

Borzen, Power Market Operator

## Determination of the level of support for electricity generated from RES and CHP and the level of support in 2012\*

Ljubljana, 27. 12. 2011

(\*) for power plants entering the new support system, defined by the Act amending the Energy Act (EZ-C)

## Legal notice

This is an UNOFFICIAL calculation of the level of support for 2012. The official calculation is performed on the basis of regulations in force and a final decision allocating support, issued by the Energy Agency of the Republic of Slovenia on the basis of an application by the beneficiary.

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## Types of support

In their application for the decision allocating support, sent to the Energy Agency of the Republic of Slovenia, the beneficiary decides what type of support they would like to receive from the Centre for RES/CHP support. The following types are possible:

- *OS - Operating support*
- *GP - Guaranteed purchase*

If the beneficiary decides for **operating support**, this means that they have concluded an open contract on the market ("the market agreement for the sale of electricity"). The beneficiary issues separate invoices: for electricity to their supplier / trader and for support to Borzen (The Centre for RES/CHP support).

**Guaranteed purchase** means that a power plant enters the Centre for RES/CHP support's balance group that operates within Borzen. In such a case the beneficiary sells electricity to the Centre for RES/CHP support and issues a uniform invoice at the price for guaranteed purchase. In this case the producer does not and is not permitted to conclude a separate market agreement for the sale of electricity.

The producer can receive **one or the other type of support**, but they cannot receive both simultaneously. **The right to choose the type of support (GP / OS) is given to RES units up to 5 MW and CHP units below 1 MW**, except for all types of wood biomass co-firing where GP is not possible. Larger units can receive support only as OS.

## Methodological determination of the level of support

The level of operating support or guaranteed purchase is determined on the basis of reference costs published in the Methodologies for Determining Reference Costs. They are composed of fixed and variable reference costs:

*Reference costs = Fixed reference costs + Variable reference costs*

**The fixed part of reference costs** is methodologically determined every five years, or earlier if there are significant changes to capital costs and other investment parameters. They are determined on the basis of investment costs and operating costs. Once the producer enters the system, their fixed reference costs remain the same for the entire duration of receiving support.

**Variable reference costs** are determined only for those RES generating plants where the input fuel represents a financial cost. The variable part of the reference costs shall be determined annually on the basis of changes to the reference market price of electricity and input fuels - determined by the Energy Agency of the Republic of Slovenia.

In accordance with the methodology, for some power plants (such as solar, hydro or wind power plants) all reference costs are defined as fixed; this means that the GP price after entering the system remains fixed and the OS level changes with regard to the reference market price of electricity, published annually by the Energy Agency of the Republic of Slovenia.

## SPECIFIC NATURE OF SOLAR PV POWER PLANTS

It is stipulated in the methodology that the reference costs for solar power plants shall be reduced each year. **A change in legislation (Off. Gazette, 105/2011) stipulates that the levels for the first half of 2012 will be 30% lower than year 2009 levels, while levels for the second half of 2012 will be 40% lower than year 2009 levels.**

When entering the support system the costs become fixed and do not change anymore in the case of the power plant in question. For example: The decision allocating support stipulates reference costs for 2010. The reference costs amount to (level for 2009 \* 0.93). These reference costs serve as the basis for the determination of the level of support for 2010 and all subsequent years, even if, for example, the power plant changes the type of support in three years.

For outdoor solar power plants (not on buildings) additional restrictions already apply in the issuance of the decision allocating support pursuant to Article 14 of the relevant Decree for RES. **Due to a change in legislation (Off. Gazette, 94/2010) the "integration bonus" ends in 2011. Integrated solar PV power plants with building permits issued until 30.9.2011, that are connected to the grid until 31.12.2011 are still eligible for the bonus. Existing plants keep the bonus. Solar PV plants with 2012 reference costs are thus not eligible for this bonus.**

## Determination of the level of support

$GP \text{ level (year } i) = \text{reference costs (year } i)$

$OS \text{ level (year } i) = \text{reference costs (year } i) - (\text{reference price of electricity (year } i) * \text{factor } B)$

