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Prices for Renewable Energies in Europe:

Report 2009

Edited by Dr. Doerte Fouquet

This report as all EREF price reports before could only materialise due to a joint and big effort by the member associations of EREF in patiently answering questions and updates and providing information. The administration in various Member States was very helpful to share data. Karola Falasca working with EREF in Brussels and Norbert Kretschmer again kept the right patience to gather missing links and prepare the various graphs from our data base.

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PREPARATORY COMMISSION FOR
INTERNATIONAL
RENEWABLE
ENERGY AGENCY **IRENA**

First words

It is my pleasure to welcome the new EREF Price Report 2009 for renewable electricity prices in the EU 27 Member States. The EREF Price Report has become a well known and used reference source for industry, finance, investment houses, developers and politicians alike. When making decisions on investments, a sound knowledge of prices is indispensable. False information on prices and support mechanisms leads to flawed decisions. Therefore I welcome this report: it seeks to provide reliable and robust data on all types of renewable energy on the EU level.

A similar collection and evaluation of data is still lacking for the international level. In co-operation with other international scientific and governmental institutions, IRENA is currently designing concepts how to gather, proceed and publish global data on renewable energy. It is our aim to display the potential of renewable energy production throughout the world, to showcase communities, cities and regions that are powered 100% by renewables – or are heading towards that goal - and to display the true costs of conventional energies and the advantages of renewables. A sound data base will put us in the position to argue much stronger for the benefits of renewable energy.

IRENA's 136 members nominated me to establish the Agency as a centre of excellence. IRENA will collect and share information to produce knowledge and expertise. It will end the imbalances in knowledge between conventional and renewable energy and will thus enable people to make the right choices.

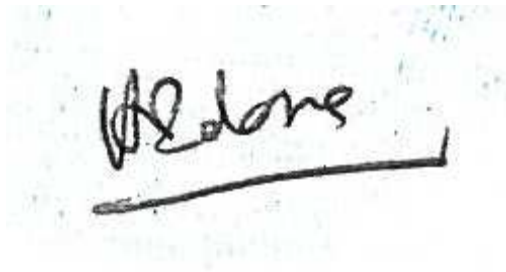
Armed with this expertise, IRENA will become the global voice for renewable energy. The Agency will speak up about the benefits and the potential of renewable energy worldwide. It will address decision makers, international fora, local communities, financing and scientific institutions, the industry, the media and the broad public. IRENA works towards a world powered 100% by renewable energy.

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It is IRENA's goal to empower people with renewable energy - to give them autonomy and to establish justice between nations, generations and genders.

I am delighted that EREF immediately underlined its commitment to assist IRENA in getting quickly off the ground and to emerge as a strong institution. EREF's longstanding experience as watchdog for independent power producers in Europe on aspects such as access to the market, strong investment security policies and abatement of barriers will be of great value for my work and that of IRENA. I am looking forward to a fruitful cooperation and wish us all a strong success.

A handwritten signature in black ink, appearing to read 'Hélène Pelosse', is written above a horizontal line.

Hélène Pelosse

Interim Director General

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I. Introduction and Overview on Renewable Energy Policies in the European Union

1. A crucial time for renewable energy in Europe

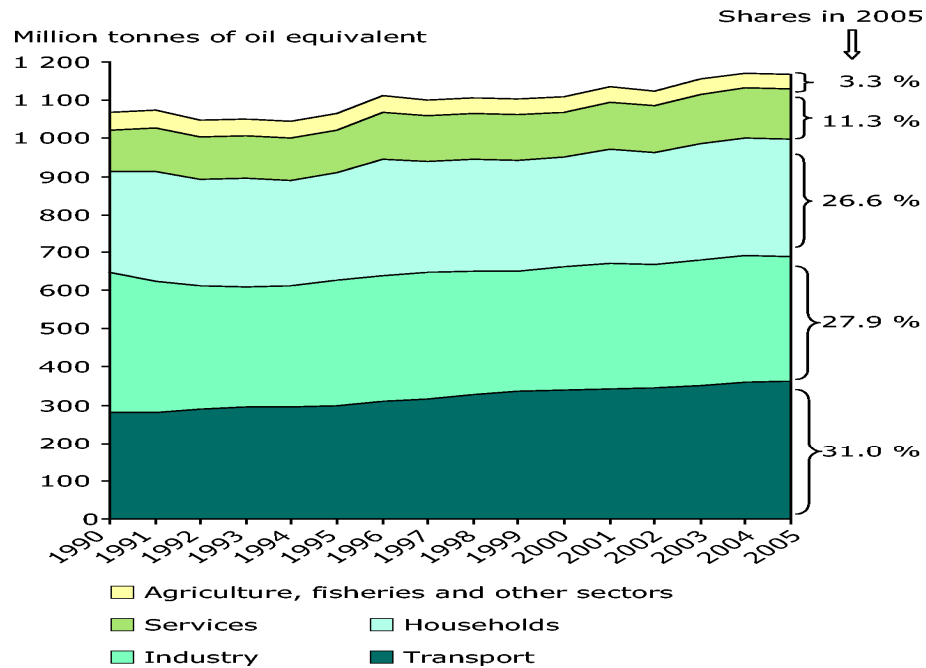
The fifth EREF report on Renewable Electricity Prices in the European Union comes out at very important time for renewables in Europe and globally. It is an interesting harvest of data which show price reduction at its best in countries which have introduced FiT mechanisms since many years and which follow cost digression policies in consequent review cycles in parallel to up-scaling of renewable energy deployment. It also underlines again that natural pre-conditions vary in the different countries and regions resulting in more or in less harvesting power from renewable sources and thus the need to reflect such differences in the support tariff paid per kWh. This right balancing is an important pre-condition for investment security.

In the European Union over the coming decades 400 GW installed electricity production capacity has to be phased out and to be replaced. The majority of this old stock is nuclear or coal fired. How the new Energy design is developed will be crucial for Europe's energy and climate policy. EREF calls for strict priority for drastic energy efficiency and rapid deployment of renewable energies with adequate change in grid structure, storage and demand side management.

Europe needs policies to phase out especially the housing sector from an energy consumption equation. Modern technologies also through re-furbishing of old building can drastically reduce energy consumption and the installation of renewable technologies- house integrated or in local vicinity, enable this sector to become energy neutral or to change into plus energy producers. And this means it enables Europe's citizen to become self responsible for their energy supply and consumption and to increase our sustainable energy self-esteem.

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Source: EC Commission, Final Energy Consumption in Europe per Sector

The new sustainable energy order needs big and small renewable applications, but with a strong focus on the regional distributed supply principle. There is no need to change from one energy import dependency to another.

Since January 2009, the European Union has committed itself to binding targets for an increase of renewable energies to 20 % of the total gross energy consumption in the EU by 2020. After more than a year of intensive discussions Europe agreed on a milestone directive for the promotion of renewable energies. The Directive is embedded in a set of Climate and Energy directives, guidelines and decisions with the overall objective:

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- 20% Greenhouse Gas (GHG) reduction compared to 1990
 - Independent EU commitment
- 30% GHG reduction compared to 1990
 - In context and under condition of an international agreement
- 20% renewable share of final energy consumption
- 10% biofuels in transport, with focus on
 - production being sustainable
 - priority for second generation biofuels commercially available
 - renewable electricity for transport

In a nutshell, the European Directive for the promotion of renewable energy

1. Integrates all renewable energy applications be it for heating, transport or electricity under one legal framework
2. Sets mandatory national targets for renewable energy shares, including 10% biofuels share in transport, in 2020
3. Requires National Action Plans, which have to be submitted to the European Commission on the basis of a structure the Commission will develop until 2009
4. Gives flexibility for Member States to reach part of their target through
 5. Statistical transfer between Member States
 6. Joint projects between Member States and third countries with existing or planned interconnector capacity (under certain conditions and provided RES energy reaches the EU)

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7. Encourages joint Support mechanisms between MS, but leaves it in the responsibility of Member States to apply support mechanisms which suit best their national energy and overall policy
8. Sets clear rules for disclosure quality of Guarantees of origin
9. Requires reduction of administrative and regulatory barriers, improvements in provision of information and training and improves renewables' access to the electricity grid
10. Creates a sustainability regime for biofuels
11. Asks the Member States to define national sectoral targets helping to reach the binding overall national targets.

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The EU Nations are obliged to reach the following targets by 2020 (Annex I of the Directive of the European Parliament and of the Council on the Promotion of the use of energy from renewable sources: **Fig:1.:** National overall targets for the share of energy from renewable sources in gross final consumption of energy in 2020¹

	Share of energy from RES in 2005 ²	Target for share of energy from RES in 2020 ³		Share of energy from RES in 2005	Target for share of energy from RES in 2020
Belgium	2,2 %	13%	Lithuania	15,0 %	23%
Bulgaria	9,4 %	16%	Luxembourg	0,9 %	11%
Czech Republic	6,1 %	13%	Hungary	4,3 %	13%
Denmark	17,0 %	30%	Malta	0,0 %	10%
Germany	5,8 %	18%	The Netherlands	2,4 %	14%
Estonia	18,0 %	25%	Austria	23,3 %	34%
Ireland	3,1 %	16%	Poland	7,2 %	15%
Greece	6,9 %	18%	Portugal	20,5 %	31%
Spain	8,7 %	20%	Romania	17,8 %	24%
France	10,3 %	23%	Slovenia	16,0 %	25%
Italy	5,2 %	17%	Slovak Republic	6,7 %	14%
Cyprus	2,9 %	13%	Finland	28,5 %	38%
Latvia	32,6 %	40%	Sweden	39,8 %	49%
			United Kingdom	1,3 %	15%

¹ In order to be able to achieve the national objectives set out in this Annex, it is underlined in the Directive that the "State aid guidelines for environmental protection recognise the continued need for national mechanisms of support for the promotion of energy from renewable sources".

² Share of energy from renewable sources in gross final consumption of energy in 2005

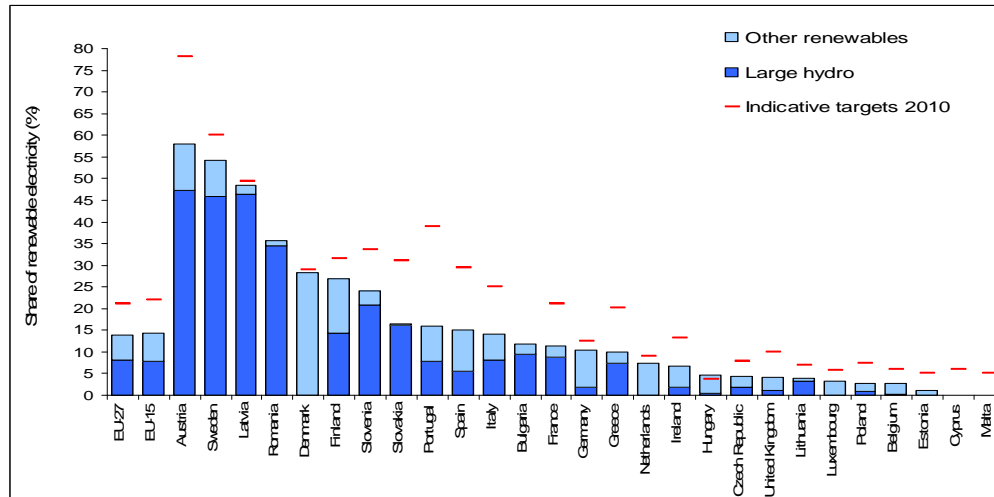
³ Target for share of energy from renewable sources in gross final consumption of energy

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Fig.2.: Where we stand with renewable energies in the EU ⁴



Rapid and broad penetration of renewable energy (RE) is necessary, in Europe and worldwide to meet greenhouse gas (GHG) emission reduction and energy security targets and to change towards sustainability in energy. Therefore RE have to be deployed as much, as fast and as regional as possible.

A 2008 report of UNEP produced by the Worldwatch Institute and entitled “Green Jobs: Towards decent work in a sustainable, low-carbon world” underlines the need of “forward-thinking government policies” as being

- Important for providing funding of green projects; overall goal- and standard-setting beyond the time horizons typical in the business world; providing infrastructure that private enterprises cannot or will not create; and creating and maintaining a level playing field for all actors.

⁴ Source: EEA

Key policies according to this report include:

- Phase out subsidies for environmentally harmful industries; shift those funds to renewable energy, efficiency technologies, clean production methods, and public transport.
- Fix the current shortcomings inherent in carbon trading and Kyoto Protocol related innovations like the Clean Development Mechanism.
- Tax Reform. Scale up eco-taxes, such as those adopted by a number of European countries, and replicate them as widely as possible. Eco-tax revenues can be used to lighten the tax burden falling on labour while discouraging polluting and carbon-intensive economic activities.

As underlined previously the European Commission on several occasion pointed to the overall distortion of the energy market, the non-internalisation of externalities of fossil and nuclear power production still requiring renewable energy support mechanisms in the Member States that ensure investor confidence and guarantee fair and stable access to the overall energy market.⁵ The new Directive outlines in its introductory remarks that *“Public support is necessary to reach the Community's objectives with regard to the expansion of electricity produced from renewable sources, in particular for as long as electricity prices in the internal market do not reflect the full social and environmental costs and benefits of energy sources used.”*

2. National Renewable Action Plans

For EREF it is important not only to fully support the new European Directive as a real chance for future developments, but also to point out that in having this Directive Member States should not rest their case. The 20 % target is not an ambitious target and it won't be enough to fence of degradation for life globally as consequence of Climate Change. But it is a good ground for action and triggers investment in renewable technologies.

Policy actions are required in each Member State to achieve the binding RES targets. Within the framework of the new European Directive, sound RES support policies and clear sectoral targets are now to be set by Member States.

The following criteria independent of the support instrument applied in a certain country are recommended:

- The RES policy framework needs to respect the full basket of RES technologies as allowed for target compliance.

⁵ See Fouquet, Doerte; Johansson, Thomas, European renewable energy policy at crossroads, Energy Policy 36 (2008) 4079-4092

- An adequate level of financial support should be provided – i.e. slightly higher than the marginal generation costs (in the case of a quota system the level of penalty is relevant).
- Financial support for the operation of a RES plant needs to be guaranteed but clearly restricted to a certain time frame.
- Any adaptation or change of the policy framework should be targeted to assure deployment of new RES capacities.

Within the new European Directive, a focus has been put on national deployment mechanisms. This could however create the risk that Member States become hesitant to deliver RES at home but rather look for joint projects especially outside the EU in bordering regions. National support remains important as a supplement to European policies and Member States should stay at the forefront in supporting renewable energies.

It is important to keep at all times in mind the very national link of support mechanism:

- Renewables are distributed and decentralised energies and are therefore best tapped and managed on a regional level.
- All RES Technologies must be promoted, no cherry-picking can be allowed.
- Each country has a lot of specific variables such as the availability of RES potential, Cultural preferences, different social, tax, RTD approaches which calls for a high degree of national responsibility.

3. The EU economic recovery plan

The years 2008 and 2009 are marked by the worst financial and economic crises in the world since the Second World War.

In December 2008, the European Council approved the European Economic Recovery Plan, equivalent to about 1,5 % of the GDP of the European Union (a figure amounting to around EUR 200 billion). Within the framework of the plan, the European Council urges banks and financial institutions to make full use of the facilities granted to them to maintain and support lending to the economy and pass on key interest rate reductions to borrowers. Besides also particularly guarantee mechanisms, are actually applied so as to help lower the cost of financing for financial institutions, for the benefit of enterprises and households.

The plan also contains some specific measures which are of potential usefulness for the sector for renewable energies.

These measures include:

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- An increase in intervention by the European Investment Bank of EUR 30 billion in 2009/2010, especially for small and medium-sized enterprises, for renewable energy and the creation of the 2020 European Fund for Energy, Climate Change and Infrastructure ("Marguerite Fund") in partnership with national institutional investors;□
- A simplification of procedures and faster implementation of programmes financed by the Cohesion Fund, Structural Funds and the European Agricultural Fund for Rural Development with a view to strengthening investment in infrastructure and in energy efficiency;
- Mobilisation to promote employment in particular by the European Globalisation Adjustment Fund, Reduced VAT rates in certain sectors;
- Temporary exemption of two years beyond the de minimis threshold for State aid in respect of an amount of up to EUR 500 000 of aid and the adaptation of the framework, as required to increase support for enterprises, especially SMEs, and full implementation of the action plan for a Small Business Act adopted by the Council on 1 December 2008;
- 2009 and 2010 accelerated procedures in the public procurement directives, justified by the exceptional nature of the current economic situation, in order to reduce from 87 to 30 days the length of the tendering process for the most commonly-used procedures for major public projects;

The recovery plan contains € 5 billion new investment in energy and Internet broadband infrastructure in 2009-2010, in support of the EU recovery plan . This means for energy projects:

- A proposal for a Regulation to grant Community support to strategic energy projects:
- A total of € 3.5 billion for investment in carbon capture and storage (financial envelope: €1,250 million),
- Offshore wind projects (ca €500 million), and gas and electricity interconnection projects (€1,750 million; from that €705 million for Electricity interconnection).

The plan is very critical especially in view of the polluter pays principle, market balance and short term recovery quality.

In April 2009 the Parliament and Council reached an agreement upon compromise amendments on the European Energy Recovery Programme. The following elements concerning renewable energies are now replaced:

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- To have a tangible and substantial impact, this investment should be focussed on a few specific sector. The sectors of gas and electricity **interconnections**; offshore wind energy; and carbon capture and storage fulfil these criteria.
 - Replaced into: The investment concentrates on the sectors of gas and electricity **infrastructure**; offshore wind energy and carbon capture and storage. The choice of these sectors reflects the particular circumstances of the Recovery Plan and does not put into question the high priority attached to energy efficiency and the promotion of energy from renewable sources, which were addressed by the Recovery Plan presented by the Commission in November 2008. The Commission has declared its intention to propose, if appropriate, when reporting in 2010 on the implementation of this Regulation, measures allowing for the financing of projects consistent with the Recovery Plan, such as projects in the area of energy efficiency and energy from renewable sources, in case it would not be possible to commit all funds by the end of 2010.
- The Commission shall monitor the implementation of this Regulation. Each year, when it presents the preliminary draft budget, it shall present a report to the European Parliament and to the Council on the implementation of the Programme.
 - Has been complemented by: If the report identifies serious risks in implementing the priority projects, the Commission should recommend measures to offset those risks and make additional proposals for projects consistent with the Recovery Plan, if appropriate.

This European Energy Programme for Recovery is accompanied by a financing instrument hereinafter referred to as "the EEPR", for the development of projects in the field of energy in the Community that contribute **by providing a financial impulse** to economic recovery, the security of energy supply and the reduction of greenhouse gas emissions.

The programme identifies projects to be financed under each sub-programme and lays down criteria for identifying and implementing actions to realise these projects.

The financial envelope for the implementation of the EEPR for 2009 and 2010 shall be EUR 3,980 million, allocated as follows:

- (a) gas and electricity infrastructure projects: EUR 2,365 million;
- (b) offshore wind energy projects: EUR 565 million;
- (c) projects for carbon capture and storage: EUR 1,050 million.

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Individual legal commitments implementing the budgetary commitments made in 2009 and 2010 shall be made before 31 December 2010.

In its declaration, the Commission stated in this context: "The Commission underlines that energy efficiency and renewable energy sources are key priorities of EU energy policy, both for environmental and for security of supply reasons. In this respect, the Regulation will contribute to these priorities by giving substantial support to offshore wind projects. The Commission recalls in this context the various other new initiatives supporting energy efficiency and renewable energy sources, suggested by the Commission notably in its European Recovery Plan, which was endorsed by the European Council of December 2008. The Commission will also present before the end of November 2009 the revision of the energy efficiency action plan as demanded by Council and Parliament."

4. Quota versus minimum price systems

Since the last EREF price report two years ago the development of support mechanisms in Europe led overall further towards feed-in mechanisms (FiT) and to a decline of the so-called tradable green certificates (TGC) which became a "quantité négligeable" in the overall EU 27 framework.

The feed-in or minimum price systems guarantee fixed tariffs for the feed-in of green electricity into the grid. Moreover it sets a legal obligation for utilities and grid operators to buy electricity from producers who use renewable energy sources. Experiences from a number of countries in Europe suggest that Feed in Tariffs deliver larger and faster penetration of Renewables than TGC, at lower or comparable cost. Under the TGC a defined member of the national electricity supply chain, be it consumer, generator or supplier, has to present a fixed minimum quantity of certificates each year, as set by a public authority. The certificates originate per MWh of RE electricity generated. An obligated party thus may generate himself or purchase certificates on a certificate market. The obligated party may pass on the cost of certificates to the consumer. The target of RE under the TGC system is set by the government and the certificate price is determined by the market.

In FiT (Feed-In Tariff) systems the basic principle is that any national generator of renewable electricity (RES) can sell its electricity at a fixed tariff for a specified time period under specific conditions depending on location, technology etc. The price remains constant for the defined period but for new connections in following years a lower price level is offered. The main elements in FiT systems are often combined with priority grid access. The costs of FiT payments are in general passed on to the electricity consumers.

With TGC systems, a target for Renewable Energy penetration is set by public authorities seeking to minimise cost for achieving this target. The certificate price is set by the market.

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In a FiT system, public authorities set an effective price but are not limiting the quantity installed. This has led to impressive growth rates, particularly in Denmark, Germany, and Spain but increasingly in many other countries in the European Union. FiT systems are labelled the “venture capital investor’s best friend”, - “risk-minimizing market-pull policies such as feed-in tariffs for renewable energy over CO2 emissions trading and certificate trading systems”.⁶

The major supporter for TGC, United Kingdom, was the latest in a series of change towards FiT systems with its official release in summer 2009 of the new feed-in tariff policy with a dedicated British note:

The British new system will also introduce a tariff for Combined Heat & Power (CHP). Another feature of the proposed program is a specific tariff for small solar PV systems on new homes, and a separate tariff for existing homes.

The British FiT system is linked to an encouragement for home owners and small businesses to reduce their electricity consumption. For example, a solar PV generator will be paid for all their generation. They have access to a bonus, (currently at £0.05/kWh (\$0.08 USD/kWh, \$0.09 CAD/kWh), for electricity delivered to the grid over and above their domestic consumption. The more a homeowner can economise on domestic consumption, and by that deliver more electricity to the grid, they will receive the adequate bonus in addition to the feed-in tariff. The overall aim of the new British policy is to set tariffs at a level to encourage investment, albeit only in small scale renewable and efficiency systems.

The United Kingdom mechanism will have one of the highest tariffs for small wind energy in the world. The tariff proposed for small wind turbines from 1.5 kW to 15 kW is £0.23/kWh. The program is expected to begin in April of 2010. The main point of weakness of the program is its limitation under a cap of maximum 2 % of Supply or 8 TWh in 2020 and its restriction to projects below 5 MW. In comparison, Germany generated only in 2008 40 TWh from wind energy and more than 4 TWh from solar PV.

Nonetheless for the supporter of FiT mechanisms in Europe, this move in the United Kingdom is a crucial breakthrough and of principle importance. The main headlines of the United Kingdom’s programme are:

⁶ Source: Dr. Rolf Wüstenhagen, Vice Director , Institute for Economy and the Environment (IWÖ-HSG), University of St. Gallen, Marktchancen durch Innovation bei den erneuerbaren Energien, Juni 2007

- Program Cap: 2% of Supply, 8 TWh in 2020
- Project Cap: 5 MW
- Generator can be green field (doesn't have to be a metered customer)
- Contract Term: 20 years
- Program Review: 2013

Costs for the program will be borne by all British ratepayers proportionally.

But all support mechanisms need evaluation and review in a way not disturbing investment confidence or endangering market but on the contrary to steadily progress towards a situation where in junction with other policies such as internalisation of external costs, increased research on crucial issues such as grid and storage capabilities in relation to renewable energy and the new supply structure and regulatory control of pricing structures in the overall market renewable energy will phase out of support mechanisms.

