
VITIS-IT	Al. Prymasa 1000-lecia 48a, p. 1	01-242	Warszawa	+48 22 646 46 92	info@vitis-it.pl	http://suntrack.pl
WESTWIND SOLAR Sp. Z o.o.	ul. Gdańska 4a	87-100	Toruń	+48 56 652 89 10	janas@w-solar.pl	www.w-solar.pl

CONSULTING COMPANIES						
Company name	Address	Zip	Town	Phone	e-mail	URL
EKO-PROJEKT	ul. Dąbrowskiego 291a	60-406	Poznań	+48 61 667 51 65	biuro@eko-projekt.com	www.eko-projekt.com
EUROCON	ul. Marymoncka 105/20	01-813	Warszawa	+48 22 320 54 60	biuro@euro-con.pl	www.euro-con.pl
EUROPROJEKTY	Plac W. Andersa 7	61-894	Poznań	+48 61 668 38 88	biuro@europrojekty.com	www.europrojekty.com
GREENPL. EU	Al. Niepodległości 18	02-653	Warszawa	+48 22 424 95 80	biuro@greenpl.org	www.greenpl.eu
INVESTEKO SA	ul. Dąbrówki 10	40-081	Katowice	+48 32 258 55 80	biuro@investeko.pl	www.investeko.pl
DE KREIJ Polska Sp. Z o.o.	ul. Noskowskiego 2	61-704	Poznań	+48 61 867 14 29	biuro@dekreij.pl	www.dekreij.pl
EKO-CONSULTING	ul. Sienkiewicza 22	60-818	Poznań	+48 61 679 25 15	info@eko-consulting.pl	www.eko-consulting.pl
PRIMUM BV	ul. Szczurkiewiczów 19	60-184	Poznań	+48 61 670 94 71	info@primum-polska.pl	www.primum-polska.pl
METROPOLIS	ul Zakopiańska 197	60-467	Poznań	+48 61 820 54 44	info@metropolisdg.pl	www.metropolisdg.pl
SSW	Rondo ONZ 1	00-124	Warszawa	+48 22 544 87 00	warszawa@ssw.pl	www.ssw.pl

ORGANIZATIONS						
Company name	Address	Zip	Town	Phone	e-mail	URL
PV POLAND (Polish Society for Photovoltaics)	ul. Prałatowska 5/50	03-510	Warszawa	+48 22 679 88 70	info@pv-polska.pl	www.pv-polska.pl
Polska Izba Biomasy (Polish Chamber of Biomass)	ul. Chmielna 100	00-801	Warszawa	+48 661 069 027	biuro@biomasa.org.pl	www.biomasa.org.pl
Towarzystwo Rozwoju Małych Elektrowni Wodnych (Association of Small Water Power Stations)	ul. Królowej Jadwigi 1	86-300	Grudziądz	+48 56 464 96 44	biuro@trmew.pl	www.trmew.pl
Polskie Stowarzyszenie Geotermiczne (Polish Geothermal Society)	Al. Mickiewicza 30	30-059	Kraków	+48 12 423 40 00	psg@agh.edu.pl	www.energia-geotermalna.org.pl
Stowarzyszenie Producentów i Importerów Urządzeń Grzewczych (Association of Producers and Importer of Heating Equipment)	ul. Słomińskiego 15/508	00-195	Warszawa	+48 22 501 46 32	biuro@spiug.pl	www.spiug.pl
Polska Izba Gospodarcza Energetyki Odnawialnej i Rozproszonej (Polish Chamber of Commerce of Renewable Energy)	ul. Gotarda 9	02-683	Warszawa	+48 22 548 49 99	pigeo@pigeo.pl , pigeor@pigeor.pl	www.pigeo.pl
Stowarzyszenie Gmin Polska Sieć "Energie Cites" (PNEC)	ul. Sławkowska 17/30	31-016	Kraków	+48 12 429 17 93	biuro@pniec.org.pl	www.pniec.org.pl