Reference market price of electricity 2012 = 55.79 EUR/MWh

Reference market price of electricity 2011 = 53.13 EUR/MWh

Reference market price of electricity 2010 = 53.41 EUR/MWh

Reference market price of electricity 2009 = 65 EUR/MWh

*B factor -> reflects constancy of production, size of plant and its perceived achievable market price (see tables below)*

## Unofficial English translations of relevant legislation

1. Decree on Support for Electricity Generated from Renewable Energy Sources)
2. Methodology for Determining Reference Costs of Electricity Generated from Renewable Resources<sub>1</sub>
3. Decree on Support for Electricity Produced in High-Efficiency Cogeneration of Heat and Power)
4. Methodology for Determining the Reference Costs for High-Efficiency Cogeneration

Links to unofficial translations (**WARNING: The translations may not include all valid law / decree amendments!**) are available on the following web page: <http://www.borzen.si>

# UNOFFICIAL CALCULATIONS OF THE LEVELS OF SUPPORT for 2012 for RES

**NOTE: Calculations do not take into consideration any supplements or deductions because of, for example, subsidies received!**

## 1. Hydroelectric power plants

1. Hydroelectric power plants	Reference costs	B factor	GP Price (EUR/MWh)*	OS Level (EUR/MWh)
micro - less than 50 kW	105,47	0,86	105,47	57,49
small - less than 1 MW	92,61	0,86	92,61	44,63
medium - from 1 MW up to 10 MW	82,34	0,90	82,34	32,13
large - over 10 MW up to 125 MW	76,57	0,90	/	26,36

\*2012 guaranteed purchase price is identical to 2009 and 2010 and 2011 guaranteed purchase price

## 2. Wind power plants

2. Wind power plants	Reference costs	B factor	GP Price (EUR/MWh)*	OS Level (EUR/MWh)
micro - less than 50 kW	95,38	0,80	95,38	50,75
small - less than 1 MW	95,38	0,80	95,38	50,75
medium - from 1 MW up to 10 MW	95,38	0,80	95,38	50,75
large - over 10 MW up to 125 MW	86,74	0,86	/	38,76

\*2012 guaranteed purchase price is identical to 2009 and 2010 and 2011 guaranteed purchase price

## 3. Solar PV power plants

3.1 Solar power plants - on buildings	Faktor B	REFERENCE COSTS 2009		REFERENCE COSTS 2010		REFERENCE COSTS 2011		REFERENCE COSTS 2012***	
		GP Price (EUR/MWh) 2012	OS Level (EUR/MWh) 2012	GP Price (EUR/MWh) 2012	OS Level (EUR/MWh) 2012	GP Price (EUR/MWh) 2012	OS Level (EUR/MWh) 2012	GP Price (EUR/MWh) 2012	OS Level (EUR/MWh) 2012
micro - less than 50 kW	0,88	415,46	366,36	386,38	337,28	332,37	283,27	290,82 / 249,28	241,72 / 200,18
small - less than 1 MW	0,88	380,02	330,92	353,42	304,32	304,02	254,92	266,01 / 228,01	216,91 / 178,91
medium - from 1 MW up to 10 MW	0,91	315,36	264,59	293,28	242,51	252,29	201,52	220,75 / 189,22	169,98 / 138,45
large - over 10 MW up to 125 MW	1	/	224,92	/	205,27	/	168,78	/	140,71 / 112,64
Solar power plants – integrated**	Faktor B	GP Price (EUR/MWh) 2012	OS Level (EUR/MWh) 2012	GP Price (EUR/MWh) 2012	OS Level (EUR/MWh) 2012	GP Price (EUR/MWh) 2012	OS Level (EUR/MWh) 2012	GP Price (EUR/MWh) 2012	OS Level (EUR/MWh) 2012
micro - less than 50 kW	0,88	477,78	428,68	444,34	395,24	382,23	333,13	/	/
small - less than 1 MW	0,88	437,02	387,92	406,43	357,33	349,62	300,52	/	/
medium - from 1 MW up to 10 MW	0,91	362,66	311,89	337,27	286,50	290,13	239,36	/	/
large - over 10 MW up to 125 MW	1	/	267,03	/	244,43	/	202,47	/	/
3.2 Solar power plants - self-standing structures	Faktor B	GP Price (EUR/MWh) 2012	OS Level (EUR/MWh) 2012	GP Price (EUR/MWh) 2012	OS Level (EUR/MWh) 2012	GP Price (EUR/MWh) 2012	OS Level (EUR/MWh) 2012	GP Price (EUR/MWh) 2012	OS Level (EUR/MWh) 2012
micro - less than 50 kW	0,88	390,42	341,32	363,09	313,99	312,34	263,24	273,29 / 234,25	224,19 / 185,15
small - less than 1 MW	0,88	359,71	310,61	334,53	285,43	287,77	238,67	251,80 / 215,83	202,70 / 166,73
medium - from 1 MW up to 10 MW	0,91	289,98	239,21	269,68	218,91	231,98	181,21	202,99 / 173,99	152,22 / 123,22
large - over 10 MW up to 125 MW	1	/	213,43	/	194,58	/	159,59	/	132,66 / 105,74