Recently, Spain had trouble with the fine tuning of its established FiT premium system for PV in 2007/2008 which has resulted in difficulties in that sector. The negative effect underlines the obligation of fine-tuning, monitoring and regular cost digression push to be well established within the legislative structure.

In May 2007 a new Royal Decree 661/2007 was published in Spain, regulating the electricity production under the special scheme (renewable and combined heat and power – CHP) and establishing the methodology to update and systematize the legal and economic scheme of the electricity production activity under the special scheme.

This Decree includes renewable technologies and cogeneration (CHP). The decree set a reference objective for installed capacity per technology which was set for Solar PV at 371 MW by 2010.

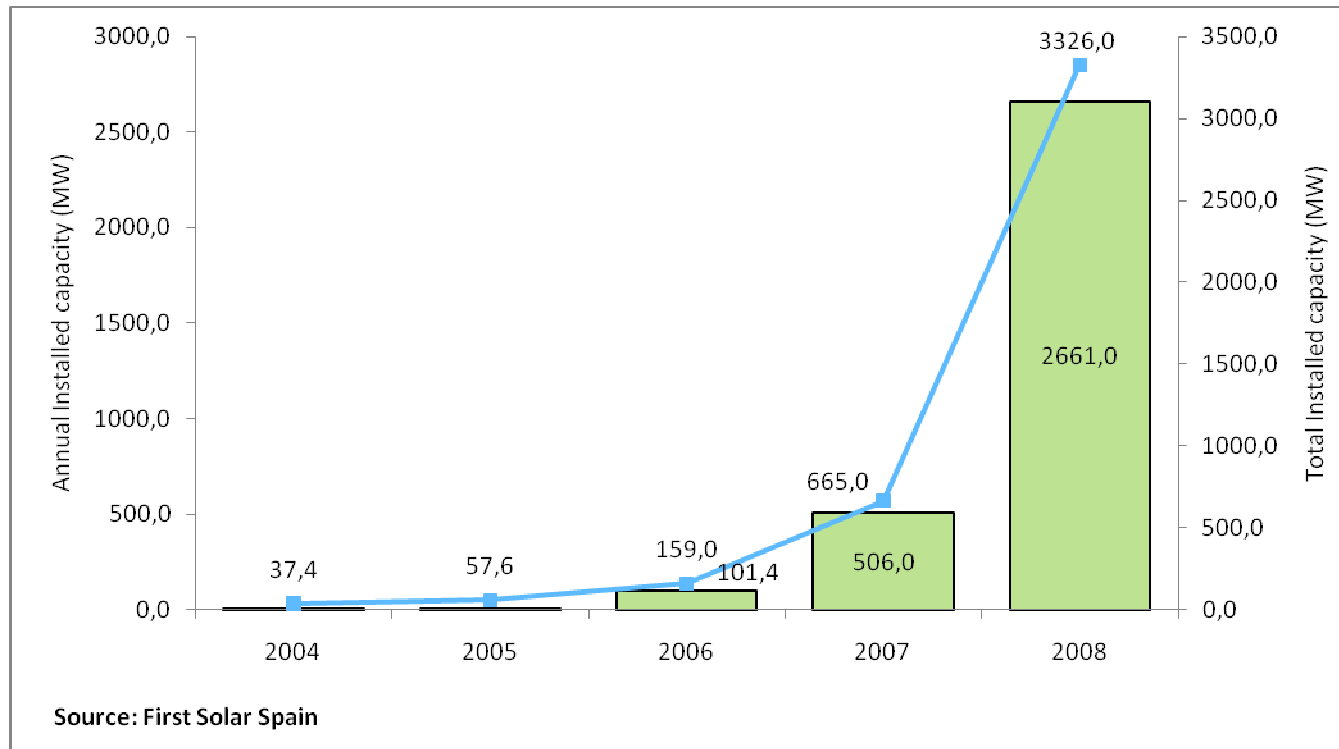
This reference value for PV was already achieved in the summer of 2007 by 85% (315MW) of the target capacity of solar PV by 2010. In reaction a maximum term of 12 months was established by resolution of the Secretary General of Energy during which only all the installations in operation and registered in the Administrative Register of production installations under the special scheme prior to the expiry date (Sept 2008) of the said term, were entitled to the feed-in-tariff. Reasons for the overheating in the Spanish market were a tariff design which was too close to the prices from countries in Northern Europe and did not consider well the higher rate

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of “solar return” in Spain. The new deadline set by the Secretary lead to a rush for project deployment, which was also pressed further by high amount of import form outside the EU of PV cells especially from China and made the Spanish Solar market end of 2008 becoming the largest in the world with a total with a total installed capacity of 2.661MW surpassing by far the 371MW target set by the Government for 2010.



The Spanish government balanced the system since in a more robust way: The new Royal Decree 1578/2008 from September 2008 includes a clearer digression of tariffs, applying the concept of technology learning. Rather than determining the future tariff structure beforehand (ex-ante regulation), the system regulates the tariffs according to the total capacity allotted every quarter. The tariff can be reduced up to 10% per year. It also sets a maximum capacity installed per year (quantity and price regulation). It is expected that once the “pipeline” of projects waiting for connection is guided on the market there will be new PV development from 2010 on.

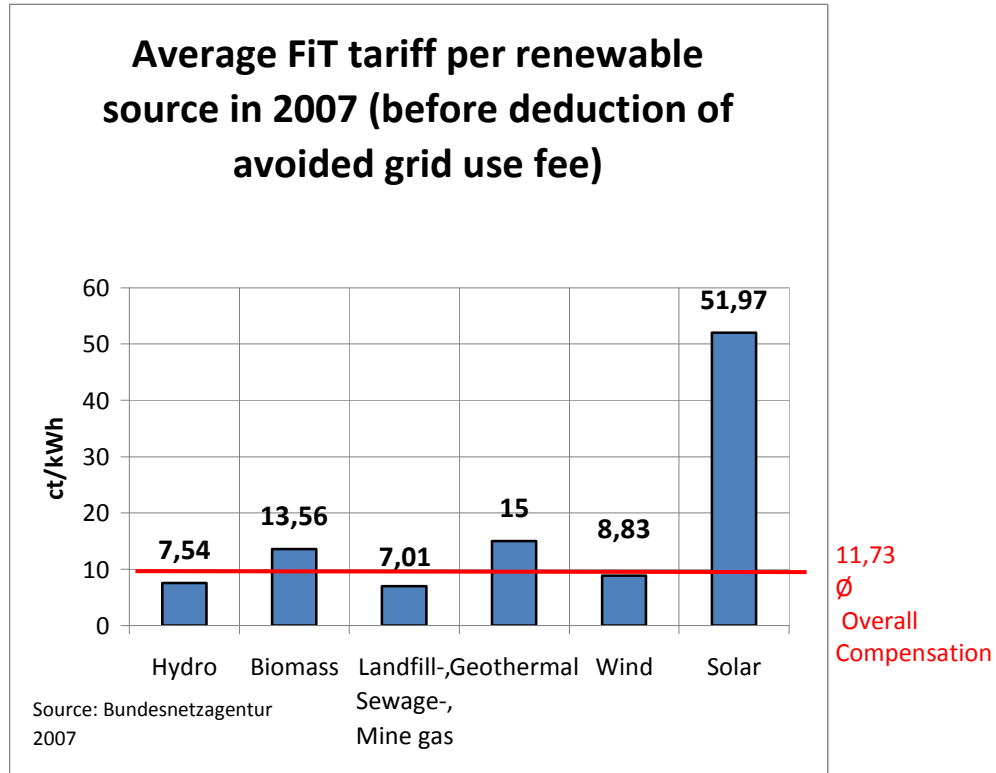
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In Germany, the National Grid Agency (Bundesnetzagentur) just published the recent statistics on the German FiT (EEG) development which again show a sound success model for renewable deployment.⁷ The figures are for 2007 and it needs to be seen to what extent the negative consequences of the current world economic crisis will slow down the development. Some highlights:

- 31.12.2007: total installed capacity of EEG installations in Germany reached 31.000 MW (Champion is the federal State of Lower Saxony with 6500 MW)
- Increase in capacity was 12 % lower than in previous year.
- Solar installations have a share of 13 % of the total installed capacity and had an increase of 40 % in comparison to 2006 (with a capacity of 1.100 MW of new installation)
- The average EEG tariff in 2007 was about 11.37 ct/kWh, and thus just 0.1 ct/kWh higher than in 2006 despite the strong increase in Solar PV installations.

⁷ EEG Statistikbericht (2009) <http://www.bundesnetzagentur.de/media/archive/17185.pdf>



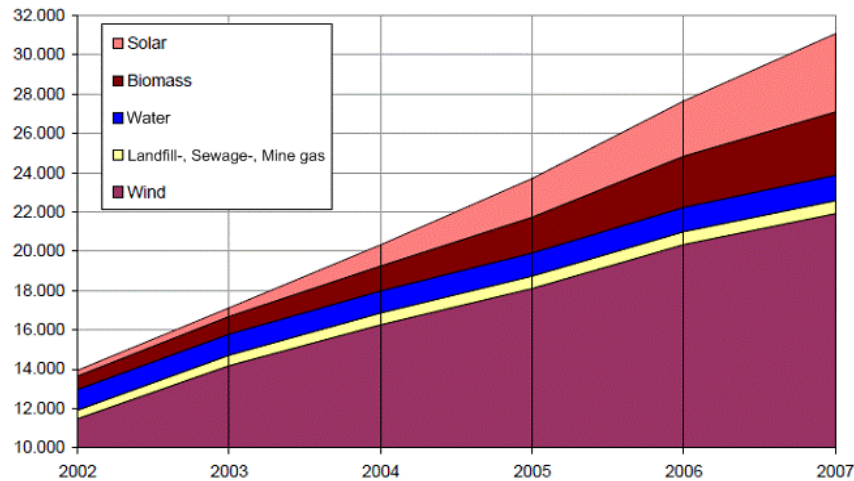
At present, especially PV Solar tariffs were again reduced with the latest EEG law amendment to 31,9 ct/kWh for free field and the tariff for small scale rooftop and noise barriers to 43,01 ct/kWh. Moreover it seems that current competition pressure and economic crises have a further push on the Renewable Technology industry, which leads to difficulties for parts of the industry but in effect to even higher than expected cost digression which will certainly be integrated into the next EEG tariff evaluation.

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The following graph shows the spread of technology increase in Germany in consequence to the FiT mechanism:



Graph: Development of installed capacity under the EEG mechanism, Source: Bundesnetzagentur 2009

5. A crucial time for renewable energy in the world – Irena and COP 15

IRENA: Not only in Europe but also at a global level, 2009 is a milestone for renewables. EREF applauds in this context the birth of IRENA, the International Renewable Energy Agency. IRENA was officially established in Bonn on 26 January 2009 and up to date 136 states are signatory to the agreement. After a long period of lobbying and preparation, the conference on the establishment of IRENA took place in Bonn on the joint initiative of the German, Spanish and Danish governments. In March 2009, a decisive meeting of signatory states in Sharm el Sheikh led to the success of Abu Dhabi and its town to-be-built Masdar to become the headquarters of IRENA. Masdar won against Vienna and Bonn as remaining candidates by astonishing and somewhat forceful campaigning from the Emirates in the run up to the Conference in Egypt. Mrs. Hélène Pelosse, Vice Director of the Cabinet of French Minister for the Sustainable Development and Environment Jean-Louis Borloo became Director General of IRENA. It was agreed that Bonn will be host of a specific Technology Centre and Vienna the centre for conferences for IRENA. IRENA aims to guide and coordinate renewable energy initiatives at a global level and is meant to become the main driving force in promoting a rapid transition towards the widespread and sustainable use of renewable energy on a global scale. As the global voice for renewable energies, IRENA envisages providing practical advice and

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support for as well developing as industrialised countries. Moreover, the Agency aims at facilitating access to relevant information, including reliable data on the potentials for renewable energy, best practices, effective financial mechanisms and state-of-the-art technologies expertise.⁸

It is stated in the statutes of the International Renewable Energy Agency that its objectives are *'the promotion of the widespread and increased adoption of the sustainable use of all forms of renewable energy'*. Therefore the Agency shall *'analyse and monitor developments within the field of renewable energy, provide assistance, improve technology transfer and initiate dialogue to the benefit of its Member States'*. Furthermore the Agency shall *'disseminate information and increase public awareness on the benefits and potential offered by renewable energy'*.

For EREF, the establishment of IRENA is a very important initiative within the context of renewable energy issues which should be supported with all strength of the renewable sector, despite the difficult start. IRENA is an expression of the common commitment of many countries and organisations towards international cooperation within the renewable energy field. It is an important global answer to a global concern. It is absolutely necessary that the renewable industry and the producers of energy from renewable sources in general commit to support IRENA to become a strong and independent advocate for their cause and to rapidly find its place and recognition in the world of energy and international agencies and other institutions as independent driving force for renewables on the global level.

COP 15: In December 2009 the world will look to Copenhagen. The ambition of the Danish government is that the Conference of the Parties to the Kyoto agreement (COP15) in Copenhagen will result in an ambitious new global agreement. Almost 200 countries will negotiate a new Climate deal, replacing the Kyoto Protocol of 97 on GHG emission reduction

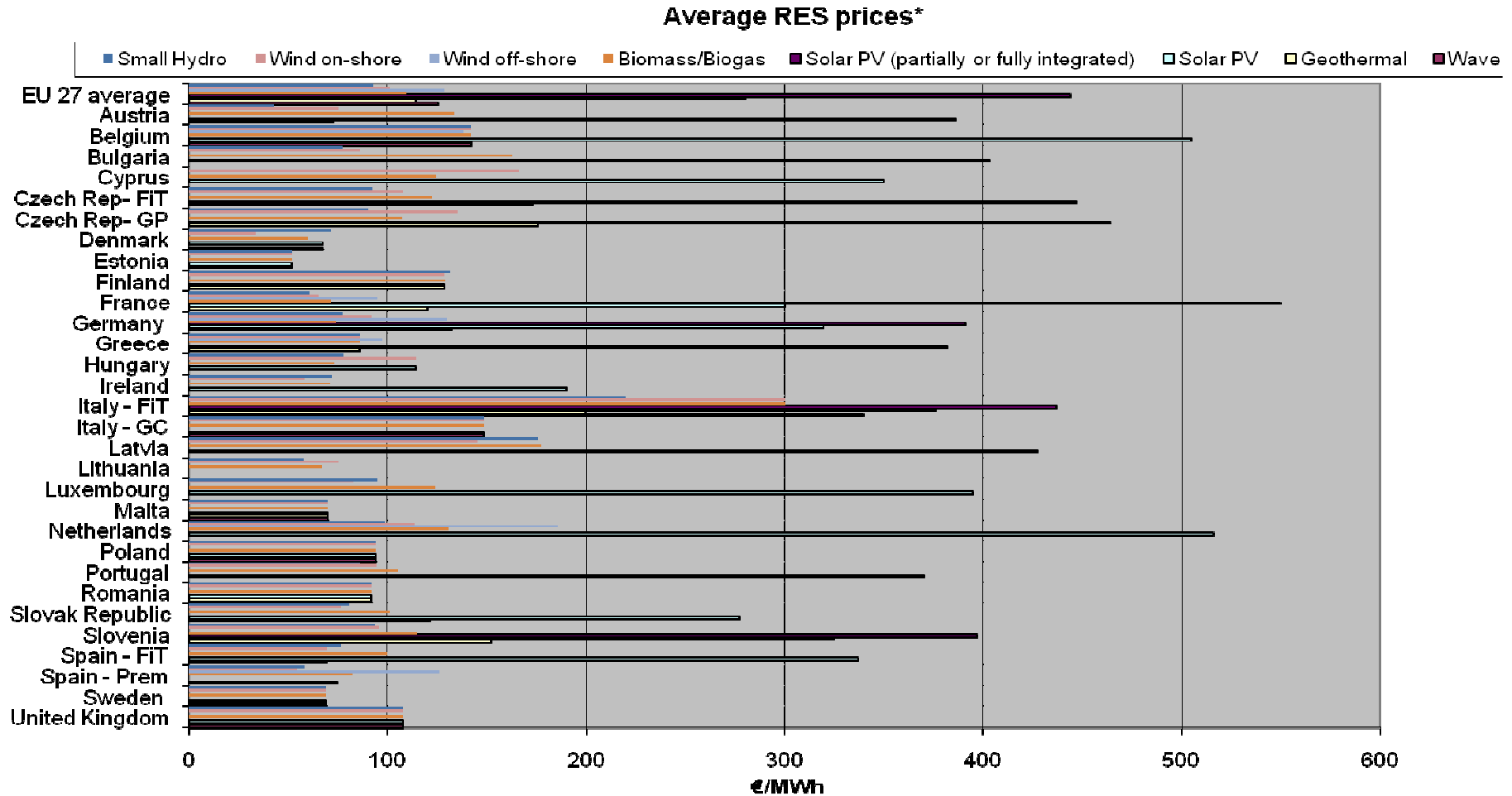
Kyoto entered into force only in 2005 (when Russia ratified). It took eight years to make Kyoto happen, where final treaty details were only finished and agreed in 2001. It seems that Copenhagen won't end with a full and legally binding agreement either. It would be already a good progress if some basic agreements in principle would come forward and a dedicated push on technologies and better commitments on targets. The Renewable Sector needs to use this occasion to further include its success story and delivery capability as climate healer into the mindset of the negotiators and the media.

Doerte Fouquet

Brussels, September 2009

⁸ see the official website of IRENA: www.irena.org

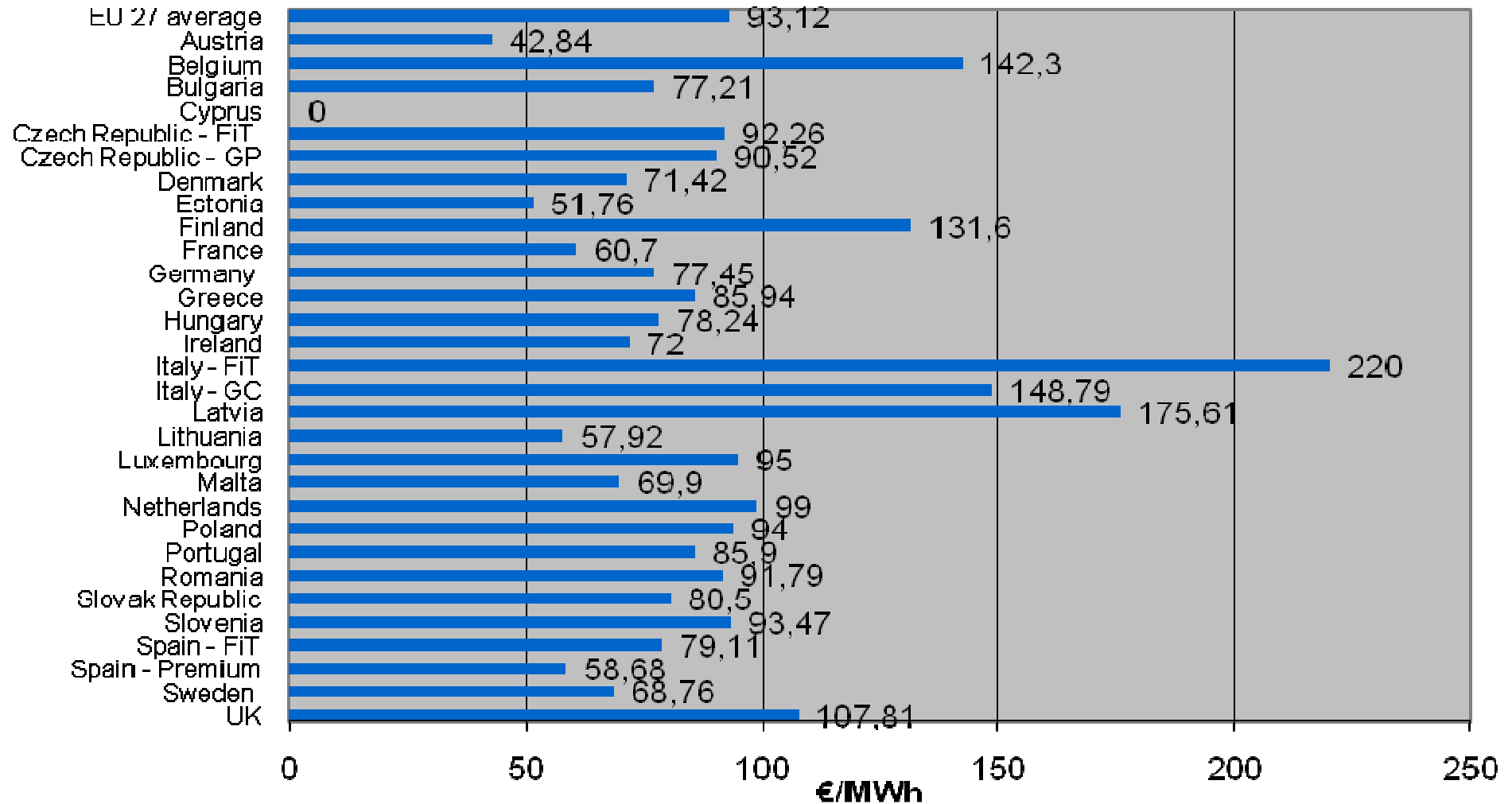
II. Prices for Renewable Energies in the EU Member States – Graphics



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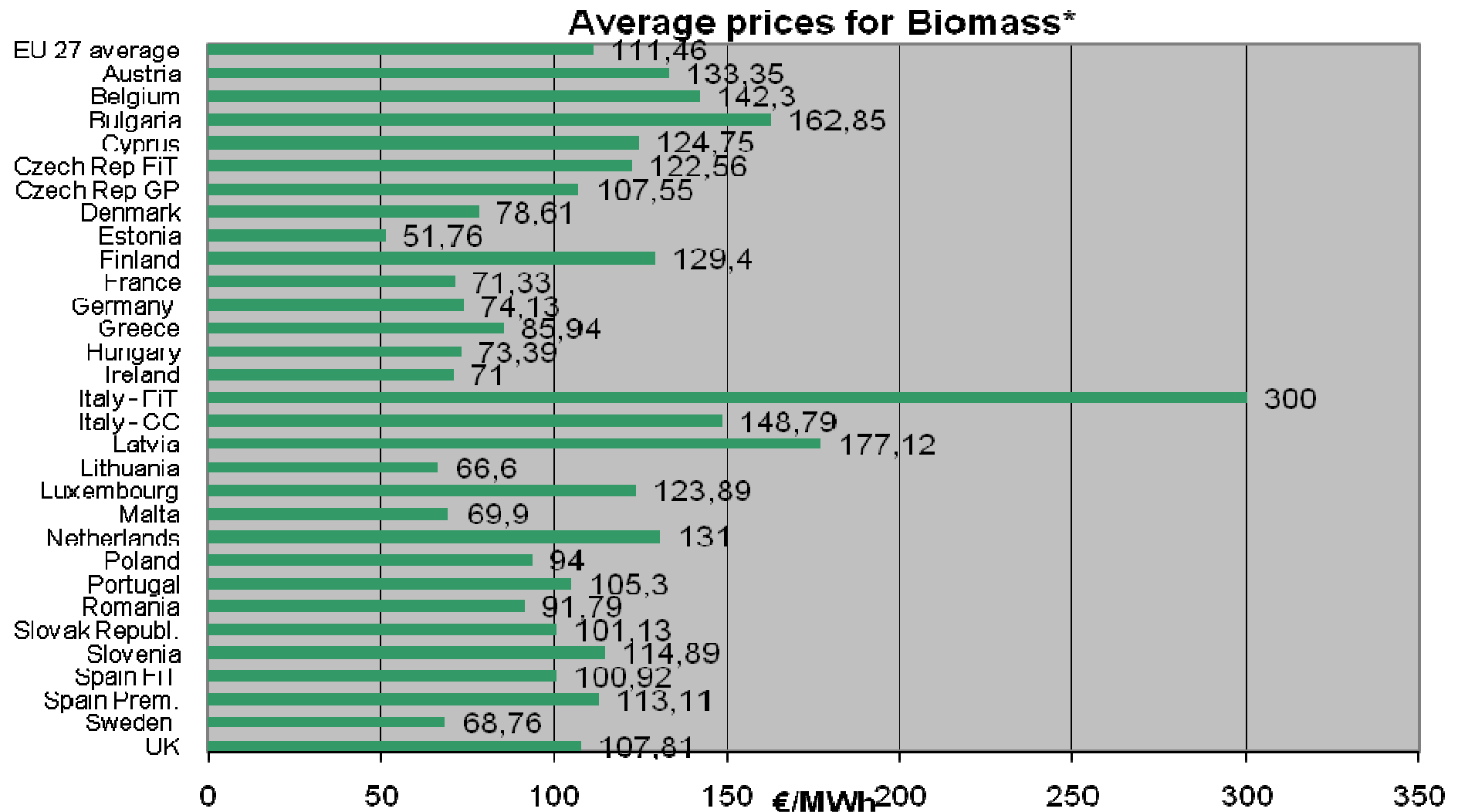
Average prices for Small Hydro*