Ogólnopolskie Stowarzyszenie "Poszanowanie Energii i Środowiska" SAPE-POLSKA	ul. Świętokrzyska 20	00-002	Warszawa	+48 22 505 46 45	sape@sape.org.pl	www.sape.org.pl
Polskie Stowarzyszenie Energetyki Wiatrowej (Polish Wind Energy Association)	ul. Księcia Bogusława X 1/12-13	70-440	Szczecin	+48 91 486 25 30	biuro@psew.pl	www.psew.pl
Stowarzyszenie Krajowa Izba Biopaliw (Biofuels Chamber)	ul. Grzybowska 2/49	00-131	Warszawa	+48 22 436 06 11	info@kib.pl	www.kib.pl
Związek Pracodawców Forum Energetyki Odnawialnej (Renewables Entrepreneurs Association)	ul. Mokotowska 4/6	00-641	Warszawa	+48 22 825 46 52	biuro@ieo.pl	www.zpfeo.org.pl
Intytut Energetyki Odnawialnej (EC BREC IEO)	ul. Mokotowska 4/6	00-641	Warszawa	+48 22 825 46 52	biuro@ieo.pl	www.ieo.pl
Polski Klub Ekologiczny Okręg Mazowiecki	ul. Mazowiecka 11/16	00-052	Warszawa	+48 22 827 33 70	pkeom.org@gmail.com	www.gospodarzenergia.pl
Polski Klub ekologiczny Zarząd Główny	Al. Słowackiego 48 IIIp.	31-018	Kraków	-	biuro_pkezg@pkezg.pl	www.pke-zg.home.pl
Związek Gmin Wiejskich RP	ul. Kantaka 4	61-812	Poznań	+48 61 851 74 18	biuro@zgwrp.pl	www.zgwrp.pl
INSTYTUT AGROENERGETYKI Sp. Z o.o.	ul. Bagno 2/73	00-112	Warszawa	+48 22 188 12 35	abcbiogazowni@iae.org.pl	www.abcbiogazowni.pl
Stowarzyszenie Eksploatatorów Obiektów Gospodarki Wodno-Ściekowej (Association of Operators of WTP)	ul. Podhalańska 7	44-335	Jastrzebie Zdrój	+48 32 471 28 53 ext.116	biuro_seogws@eksloator.org	www.eksplloatator.org

Automotive Industry Institute	ul. Jagiellońska 55	03-301	Warszawa	+48 22 777 70 20	instytut@pimot.eu	www.pimot.eu
Regional Center of Renewable Energy	ul. Głowackiego 29	67-200	Głogów	-	rceo@o2.pl	-

CLUSTERS						
Company name	Address	Zip	Town	Phone	e-mail	URL
Waste-Cluster	ul. Rubież 46	61-612	Poznań	+48 61 627 22 04	wasteklaster@ppnt.poznan.pl	www.waste-klaster.pl
Śląski Klaster Rewitalizacji i Technologii Środowiskowych (Silesian Cluster of Revitalization and Environmental Technology)	ul. Rozdzieńskiego 38	41-946	Piekary Śląskie	+48 32 630 75 88	tomasz.cejner@ekopark.piekary.pl	www.revitaklaster.pl
Klaster Bioenergia dla Regionu (Bioenergy For the Region Cluster)	ul. Innowacyjna 9/11	95-050	Konstantynów Łódzki	+48 42 636 12 59	proakademia@proakademia.pl	www.bioenergiadlaregionu.eu
Śląski Klaster Gospodarki Odpadami (Silesian Cluster of Waste Management)	ul. Dąbrówki 10	40-081	Katowice	+48 32 781 81 10	biuro@skgo.pl	www.skgo.pl
Klaster Gospodarki Odpadowej i Recyklingu (Waste Management and Recycling Cluster)	ul. Metalurgiczna 15c	20-234	Lublin	+48 533 649 605	biuro@klasterodpadowy.com	www.klasterodpadowy.com
Lubelski Klaster Ekoenergetyczny (Ecoenergy Cluster of Lubelskie Region)	ul. Kuźnicza 15	21-045	Świdnik	+48 81 534 36 18	info@laos.com.pl	www.laos.com.pl

Klaster Green Cars (Green Cars Cluster)	ul. Chełmska 19/21	00-724	Warszawa	+48 533 301 555	biuro@carspl.eu	www.carspl.eu
Dolnośląski Klaster Energii Odnawialnej (Lower Silesian Renewable Energy Cluster)	ul. Rynek 1a	58-100	Świdnica	+48 74 853 50 09	biuro@dkeo.pl	www.dkeo.pl
Dolnośląski Klaster Ekoenergetyczny EEI - Energia, Ekologia, Innowacje (Lower Silesian Ecoenergy Cluster EEI – Energy, Ecology, Innovations)	ul. Armii Krajowej 6/6	50-541	Wrocław	+48 71 780 51 61	cedres@cedres.pl	www.klaster-eei.pl
Świętokrzysko-Podkarpacki Klaster Energetyczny (Ecoenergy Cluster of Świętokrzyskie and Podkarpackie Regions)	ul. Al Solidarności 34	25-323	Kielce	+48 41 343 29 10	biuro@it.kielce.pl	www.it.kielce.pl