\*Guaranteed purchase price is identical to the reference costs; reference costs for integrated power plants are 15% higher than those in class 3.1.

\*\* Due to a change in legislation (Off. Gazette, 94/2010) the “integration bonus” ends in 2011. Integrated solar PV power plants with building permits issued until 30.9.2011, that are connected to the grid until 31.12.2011 are still eligible for the bonus. Existing plants keep the bonus.

\*\*\* Due to a change in legislation (Off. Gazette, 105/2011) the reference costs for 2012 plants are updated twice (first and second half of year). Therefore there are two support levels – one (higher) for plants built in the first half and another for plants in the second half of 2012.

#### 4. Geothermal power plants

4. Geothermal power plants	Reference costs	B factor	GP Price* (EUR/MWh)	OS Level (EUR/MWh)
micro - less than 50 kW	152,47	0,92	152,47	101,14
small - less than 1 MW	152,47	0,92	152,47	101,14
medium - from 1 MW up to 10 MW	152,47	0,92	152,47	101,14
large - over 10 MW up to 125 MW	(determined individually)	0,92	/	(determined individually)

\*2012 guaranteed purchase price is identical to 2009 and 2010 and 2011 guaranteed purchase price

Where the annual useful heat deployment exceeds 30% of the input geothermal energy, the RES generating plant shall be eligible to a supplement of 10% of the operating support for this RES generating plant.

#### 5. Wood biomass power plants

##### 5.1 Power plants using wood biomass

5.1 Power plants using wood biomass	2009 variable costs - VPRC(0)	B factor	Reference costs 2012	GP Price (EUR/MWh)	OS Level (EUR/MWh)
micro - less than 50 kW	(determined individually)	0,88	(determined individually)	(determined individually)	(determined individually)
small - less than 1 MW	62,40	0,91	246,29	246,29	195,52
medium - from 1 MW up to 10 MW	51,92	0,92	185,70	185,70	134,37
large - over 10 MW up to 125 MW	(determined individually)	0,92	(determined individually)	/	(determined individually)

For the division of reference costs into variable and fixed costs see relevant RES Decree and its Annexes.

##### 5.2 Wood biomass co-firing where wood biomass represents more than 5% of the total primary energy fuel input

5.2. Wood biomass co-firing >5%	2009 variable costs - VPRC (0)	B factor	Reference costs 2012	GP Price (EUR/MWh)	OS Level (EUR/MWh)
micro - less than 50 kW	51,20	0,88	120,54	GP not possible	71,44
small - less than 1 MW	51,20	0,91	120,54	GP not possible	69,77
medium - from 1 MW up to 10 MW	51,20	0,92	120,54	GP not possible	69,21
large - over 10 MW up to 125 MW	(determined individually)	0,92	(determined individually)	/	(determined individually)

For the division of reference costs into variable and fixed costs see relevant RES Decree and its Annexes.