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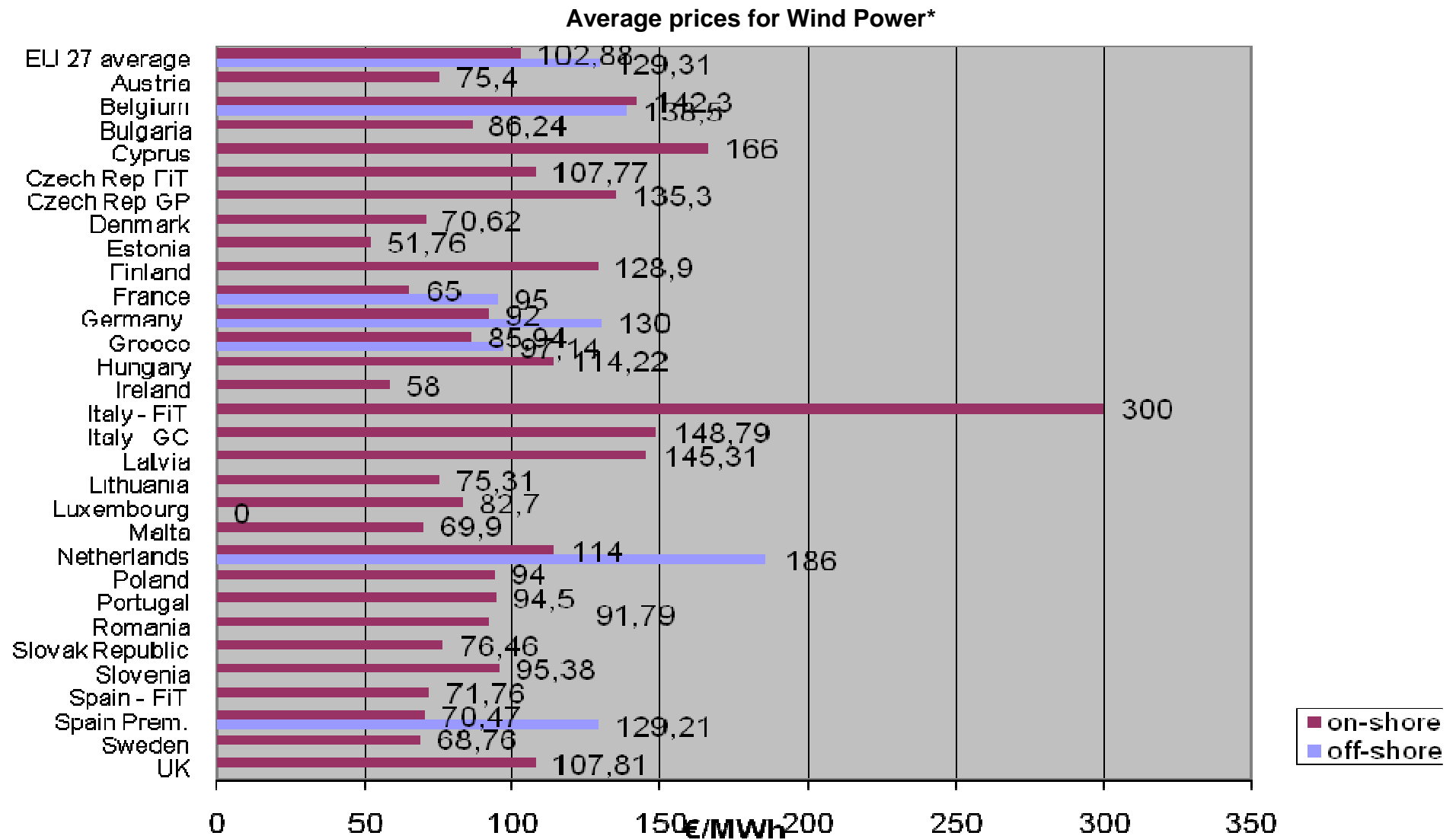
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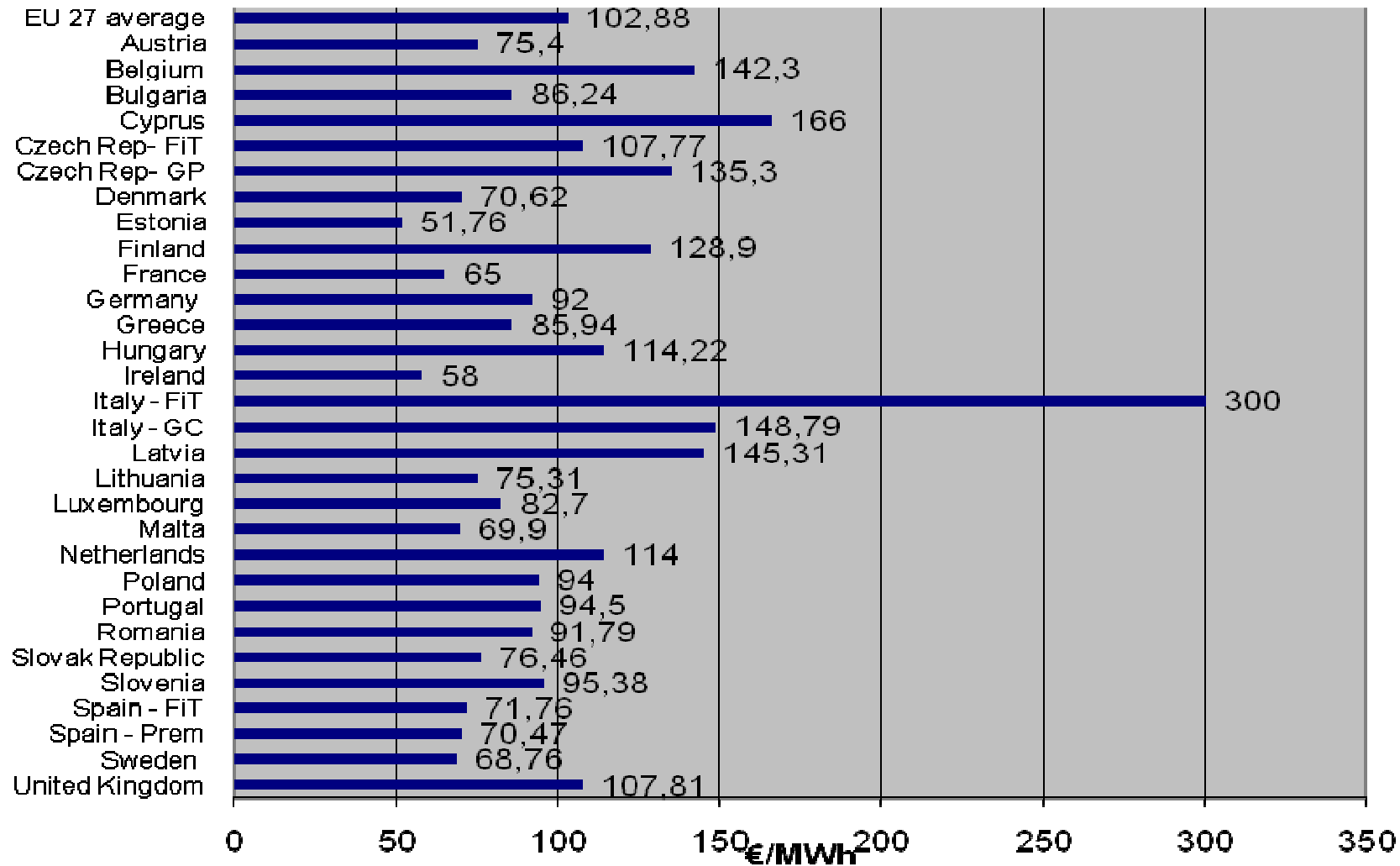


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Average prices for Wind Power on-shore*

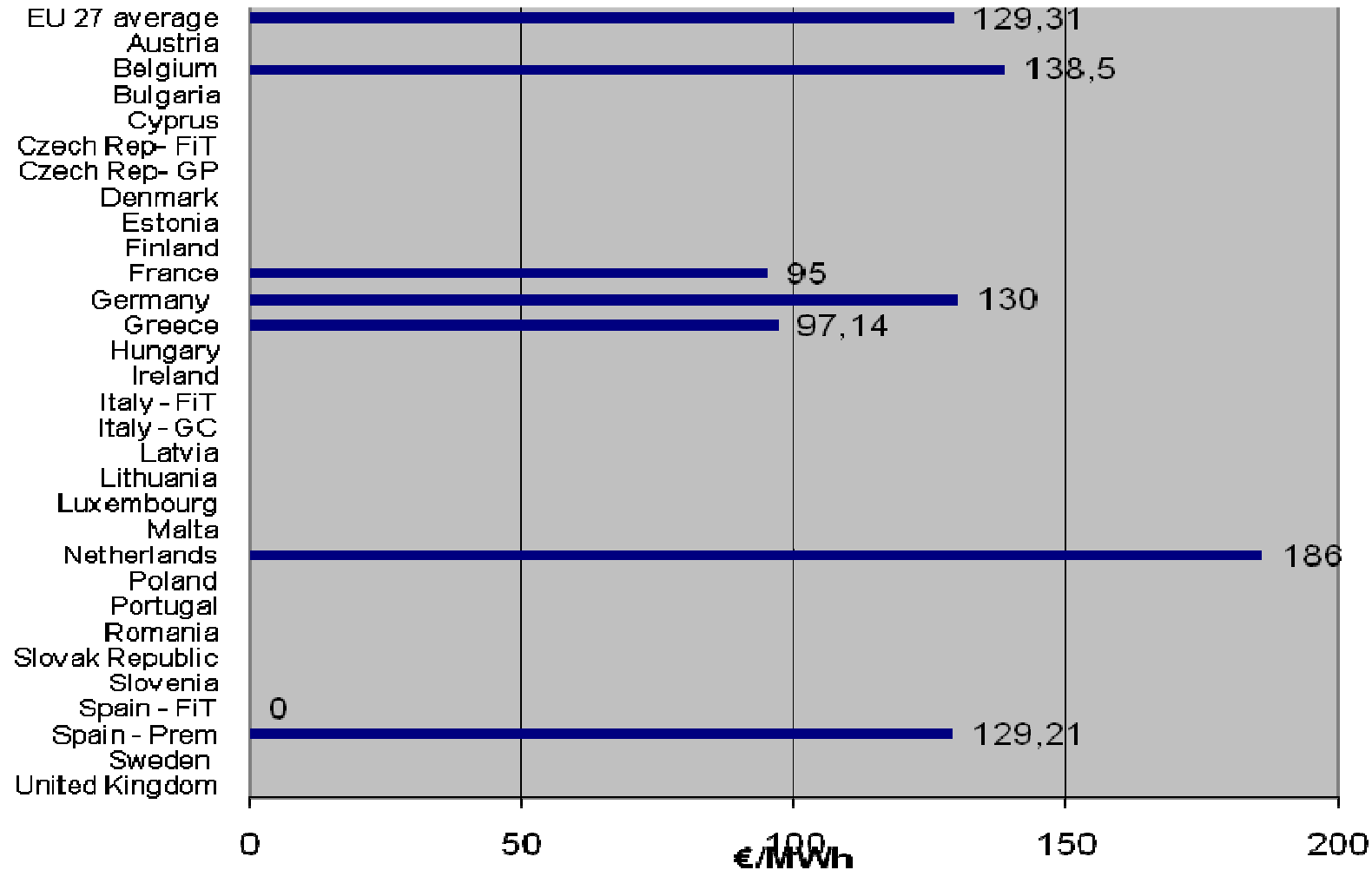


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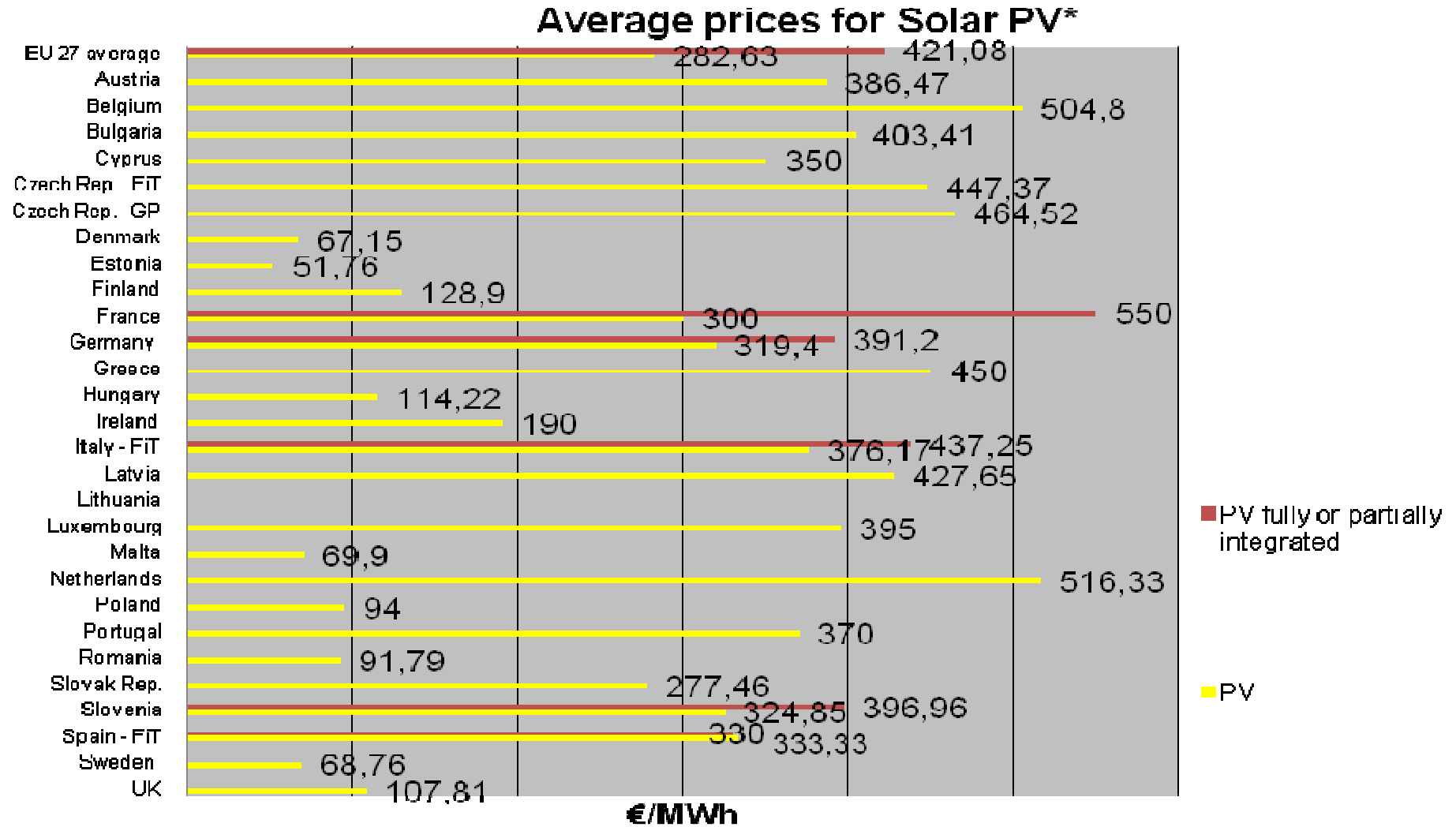
Average prices for Wind Power off-shore*



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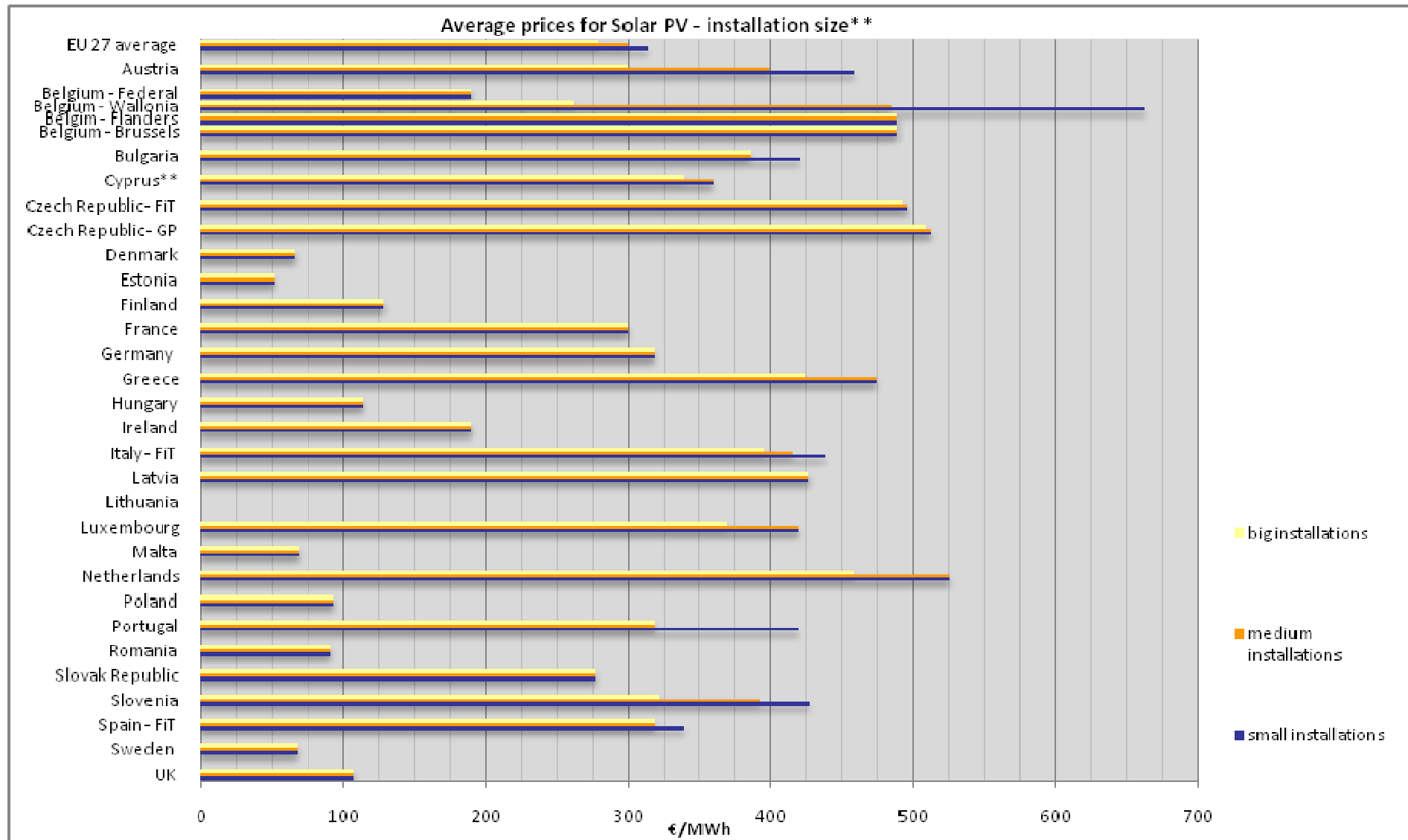
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(With reference to Countries providing for a distinction between PV integrated in buildings and PV not integrated in buildings, the figures under PV refer to free field - not integrated installations)