For the use of wood biomass from source A1, Annex V to the Decree on Support for Electricity Generated from Renewable Energy Sources (RES), bearing certificates of sustainable wood biomass production, the variable part of the reference costs given in points 5.1 and 5.2 shall be increased by 10%.

For the use of wood biomass from source A2, Annex V to the Decree on Support for Electricity Generated from Renewable Energy Sources (RES), the variable part of the reference costs given in points 5.1 and 5.2 shall be decreased by 10%.

For the use of wood biomass from source A3, Annex V to the Decree on Support for Electricity Generated from Renewable Energy Sources (RES), the variable part of the reference costs given in points 5.1 and 5.2 shall be decreased by 35%.

In their application for a decision allocating support, the beneficiary shall inform the Energy Agency of the Republic of Slovenia of the structure of the sources used. The structure shall be determined or confirmed in the decision. The beneficiary shall inform the Centre for RES/CHP support of the shares of individual sources in their application for the Agreement, which is sent to the beneficiary by the Centre of RES/CHP support on the basis of the issued decision. On the basis of these shares, the Centre for RES/CHP support calculates the weighted reduction or increase of the level of support.

### 5.3 Adjusting the variable part of reference costs for RES generating plants using biomass

Based on the published methodology, the variable part of reference costs shall be adjusted in line with changes to the prices of wood biomass (contained in the forecast published by the Energy Agency of the Republic of Slovenia) on the basis of the following equation:

$$VPRC(i) = I_{wb} * VPRC(0)$$

VPRC (i) is the variable part of the reference costs for the coming year in EUR/MWh

VPRC (0) is the baseline variable part of the reference costs for the year 2009 in EUR/MWh

$I_{wb}$  is the index of the wood biomass price; for 2012 = 1,35161

The total reference costs shall also be changed in line with the changed variable part of the reference costs.

## 6. Power plants using biogas

### 6.1 Biogas obtained from biomass

6.1 Biogas obtained from biomass	2009 variable costs - VPRC (0)	B factor	Reference costs 2012	GP Price (EUR/MWh)	OS Level (EUR/MWh)
micro - less than 50 kW	41,33	0,88	160,56	<b>160,56</b>	<b>111,46</b>
small - less than 1 MW	44,00	0,91	156,31	<b>156,31</b>	<b>105,54</b>
medium - from 1 MW up to 10 MW	44,59	0,92	141,42	<b>141,42</b>	<b>90,09</b>
large - over 10 MW up to 125 MW	/	1	/	/	/

For the division of reference costs into variable and fixed costs see relevant RES Decree and its Annexes. Support is not intended for units with more than 10 MW.

Where the annual useful heat deployment exceeds 15% of the input biogas energy, the RES generating plant shall be eligible to a supplement of 10% of the operating support for this RES generating plant. Heat from biogas plants used for obtaining biogas shall not be deemed to be useful heat. Where manure and slurry represent annually more than 30% of the volume of substrate for obtaining biogas, the RES generating plant shall be eligible to a supplement of 10% of the operating support for this RES generating plant. Where manure and slurry represent annually more than 70% of the volume of substrate for obtaining biogas, the RES generating plant with a nominal electrical capacity of up to 200 kW shall be eligible to a supplement of 20% of the operating support for this RES generating plant.

**Due to a change in legislation (Off. Gazette, 43/2011) biogas plants connected to the grid after 1. 7. 2012 that use 40% or more of primary agricultural produce (e.g. corn) are not entitled to receive support. If they use less than 40% but more than 25%, then the variable part of the reference costs are set at 70%. The tabled values DO NOT include any deductions.**

## 6.2 Biogas obtained from biodegradable waste

6.2 Biogas from waste	Reference costs	B factor	GP Price (EUR/MWh)*	OS Level (EUR/MWh)
micro - less than 50 kW	139,23	0,88	139,23	90,13
small - less than 1 MW	139,23	0,91	139,23	88,46
medium - from 1 MW up to 10 MW	129,15	0,92	129,15	77,82
large - over 10 MW up to 125 MW	/	1	/	/

\*2012 guaranteed purchase price is identical to 2009 and 2010 and 2011 guaranteed purchase price; support is not intended for units with more than 10 MW; unlike 6.1, the total reference costs are defined as »fixed«.

Where the annual useful heat deployment exceeds 15% of the input biogas energy, the RES generating plant shall be eligible to a supplement of 10% of the operating support for this RES generating plant. Heat from biogas plants used for obtaining biogas shall not be deemed to be useful heat.

## 6.3 Adjusting the variable part of reference costs for RES generating plants using biogas obtained from biomass

Based on the published methodology, the variable part of the reference costs shall be adjusted in line with changes to the prices of maize silage substrate contained in the forecast from the Energy Agency of the Republic of Slovenia on the basis of the following equation:

$$VPRC(i) = I_s * VPRC(0) + N * (1 - I_s)$$

VPRC (i) is the variable part of the reference costs for the coming year in EUR/MWh

VPRC (0) is the baseline variable part of the reference costs for the year 2009 in EUR/MWh

$I_s$  is the index of the maize silage substrate price; for 2012 = 1,01738

$N$  is the corrective factor for VPRC in EUR/MWh

Size of plant	N
< 50 kW	11.90
< 1 MW	11.90
from 1 up to 10 MW	7.14

## 7. Power plants using biogas from the processing of wastewater treatment plants sludge

7. Biogas from wastewater treatment plants sludge	Reference costs	B factor	GP Price* (EUR/MWh)	OS Level (EUR/MWh)
micro - less than 50 kW	85,84	0,92	85,84	34,51
small - less than 1 MW	74,42	0,92	74,42	23,09
medium - from 1 MW up to 10 MW	66,09	0,92	66,09	14,76
large - over 10 MW up to 125 MW	/	1	/	/

\*2012 guaranteed purchase price is identical to 2009 and 2010 and 2011 guaranteed purchase price; support is not intended for units with more than 10 MW.

Where the annual useful heat deployment exceeds 15% of the input energy of biogas derived from sludge from wastewater treatment plants, the RES generating plant shall be eligible to a supplement of 10% of the operating support for this RES generating plant. Heat from biogas plants used for obtaining biogas shall not be deemed to be useful heat.

## 8. Power plants using landfill gas

8. Landfill gas	Reference costs	B factor	GP Price* (EUR/MWh)	OS Level (EUR/MWh)
micro - less than 50 kW	99,33	0,92	<b>99,33</b>	<b>48,00</b>
small - less than 1 MW	67,47	0,92	<b>67,47</b>	<b>16,14</b>
medium - from 1 MW up to 10 MW	61,67	0,92	<b>61,67</b>	<b>10,34</b>
large - over 10 MW up to 125 MW	/	1	/	/

\*2012 guaranteed purchase price is identical to 2009 and 2010 and 2011 guaranteed purchase price; support is not intended for units with more than 10 MW.

Where the annual useful heat deployment exceeds 15% of the input energy of landfill gas, the RES generating plant shall be eligible to a supplement of 10% of the operating support for this RES generating plant.

## 9. Power plants using biodegradable waste

9. Biodegradable waste	Reference costs	B factor	GP Price* (EUR/MWh)	OS Level (EUR/MWh)
micro - less than 50 kW	/	0,92	/	/
small - less than 1 MW	77,44	0,92	<b>77,44</b>	<b>26,11</b>
medium - from 1 MW up to 10 MW	74,34	0,92	<b>74,34</b>	<b>23,01</b>
large - over 10 MW up to 125 MW	(determined individually)	0,92	/	<b>(determined individually)</b>

\*2012 guaranteed purchase price is identical to 2009 and 2010 and 2011 guaranteed purchase price; support is not intended for units with less than 50 kW.