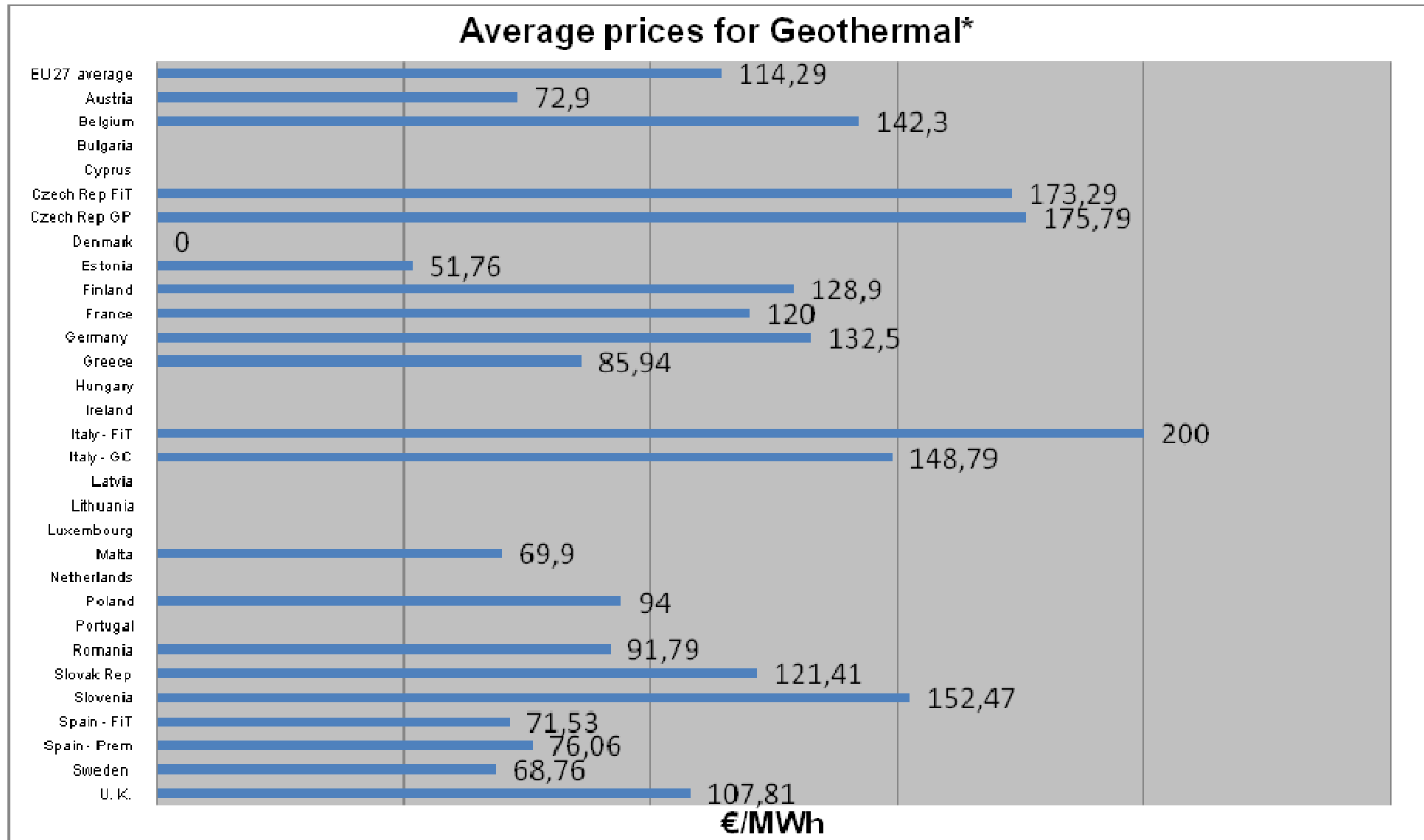
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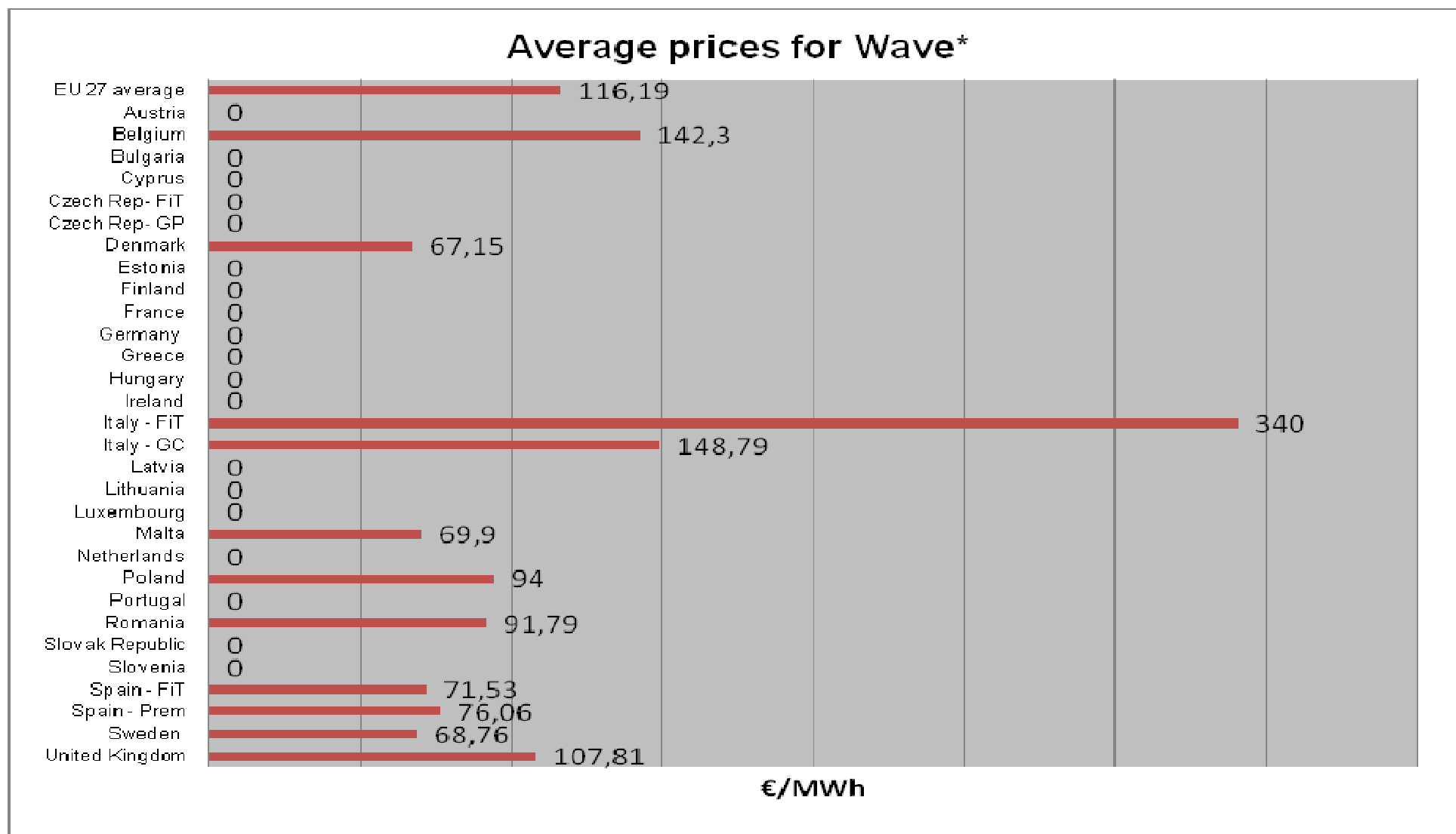
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*Remarks

With reference to Member States having Green Certificates (GC) or Green Premiums (GP) as support scheme, the price mentioned in the graphs refer to the total price resulting from the GC/GP price + electricity market price.

Austria:

- Hydro: average price for both plants put into service before 31/12/2005 and plants put into service after 31/12/2005.
- Biomass/Biogas: average price for solid biomass, liquid biomass and biogas. Price for landfill/sewage gas and other liquids have not been taken into consideration

Belgium:

- Average price of Wallonia, Flanders and Brussels-Capital + electricity market price (40 €/MWh)
- Wind offshore: taken into consideration the federal support scheme

Czech Republic:

- Average Green Premiums prices + average electricity market price for the first semester 2009 (54,87 €/MWh)

Denmark:

- Wind: price for 22.000 full load hours for turbines connected to the grid after February 2008
- Biomass: average price relating to biomass and biogas plants connected to the grid after February 2008
- PV Average price of units connected to the grid after February 2008

Finland:

- Average market price for electricity 2008 + subsidies through energy taxation system

France:

- Price for overseas department has not been taken into consideration
- Hydro: price refers to (new) installations under decree 1/03/2007. Variable bonus for small installations or winter production are not included
- Wind: average price for (new) installations under decree 17/11/2008
- Biomass: average price from biogas plants under decree 10/07/2006 and vegetable biomass; price relating to animal residues has not been taken into consideration
- PV: average price for units under decree 10/07/2006
- Geothermal: price for (new) installations under decree 10/07/2006

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Germany:

- Average prices under renewable energies act 2009
- Hydro: average price relating to new plants up to 5 MW, refurbished plants up to 5 MW and renewed plants above 5 MW
- Wind off-shore and on-shore: initial tariff which will decrease after 5 years

Greece:

- PV: average price for the period 2009-2014

Italy:

- The price for other biogases not coming from agriculture, cattle breeding and forestry has not been included
- Average GC price for the first semester 2009 (82,43 €/MWh) + average electricity price for the first semester 2009 (66,36 €/MWh)

Latvia:

- Average prices from the minimum and maximum prices provided by the relevant regulation

Poland:

- Average GC price for the month of June 2009 (57 €/MWh) + average electricity price for June 2009 (37 €/MWh)

Romania:

- Average GC price for the month of June 2009 (55 €/MWh) + average electricity price for June 2009 (37 €/MWh)

The Netherlands:

- Average price of "base tariffs"
- Prices for biogas (set in €/Nm³ expressed) have not been included. Prices for bio-electricity from waste and water-cleaning installations have not been taken into consideration

Spain:

- Taken into consideration only prices for 2009
- Concentrating Solar Power (CSP) figures have not been included as graphics make specific reference to PV
- The price relating to Green Premium includes the average electricity price for the period January-July 2009 (39,20 €/MWh)

United Kingdom:

- Average GC price for the period January/July 2009 (60,99 €/MWh) + average electricity price for period January/July 2009 (46,82 €/MWh)

** The division among small, medium and big installations is indicative, due to the different reference value applied in different Member States

Czech Republic: taken into consideration only prices for units commissioned after 01/01/2009

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III. Prices for Renewable Energies in the EU Member States

1. Austria

	<i>Hydro</i>		<i>Wind</i>
Price	Plant authorisation between 1/01/2003 and 31/12/2004, put into service before 31/12/2005: 1 st GWh: 56.8 €/MWh the next 4 GWh: 43.6 €/MWh the next 10 GWh: 36.3 €/MWh the next 10 GWh: 32.8 €/MWh > 25 GWh: 31.5 €/MWh New plant or increase of plant capacity of min. 15 % by modernisation until 31/12/2008 1 st GWh: 59.6 €/MWh the next 4 GWh: 45.7 €/MWh the next 10 GWh: 38.0 €/MWh the next 10 GWh: 34.3 €/MWh > 25 GWh: 33.0 €/MWh		75.4 €/MWh
Support scheme	Feed-in tariffs		
Current applicable law	Ökostromgesetz (Green Electricity Act) 2002 (latest amendment in 2008), Ökostromverordnung (Green Electricity Decree) 2008		
Particularities	The tariff is paid for 15 years as from the commissioning of the particular plant.	The tariff is paid for 10 years as from the commissioning of the particular plant.	

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	<i>Biomass/Biogas</i>	<i>Photovoltaic</i>	<i>Other</i>	
Price	<p><u>Solid Biomass:</u> - up to a maximum capacity of 2 MW: 156.4 €/MWh - above 2 MW up to 5 MW: 149.4 €/MWh - above 5 MW up to 10 MW: 132.9 €/MWh - above 10 MW: 110.9 €/MWh</p> <p><u>Biogas:</u> - up to a maximum capacity of 100 kW: 169.4 €/MWh - above 100 kW up to 250 kW: 151.4 €/MWh - above 250 kW up to 500 kW: 139.9 €/MWh - above 500 kW up to 1 MW: 123.9 €/MWh - above 1 MW: 112.9 €/MWh</p>	<p><u>Liquid Biomass:</u> - up to a maximum capacity of 300 kW: 124.9 €/MWh - above 300kW: 94.9 €/MWh</p> <p><u>Landfill and Sewage gas:</u> - landfill gas: 59.4 €/MWh - sewage gas: 40.4 €/MWh</p> <p><u>Other Liquids</u> 59.90 €/MWh</p>	<p>up to 5 kWpeak: 459.8 €/MWh</p> <p>5 kW up to 10 kWpeak: 399.8 €/MWh</p> <p>above 10 kWpeak: 299.8 €/MWh</p>	<p>Geothermal: 72.9 €/MWh</p>
Support scheme	Feed-in tariffs			
Current				

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<i>applicable law</i>	Ökostromgesetz (Green Electricity Act) 2002 (latest amendment in 2008), Ökostromverordnung (Green Electricity Decree) 2008
<i>Particularities</i>	<p>The tariff is paid for 10 years as from the commissioning of the particular plant. In the 11th year you get 75% of the tariff. In the 12th year you get 50% of the tariff.</p> <p>With reference to small PV (< 5kWp) an investment incentive is expected for July 2009.</p>

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2. Belgium

I - OFFSHORE - Federal Support Scheme (this is the guaranteed price for green certificates, applicable only to offshore plants)

	<i>Hydro</i>	<i>Wind</i>	<i>Biomass/Biogas</i>	<i>Photovoltaic</i>	<i>Other</i>
Price	50 €/MWh	- up to 216 MW: 107 €/MWh - 216 MW and above: 90 €/MWh - onshore Wind: 50 €/MWh	20 €/MWh	150 €/MWh	-
Support scheme	Green Certificates (to be added to electricity price)				
Current applicable law	Federal level Law on the Organisation of the Electricity Market 1999 (last modified 1/06/2005); Royal Decree establishing a technical regulation of the electricity grid and its access (27/06/ 2001); Royal Decree on the establishment of mechanisms supporting the production of electricity from renewable energy sources (16/07/2002), last modified on 5/10/2005.				
Particularities	Total price: GC price + electricity market price For 2008 the quota obligation for green electricity was 8% of total electricity supplies.				

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	The State guarantees a minimum price for green certificates in case the market price is too low. Average estimated electricity price: 40 €/MWh
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II – Wallonia

	<i>Hydro</i>	<i>Wind</i>	<i>Biomass/Biogas</i>	<i>Photovoltaic</i>	<i>Other</i>
Price*	89 €/MWh	89 €/MWh	89 €/MWh	<5kWp: 7 x 89 6kWp-10kWp: 5 X 89 11-250kWp: 4 x 89 > 250 kWp: 1 X 89 or 150 (minimum guaranteed federal price)	89 €/MWh
Support scheme	Green Certificates (to be added to electricity price)				
Current applicable law	<u>Wallonia:</u> Decree of the Walloon Government of 12 April 2001 on the organization of the regional electricity market, last modified on 17 July 2008				
Particularities	* Average known transaction price on the regional Walloon market for the first 3 trimesters of 2008 Total price: GC price + electricity market price For 2008 the quota obligation for green electricity was 8% of total electricity supplies. The State guarantees a minimum price for green certificates in case the market price is too low. Average estimated electricity price: 40 €/MWh				

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III - Flanders

	<i>Hydro</i>	<i>Wind</i>	<i>Biomass/Biogas</i>	<i>Photovoltaic</i>	<i>Other</i>
Price*	108/110 €/MWh	108/110 €/MWh	108/110 €/MWh	450 €/MWh	108/110 €/MWh
Support scheme	Green Certificates (to be added to electricity price)				
Current applicable law	<u>Flanders:</u> Decree of the Flemish Government on Electricity (17/07/2000) as modified by the Decree of 7/05/2004 regarding the promotion of electricity from RES.				
Particularities	* Average known transaction price on the regional Flemish market (estimate) Total price: GC price + electricity market price For 2008 the quota obligation for green electricity was 8% of total electricity supplies. The State guarantees a minimum price for green certificates in case the market price is too low. Average estimated electricity price: 40 €/MWh				

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IV. Brussels

	<i>Hydro</i>	<i>Wind</i>	<i>Biomass/Biogas</i>	<i>Photovoltaic</i>	<i>Other</i>
Price	108-110 €/MWh	108-110 €/MWh	108-110 €/MWh	450 €/MWh	108-110 €/MWh
Support scheme	Green Certificates (to be added to electricity price)				
Current applicable law	<u>Brussels-Capital:</u> Order concerning the organisation of the electricity market in the Brussels-Capital region 19/07/2001, last modified 19/12/2008; Order of the Government of the Brussels-Capital Region 6/05/2004, and ministerial decree 12/10/2004.				
Particularities	Total price: GC price + electricity market price For 2008 the quota obligation for green electricity was 8% of total electricity supplies. The State guarantees a minimum price for green certificates in case the market price is too low. Average estimated electricity price: 40 €/MWh				

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3. Bulgaria

	<i>Hydro</i>	<i>Wind</i>
Price*	53,69 -> plants less than 10 MW 76,18 -> low head hydro power plants less than 5 MW 101,75 -> small hydro power plants "run of the river" less than 5 MW	(new installations) 96,63 -> with less than 2.250 effective working hours and installed capacity of/greater than 800 kW 87,94 -> with less than 2.250 effective working hours and installed capacity of/greater than 800 kW 74,14 -> with installed capacity under 800 kW
Support scheme	Feed-in tariffs	
Current applicable law	Energy Act 2003, as amended Energy Efficiency Act 2004, as amended Renewable and Alternative Energy Sources and Biofuels Act 2007, as amended Ordinance of the State Energy and Water Regulatory Commission, issuing new feed in tariffs (as from April 2009)	
Particularities	* VAT not included – 1 EUR = 1,956 BGN Prices in force as from April 2009	

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	<i>Biomass</i>	<i>Photovoltaic</i>	<i>Other</i>
Price*	<u>Plants with installed capacity less than 5 MW:</u> 110,95 -> Wood residues 84,87 -> Agricultural residues 95,61 -> Energy crops <u>Indirect use of biomass from vegetables and animals substances:</u> 101,18 -> with installed capacity till 150 kW 92,85 -> with installed capacity from 150 kW to 500 kW 84,52 -> with installed capacity from 500 kW to 5 MW	420,79 -> with installed capacity less than 5 kWp 386,03 -> with installed capacity more than 5 kWp	
Support scheme	Feed-in tariffs		
Current applicable law	Energy Act 2003, as amended Energy Efficiency Act 2004, as amended Renewable and Alternative Energy Sources and Biofuels Act 2007, as amended Ordinance of the State Energy and Water Regulatory Commission, issuing new feed in tariffs (as from April 2009)		
Particularities	* VAT not included – 1 EUR = 1,956 BGN Prices in force as from April 2009		

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4. Cyprus

	<i>Hydro</i>	<i>Wind</i>	<i>Biomass/Biogas</i>	<i>Photovoltaic</i>
Price	n.a.	166 €/MWh (reduction of 5 €/MWh every 4 years)	Biomass: 135 €/MWh Biogas: 114,50 €/MWh	PV (21-150 kW): 340 €/MWh PV (up to 20 kW): 360 €/MWh Concentrating Solar Systems: 260 €/MWh
Support scheme	Feed-in tariffs (+ subsidies)			
Current applicable law	Law N33(I)/2003, of 18/04/2003, on the promotion of the use of RES and Energy Conservation investments, as amended			
Particularities	Feed in Tariffs valid for 20 years Grant subsidy: 15-55% of the capital investment			

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5. Czech Republic

	Hydro	
	Purchase prices of electricity supplied to the network**	Green premiums**
Price*	<p><u>Small hydroelectric power stations, up to 10 MW</u> commissioned on new sites as of 1/12/2008: 104,42 €/MWh (2.700 CZK/MWh)</p> <p>commissioned on new sites between 1/01/2006 and 31/12/2007 98,23 €/MWh (2.540 CZK/MWh)</p> <p>new plants commissioned after 1/01/2005 and refurbished plants: 88,95 €/MWh (2.300 CZK/MWh)</p> <p>commissioned before 1/01/2005: 69,22 €/MWh (1.790 CZK/MWh)</p> <p><u>Double-rate bands for particular small hydro power stations***, up to 10 MW</u></p> <p>commissioned on new sites as of 1/01/2008: 116,33 €/MWh (3.800 CZK/MWh) - high tariff band 83,15 €/MWh (2.150 CZK/MWh) - low tariff band</p> <p>commissioned on new sites between 1/01/2006 and 31/12/2007: 116,33 €/MWh (3.800 CZK/MWh) - high tariff band</p>	<p><u>Small hydroelectric power stations, up to 10 MW</u> commissioned on new sites as of 1/01/2008: 48,73 €/MWh (1,260 CZK/MWh)</p> <p>commissioned on new sites between 1/01/2006 and 31/12/2007: 42,54 €/MWh (1.100 CZK/MWh)</p> <p>new plants commissioned after 1/01/2005 and refurbished plants: 33,26 €/MWh (860 CZK/MWh)</p> <p>commissioned before 1/01/2005: 15,53 €/MWh (350 CZK/MWh)</p> <p><u>Double-rate bands for particular small hydro power stations***, up to 10 MW</u></p> <p>commissioned on new sites as of 1/01/2008: 65,744 €/MWh (1.700 CZK/MWh) - high tariff band 34,42 €/MWh (890 CZK/MWh) - low tariff band</p> <p>commissioned on new sites between 1/01/2006 and 31/12/2007: 65,744 €/MWh (1.700 CZK/MWh) - high tariff band</p>

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	<p>73,86 €/MWh (1.910 CZK/MWh) - low tariff band</p> <p>new plants commissioned after 1/01/2005 and refurbished plants: 134,20 €/MWh (3.470 CZK/MWh) - high tariff band 66,32 €/MWh (1.715 CZK/MWh) - low tariff band</p> <p>commissioned before 1/01/2005: 104,42 €/MWh (2700 CZK/MWh) - high tariff band 51,63 €/MWh (1.335 CZK/MWh) - low tariff band</p>	<p>25,14 €/MWh (650 CZK/MWh) - low tariff band</p> <p>new plants commissioned after 1/01/2005 and refurbished plants: 52,98 €/MWh (1370 CZK/MWh) - high tariff band 17,60 €/MWh (455 CZK/MWh) - low tariff band</p> <p>commissioned before 1/01/2005: 23,23 €/MWh (600 CZK/MWh) - high tariff band 2,90 €/MWh (75 CZK/MWh) - low tariff band</p>
Support scheme	Feed-in tariffs or Green Premiums	
Current applicable law	Law no. 180/2005 on the Promotion of Electricity Production from Renewable Energy Sources, into force as from 1 August 2005 The Energy Regulatory Office's Price Decision No. 8/2008 of 18 November 2008, Laying down support for electricity generation from renewable energy sources, combined heat & power, and secondary energy sources.	
Particularities	<p>* Prices do not include VAT – exchange rate 1 CZK = 0,0387 EUR</p> <p>** The new RES Act, adopted in 2005, extended the feed-in system by offering a choice between a feed-in tariff (a guaranteed price) or a “green premium” (an amount paid on top of the market price).</p> <p>*** For electricity purchase prices or green premiums double-rate bands may be set for metering and billing electricity supplies from a peak-shaving or partly peak-shaving small storage hydroelectric power station, whose peak-shaving or partly peak-shaving operation is set out in its water disposal authorisation.</p> <p>Electricity market price for the first semester 2009: 54,87 €/MWh (future markets).</p>	

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<i>Wind</i>		
	Purchase prices of electricity supplied to the network**	Green premiums**
Price*	Plants commissioned after 1/01/2009 -> 90,11 €/MWh (2.340 CZK/MWh) between 1/01/2008 and 31/12/2008 -> 98,20 €/MWh (2.550 CZK/MWh) between 1/01/2007 and 31/12/2007 -> 100,90 €/MWh (2.620 CZK/MWh) between 1/01/2006 and 31/12/2006 -> 102,82 €/MWh (2.670 CZK/MWh) between 1/01/2005 and 31/12/2005 -> 112,83 €/MWh (2.930 CZK/MWh) between 1/01/2004 and 31/12/2004 -> 118,22 €/MWh (3.070 CZK/MWh) before 1 January 2004 -> 131,32 €/MWh (3.410 CZK/MWh)	Plants commissioned after 1/01/2009 -> 62,77 €/MWh (1.630 CZK/MWh) between 1/01/2008 and 31/12/2008 -> 70,86 €/MWh (1.840 CZK/MWh) between 1/01/2007 and 31/12/2007 -> 73,55 €/MWh (1.910 CZK/MWh) between 1/01/2006 and 31/12/2006 -> 75,48 €/MWh (1.960 CZK/MWh) between 1/01/ 2005 and 31/12/2005 -> 85,49 €/MWh (2.220 CZK/MWh) between 1/01/2004 and 31/12/2004 -> 90,88 €/MWh (2.360 CZK/MWh) before 1/01/2004 -> 103,98 €/MWh (2.700 CZK/MWh)
Support scheme	Feed-in tariffs or Green Premiums	
Current applicable law	Law no. 180/2005 on the Promotion of Electricity Production from Renewable Energy Sources, into force as from 1 August 2005 The Energy Regulatory Office's Price Decision No. 8/2008 of 18 November 2008, Laying down support for electricity generation from renewable energy sources, combined heat & power, and secondary energy sources.	
Particularities	* Prices do not include VAT – exchange rate 1 CZK = 0,0387 EUR ** The new RES Act, adopted in 2005, extended the feed-in system by offering a choice between a feed-in tariff (a guaranteed price) or a “green premium” (an amount paid on top of the market price).	

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	<p>*** For electricity purchase prices or green premiums double-rate bands may be set for metering and billing electricity supplies from a peak-shaving or partly peak-shaving small storage hydroelectric power station, whose peak-shaving or partly peak-shaving operation is set out in its water disposal authorisation.</p> <p>Electricity market price for the first semester 2009: 54,87 €/MWh (future markets).</p>
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Biomass/Biogas		
	Purchase prices of electricity supplied to the network**	Green premiums**
Price*	<p style="text-align: center;"><u>Biomass</u></p> <p><u>Firing O1-O3 category biomass only, as of 1/01/2008</u> O1 category biomass -> 173,64 €/MWh (4.490 CZK/MWh) O2 category biomass -> 133,81 €/MWh (3.460 CZK/MWh) O3 category biomass -> 99,39 €/MWh (2.570 CZK/MWh)</p> <p><u>Firing O1-3 category biomass only, before 1/01/2008</u> O1 category biomass -> 147,73 €/MWh (3.820 CZK/MWh) O2 category biomass -> 121,05 €/MWh (3.130 CZK/MWh) O3 category biomass -> 95,91 €/MWh (2.480 CZK/MWh)</p> <p><u>Co-firing category S1-S3 biomass fuel mixtures and fossil fuels</u> Category S1 biomass -> n.a. Category S2 biomass -> n.a. Category S3 biomass -> n.a.</p> <p><u>Parallel firing P1-P3 category biomass and fossil fuels</u> P1 category biomass -> n.a. P2 category biomass -> n.a. P3 category biomass -> n.a.</p> <p style="text-align: center;"><u>Biogas</u></p> <p><u>Plants firing biogas</u> AF1 category -> 159,33 €/MWh (4.120 CZK/MWh)</p>	<p style="text-align: center;"><u>Biomass</u></p> <p><u>Firing O1-O3 category biomass only, as of 1/01/2008</u> O1 category biomass -> 114,09 €/MWh (2.950 CZK/MWh) O2 category biomass -> 74,25 €/MWh (1.920 CZK/MWh) O3 category biomass -> 39,83 €/MWh (1030 CZK/MWh)</p> <p><u>Firing O1-3 category biomass only, before 1/01/2008</u> O1 category biomass -> 88,17 €/MWh (2280 CZK/MWh) O2 category biomass -> 61,49 €/MWh (1.590 CZK/MWh) O3 category biomass -> 36,35 €/MWh (940 CZK/MWh)</p> <p><u>Co-firing category S1-S3 biomass fuel mixtures and fossil fuels</u> Category S1 biomass -> 52,21 €/MWh (1.350 CZK/MWh) Category S2 biomass -> 26,68 €/MWh (690 CZK/MWh) Category S3 biomass -> 1,55 €/MWh (40 CZK/MWh)</p> <p><u>Parallel firing P1-P3 category biomass and fossil fuels</u> P1 category biomass -> 62,65 €/MWh (1.620 CZK/MWh) P2 category biomass -> 37,13 €/MWh (960 CZK/MWh) P3 category biomass -> 11,99 €/MWh (310 CZK/MWh)</p> <p style="text-align: center;"><u>Biogas</u></p> <p><u>Plants firing biogas</u> AF1 category -> 99,78 €/MWh (2.580 CZK/MWh)</p>

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	<p>AF2 category -> 137,29 €/MWh (3.550 CZK/MWh)</p> <p><u>Plants firing landfill gas and sludge gas from wastewater treatment plants after 1/01/2006 -> 93,59 €/MWh (2.420 CZK/MWh)</u> between 1/01/2004 and 31/12/2005 -> 105,58 €/MWh (2.730 CZK/MWh) before 1/01/2004 -> 109,83 €/MWh (2.840 CZK/MWh)</p> <p><u>Plants firing mine gas from closed mines</u> 93,59 €/MWh (2.420 CZK/MWh)</p>	<p>AF2 category -> 77,73 €/MWh (2.010 CZK/MWh)</p> <p><u>Plants firing landfill gas and sludge gas from wastewater treatment plants after 1/01/2006 -> 34,03 €/MWh (880 CZK/MWh)</u> between 1/01/2004 and 31/12/2005 -> 46,02 €/MWh (1.190 CZK/MWh) before 1/01/2004 -> 50,27 €/MWh (1.300 CZK/MWh)</p> <p><u>Plants firing mine gas from closed mines</u> 34,03 €/MWh (880 CZK/MWh)</p>
Support scheme	Feed-in tariffs or Green Premiums	
Current applicable law	Law no. 180/2005 on the Promotion of Electricity Production from Renewable Energy Sources, into force as from 1 August 2005 The Energy Regulatory Office's Price Decision No. 8/2008 of 18 November 2008, Laying down support for electricity generation from renewable energy sources, combined heat & power, and secondary energy sources.	
Particularities	<p>* Prices do not include VAT – exchange rate 1 CZK = 0,0387 EUR</p> <p>** The new RES Act, adopted in 2005, extended the feed-in system by offering a choice between a feed-in tariff (a guaranteed price) or a “green premium” (an amount paid on top of the market price).</p> <p>*** For electricity purchase prices or green premiums double-rate bands may be set for metering and billing electricity supplies from a peak-shaving or partly peak-shaving small storage hydroelectric power station, whose peak-shaving or partly peak-shaving operation is set out in its water disposal authorisation.</p> <p>Electricity market price for the first semester 2009: 54,87 €/MWh (future markets).</p>	

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Photovoltaic		
	Purchase prices of electricity supplied to the network**	Green premiums**
Price*	Units commissioned as from 01/01/2009 up to 30 kW -> 496,32 €/MWh (12.890 CZK/MWh) over 30 kW -> 492,54 €/MWh (12.790 CZK/MWh) between 1/01/2008 and 31/12/2008 542,22 €/MWh (14.080 CZK/MWh) before 1/01/ 2006: 258,40 €/MWh (6.710 CZK/MWh)	Units commissioned as from 01/01/2009: up to 30 kW -> 458,65 €/MWh (11.910 CZK/MWh) over 30 kW -> 454,80 €/MWh (11.810 CZK/MWh) between 1/01/2008 and 31/12/2008: 504,48 €/MWh (13,100 CZK/MWh) before 1/01/2006: 220,66 €/MWh (5.730 CZK/MWh)
Support scheme	Feed-in tariffs or Green Premiums	
Current applicable law	Law no. 180/2005 on the Promotion of Electricity Production from Renewable Energy Sources, into force as from 1 August 2005 The Energy Regulatory Office's Price Decision No. 8/2008 of 18 November 2008, Laying down support for electricity generation from renewable energy sources, combined heat & power, and secondary energy sources.	
Particularities	* Prices do not include VAT – exchange rate 1 CZK = 0,0387 EUR	

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	<p>** The new RES Act, adopted in 2005, extended the feed-in system by offering a choice between a feed-in tariff (a guaranteed price) or a “green premium” (an amount paid on top of the market price).</p> <p>*** For electricity purchase prices or green premiums double-rate bands may be set for metering and billing electricity supplies from a peak-shaving or partly peak-shaving small storage hydroelectric power station, whose peak-shaving or partly peak-shaving operation is set out in its water disposal authorisation.</p> <p>Electricity market price for the first semester 2009: 54,87 €/MWh (future markets).</p>
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<i>Geothermal</i>		
	Purchase prices of electricity supplied to the network**	Green premiums**
Price*	173,29 €/MWh (4.500 CZK/MWh)	120,92 €/MWh (3.140 CZK/MWh)
Support scheme	Feed-in tariffs or Green Premiums	
Current applicable law	Law no. 180/2005 on the Promotion of Electricity Production from Renewable Energy Sources, into force as from 1 August 2005 The Energy Regulatory Office's Price Decision No. 8/2008 of 18 November 2008, Laying down support for electricity generation from renewable energy sources, combined heat & power, and secondary energy sources.	
Particularities	<p>* Prices do not include VAT – exchange rate 1 CZK = 0,0387 EUR</p> <p>** The new RES Act, adopted in 2005, extended the feed-in system by offering a choice between a feed-in tariff (a guaranteed price) or a “green premium” (an amount paid on top of the market price).</p> <p>*** For electricity purchase prices or green premiums double-rate bands may be set for metering and billing electricity supplies from a peak-shaving or partly peak-shaving small storage hydroelectric power station, whose peak-shaving or partly peak-shaving operation is set out in its water disposal authorisation.</p> <p>Electricity market price for the first semester 2009: 54,87 €/MWh (future markets).</p>	

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6. Denmark

	<i>Hydro</i>
Price	<p><u>existing plants:</u> 80.45 €/MWh (for 20 years from the date of the grid connection and for at least 15 years as from 1/01/ 2004)</p> <p><u>new plants:</u> 80.45 €/MWh for 10 years 53.36 €/MWh for the following 10 years</p>
Support scheme	Feed-in tariff
Current applicable law	Act on Energy Supply 2003 (as amended)
Particularities	

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	<i>Wind</i>
Price*	<p><u>Turbines connected to the grid after February 2008*:</u></p> <ul style="list-style-type: none"> - premium price for 22.000 full load hours -> 33,60 €/MWh (25 øre/kWh) <u>premium</u> + 37,62 €/MWh <u>electricity price</u> [= 70,62 €/MWh] - additional allowance in the entire lifetime of the turbine to compensate for the cost of balancing -> 3,10 €/MWh (2,3 øre/kWh) - private wind turbines below 25 kW -> 80,60 €/MWh (60 øre/kWh) <p><u>Turbines connected to the grid from January 2005</u> premium for 20 years -> 13.41 €/MWh allowance for offset costs etc. -> 3.08 €/MWh</p> <p><u>Turbines connected to the grid in the period 2003-2004</u> premium for 20 years -> 13.41 €/MWh allowance for offset costs etc. -> 3.08 €/MWh (total tariff, i.e. premium + market price for electricity -> must not exceed 48,27 €/MWh)</p> <p><u>Turbines connected to the grid in the period 2000-2002</u></p> <p>- <u>Onshore</u> total tariff (premium + market price) for 22,000 full load hours -> 57.66 €/MWh premium after full load hours are used up, until turbine is 20 years old -> up to 13.41 €/MWh allowance for offset costs etc. -> 3.08 €/MWh (total tariff, i.e. premium + market price, must not exceed 48, 27 €/MWh)</p> <p>- <u>Offshore</u> Total tariff (premium + market price) for 10 years -> 57.66 €/MWh Allowance for offset costs etc. -> 3.08 €/MWh</p>

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(total tariff, i.e. premium + market price, must not exceed 48,27 €/MWh)

Turbines acquired before end 1999

-> 80.44 €/MWh until full load hours are used up; full load hour allowance is 25,000 hours for turbines of 200 kW or less, 15,000 hours for turbines of 201-599 kW and 12,000 hours for turbines of 600 kW and more

-> 36.20 €/MWh if the turbine is more than 10 years old but has not used its full load allowance up yet; total tariff must not exceed 80.44 €/MWh

-> up to 13.41 €/MWh if the turbine is over 10 years old and its full load allowance is used up, until the turbine is 20 years old; total tariff must not exceed 48.26 €/MWh

-> allowance of for offset costs: 3.08 €/MWh

Turbines financed by electricity utilities

(as a result of an order or special agreement)

- Onshore

-> 57.65 €/MWh if connected to the grid after 1 January 2000, for 10 years as from the grid connection

-> up to 13.41 €/MWh if the turbine is over 10 years old, but not older than 20 years; total tariff, i.e. premium + market price, must not exceed 48,27 €/MWh

- Offshore

-> 60.73 €/MWh if connected to the grid after 1 January 2000, for 42,000 full load hours

-> up to 0.93 €/MWh compensation if production is subject to a grid tariff

-> up to 13,41 €/MWh after all full load hours are used up and turbine is not older than 20 years; total tariff, i.e. premium + market price, must not exceed 48,27 €/MWh

Wind turbines with removing certificates

-> up to 16.09 €/MWh

-> for 12,000 full load hours for production covered by a removing certificate from a 450 kW or less turbine onshore, decommissioned between 15/12/2004 and 15/12/2009; total tariff, i.e. premium + market price, must not exceed 64.35 €/MWh

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	Household turbines 25 kW or less -> 80.44 €/MWh
Support scheme	Premium + market price for electricity
Current applicable law	Renewable Energy Law dated December 27, 2008 Act on Energy Supply 2003 (as amended)
Particularities	* Exchange rate 1 DKK = 0,1343 € Average electricity price for the first semester 2009 = 37,02 €/MWh (average prices Denmark East and Denmark West for the period January-June 2009).

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	<i>Biomass/Biogas</i>
Price*	<p><u>Biomass:</u></p> <ul style="list-style-type: none"> - Connection to the grid after February 2008* -> 20,10 €/MWh (15 øre/kWh) <u>premium</u> + 37,02 €/MWh <u>electricity price</u> [= 57,12 €/MWh] - Connection to the grid after 21/04/2004 -> 80.44 €/MWh for 10 years; 53.63 €/MWh for the following 10 years - Connection to the grid before 21/04/2004 -> 80.44 €/MWh for 20 years from date of grid connection and for at least 15 years as from 1/01/2004 <p><u>Biogas:</u></p> <ul style="list-style-type: none"> - Connection to the grid after February 2008* -> feed in tariff of 100,10 €/MWh (74,50 øre/kWh) -> premium of 54,40 €/MWh (40,5 øre/kWh) premium for plants mixed biogas and other fuel (price applied only to the part of electricity produced from biogas) - Connection to the grid before 21/04/2004-> 80.44 €/MWh for 20 years from date of grid connection and for at least 15 years as from 1/01/2004 - Connection to the grid between 22/04/2004 and 31/12/2008 -> 80.44 €/MWh for 10 years -> 53.63 €/MWh for the following 10 years <p>(The subsidy implies that the total use of biogas not exceed 8 PJ/year)</p>
Support scheme	<p>Biomass: Premium + market price for electricity Biogas: Feed-in tariff (or Premium + market price for electricity for biogas mixed with other fuel)</p>
Current applicable law	<p>Renewable Energy Law dated December 27, 2008 Act on Energy Supply 2003 (as amended); Policy agreement (Biomass Agreement) from 1993 and from February 2008</p>
Particularities	<p>Obligation for central power stations to use biomass * Exchange rate 1 DKK = 0,1343 € Average electricity price for the first semester 2009 = 37,02 €/MWh (average prices Denmark East and Denmark West for the period January-June 2009 – when a green premium is applied, the electricity price has to be added.</p>

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	<i>Photovoltaic</i>	<i>Other</i>
Price*	<p>- Connection to the grid after February 2008*: 80,60 €/MWh (60 øre/kWh) for 10 years 53,70 €/MWh (40 øre/kWh) for the following 10 years</p> <p>- Connection to the grid between 21/04/2004 and February 2008: 80.44 €/MWh for 10 years 53.63 €/MWh for the following 10 years</p> <p>- Connection to the grid before 21/04/2004: 80.44 €/MWh for 20 years from date of grid connection and for at least 15 years as from 1/01/2004</p>	<p><u>Wave power</u> (and other special renewable technologies):</p> <p>- Connection to the grid after February 2008*: 80,60 €/MWh (60 øre/kWh) for 10 years 53,70 €/MWh (40 øre/kWh) for the following 10 years</p> <p>- Connection to the grid between 21/04/2004 and February 2008: 80.44 €/MWh for 10 years 53.63 €/MWh for the following 10 years</p> <p>- Connection to the grid before 21/04/2004: 80.44 €/MWh for 20 years from date of grid connection and for at least 15 years as from 1/01/2004</p>
Support scheme	Feed-in tariffs	
Current applicable law	Renewable Energy Law dated December 27, 2008 Act on Energy Supply 2003 (as amended)	
Particularities	<p>Small photovoltaic systems < 6 kW not eligible for subsidy, but allowed to exemption from energy taxes</p> <p>* Exchange rate 1 DKK = 0,1343 €</p>	* Exchange rate 1 DKK = 0,1343 €

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7. Estonia

	<i>Hydro</i>	<i>Wind</i>	<i>Biomass/Biogas</i>	<i>Photovoltaic</i>	<i>Geothermal</i>
Price	51.76 €/MWh				
Support scheme	Feed-in tariff				
Current applicable law	Art. 57-59 of Electricity Market Act 2003 (latest amendment by Act of 15 February 2007 entered into force 01.05.2007)				
Particularities	<p>According to the latest amendment of the Energy Market Act the RES-E purchase rate will be at 73.48 €/MWh as of 1/01/2010; in addition 53.67 €/MWh shall be paid as support by the transmission network operator.</p> <p>As of 1/01/2009 a producer who uses wind energy may use the purchase obligation until the total amount of 200 GWh is generated from wind energy in Estonia and may receive support until the total amount of 400 GWh wind energy generation.</p>				

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8. Finland

	<i>Hydro</i>	<i>Wind</i>	<i>Biomass</i>	<i>Photovoltaic</i>	<i>Geothermal</i>
Price					
Support scheme	Average market price for electricity + Subsidies Subsidies (i.e. in particular tax deductions and investment support) + guaranteed access to the grid (Feed-in tariffs under consideration)				
Current applicable law	Electricity Market Act 1995 Energy Aid Law				
Particularities	Support through energy taxation system: 6.9 €/MWh	Support through energy taxation system: 4.2 €/MWh	Support through energy taxation system - forestry wood chips: 6.9 €/MWh - recycled fuels: 2.5 €/MWh	Support through energy taxation system: 4.2 €/MWh	Support through energy taxation system: 4.2 €/MWh
Average Market Price for Electricity (2008)*	124,70 €/MWh	124,70 €/MWh	124,70 €/MWh	124,70 €/MWh	124,70 €/MWh

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*** prices include VAT; 2008 has been a year with relatively high electricity prices in Finland; According to Finnish Energy Industry,** the total price of domestic power (5000 kWh/yr) inclusive of the costs of electric energy, transmission and distribution, and value added and electricity taxes at the start of 2009 stood at 12.44 c/kWh, coming from 11.27 c/kWh at the start of 2008. The increase last year was 10.3 percent. The price paid by average household for his electric energy rose during the year by an average of 17.1% to 6.9 c/kWh, exclusive of tax 5.66 c/kWh.

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9. France

	<i>Hydro</i>	<i>Wind</i>	
Price	<p><u>New installations</u> purchase contracts subject to decree of 1/03/2007: 60,7 €/MWh</p> <p>+ bonus between 5 and 25 €/MWh for small installations + bonus between 0 and 16,8 €/MWh in winter depending on the regularity of production</p> <p>(for 20 years)</p> <p><u>Existing plants</u> purchase contracts subject to decree of 25/06/2001: 54,9 to 61 €/MWh depending on capacity</p> <p>+ premium between 0 and 15,2 €/MWh in winter depending on the regularity of production</p> <p>(for 20 years)</p>	<p><u>Onshore</u></p> <p><u>New installations</u> purchase contracts subject to decree of 17/11/2008</p> <p>- <u>for the first 10 years</u>: 82 €/MWh (in the mainland)</p> <p>- <u>for the next 5 years</u> =2400 hours/year: 82 €/MWh 2800 hours/year: 68 €/MWh =3600 hours/year: 28 €/MWh (with linear interpolation in the mainland; annual degression 2%)</p> <p>- <u>overseas</u>: 110 €/MWh for 15 years independent from productivity*</p> <p><u>Existing installations</u> subject to the decree of 8/06/2001</p>	<p><u>Offshore</u></p> <p><u>New installations</u> purchase contracts subject to decree of 17/11/2008</p> <p>- <u>for the first 10 years</u>: 130 €/MWh</p> <p>- <u>for the next 10 years</u> =2800 hours/year: 130 €/MWh 3200 hours/year: 90 €/MWh =3900 hours/year: 30 €/MWh (with linear interpolation; annual degression 3%)</p>

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		<p>- for the first 5 years: 83.8 €/MWh</p> <p>- for the next 10 years: 30.5 to 83.8 €/MWh depending on the wind/location</p>	
Support scheme	Feed-in tariffs		
Current applicable law	<p>Art. 10 of Act No. 2000-108 of 10/02/2000 on the Modernisation and Development of the Public Electricity Service (latest amended 1/01/2008)</p> <p>Decree of 1/03/2007</p> <p>Decree of 25/03/2007</p>	<p>Art. 10 and 10-1 of Law No. 2000-108; Decree of 10 July 2006 and Decree of 8 June 2001</p>	
Particularities		<p>*) Productivity is defined as producing time in relation to the amount of generated electricity at peak output.</p>	

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Biomass/Biogas					
Price	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%; text-align: center;"><u>Biogas</u></th> <th style="width: 50%; text-align: center;"><u>Vegetable biomass material</u></th> </tr> </thead> <tbody> <tr> <td style="vertical-align: top;"> <p><u>New installations</u> purchase contracts subject to the Decree of 10/07/2006 = 150 kW -> 90 €/MWh in the mainland ->103 €/MWh overseas = 2 MW -> 75 €/MWh in the mainland -> 86 €/MWh overseas (linear interpolation) for 15 years</p> <p><u>Energy efficiency based premium</u> 0 (energy yield < 40 %) to 30 €/MWh (> 75 %) (linear interpolation)</p> <p><u>Methanisation premium</u> for all biogas installations excepted for those based upon non hazardous waste storage facilities: 20 €/MWh (no annual degression)</p> <p><u>Existing plants</u> purchase contracts subject to the Decree of 3/10/2001 45 to 57.2 €/MWh depending on capacity</p> <p><u>Energy efficiency premium</u> 0 to 3 €/MWh for 15 years</p> </td> <td style="vertical-align: top;"> <p>49 €/MWh in the mainland 55 €/MWh overseas for 15 years</p> <p><u>Energy efficiency premium</u> 0 (energy yield = 40 %) to 12 €/MWh (= 70 %) (linear interpolation, i.e. 5€/MWh at 50 % and 10 €/MWh at 60 %)</p> <hr style="border-top: 1px dashed black;"/> <p style="text-align: center;"><u>Animal residues (natural and transformed)</u> and <u>Household waste</u></p> <p>45 to 50 €/MWh for 15 years</p> <p><u>Energy efficiency premium</u> 0 to 3 €/MWh</p> </td> </tr> </tbody> </table>	<u>Biogas</u>	<u>Vegetable biomass material</u>	<p><u>New installations</u> purchase contracts subject to the Decree of 10/07/2006 = 150 kW -> 90 €/MWh in the mainland ->103 €/MWh overseas = 2 MW -> 75 €/MWh in the mainland -> 86 €/MWh overseas (linear interpolation) for 15 years</p> <p><u>Energy efficiency based premium</u> 0 (energy yield < 40 %) to 30 €/MWh (> 75 %) (linear interpolation)</p> <p><u>Methanisation premium</u> for all biogas installations excepted for those based upon non hazardous waste storage facilities: 20 €/MWh (no annual degression)</p> <p><u>Existing plants</u> purchase contracts subject to the Decree of 3/10/2001 45 to 57.2 €/MWh depending on capacity</p> <p><u>Energy efficiency premium</u> 0 to 3 €/MWh for 15 years</p>	<p>49 €/MWh in the mainland 55 €/MWh overseas for 15 years</p> <p><u>Energy efficiency premium</u> 0 (energy yield = 40 %) to 12 €/MWh (= 70 %) (linear interpolation, i.e. 5€/MWh at 50 % and 10 €/MWh at 60 %)</p> <hr style="border-top: 1px dashed black;"/> <p style="text-align: center;"><u>Animal residues (natural and transformed)</u> and <u>Household waste</u></p> <p>45 to 50 €/MWh for 15 years</p> <p><u>Energy efficiency premium</u> 0 to 3 €/MWh</p>
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	Feed-in tariffs				

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Support scheme		
Current applicable law	Art. 10 of Act No. 2000-108 of 10/02/2000 on the Modernisation and Development of the Public Electricity Service (latest amended 1/01/2008) Decree of 10/07/2006 Decree of 3/10/2001	Art. 10 of Act No. 2000-108 of 10/02/2000 on the Modernisation and Development of the Public Electricity Service (latest amended 1/01/2008) Decree of 16/04/2002 Decree of 13/03/2002 Decree of 2/10/2001
Particularities		

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	<i>Photovoltaic</i>	<i>Geothermic</i>
Price	<p><u>New installations</u> purchase contracts subject to the decree of 10/07/2006 300 €/MWh in the mainland 400 €/MWh overseas and in Corsica for 20 years</p> <p><u>Installation costs integration premium</u> 250 €/MWh in the mainland 150 €/MWh overseas and in Corsica (no annual degression)</p> <p><u>Existing installations</u> subject to the Decree of 13/03/2002 152.5 €/MWh in the mainland 305 €/MWh overseas and Corsica for 20 years</p>	<p><u>New installations</u> purchase contracts subject to the decree of 10/07/2006 120 €/MWh in the mainland 100 €/MWh overseas for 15 years</p> <p><u>Energy efficiency premium:</u> 0 to 3 €/MWh in the mainland</p> <p><u>Existing installations</u> purchase contracts subject to the Decree of 13/03/2002 76.2 €/MWh for 15 years</p> <p><u>Energy efficiency premium</u> 0 to 3 €/MWh</p>
Support scheme	Feed-in tariffs	
Current applicable law	Art. 10 of Law No. 2000-108; Decree of 10 July 2006 and Decree of 13 March 2002	Art. 10 of Law No. 2000-108; Decree of 10 July 2006 and Decree of 13 March 2002