Where the annual useful heat deployment exceeds 30% of the input energy of biodegradable waste, the RES generating plant shall be eligible to a supplement of 10% of the operating support for this RES generating plant.

## UNOFFICIAL CALCULATIONS OF THE LEVELS OF SUPPORT for 2012 for CHP

**NOTE: Calculations do not take into consideration any supplements or deductions because of, for example, subsidies received!**

### 10. CHP plants using wood biomass

#### 10.1 CHP plants using wood biomass – annual operating hours up to 4000

CHP wood biomass up to 4000 OH	2009 variable costs - VPRC (0)	B factor	Reference costs 2012	GP Price (EUR/MWh)	OS Level (EUR/MWh)
micro - less than 50 kW	(determined individually)	0,85	(determined individually)	(determined individually)	(determined individually)
small-scale - less than 1 MW	33,43	0,88	338,45	<b>338,45</b>	<b>289,35</b>
medium-sized - lower - 1 MW up to 5 MW	31,46	0,93	263,79	/	<b>211,91</b>
medium-sized - higher - 5 MW up to 25 MW	27,73	0,93	196,75	/	<b>144,87</b>
large - lower - 25 MW up to 50 MW	28,65	0,96	165,77	/	<b>112,21</b>
large - higher - 50 MW up to 200 MW	(determined individually)	0,96	(determined individually)	/	(determined individually)

For the division of reference costs into variable and fixed costs see relevant CHP Decree and its Annexes.

For the use of wood biomass with certificates of sustainable wood biomass production from the first paragraph of Article 12 of the relevant Decree, the variable part of the reference costs shall be increased by 10%. For the use of by-products and residues from the wood processing industry, the variable part of the reference costs shall be reduced by 10%. For the use of end-of-life wood, the variable part of the reference costs shall be reduced by 35%.

In their application for a decision allocating support, the beneficiary shall inform the Energy Agency of the Republic of Slovenia of the structure of the sources used. The structure shall be determined or confirmed in the decision. The beneficiary shall inform the Centre for RES/CHP support of the shares of individual sources in their application for the Agreement, which is sent to the beneficiary by the Centre of RES/CHP support on the basis of the issued decision. On the basis of these shares, the Centre for RES/CHP support calculates the weighted reduction or increase of the level of support.

#### 10.2 CHP plants using wood biomass – annual operating hours over 4000

CHP wood biomass over 4000 OH	2009 variable costs - VPRC (0)	B factor	Reference costs 2012	GP Price (EUR/MWh)	OS Level (EUR/MWh)
micro - less than 50 kW	(determined individually)	0,90	(determined individually)	(determined individually)	(determined individually)
small-scale - less than 1 MW	33,43	0,92	231,80	<b>231,80</b>	<b>180,47</b>
medium-sized - lower - 1 MW up to 5 MW	31,46	0,94	183,33	/	<b>130,89</b>
medium-sized - higher - 5 MW up to 25 MW	27,73	0,94	138,84	/	<b>86,40</b>
large - lower - 25 MW up to 50 MW	28,65	0,97	119,57	/	<b>65,45</b>
large - higher - 50 MW up to 200 MW	(determined individually)	0,97	(determined individually)	/	(determined individually)

For the division of reference costs into variable and fixed costs see relevant CHP Decree and its Annexes.

For the use of wood biomass bearing certificates of sustainable wood biomass production from the first paragraph of Article 12 of the relevant Decree, the variable part of the reference costs shall be increased by 10%. For the use of by-products and residues from the wood processing industry, the variable part of the reference costs shall be reduced by 10%. For the use of end-of-life wood, the variable part of the reference costs shall be reduced by 35%.

In their application for a decision allocating support, the beneficiary shall inform the Energy Agency of the Republic of Slovenia of the structure of the sources used. The structure shall be determined or confirmed in the decision. The beneficiary shall inform the Centre for RES/CHP support of the shares of individual sources in their application for the Agreement, which is sent to the beneficiary by the Centre of RES/CHP support on the basis of the issued decision. On the basis of these shares, the Centre for RES/CHP support calculates the weighted reduction or increase of the level of support.