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Particularities	Tariff available until cap is reached (cap: 1500 hours of peak capacity in the mainland, 1800 hours of peak capacity in overseas and Corsica); after cap was reached: 50 €/MWh	
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10. Germany

	<i>Hydro</i>	<i>Wind</i>
Price	<p style="text-align: center;"><u>Renewable Energies Act 2004</u></p> <p><u>2004-2008, new and refurbished plants, up to 5 MW</u> up to 500 kW -> 96.7 €/MWh 500 kW to 2 MW -> 66.5 €/MWh 2 MW to 5 MW -> 66.5 €/MWh for 30 years, no degression</p> <p><u>2004-2008, renewed plants, above 5 MW</u> up to 500 kW added -> 76.7 - 73.6 €/MWh* up to 10 MW added -> 65.5 - 63.8 €/MWh* up to 20 MW added -> 61.0 - 58.6 €/MWh* up to 50 MW added -> 43.4 - 45.6 €/MWh* up to 150 MW added -> 35.0 - 35.4 €/MWh* for 15 years</p> <p style="text-align: center;"><u>Renewable Energies Act 2009</u></p> <p><u>New plants, up to 5 MW</u> up to 500 kW -> 126.7 €/MWh 500 kW to 2 MW -> 86.5 €/MWh 2 MW to 5 MW -> 76.5 €/MWh for 20 years</p>	<p style="text-align: center;"><u>Renewable Energies Act 2004</u></p> <p><u>Onshore, 2004-2013</u> Initial tariff: 87.0 - 80.3 €/MWh** (basic tariff + premium for the first 5 years) Basic tariff: 55.0 - 50.7 €/MWh** for 20 years</p> <p><u>Offshore, 2004-2013</u> Initial tariff: 91.0 - 89.2 €/MWh** (basic tariff + premium for the first 12 years) Basic tariff: 61.9 - 60.7 €/MWh** for 20 years</p> <p style="text-align: center;"><u>Renewable Energies Act 2009</u></p> <p><u>Onshore</u> Initial tariff: 92.0 €/MWh (basic tariff + premium for the first 5 years) Basic tariff: 50.2 €/MWh Degression: 1 %/year</p>

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	<p><u>Refurbished plants, up to 5 MW</u> up to 500 kW -> 116.7 €/MWh</p> <p>500 kW to 2 MW -> 86.5 €/MWh 2 MW to 5 MW -> 86.5 €/MWh for 20 years</p> <p><u>Renewed plants, above 5 MW</u> up to 500 kW added -> 72.9 €/MWh up to 10 MW added -> 63.2 €/MWh up to 20 MW added -> 58.0 €/MWh up to 50 MW added -> 43.4 €/MWh above 50 MW added -> 35.0 €/MWh for 15 years</p>	<p>- Premium for plants commissioned 2002-2008 and refit until 1/01/2011: 70 €/MWh for 5 years</p> <p>- Increase of initial tariff for plants commissioned 1/01/2009 – 1/01/2014, if performance of new technical requirements: 50 €/MWh</p> <p><u>Offshore</u> Initial tariff: 130 €/MWh (basic tariff + premium for the first 12 years) Basic tariff: 35 €/MWh Degression as of 2015: 5 %/year</p>
Support scheme	Feed-in tariffs	
Current applicable law	Erneuerbare-Energien-Gesetz (EEG) (Renewable Energies Act) 2004; EEG 2009 as of 1/01/2009	
Particularities	* depending on the year of commissioning, degression rate: 1 %/year	** depending on the year of commissioning, degression rate: 2 %/year

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Biogas/Biomass			
Price	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top; border-right: 1px solid black;"> <p style="text-align: center;"><u>Landfill, Sewage and Mine gas</u></p> <p style="text-align: center;"><u>Renewable Energies Act 2004</u></p> <p>2004-2008: output up to 500 kW -> 76.7 - 72.2 €/MWh* up to 5 MW, 2004-2008 -> 66.5 - 62.5 €/MWh* Mine gas only, output above 5 MW -> 66.5 - 62.5 €/MWh*</p> <p>Premium, for innovative plant technology -> 20 €/MWh</p> <p>for 20 years</p> <p style="text-align: center;"><u>Renewable energies Act 2009</u></p> <p><u>Landfill gas plants</u> - up to 500 kW -> 90.0 €/MWh - 500 kW - 5 MW -> 61.6 €/MWh</p> <p><u>Sewage gas plants</u> - up to 500 kW -> 71.1 €/MWh - 500 kW - 5 MW -> 61.6 €/MWh</p> <p><u>Mine gas plants</u> - up to 500kW -> 71.6 €/MWh - 500 kW - 1 MW -> 71.6 €/MWh - 1 MW - 5 MW -> 51.6 €/MWh</p> </td> <td style="width: 50%; vertical-align: top;"> <p style="text-align: center;"><u>Biomass</u></p> <p style="text-align: center;"><u>Renewable Energies Act 2004</u></p> <p>Basic tariff**, 2004-2008: - Output up to 150 kW -> 115.0 - 108.3 €/MWh* - 150 kW - 500 kW -> 99.0 - 93.2 €/MWh* - 500 kW - 5 MW -> 89.0 - 83.8 €/MWh* - 5 MW - 20 MW -> 84 - 79.1 €/MWh*</p> <p>for 20 years</p> <p style="text-align: center;"><u>Renewable Energies Act 2009</u></p> <p>Basic tariff** - Output up to 150 kW * -> 116.7 €/MWh - 150 kW - 500 kW -> 91.8 €/MWh - 500 kW - 5 MW -> 82.5 €/MWh - 5 kW - 20 MW -> 77.9 €/MWh</p> <p>Degression rate: 1 %/year</p> </td> </tr> </table>	<p style="text-align: center;"><u>Landfill, Sewage and Mine gas</u></p> <p style="text-align: center;"><u>Renewable Energies Act 2004</u></p> <p>2004-2008: output up to 500 kW -> 76.7 - 72.2 €/MWh* up to 5 MW, 2004-2008 -> 66.5 - 62.5 €/MWh* Mine gas only, output above 5 MW -> 66.5 - 62.5 €/MWh*</p> <p>Premium, for innovative plant technology -> 20 €/MWh</p> <p>for 20 years</p> <p style="text-align: center;"><u>Renewable energies Act 2009</u></p> <p><u>Landfill gas plants</u> - up to 500 kW -> 90.0 €/MWh - 500 kW - 5 MW -> 61.6 €/MWh</p> <p><u>Sewage gas plants</u> - up to 500 kW -> 71.1 €/MWh - 500 kW - 5 MW -> 61.6 €/MWh</p> <p><u>Mine gas plants</u> - up to 500kW -> 71.6 €/MWh - 500 kW - 1 MW -> 71.6 €/MWh - 1 MW - 5 MW -> 51.6 €/MWh</p>	<p style="text-align: center;"><u>Biomass</u></p> <p style="text-align: center;"><u>Renewable Energies Act 2004</u></p> <p>Basic tariff**, 2004-2008: - Output up to 150 kW -> 115.0 - 108.3 €/MWh* - 150 kW - 500 kW -> 99.0 - 93.2 €/MWh* - 500 kW - 5 MW -> 89.0 - 83.8 €/MWh* - 5 MW - 20 MW -> 84 - 79.1 €/MWh*</p> <p>for 20 years</p> <p style="text-align: center;"><u>Renewable Energies Act 2009</u></p> <p>Basic tariff** - Output up to 150 kW * -> 116.7 €/MWh - 150 kW - 500 kW -> 91.8 €/MWh - 500 kW - 5 MW -> 82.5 €/MWh - 5 kW - 20 MW -> 77.9 €/MWh</p> <p>Degression rate: 1 %/year</p>
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	<p>- above 5 MW -> 41.6 €/MWh</p> <p><u>Premium, plants up to 5 MW_{el}</u></p> <p>- for innovative plant technology -> 20 €/MWh</p> <p>- for processing landfill and biogas up to 350 Nm³/hour -> 20 €/MWh up to 700 Nm³/hour -> 10 €/MWh</p> <p>Degression rate: 1.5 %/year</p>	
Support scheme	Feed-in tariffs	
Current applicable law	Erneuerbare-Energien-Gesetz (EEG) (Renewable Energies Act) 2004; EEG 2009 as of 1/01/2009	
Particularities	<p>* depending on the year of commissioning; deggression rate: 1.5 %/year</p> <p>** divers additional premiums available, depending on specific sort of biomass as well as plant capacity and technology</p>	

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	Photovoltaic	Geothermic
Price	<p style="text-align: center;"><u>Renewable Energies Act 2004</u></p> <p><u>Rooftop and noise barrier installations, 2004-2008</u> up to 30 kW -> 574 – 467,50 €/MWh* as of 30 kW -> 546 – 444,80 €/MWh* as of 100 kW -> 540 – 439,90 €/MWh*</p> <p>for 20 years</p> <p><u>Open space installations</u> 457 – 354,9 €/MWh** for 20 years</p> <p style="text-align: center;"><u>Renewable energies Act 2009</u></p> <p><u>Basic tariff</u> 319,40 €/MWh</p> <p><u>Open space installations</u> 319,40 €/MWh</p>	<p style="text-align: center;"><u>Renewable Energies Act 2004</u></p> <p>Output up to 5 MW -> 150 €/MWh 5 - 10 MW -> 140 €/MWh 10 - 20 MW -> 89,50 €/MWh</p> <p>for 20 years</p> <p style="text-align: center;"><u>Renewable Energies Act 2009</u></p> <p>output up to 10 MW -> 160 €/MWh as from 10 MW -> 105 €/MWh</p>

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Support scheme	Feed-in tariffs	
Current applicable law	Erneuerbare-Energien-Gesetz (EEG) (Renewable Energies Act) 2004; EEG 2009 as of 1/01/2009	
Particularities	*) depending on the year of commissioning; degression rate: 5 %/year **) depending on the year of commissioning; degression rate as of 1 January 2005: 5%, as of 1 January 2006: 6.5 %/year	

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11. Greece

	Hydro (Small Hydro Plants < 15 MW)	Wind	Biomass	Photovoltaic	Geothermic
Price	<u>Mainland</u> interconnected system (mainland): 80,14 €/MWh <u>Islands</u> non-interconnected islands: 91,74 €/MWh	<u>Mainland</u> Onshore -> 80,14 €/MWh Offshore -> 97,14 €/MWh <u>Islands</u> Onshore -> 91,74 €/MWh Offshore -> 97,14 €/MWh	<u>Mainland</u> 80,14 €/MWh <u>Islands</u> 91,74 €/MWh	See separate table below	<u>Mainland</u> 80,14 €/MWh <u>Islands</u> 91,74 €/MWh
Support scheme	Feed-in tariffs				
Current applicable law	Law 3468/2006 "Production of Electricity from Renewable Energy Sources and High-Efficiency Cogeneration of Electricity and Heat and Miscellaneous Provisions" – June 2006 Law 3734/2009 "Promotion of cogeneration of two or more useful forms of energy and miscellaneous other provisions" - January 2009				
Particularities	<u>Others</u> <ul style="list-style-type: none"> · solar energy, besides PV systems, with installed power capacity ≤ 5 MW_e <u>Mainland</u> -> 257,14 €/MWh <u>Islands</u> -> 277,14 €/MWh · solar energy, besides PV systems, with installed power capacity > 5 MW_e <u>Mainland</u> -> 237,14 €/MWh <u>Islands</u> -> 257,14 €/MWh 				

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- gases released from MSW landfill sites and from biological purification (wastewater) installations, as well as biogases
Mainland -> 80,14 €/MWh
Islands -> 91,74 €/MWh

Photovoltaic

Year	Month	A	B	C	D
		Interconnected System		Non-Interconnected Islands	
		> 100kW	<= 100kW	> 100kW	<= 100kW
2009	February	400,00	450,00	450,00	500,00
	August	400,00	450,00	450,00	500,00
2010	February	400,00	450,00	450,00	500,00
	August	392,04	441,05	441,05	490,05
2011	February	372,83	419,43	419,43	466,03
	August	351,01	394,88	394,88	438,76
2012	February	333,81	375,53	375,53	417,26
	August	314,27	353,56	353,56	392,84
2013	February	298,87	336,23	336,23	373,59
	August	281,38	316,55	316,55	351,72
2014	February	268,94	302,56	302,56	336,18
	August	260,97	293,59	293,59	326,22
For each year n, from 2015 onwards		1,3 x SMP _{n-1}	1,4 x SMP _{n-1}	1,4 x SMP _{n-1}	1,5 x SMP _{n-1}
SMP _{n-1} : Average System Marginal Price for the previous year n-1					

NOTES

- 1) The prices defined in the above table, in Euro per MWh, shall be adjusted each year, at 25 percent of the consumer price index of the previous year, as established by the Bank of Greece. If the PV electricity price, thus indexed, is lower than the average System Marginal Price (SMP) of the previous year, increased by 30%, 40%, 40% and 50%, respectively, for the cases A, B, C and D of the above table, then the pricing shall be done on the basis of the average SMP of the previous year, increased by the corresponding factors (i.e. by 30, 40, 40 or 50%).

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	<p>2) The electricity sales contract (PPA) between the relevant System or Network Operator and the PV electricity producer shall be valid for twenty (20) years. For the entire duration of the contract, the reference (fixed) buy-back price is set at the particular reference price of the above table that corresponds to the specific year and month of signing of the PPA. However, this is true on the condition of starting up the PV project's commissioning phase within 18 months from signing of the PPA, for PV stations <10 MW, and within 36 months from signing of the PPA, for PV stations ≥10 MW. If this condition is not met, then the contract's reference (fixed) kWh price is set at the particular price of the above table that corresponds to the specific year and month of the actual start up of the PV project's commissioning phase.</p> <p>3) Specifically for PV stations >10MW, a Joint Ministerial Decree, to be issued by the Minister of Economy and Finance and the Minister of Development, will define the terms, conditions and other criteria of a tendering procedure, through which applications will be submitted and electricity generation licenses will be granted to PV projects above 10 MW. The submission of applications will take place in response to a relevant call by the Minister of Development, following an opinion by RAE. In this call, the minimum PV capacity of each project and the total PV capacity to be licensed through the tender will be defined. The entire tendering procedure will be based on the pricing of the generated PV electricity, as offered in each project application.</p>
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12. Hungary

	<i>Hydro</i>	<i>Wind</i>
Price*	<p><u>"Power station units"(PSU) up to 5 MW</u> Peak -> 127.60 €/MWh Valley -> 114.22 €/MWh Deep valley -> 46.62 €/MWh</p> <p><u>PSU above 5 MW</u> Peak -> 79.38 €/MWh Valley -> 50.80 €/MWh Deep valley -> 50.80 €/MWh</p>	114.22 €/MWh**
Support scheme	Feed-in tariffs	

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Current applicable law	Electricity Act 2003; 389/2007 (XII 23) Gov. decree (GD) about obligatory takeover and fed-in tariffs of electricity produced from renewable energy sources or waste, and CHP
Particularities	* Prices in EUR according to exchange rate as of July 2008 ** Since 1/01/2008 wind generators can sell electricity in the framework of obligatory takeover on the criteria of a tender if they win

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	<i>Biomass</i>	<i>Photovoltaic</i>	<i>Other</i>
Price*	<p><u>“Power station units” (PSU) up to 20 MW</u> Peak -> 127.60 €/MWh Valley -> 114.22 €/MWh Deep valley -> 46.62 €/MWh</p> <p><u>PSU 20 - 50 MW</u> Peak -> 101.70 €/MWh Valley -> 91.38 €/MWh Deep valley -> 37.25 €/MWh</p> <p><u>PSU, up to 50 MW, comprising used equipment**</u> Peak -> 79.38 €/MWh Valley -> 50.80 €/MWh Deep valley -> 50.80 €/MWh</p> <p><u>PSU above 50 MW</u> Peak -> 79.38 €/MWh Valley -> 50.80 €/MWh Deep valley -> 50.80 €/MWh</p>	114.22 €/MWh	<p><u>“Power station units” (PSU) up to 20 MW</u> Peak -> 127.60 €/MWh Valley -> 114.22 €/MWh Deep valley -> 46.62 €/MWh</p> <p><u>PSU 20 - 50 MW</u> Peak -> 101.70 €/MWh Valley -> 91.38 €/MWh Deep valley -> 37.25 €/MWh</p> <p><u>PSU, up to 50 MW, comprising used equipment**:</u> Peak -> 79.38 €/MWh Valley -> 50.80 €/MWh Deep valley -> 50.80 €/MWh</p> <p><u>PSU above 50 MW:</u> Peak -> 79.38 €/MWh Valley -> 50.80 €/MWh Deep valley -> 50.80 €/MWh</p> <p style="text-align: right;"><u>Waste</u></p> Peak -> 119.70 €/MWh Valley -> 82.49 €/MWh Deep valley -> 43.04 €/MWh

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Support scheme	Feed-in tariffs
Current applicable law	Electricity Act 2003; 389/2007 (XII 23) Gov. decree (GD) about obligatory takeover and fed-in tariffs of electricity produced from renewable energy sources or waste, and CHP
Particularities	* Prices in EUR according to exchange rate as of July 2008 ** Equipment is qualified as used if it was produced 5 years earlier than the production license application

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13. Ireland

	<i>Hydro <5 MW</i>	<i>Wind</i>	<i>Biomass/Biogas</i>	<i>Photovoltaic</i>	<i>Other</i>
Price	72 €/MWh for 15 years	up to 5 MW: 59 €/MWh above 5 MW: 57 €/MWh for 15 years	Landfill gas: 70 €/MWh other biomass: 72 €/MWh for 15 years	90 €/MWh from ESB Customer Supply (supply company of ESB Group) + 100 €/MWh from ESB Networks (network/grid company within ESB Group)	
Support scheme	Feed-in tariffs				
Current applicable law	Renewable energy feed in tariff (REFIT) scheme, launched by the Minister for Communications, Marine and Natural Resources on 1 May 2006				
Particularities	<p>Applicants in REFIT must have planning permission and a grid connection offer for their projects and they will then be able to contract with any licensed electricity supplier up to the notified fixed prices.</p> <p>The published terms and conditions of REFIT provides for indexation, according to the Consumers Price Index (CPI); the CPI is provided by</p>				

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the CSO (www.cso.ie/statistics/consumpriceindex.htm) and is calculated along the following figures:

Change in CPI	Applicable from
2006	1.1.2007
2007	1.1.2008
and so on, compound, to 2024	

With reference to PV:

The 90 €/MWh will be reviewed in October and the 10c/kWh is guaranteed for 3 years (beyond that is unknown)

The 100 €/MWh kWh only applies to the first 3,000kWh exported in each year of the three year period

The 90 €/MWh applies to all units exported in the year

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14. Italy

	<i>Hydro</i>	<i>Wind</i>	<i>Biomass</i>	<i>Photovoltaic</i>	<i>Other</i>
Price GC*	82,43 €/MWh	82,43 €/MWh	82,43 €/MWh	Not applicable	82,43 €/MWh
Price FiT Tariffa onnicomprensiva	220 €/MWh (waves 340 €/MWh)	300 €/MWh	300 €/MWh (biomass and biogas from agriculture, cattle breeding and forestry) 180 €/MWh (other biogas)	Not applicable	Geothermal: 200 €/MWh Wave: 340 €/MWh
Support scheme	Quota obligation system (tradable Green Certificates additional to the electricity market price) Feed-in-tariffs**				
Current applicable law	Budget Law 2008 (Law 24/12/2007 no. 244); Ministerial Decree dated 18/12/2008 (Ministry for Economic Development and the Ministry for Environment); Legislative Decree 16/03/1999 no. 79			Ministerial Decree of 11/04/2008; Ministerial Decree dated 19/12/2007	
Particularities	Prices do not include VAT. *Average price of GC for the first semester 2009 [Average electricity market price for the first semester 2009: 66,36 €/MWh] ** Two different feed in tariffs system are envisaged: - with reference to solar PV, feed-in tariffs are the only support scheme applicable (the so-called Conto Energia) - with reference to other RES, the green electricity producer can opt for Feed-in-Tariff (the so-called tariffa onnicomprensiva) instead of				

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	GC. In this case 2 specific requirements must be satisfied: nominal power of the plant must not be greater than 0,2 MW (wind farms) or 1 MW (other plants) and the plant must have entered in use after January 1, 2008
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Photovoltaic				
Price FiT Conto Energia	<u>Units entered in use before 31/12/2008</u> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> 1 kW ≤ P ≤ 3kW: - not integrated in buildings: 400 €/MWh - partially integrated in buildings: 440 €/MWh - fully integrated in buildings: 490 €/MWh </td> <td style="width: 33%; padding: 5px;"> 3 kW < P ≤ 20 kW: - not integrated in buildings: 380 €/MWh - partially integrated in buildings: 420 €/MWh - fully integrated in buildings: 460 €/MWh </td> <td style="width: 33%; padding: 5px;"> P > 20 kW - not integrated in buildings: 360 €/MWh - partially integrated in buildings: 400 €/MWh - fully integrated in buildings: 440 €/MWh </td> </tr> </table>	1 kW ≤ P ≤ 3kW: - not integrated in buildings: 400 €/MWh - partially integrated in buildings: 440 €/MWh - fully integrated in buildings: 490 €/MWh	3 kW < P ≤ 20 kW: - not integrated in buildings: 380 €/MWh - partially integrated in buildings: 420 €/MWh - fully integrated in buildings: 460 €/MWh	P > 20 kW - not integrated in buildings: 360 €/MWh - partially integrated in buildings: 400 €/MWh - fully integrated in buildings: 440 €/MWh
	1 kW ≤ P ≤ 3kW: - not integrated in buildings: 400 €/MWh - partially integrated in buildings: 440 €/MWh - fully integrated in buildings: 490 €/MWh	3 kW < P ≤ 20 kW: - not integrated in buildings: 380 €/MWh - partially integrated in buildings: 420 €/MWh - fully integrated in buildings: 460 €/MWh	P > 20 kW - not integrated in buildings: 360 €/MWh - partially integrated in buildings: 400 €/MWh - fully integrated in buildings: 440 €/MWh	
<u>Units entered in use between 01/01/2009 and 31/12/2009</u> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> 1 kW ≤ P ≤ 3kW: - not integrated in buildings: 392 €/MWh - partially integrated in buildings: 431 €/MWh - fully integrated in buildings: 480 €/MWh </td> <td style="width: 33%; padding: 5px;"> 3 kW < P ≤ 20 kW: - not integrated in buildings: 372 €/MWh - partially integrated in buildings: 412 €/MWh - fully integrated in buildings: 451 €/MWh </td> <td style="width: 33%; padding: 5px;"> P > 20 kW - not integrated in buildings: 353 €/MWh - partially integrated in buildings: 392 €/MWh - fully integrated in buildings: 431 €/MWh </td> </tr> </table>	1 kW ≤ P ≤ 3kW: - not integrated in buildings: 392 €/MWh - partially integrated in buildings: 431 €/MWh - fully integrated in buildings: 480 €/MWh	3 kW < P ≤ 20 kW: - not integrated in buildings: 372 €/MWh - partially integrated in buildings: 412 €/MWh - fully integrated in buildings: 451 €/MWh	P > 20 kW - not integrated in buildings: 353 €/MWh - partially integrated in buildings: 392 €/MWh - fully integrated in buildings: 431 €/MWh	
1 kW ≤ P ≤ 3kW: - not integrated in buildings: 392 €/MWh - partially integrated in buildings: 431 €/MWh - fully integrated in buildings: 480 €/MWh	3 kW < P ≤ 20 kW: - not integrated in buildings: 372 €/MWh - partially integrated in buildings: 412 €/MWh - fully integrated in buildings: 451 €/MWh	P > 20 kW - not integrated in buildings: 353 €/MWh - partially integrated in buildings: 392 €/MWh - fully integrated in buildings: 431 €/MWh		
Support scheme	Feed-in-tariffs			
Current applicable law	Ministerial Decree of 11/04/2008; Ministerial Decree dated 19/12/2007			
Particularities	Prices do not include VAT. *Average price of GC for the first semester 2009. ** Two different feed in tariffs system are envisaged: - with reference to solar PV, feed-in tariffs are the only support scheme applicable (the so-called Conto Energia)			