## 11. CHP plants using fossil fuel

### 11.1 CHP plants using fossil fuel – annual operating hours up to 4000

CHP fossil fuel up to 4000 OH	2009 variable costs - VPRC (0)	B factor	Reference costs 2012	GP Price (EUR/MWh)	OS Level (EUR/MWh)
micro - less than 50 kW	59,64	0,85	251,74	<b>251,74</b>	<b>204,32</b>
small-scale - less than 1 MW	59,39	0,88	171,54	<b>171,54</b>	<b>122,44</b>
medium-sized - lower - from 1 MW up to 10 MW	44,69	0,93	137,95	/	<b>86,07</b>
medium-sized - higher - 5 MW up to 25 MW	49,86	0,93	136,92	/	<b>85,04</b>
large - lower - 25 MW up to 50 MW	44,90	0,96	138,62	/	<b>85,06</b>
large - higher - 50 MW up to 200 MW	40,94	0,96	126,83	/	<b>73,27</b>

For the division of reference costs into variable and fixed costs see relevant CHP Decree and its Annexes.

### 11.2 CHP plants using fossil fuel – annual operating hours over 4000

CHP fossil fuel over 4000 OH	2009 variable costs - VPRC (0)	B factor	Reference costs 2012	GP Price (EUR/MWh)	OS Level (EUR/MWh)
micro - less than 50 kW	59,64	0,90	193,90	<b>193,90</b>	<b>143,69</b>
small-scale - less than 1 MW	59,39	0,92	141,01	<b>141,01</b>	<b>89,68</b>
medium-sized - lower - from 1 MW up to 10 MW	44,69	0,94	114,28	/	<b>61,84</b>
medium-sized - higher - 5 MW up to 25 MW	49,86	0,94	116,19	/	<b>63,75</b>
large - lower - 25 MW up to 50 MW	44,90	0,97	113,71	/	<b>59,59</b>
large - higher - 50 MW up to 200 MW	40,94	0,97	103,85	/	<b>49,73</b>

For the division of reference costs into variable and fixed costs see relevant CHP Decree and its Annexes.

### 11.3 Adjustment of the variable part of reference costs

#### CHP plants using wood biomass

The variable part of the reference costs of CHP generating plants using wood biomass shall be adjusted to take into account changes in the prices of wood biomass contained in the forecast from the Energy Agency of the Republic of Slovenia, using the following equation:

$$\text{VPRC (i)} = I_{wb} * \text{VPRC (0)}$$

VPRC (i) is the variable part of the reference costs for the coming year in EUR/MWh

VPRC (0) is the baseline variable part of the reference costs (year 2009) in EUR/MWh

**$I_{wb}$  is the index of the wood biomass price; for 2012 = 1,35161**

For the division of reference costs into variable and fixed costs see relevant CHP Decree and its Annexes.

### CHP plants using fossil fuel

The variable part of the reference costs of CHP generating plants using fossil fuel shall be adjusted to take into account changes in the prices of natural gas contained in the forecast from the Energy Agency of the Republic of Slovenia, using the following equation:

$$\text{VPRC (i)} = I_G * \text{VPRC (0)} + N (i) - N (0) * I_G$$

VPRC (i) is the variable part of the reference costs for the coming year in EUR/MWh

VPRC (0) is the baseline variable part of the reference costs (year 2009) in EUR/MWh

**$I_G$  is the index of the price of natural gas; for 2012 = 1,57000**

N(i) is the corrective factor for the coming year in EUR/MWh; **N (2012) = N (0)**

N(0) is the value of the corrective factor in year 2009 in EUR/MWh

For the division of reference costs into variable and fixed costs see relevant CHP Decree and its Annexes.

Size of plant	N(0)
< 50 kW	28.01
< 1 MW	25.68
1 to 5 MW	9.33
5 to 25 MW	9.40
25 to 50 MW	7.68
50 to 200 MW	6.40