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	<p>- with reference to other RES, the green electricity producer can opt for Feed-in-Tariff (the so-called tariffa onnicomprensiva) instead of GC. In this case 2 specific requirements must be satisfied: nominal power of the plant must not be greater than 0,2 MW (wind farms) or 1 MW (other plants) and the plant must have entered in use after January 1, 2008</p>
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15. Latvia

	<i>Hydro</i>	<i>Wind</i>
Price	<u>up to 2 MW</u> from 153,71 €/MWh (107,83 LVL/MWh) to 197,52 €/MWh (138,56 LVL/MWh)	<u>up to 0,25 MW</u> from 166,50 €/MWh (116,80 LVL/MWh) to 182,61 €/MWh (128,10 LVL/MWh) <u>more than 0,25 MW</u> from 96,18 €/MWh (67,47 LVL/MWh) to 135,97 €/MWh (95,38 LVL/MWh)
Support scheme	Feed-In Tariffs	
Current applicable law	Energy law (latest amended on 26 May 2005); Electricity Market law (latest amended on 10 April 2008); Regulation No. 198* of the Cabinet of Ministers “Regulations for electricity production from renewable resources and determining a price”, based on Electricity Market Law Article 29, parts 2, 4 and 5 and Article 29.1, part 2 and part 5.	
Particularities	*Regulation No. 198 ensures the mandatory procurement of power generated from renewable energy resources (wind, small hydro, biomass, biogas) with an agreed long-term purchase price based on a feed-in tariff system with the quantity and price determined through public tender. There is also guaranteed payment for installed capacity (for biomass and biogas power plants above 1 MW). 1 LVL = 1,43 EUR	

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	<i>Biomass/Biogas</i>	<i>Photovoltaic</i>	<i>Others</i>
Price	<p>Biomass:</p> <p><u>less than 4 MW</u> from 183,035 €/MWh (128,40 LVL/MWh) to 235,19 €/MWh (164,99 LVL/MWh)</p> <p><u>more than 4 MW</u> from 103,78 €/MWh (72,8 LVL/MWh) to 178,44 €/MWh 125,16 (87,80 LVL/MWh)</p> <p>Biogas:</p> <p><u>less than 2 MW</u> from 189,85 €/MWh (133,18 LVL/MWh) to 233,55 €/MWh (163,84 LVL/MWh)</p> <p><u>more than 2 MW</u> from 129,72 €/MWh (91,00 LVL/MWh) to 163,36 €/MWh (114,60 LVL/MWh)</p>	427,65 €/MWh (300 LVL/MWh)	<p>CHP power plants</p> <p><u>0,08 MW- 4 MW, using RES or peat</u> from 187,47 €/MWh (131,51 LVL/MWh) to 120,54 €/MWh (84,56 LVL/MWh) (the price is more gainful for small power plants)</p> <p><u>0,08 MW- 4 MW, using fossil fuels</u> from 141,64 €/MWh (99,36 LVL/MWh) to 91,07 €/MWh (63,89 LVL/MWh) (the price is more gainful for small power plants)</p> <p><u>above 4 MW</u> price determined by Public Utilities Commission</p>
Support scheme	Feed-In Tariffs		
Current	Energy law (latest amendment 26 May 2005);		Regulation Nr. 221 of the Cabinet of Ministers

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applicable law	Electricity Market law (latest amended 10 April 2008); Regulation Nr. 198 of the Cabinet of Ministers “Regulations for electricity production from renewable resources and determining a price”, based on Electricity Market Law Article 29, parts 2, 4 and 5 and Article 29.1, part 2 and part 5	“Regulations Regarding Electricity Production in Cogeneration and determining a price”, based on Electricity Market Law Article 28, parts 2, 7 and Article 28.1, part 2 and part 5
Particularities	<p>**Regulation No. 198 ensures the mandatory procurement of power generated from renewable energy resources (wind, small hydro, biomass, biogas) with an agreed long-term purchase price based on a feed-in tariff system with the quantity and price determined through public tender. There is also guaranteed payment for installed capacity (for biomass and biogas power plants above 1 MW).</p> <p>1 € = 1,43 LVL</p>	

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6. Lithuania

	<i>Hydro</i>	<i>Wind</i>	<i>Biomass</i>	<i>Photovoltaics</i>	<i>Others</i>
Price	57.92 €/MWh	63.72 €/MWh until 31 December 2008 86.90 €/MWh as of 1 January 2009	63.70 €/MWh until 31 December 2007 69.51 €/MWh since 1 January 2008	-*	-*
Support scheme	Feed-in tariffs				
Current applicable law	Law on Energy 2002 (latest amended 3 May 2007); Law on Electricity 2002; Procedure for the Promotion of Generation and Purchase of Electricity generated from Renewable Energy Sources				
Particularities				*) Price is set by separate decision of the National Control Commission for Prices and Energy (NCC)	

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17. Luxembourg

	<i>Hydro</i>	<i>Wind</i>	<i>Biomass/Biogas</i>	<i>Photovoltaic</i>	<i>Others</i>
Price	<u>Small Hydro</u> 105 €/MWh Up to 1 MW installed capacity 85 €/MWh 1 to 6 MW installed capacity	<u>On Shore</u> 82,70 €/MWh	<u>Solid Biomass</u> 145 €/MWh -> 0 to 1 MW 125 €/MWh -> 1 to 5 MW <u>Biogas</u> 150 €/MWh -> 0 – 150 kW 140 €/MWh -> 151 – 300 kW 130 €/MWh -> 301 – 500 kW 120 €/MWh -> 501 – 2500 kW <u>Sewage Treatment Plants</u> 65 €/MWh <u>Waste Wood</u> 130 €/MWh -> up to 1 MW 110 €/MWh -> 1 – 5 MW	420 €/MWh* < or equal to 30 kW 370 €/MWh 31 – 1000 kW	
Support scheme	Feed-in tariffs				
Current applicable law	1993 Framework Law (as amended), in force for installations in use after the 1/01/2008 Law on the electricity market, dated 1/08/2007 Grand-ducal Regulation of 8/02/2008 relating to electricity production from renewable energy sources				

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Particularities	Tariffs are guaranteed over 15 years *with an annual degression rate of 3%
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18. Malta

	<i>Hydro</i>	<i>Wind</i>	<i>Biomass</i>	<i>Photovoltaic</i>	<i>Others</i>
Price	69.9 €/MWh*				
Support scheme	Net metering system*				
Current applicable law	Promotion of Electricity produced from renewable Energy Sources Regulations, Legal Notice 186 of 2004 (as amended by Legal Notice 426 of 2007)				
Particularities	<p>* Electricity produced in excess of consumption is purchased by Enemalta (the sole supplier of electricity in Malta) at the rate of € 0.0699 per kWh</p> <p>In order to promote the production/use of renewable energies a grant system for private households is in place.</p> <p><u>Grant on initial capital investment:</u></p> <ul style="list-style-type: none"> - Photovoltaic (between 1 kWp and less than 3.7 kWp) grant of 20% on the purchase price of the installation. This grant is subject to a maximum of € 1164.69 with an additional grant of € 582.34 for every additional installed kilowatt peak, plus or minus five per cent (1kWp+/-5%), subject to a total maximum input power of 3.7 kilowatt peak (3.7kWp). Fractions of a kilowatt peak installed additionally above the minimum of one kilowatt peak (1kWp) are treated pro rata. - Micro Wind turbines, up to 3.7 kW: grant of 25% on the purchase price of micro-wind systems and subject to a maximum of € 232.94. 				

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19. The Netherlands

	Hydro		Wind on-shore		Wind off-shore		Photovoltaic		
	2008	2009	2008	2009	2008	2009	2008 Installation 0,6 – 3,5 KWp	2009 Small installation 0,6 – 15 KWp	2009 Bigger installation 15 – 100 KWp
<i>Base Tariff</i>	- Freefall < 5 m: 125 €/ MWh - Freefall > 5 m: 73 €/MWh		110 €/MWh	118 € / MWh	186 €/MWh		564 €/MWh	526 € / MWh	459 € / MWh
<i>Correction*</i>	Variable/not available		78 €/MWh	78 €/MWh	Variable/not available		220 € MWh	273 € MWh	76 € /MWh
<i>Feed in**</i>	Variable/not available		32 €/MWh	40 €/MWh	Variable/not available		344 €/MWh	253 € / MWh	383 € / MWh
<i>Duration of the Subsidy-contract</i>	15 years		15 years		Tender foreseen for the end of 2009. 15 years		15 years	15 years	15 years
<i>Cap</i>	0	20 MW (13 and 7)	500 MW	830 MW	0	450 MW	18 MW	15MW	5MW

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Support scheme	Feed-in tariffs (variable price strictly connected to the electricity price, see particularities)
Current applicable law	<p>Electricity Act 1998 (as amended); The programme supporting RES is called Stimuleringsregeling Duurzame Energieproductie: SDE2008 (open from April 1st) and SDE 2009 (open from April 6 to October 30th). Main legislation included in the SDE:</p> <ul style="list-style-type: none"> - Algemene uitvoeringsregeling SDE (March 3th 2008) - Ministerial decision: vaststelling correcties voorschotverlening duurzame energieproductie SDE (March 3 th 2008) - Ministerial decision: aanwijzing categorieën duurzame energieproductie SDE (March 3th 2008) - Change of Algemene uitvoeringsregeling SDE (March 27 th 2009) - Ministerial decision: aanwijzing categorieën duurzame energieproductie SDE 2009 (March 27th 2009) - Annexes: Bijlage 1 and 2 Overzichtstabel SDE 2009
Particularities	<p>* Every year in April the real correction of the year before are published. For correction prices relating to 2008, please see the following webpage: http://www.senternovem.nl/sde/nieuws/definitieve_correcties_subsidie_sde_over_2008_bekend.asp Correction prices relating to 2009 will be presented by the government in April 2010. The correction in the scheme above for 2009 is an estimation on which the feed in has been calculated upfront. The estimated correction is published in November for the year to come.</p> <p>** The feed in tariff is calculated on the basis of the renewable energy market price compared with the electricity price. The idea is to subsidise the unprofitable top. The government presents a base tariff each year for each renewable, then reduces this base tariff with a correction (the average electricity price of the previous year, and some extra corrections different for each renewable), and the outcome is the price of the feed in. This implies that if the electricity price changes, the feed in tariff also changes, because the base tariff stays fixed during the subsidy contract period. (Example: a green electricity producer gets a subsidy-contract in the year 2008, and starts feeding in with the renewable energy installation in the year 2009. The base tariff of 2008 minus the average electricity prize and corrections of 2009 is the feed in tariff obtained in 2009).</p> <p>The government also presents a base price, which is the lowest possible price of electricity taken into consideration; if the electricity price drops below that base price, the feed in will be the base tariff minus the base price and some corrections. (Please note that base price is not mentioned in the above figures). The payment is 80% upfront, which will be corrected upon publication of the average electricity price published in November.</p> <p>The average electricity prize and corrections change each year.</p>

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	<i>Biomass (heating included)</i>		<i>Biogas</i>	
<i>Price</i>	2008	2009	2008	2009
<i>Base Tariff</i>	120 €/MWh	115-158 €/MWh	0,277 €/Nm3	Plants: 0,465 €/Nm3 Other: 0,583€/Nm3
<i>Correction*</i>	70 €/MWh		0,243 €/Nm3	Variable/not available
<i>Feed in**</i>	50 €/MWh	45-88 €/MWh	0,016 €/Nm3	Variable/not available
<i>Duration of the Subsidy-contract</i>	12 years		12 years	
<i>Cap</i>	40 MW	43-55 MW	6 MW	16-22 MW
<i>Support scheme</i>	Feed-in tariffs (variable price strictly connected to the electricity price, see particularities)			
<i>Current</i>	Electricity Act 1998 (as amended); The programme supporting RES is called Stimuleringsregelung Duurzame Energieproductie: SDE2008 (open from April 1 st) and SDE 2009			

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applicable law	<p>(open from April 6 to October 30th). Main legislation included in the SDE:</p> <ul style="list-style-type: none"> - Algemene uitvoeringsregeling SDE (March 3th 2008) - Ministerial decision: vaststelling correcties voorschotverlening duurzame energieproductie SDE (March 3 th 2008) - Ministerial decision: aanwijzing categorieën duurzame energieproductie SDE (March 3th 2008) - Change of Algemene uitvoeringsregeling SDE (March 27 th 2009) - Ministerial decision: aanwijzing categorieën duurzame energieproductie SDE 2009 (March 27th 2009) - Annexes: Bijlage 1 and 2 Overzichtstabel SDE 2009
Particularities	<p>* Every year in April the real correction of the year before are published. For correction prices relating to 2008, please see the following webpage: http://www.senternovem.nl/sde/nieuws/definitieve_correcties_subsidie_sde_over_2008_bekend.asp Correction prices relating to 2009 will be presented by the government in April 2010. The correction in the scheme above for 2009 is an estimation on which the feed in has been calculated upfront. The estimated correction is published in November for the year to come.</p> <p>** The feed in tariff is calculated on the basis of the renewable energy market price compared with the electricity price. The idea is to subsidise the unprofitable top. The government presents a base tariff each year for each renewable, then reduces this base tariff with a correction (the average electricity price of the previous year, and some extra corrections different for each renewable), and the outcome is the price of the feed in. This implies that if the electricity price changes, the feed in tariff also changes, because the base tariff stays fixed during the subsidy contract period. (Example: a green electricity producer gets a subsidy-contract in the year 2008, and starts feeding in with the renewable energy installation in the year 2009. The base tariff of 2008 minus the average electricity prize and corrections of 2009 is the feed in tariff obtained in 2009).</p> <p>The government also presents a base price, which is the lowest possible price of electricity taken into consideration; if the electricity price drops below that base price, the feed in will be the base tariff minus the base price and some corrections. (Please note that base price is not mentioned in the above figures)</p> <p>The payment is 80% upfront, which will be corrected upon publication of the average electricity price published in November. The average electricity prize and corrections change each year.</p> <p>Other prices:</p> <p>Bio-electricity from waste and water-cleaning installations (AVI's and AWZI and RWZI)</p>

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Base tariff 2008: 58 €/MWh 2009: 59 €/MWh	Correction 70 €/MWh	Feed-in 0
Duration of the Subsidy-contract -> 12 years Cap -> 2008: 8 MW; 2009: 5 MW		
Biogas from AVI and AWZI and RWZI		
Base tariff 2008: 0,277 €/Nm3 2009: 0,218 €/Nm3	Correction 2008: 0,243 €/Nm3 2009: 0,221€/Nm3	Feed-in 2008: 0,016 €/Nm3 0
Duration of the Subsidy-contract -> 12 years Cap -> 2008: 5 MW; 2009: 8 MW		
Base tariff 2008: 0,277 €/Nm3 2009: 0,218 €/Nm3	Correction 2008: 0,243 €/Nm3 2009: 0,221€/Nm3	Feed-in 2008: 0,016 €/Nm3 2009: 0
Duration of the Subsidy-contract -> 12 years Cap -> 2008: 5 MW; 2009: 8 MW		
Bio-electricity from waste. Installation (AVI's) with at least 22% efficiency		
Base tariff 2008: 115 – 137 €/MWh 2009: 117 – 140 €/MWh (22%- >31% efficiency)	Correction 146 €/MWh	Feed-in 0
Duration of the Subsidy-contract -> 15 years Cap -> 2008: 70 MW; 2009: 57 MW		

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20. Poland

	<i>Hydro</i>	<i>Wind</i>	<i>Biomass</i>	<i>Photovoltaic</i>	<i>Others</i>
Price	<ul style="list-style-type: none"> ▪ The guarantee price of electricity produced from renewable energy sources in 2009 is 155,44 PLN/MWh (35 euro/MWh, 1euro=4,4PLN); ▪ The substitution fee in 2009 is 259,89 PLN/MWh (59 euro/MWh, 1euro=4,4PLN); ▪ The green certificate price (June 2009) is ca. 250 PLN/MWh (57 euro/MWh, 1euro=4,4PLN). The average price of green certificate in 2008 was 241,01 PLN (when the substitution fee in 2008 was 248,46 PLN/MWh). 				
Support scheme	Quota obligation (certificates of origin/green certificates); The income from electricity produced from renewables consists of both <u>electricity price</u> and the <u>green certificates price</u> .				
Current applicable law	<ul style="list-style-type: none"> ▪ Act as of 10th May 1997, Energy Law Act (as amended) ▪ Order of the Polish Minister of Economy as of 14th August 2008 establishing detailed provisions on the obligation to acquire certificates of origin and submit them for collection, the obligation to pay a compensation fee, the obligation to purchase electric energy and heat generated from renewable energy sources, and the obligation to prove that the amount of energy generated from the respective source of energy stated is accurate. 				
Particularities	<ul style="list-style-type: none"> ▪ Electricity supply companies that are licensed to supply electricity to those domestic customers that have not exercised their right to choose a supplier are obliged to purchase at a guaranteed price electricity generated from renewable energy sources from electricity generators within their area of responsibility. The power stations shall be connected to the grid and meet certain 				

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	<p>technical requirements;</p> <ul style="list-style-type: none"> ▪ The electricity shall be purchased at a guaranteed price. The payment corresponds to the mean electricity price of the previous year, which is calculated by the regulatory authority (URE). ▪ In general, all renewable technologies are supported, but only electricity generated by Polish systems is eligible; ▪ All energy companies that sell electricity to final consumers that are connected to the Polish grid are obliged to fulfill a specified quota of green certificates, In order to provide evidence for the fulfillment of the quota, companies shall present certificates of origin/ green certificates. Upon request of the regulatory authority, green certificates are issued to those plant operators that generate electricity from renewable energy sources. Certificates of origin are transferable and may be acquired by either generating electricity from renewable energy or purchasing certificates from other producers. The institution, which is responsible for organizing trading in property rights arising from the certificates of origin is the Polish Power Exchange; ▪ As an alternative, the companies may pay a substitution fee; ▪ If a company fails to present certificates of origin or does not pay the fee, the regulatory authority of URE charges a penalty; ▪ Amount of quota per year (the share of the annual amount of sold electricity delivered to final users) is as follows: <ul style="list-style-type: none"> • 7.0% in 2008 • 8.7% in 2009 • 10.4% from 2010 to 2012 • 10.9% in 2013 • 11.4% in 2014 • 11.9% in 2015 • 12.4% in 2016 • 12.9% in 2017. ▪ Average electricity price for June 2009: 37 EUR (162,59 PLN/MWh, , 1euro = 4,4PLN)
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21. Portugal

	<i>Hydro</i>	<i>Wind</i>	<i>Biomass / Biogas</i>	<i>Photovoltaic</i>	<i>Others</i>
Price	85,9 €/MWh	94,5 €/MWh	105,3 €/MWh	below 5 kW: 420 €/MWh above 5 kW: 320 €/MWh	CHP: 99,7 €/MWh Urban waste: 78,2 €/MWh
Support scheme	Feed-in tariffs				
Current applicable law	Decree-Law 29/2006, 15th February (DL 29/2006) Decree-Law 33A-2005 (DI 33A-2005) Decree-Law 339C/2001, 29 th December (DL 312/2001)				
Particularities	Average prices for feed-in tariff in 2007				

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22. Romania

	<i>Hydro</i>	<i>Wind</i>	<i>Biomass</i>	<i>Photovoltaic</i>	<i>Other</i>
Price	55 €/MWh (average GC price in June 2009)				
Support scheme	Quota obligation system (tradable Certificates of Origin additional to the electricity market price)				
Current applicable law	A quota system with tradable green certificates (TGC) for new RES-E has been in place since 2004.				
Particularities	<p>The mandatory quota increase from 0.7% in 2005 to 8.3% in 2010.</p> <p>TGCs are issued to electricity production from wind, solar, biomass or hydro power generated in plants with less than 10 MW capacity.</p> <p>Average electricity market price for June 2009: 37 €/MWh</p>				

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23. Slovak Republic

	<i>Hydro</i>	<i>Wind</i>
Price	<p><u>up to 5 MW</u></p> <p>commissioned before 1 January 2005: 65.98 €/MWh</p> <p>commissioned after 1 January 2005, up to 1 MW: 79.84 €/MWh</p> <p>commissioned after 1 January 2005, above 1 MW: 93.04 €/MWh</p> <p>for increased output of refurbished installations, after 1 January 2005: 83.14 €/MWh</p>	<p>commissioned before 1 January 2005: 86.77 €/MWh</p> <p>new installations, commissioned as of 1 January 2005: 97.00 €/MWh</p> <p>installations older than 3 years, commissioned as of 1 January 2005: 65.98 €/MWh</p> <p>installations older than 3 years, commissioned as of 1 January 2008: 56.09 €/MWh</p>
Support scheme	Feed-in tariffs	
Current applicable law	Energy Act 2005 (as amended); Decree of the RONI of 30 June 2005 No. 2/2005, which lays down the scope of price regulation in the electric energy sector and the method of its implementation, scope and structure of eligible costs, method of determination of reasonable profit and background documents for price proposal; Ordinance of the government of the SR No. 124/2005 of 30 March 2005, which lays down rules for operation of the electricity market	
Particularities		

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	<i>Biomass/Biogas</i>	<i>Photovoltaic</i>	<i>Geothermal</i>
Price	<p style="text-align: center;"><u>Biomass</u></p> <p>Biomass from plantations dedicated to energy production -> 103.95 €/MWh Waste biomass, plant commissioned before 1 January 2005 -> 72.25 €/MWh Waste biomass, plant commissioned as of 1 January 2005 -> 97.66 €/MWh Waste biomass from bio-ethanol production -> 118.77 €/MWh</p> <p style="text-align: center;"><u>Co-firing of Biomass or Waste with fossil fuels</u></p> <p>Plant commissioned before 1 January 2005 -> 72.25 €/MWh Plant commissioned as of 1 January 2005 -> 87.43 €/MWh</p> <p style="text-align: center;"><u>Biogas</u></p> <p>Sewage and landfill gas -> 86.77 €/MWh Biogas from anaerobic digestion, up to 1 MW -> 142.20 €/MWh Biogas from anaerobic digestion, above 1 MW -> 128.67 €/MWh</p>	277.46 €/MWh	121.41 €/MWh
Support scheme	Feed-in tariffs		
Current applicable law	Energy Act 2005 (as amended); Decree of the RONI of 30 June 2005 No. 2/2005, which lays down the scope of price regulation in the electric energy sector and the method of its implementation, scope and structure of eligible costs, method of determination of reasonable profit and background documents for price proposal; Ordinance of the government of the SR No. 124/2005 of 30 March 2005, which lays down rules for operation of the electricity market		
Particularities			

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24. Slovenia

	Hydro	Wind	Photovoltaic	Geothermic
Price	< 50 kW: 105,47 €/MWh < 1 MW: 92,61 €/MWh up to 5 MW: 82,34 €/MWh	95,38 €/MWh	<u>On building or civil constructions:</u> < 50 kW: 415,46 €/MWh < 1 MW: 380,02 €/MWh up to 5 MW: 315,36 €/MWh <u>As part of a building and functionally replacing elements of the building:</u> < 50 kW: 477,78 €/MWh < 1 MW: 437,03 €/MWh up to 5 MW: 362,67 €/MWh <u>Self-standing structures:</u> < 50 kW: 390,42 €/MWh < 1 MW: 359,71 €/MWh up to 5 MW: 289,98 €/MWh	152,47 €/MWh
Support scheme	Feed-in tariffs (guaranteed purchase prices*)			
Current applicable law	Energy Law 1999 (as amended); Decree on support for electricity generated from Renewable Energy Sources (No. 37/2009) Methodology for determining Reference costs of electricity generated from renewable resources (No. 360-81/2009-1)			
Particularities	* The fixed part is determined every five years, or earlier if there are significant changes to the capital costs and other investment			

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	parameters. The variable part shall be determined annually or more frequently on the basis of forecast reference market prices of energy.
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Biomass					
Price	<p><u>Plants using wood as primary fuel (more than 90%)</u> < 50 kW: determined from case to case < 1 MW: 224,35 €/MWh (= 161,95 as fixed part + 62,40 as variable part) up to 5 MW: 167,43 €/MWh (= 115,52 as fixed part + 51,92 as variable part)</p> <p><u>Biogas obtained from biomass</u> < 50 kW: 160,05 €/MWh (= 118,72 as fixed part + 41,33 as variable part) < 1 MW: 155,76 €/MWh (= 111,76 as fixed part + 44 as variable part) up to 5 MW: 140,77 €/MWh (= 96,18 as fixed part + 44,19 as variable part)</p> <table style="width: 100%; border: none;"> <tr> <td style="vertical-align: top; width: 50%;"> <p><u>Biogas obtained from biodegradable waste</u> < 50 kW: 139,23 €/MWh up to 5 MW: 129,15 €/MWh</p> </td> <td style="vertical-align: top; width: 50%;"> <p><u>Gas derived from sludge from wastewater treatment plants</u> < 50 kW: 85,84 €/MWh < 1 MW: 74,42 €/MWh up to 5 MW: 66,09 €/MWh</p> </td> </tr> <tr> <td style="vertical-align: top;"> <p><u>Plants using landfill gas</u> < 50 kW: 99,33 €/MWh < 1 MW: 67,47 €/MWh up to 5 MW: 61,67 €/MWh</p> </td> <td style="vertical-align: top;"> <p><u>Plants using biodegradable waste</u> < 50 kW: n.a. < 1 MW: 77,44 €/MWh up to 5 MW: 74,34 €/MWh</p> </td> </tr> </table>	<p><u>Biogas obtained from biodegradable waste</u> < 50 kW: 139,23 €/MWh up to 5 MW: 129,15 €/MWh</p>	<p><u>Gas derived from sludge from wastewater treatment plants</u> < 50 kW: 85,84 €/MWh < 1 MW: 74,42 €/MWh up to 5 MW: 66,09 €/MWh</p>	<p><u>Plants using landfill gas</u> < 50 kW: 99,33 €/MWh < 1 MW: 67,47 €/MWh up to 5 MW: 61,67 €/MWh</p>	<p><u>Plants using biodegradable waste</u> < 50 kW: n.a. < 1 MW: 77,44 €/MWh up to 5 MW: 74,34 €/MWh</p>
<p><u>Biogas obtained from biodegradable waste</u> < 50 kW: 139,23 €/MWh up to 5 MW: 129,15 €/MWh</p>	<p><u>Gas derived from sludge from wastewater treatment plants</u> < 50 kW: 85,84 €/MWh < 1 MW: 74,42 €/MWh up to 5 MW: 66,09 €/MWh</p>				
<p><u>Plants using landfill gas</u> < 50 kW: 99,33 €/MWh < 1 MW: 67,47 €/MWh up to 5 MW: 61,67 €/MWh</p>	<p><u>Plants using biodegradable waste</u> < 50 kW: n.a. < 1 MW: 77,44 €/MWh up to 5 MW: 74,34 €/MWh</p>				
Support scheme	Feed-in tariffs (guaranteed purchase prices*)				
Current applicable law	Energy Law 1999 (as amended); Decree on support for electricity generated from Renewable Energy Sources (No. 37/2009) Methodology for determining Reference costs of electricity generated from renewable resources (No. 360-81/2009-1)				

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Particularities	* The fixed part is determined every five years, or earlier if there are significant changes to the capital costs and other investment parameters. The variable part shall be determined annually or more frequently on the basis of forecast reference market prices of energy.

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25. Spain

2008	Hydro	Wind	Biomass	
Price	<u>Tariff</u>	<u>Tariff</u>	<u>Plants combusting biomass from plantations dedicated to energy production</u>	
	- up to 10 MW: 80.61 €/MWh for the first 25 years 72.55 €/MWh from then on - from 10 up to 50 MW: variable *	- Onshore: 75.68 €/MWh for the first 20 years 63.25 €/MWh from then on - Offshore: **	<u>Tariff</u>	<u>Premium</u>
	<u>Premium</u>	<u>Premium</u>	Plants up to 2 MW: 164,21 €/MWh for the first 15 years 121.88 €/MWh from then on	119.15 €/MWh for the first 15 years 0.00 €/MWh from then on
	- up to 10 MW 25.88 €/MWh for the first 25 years 13.89 €/MWh from then on - from 10 up to 50 MW	- Onshore: 30.27 €/MWh for the first 2 years 0.00 €/MWh from then on	Plants above 2 MW: 151.50 €/MWh for the first 15 years 83.36 €/MWh from then on	104.34 €/MWh for the first 15 years 0.00 €/MWh from then on
			<u>Plants combusting agricultural and gardening residues</u>	
			<u>Tariff</u>	<u>Premium</u>
			Plants up to 2 MW: 129.92 €/MWh for the first 15 years	84.86 €/MWh for the first 15 years

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	21.74 €/MWh for the first 25 years 13.89 €/MWh from then on	- Offshore: 87.12 €/MWh	87.59 €/MWh from then on Plants above 2 MW: 111.14 €/MWh for the first 15 years 83.36 €/MWh from then on <u>Plants combusting forestry residues</u> <u>Tariff</u> Plants up to 2 MW: 129.92 €/MWh for the first 15 years 87.59 €/MWh from then on Plants above 2 MW: 122.25 €/MWh for the first 15 years 83.36 €/MWh from then on	0.00 €/MWh from then on 63.98 €/MWh for the first 15 years 0.00 €/MWh from then on <u>Premium</u> 84.86 €/MWh for the first 15 years 0.00 €/MWh from then on 75.10 €/MWh for the first 15 years 0.00 €/MWh from then on
Support scheme	Feed-in tariff or Premium (+ electricity market price***)			
Current	Real Decreto 661/2007, de 25 de mayo, por el que se regula la actividad de producción de energía eléctrica en régimen especial			

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applicable law	(Royal Decree, regulating the production of electric energy subject to special regime); <u>Orden ITC/3860/2007, de 28 de diciembre</u> , por la que se revisan las tarifas eléctricas a partir del 1 de enero de 2008, Annex V No. 3 (Order regulating the electricity tariffs as of 1 January 2008); Royal Decree 1578/2008 from September 2008
Particularities	*) depending on capacity of the installation (special calculation mode); **) according to the Royal Decree 1028/2007, of 20 July, for offshore wind energy installations just a premium exists (in addition to the electricity market price, up to a total amount of 169.49 €/MWh) cf. <u>Orden ITC/3860/2007, de 28 de diciembre</u> , por la que se revisan las tarifas eléctricas a partir del 1 de enero de 2008, Annex V. No. 3 ***) Average electricity market price for 2008: 64,40 €/MWh

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2008	<i>Biogas</i>		<i>Solar energy</i>	<i>Geothermic</i>																					
Price	<u>Plants combusting landfill gas</u> <table border="0"> <tr> <td></td> <td style="text-align: center;"><u>Tariff</u></td> <td style="text-align: center;"><u>Premium</u></td> </tr> <tr> <td>Plants up to 2 MW:</td> <td>82.59 €/MWh the first 15 years</td> <td>39.05 €/MWh the first 15 years</td> </tr> <tr> <td></td> <td>67.28 €/MWh from then on</td> <td>0.00 €/MWh from then on</td> </tr> </table> <u>Plants combusting biogas generated in digestors</u> (Industrial bio waste, sewage gas, urban solid waste, agricultural and farming residues etc.) <table border="0"> <tr> <td></td> <td style="text-align: center;"><u>Tariff</u></td> <td style="text-align: center;"><u>Premium</u></td> </tr> <tr> <td>up to 500 kW:</td> <td>135.06 €/MWh the first 15 years</td> <td>109.06 €/MWh the first 15 years</td> </tr> <tr> <td></td> <td>67.28 €/MWh from then on</td> <td>0.00 €/MWh from then on</td> </tr> <tr> <td>above 500 kW:</td> <td>100.04 €/MWh the first 15 years</td> <td>59.70 €/MWh the first 15 years</td> </tr> </table>			<u>Tariff</u>	<u>Premium</u>	Plants up to 2 MW:	82.59 €/MWh the first 15 years	39.05 €/MWh the first 15 years		67.28 €/MWh from then on	0.00 €/MWh from then on		<u>Tariff</u>	<u>Premium</u>	up to 500 kW:	135.06 €/MWh the first 15 years	109.06 €/MWh the first 15 years		67.28 €/MWh from then on	0.00 €/MWh from then on	above 500 kW:	100.04 €/MWh the first 15 years	59.70 €/MWh the first 15 years	<u>Photovoltaic</u> - up to 100 kW: 455.13 €/MWh for the first 25 years 364.10 €/MWh from then on - 100 kW up to 10 MW: 431.48 €/MWh for the first 25 years 345.18 €/MWh from then on - 10 up to 50 MW: 237.46 €/MWh for the first 25 years 189.96 €/MWh from then on	<u>Tariff</u> 71.20 €/MWh for the first 20 years 67.28 €/MWh from then on <u>Premium</u> 39.73 €/MWh for he first 20 years 31.62 €/MWh from then on
	<u>Tariff</u>	<u>Premium</u>																							
Plants up to 2 MW:	82.59 €/MWh the first 15 years	39.05 €/MWh the first 15 years																							
	67.28 €/MWh from then on	0.00 €/MWh from then on																							
	<u>Tariff</u>	<u>Premium</u>																							
up to 500 kW:	135.06 €/MWh the first 15 years	109.06 €/MWh the first 15 years																							
	67.28 €/MWh from then on	0.00 €/MWh from then on																							
above 500 kW:	100.04 €/MWh the first 15 years	59.70 €/MWh the first 15 years																							

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	67.28 €/MWh from then on	0.00 €/MWh from then on	<u>Thermo-electric</u> 278.39 €/MWh for the first 25 years 222.71 €/MWh from then on	
Support scheme	Feed-in tariff or Premium (+ electricity market price*)		Feed-in tariff	Feed-in tariff or Premium
Current applicable law	Real Decreto 661/2007, de 25 de mayo, por el que se regula la actividad de producción de energía eléctrica en régimen especial (Royal Decree, regulating the production of electric energy subject to special regime); <u>Orden ITC/3860/2007, de 28 de diciembre</u> , por la que se revisan las tarifas eléctricas a partir del 1 de enero de 2008, Annex V No. 3 (Order regulating the electricity tariffs as of 1 January 2008)			
Particularities	*) Average electricity market price for 2008: 64,40 €/MWh			

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2009	Hydro						
Price	<u>Tariff</u>			<u>Premium</u>			
	Power	For 25 years	After 25 years	Power	For 25 years	After 25 years	Limits
	Q < 10 MW	83,28	74,95	Q < 10 MW	26,74	14,35	Max: 90,96
	10 MW < Q < 50 MW	-	-				Min: 69,61
				10 MW < Q < 50 MW	22,47	14,35	Max: 85,41
							Min: 65,34
Support scheme	Feed-in tariff or Premium (+ electricity market price*)						
Current applicable law	<p>Act 17/2007, dated July 4, 2007 (modifying Act 54/1997).</p> <p>Royal Decree 2019/1997, dated December 26, 1997 (concerning the organization and regulation of the electricity production market).</p> <p>Royal Decree 2017/1997, dated December 26, 1997 (concerning the payment procedure for transport, distribution and marketing costs at rate, permanent system costs and diversification costs).</p> <p>Royal Decree 1955/2000, dated December 1, 2000 (regulating the activities of transport, distribution, commercialization, supply and authorization procedures for electrical power plants).</p> <p>Royal Decree 661/2007, dated May 25, 2007 (concerning the regulation of electricity production under the special regime).</p>						
Particularities	<p>*) Average electricity market price for the period January – July 2009: 39,20 €/MWh</p> <p>All figures have been rounded up (ex: 83,278 -> 83,28)</p>						

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2009	Wind						
Price	<u>Tariff</u>			<u>Premium</u>			
		For 20 years	After 20 years		For 20 years	After 20 years	Limits
	On-shore	78,18	65,34	On-shore	31,27	-	Max: 90,69
	Off-shore	-	-				Min: 76,10
				Off-shore	90,01		Max: 169,49
							Min: -
Support scheme	Feed-in tariff or Premium (+ electricity market price*)						
Current applicable law	<p>Act 17/2007, dated July 4, 2007 (modifying Act 54/1997).</p> <p>Royal Decree 2019/1997, dated December 26, 1997 (concerning the organization and regulation of the electricity production market).</p> <p>Royal Decree 2017/1997, dated December 26, 1997 (concerning the payment procedure for transport, distribution and marketing costs at rate, permanent system costs and diversification costs).</p> <p>Royal Decree 1955/2000, dated December 1, 2000 (regulating the activities of transport, distribution, commercialization, supply and authorization procedures for electrical power plants).</p> <p>Royal Decree 661/2007, dated May 25, 2007 (concerning the regulation of electricity production under the special regime).</p>						
Particularities	<p>*) Average electricity market price for the period January – July 2009: 39,20 €/MWh</p> <p>All figures have been rounded up (ex: 83,278 -> 83,28)</p>						

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2009	Biomass/Biogas			
Price	<u>Tariff</u>			
	Energy cultures			
		For 15 years	After 15 years	
	≤ 2 MW	169,64	125,91	
	> 2 MW	156,51	131,82	
	Agricultural residues			
		For 15 years	After 15 years	
	≤ 2 MW	134,22	90,49	
	> 2 MW	114,82	86,12	
	Forestry residues			
		For 15 years	After 15 years	
	≤ 2 MW	134,22	90,49	
	> 2 MW	126,30	86,12	
	Biogas from dumps			
		For 15 years	After 15 years	
		85,33	69,50	
<u>Premium</u>				
Energy cultures				
	For 15 years	Limits		
		Max	Min	
≤ 2 MW	127,89	177,55	164,53	
> 2 MW	112,59	161,11	152,36	
Agricultural residues				
	For 15 years	Limits		
		Max	Min	
≤ 2 MW	92,46	142,11	129,08	
> 2 MW	70,89	119,47	110,81	
Forestry residues				
	For 15 years	Limits		
		Max	Min	
≤ 2 MW	92,46	142,11	129,08	
> 2 MW	82,38	130,90	122,14	
Biogas from dumps				
	For 15 years	Limits		
		Max	Min	
	45,13	95,66	79,43	

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Gas from residues in biodigestors			Gas from residues in biodigestors		
	For 15 years	After 15 years		For 15 years	Limits
≤ 500 kW	139,53	69,50			Max
> 500 kW	103,35	69,50	≤ 500 kW	109,10	163,67
			> 500 kW	66,47	117,76
					Min
					131,86
					101,96
Fuel from manure and liquid biofuels			Fuel from manure and liquid biofuels		
	For 15 years	After 15 years		For 15 years	Limits
		57,23			Max
				37,72	88,94
					Min
					54,45
Residues from agricultural industries			Residues from agricultural industries		
	For 15 years	After 15 years		For 15 years	Limits
≤ 2 MW	134,21	90,49			Max
> 2 MW	114,82	86,12	≤ 2 MW	92,46	142,11
			> 2 MW	70,89	119,47
					Min
					129,08
					110,81
Residues from forestry industries			Residues from forestry industries		
	For 15 years	After 15 years		For 15 years	Limits
≤ 2 MW	99,08	69,50			Max
> 2 MW		69,48	≤ 2 MW	57,34	106,98
			> 2 MW	25,56	74,10
					Min
					93,85
					65,34
Black liquors			Black liquors		
	For 15 years	After 15 years		For 15 years	Limits
≤ 2 MW	99,08	69,50			Max
> 2 MW	85,41	69,48	≤ 2 MW	59,99	106,98
			> 2 MW	39,17	96,09
					Min
					80,07

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Support scheme	Feed-in tariff or Premium (+ electricity market price*)
Current applicable law	<p>Act 17/2007, dated July 4, 2007 (modifying Act 54/1997).</p> <p>Royal Decree 2019/1997, dated December 26, 1997 (concerning the organization and regulation of the electricity production market).</p> <p>Royal Decree 2017/1997, dated December 26, 1997 (concerning the payment procedure for transport, distribution and marketing costs at rate, permanent system costs and diversification costs).</p> <p>Royal Decree 1955/2000, dated December 1, 2000 (regulating the activities of transport, distribution, commercialization, supply and authorization procedures for electrical power plants).</p> <p>Royal Decree 661/2007, dated May 25, 2007 (concerning the regulation of electricity production under the special regime).</p>
Particularities	<p>*) Average electricity market price for the period January – July 2009: 39,20 €/MWh</p> <p>All figures have been rounded up (ex: 83,278 -> 83,28)</p>

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2009	Solar Energy					
Price	<u>Tariff</u>			<u>Premium</u>		
	Photovoltaic			Photovoltaic		
		For 25 years	Caps MW		For 25 years	Limits
	Building P ≤ 20 kW	340	26,70			Max Min
	Building 20 kW ≤ P ≤ 2 MW	320	240,30	-	-	-
	Floor P ≤ 10MW	320	133,00	-	-	-
Thermoelectric (CSP – Concentrating Solar Power)			Thermoelectric (CSP – Concentrating Solar Power)			
	For 25 years	After 25 years		For 25 years	After 25 years	Limits
	287,60	230,08				Max Min
			271,19	216,95	367,25 271,23	
Support scheme	Feed-in tariff or Premium (+ electricity market price*)					
Current applicable law	<p>Act 17/2007, dated July 4, 2007 (modifying Act 54/1997).</p> <p>Royal Decree 2019/1997, dated December 26, 1997 (concerning the organization and regulation of the electricity production market).</p> <p>Royal Decree 2017/1997, dated December 26, 1997 (concerning the payment procedure for transport, distribution and marketing costs at rate, permanent system costs and diversification costs).</p> <p>Royal Decree 1955/2000, dated December 1, 2000 (regulating the activities of transport, distribution, commercialization, supply and authorization procedures for electrical power plants).</p> <p>Royal Decree 661/2007, dated May 25, 2007 (concerning the regulation of electricity production under the special regime).</p>					
Particularities	<p>*) Average electricity market price for the period January – July 2009: 39,20 €/MWh</p> <p>All figures have been rounded up (ex: 83,278 -> 83,28)</p>					

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2009	Other: Geothermal, Waves, Tidal, Dry hot rocks, Ocean–thermal, Sea current					
Price	<u>Tariff</u>			<u>Premium</u>		
		For 20 years	After 20 years		For 20 years	After 20 years
		73,56	69,50		41,05	32,67
Support scheme	Feed-in tariff or Premium (+ electricity market price*)					
Current applicable law	<p>Act 17/2007, dated July 4, 2007 (modifying Act 54/1997).</p> <p>Royal Decree 2019/1997, dated December 26, 1997 (concerning the organization and regulation of the electricity production market).</p> <p>Royal Decree 2017/1997, dated December 26, 1997 (concerning the payment procedure for transport, distribution and marketing costs at rate, permanent system costs and diversification costs).</p> <p>Royal Decree 1955/2000, dated December 1, 2000 (regulating the activities of transport, distribution, commercialization, supply and authorization procedures for electrical power plants).</p> <p>Royal Decree 661/2007, dated May 25, 2007 (concerning the regulation of electricity production under the special regime).</p>					
Particularities	<p>*) Average electricity market price for the period January – July 2009: 39,20 €/MWh</p> <p>All figures have been rounded up (ex: 83,278 -> 83,28)</p>					

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26. Sweden

	<i>Hydro</i>	<i>Wind</i>	<i>Biomass</i>	<i>Photovoltaic</i>	<i>Other</i>
Price	23.76 €/Certificate* (+ average electricity market price: 45 €/MWh)				
Support scheme	Quota obligation system (tradable Green Certificates additional to the electricity market price)				
Current applicable law	Lag om elcertifikat (2003:113) (electricity certificate system came into force 1 May 2003)				
Particularities	*) 224.89 Skr/Elcertifikat (in the period of 28 July 2007 to 28 July 2008)				

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27. United Kingdom

	<i>Hydro</i>	<i>Wind</i>	<i>Biomass</i>	<i>Photovoltaic</i>	<i>Others</i>
Price	60,99 €/MWh *				
Support scheme	Quota obligation system** (tradable Green Certificates additional to the electricity market price)				
Current applicable law	<p>The Climate Change and Sustainable Energy Act 2006 (as amended in 2008)</p> <p>2008 Energy Act</p> <p>England and Wales: The Renewables Obligation Order 2009 (No. 785) dated 24/03/2009</p> <p>Scotland: The Renewables Obligation Order 2009 (No. 140), dated 31/03/2009</p> <p>Nothern Ireland: The Renewables Obligation Order 2009 (No. 154), dated 27/03/2009</p>				
Particularities	<p>Feed in Tariffs system expected to enter into force as from April 2010 (Energy Act 2008)</p> <p>*) £ 52,45. Average price of ROCs (Renewable Obligation Certificates) for the period January/July 2009. Exchange rate: 1 £ = 1,162 €</p> <p>***) The non-compliance 'buy-out' price for 2008-2009 was set at 35,76 £/MWh (approx. 44.87 €/MWh), which will be annually adjusted in line with the retail price index.</p> <p>Electricity market price for the period January/July 2009: 46,82 €/MWh (40,29 £/MWh, exchange rate: 1 £ = 1,162 €)</p> <p>The FIT mechanism may have the following tariff structure according to the official proposal:</p>				

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Renewable Tariffs in Great Britain (Proposed)						
	07/21/09					
		Tariff				
		1.1564	1.57323	1.41779		
	Years	£/kWh	€/kWh	CAD/kWh	USD/kWh	Degression
Wind Energy	20					
<1.5 kW		0.305	0.353	0.555	0.500	0
>1.5 kW<15 kW		0.230	0.266	0.418	0.377	0
>15 kW<50 kW		0.205	0.237	0.373	0.336	0
>50 kW<250 kW		0.180	0.208	0.327	0.295	0
>250 kW<500 kW		0.160	0.185	0.291	0.262	0
>500 kW<5 MW		0.045	0.052	0.082	0.074	0
Solar PV	20					
<4 kW		0.310	0.358	0.564	0.508	-7%
<4 kW Retrofit		0.365	0.422	0.664	0.598	-7%
>4 kW<10 kW		0.310	0.358	0.564	0.508	-7%
>10 kW<100 kW		0.280	0.324	0.509	0.459	-7%
>100 kW<5 MW		0.260	0.301	0.473	0.426	-7%
Stand Alone System		0.260	0.301	0.473	0.426	-7%
Hydro	20					
<10 kW		0.170	0.197	0.309	0.279	0
>10 kW<100 kW		0.120	0.139	0.218	0.197	0
>100 kW<1 MW		0.085	0.098	0.155	0.139	0
>1 MW<5 MW		0.045	0.052	0.082	0.074	0
Anaerobic Digestion	20					
Electricity Only		0.090	0.104	0.164	0.148	0
CHP		0.115	0.133	0.209	0.189	0
Biomass	20					
<50 kW		0.090	0.104	0.164	0.148	0
<50 kW<5 MW		0.045	0.052	0.082	0.074	0
CHP		0.090	0.104	0.164	0.148	0
Bonus for Export	20	0.050	0.058	0.091	0.082	0
Existing microgenerators transferred from RO.	20	0.090	0.104	0.164	0.148	

Begins April 10, 2010 though systems installed up to that time can qualify.

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