

## **2009 EEG Payment Provisions**

### **Payment provisions in the future EEG for the year 2009, as adopted by the German Bundestag Parliamentary Decision from June 6, 2008**

in comparison to payments according:

- **the government's December 5, 2007 draft amendment to the EEG;**
- **the EEG Progress Report from November 7, 2007; and**
- **the 2004 EEG.**

The following tables provide an overview of the fees and degressions for facilities commissioned in 2009. The values are in ct/kWh.

The fees and degressions described as "EEG 2009" will only be effective once the 2009 EEG is in force. The comparison is provided for information purposes only.

This information merely serves as a guide. The relevant laws and ordinances take precedence (see the Federal Law Gazette Part I, No. 40, pp. 1918 ff, dated 31 July 2004). For current fees payable under the 2004 EEG, see [http://www.erneuerbare-energien.de/files/pdfs/allgemein/application/pdf/verguetungssaetze\\_nach\\_eeg.pdf](http://www.erneuerbare-energien.de/files/pdfs/allgemein/application/pdf/verguetungssaetze_nach_eeg.pdf)

(in German)

#### **Calculating the capacity of a plant:**

Where different minimum fees are stipulated depending on plant capacity, the level of fees shall be determined according to the share of a plant's capacity which falls between the relevant threshold values. In this case, the capacity of the plant will not be deemed to be its effective electrical capacity, but rather the ratio of the total of the kilowatt-hours to be fed in to the grid during the calendar year in question to the total number of full hours for that calendar year (see Article 12(2) EEG 2004) The 2009 EEG will retain this provision (see Article 18(2) of the draft EEG 2009).

# Hydropower

## Facilities of up to 5 MW – new

<i>Share of capacity</i>	<b>2009 EEG</b> Decision by the German Bundestag 06.06.2008 <sup>1)</sup>	Government's draft amendments to EEG 05.12.2007 <sup>1)</sup>	EEG Progress Report 07.11.2007 <sup>1)</sup>	2004 EEG
<i>Up to 500 kW</i>	<b>12.67</b>	12.67	12.67	9.67
<i>500 kW – 2 MW</i>	<b>8.65</b>	8.65	8.65	6.65
<i>2 – 5 MW</i>	<b>7.65</b>	7.65	7.65	6.65

<sup>1)</sup> Increase in fees due to reduction in remuneration period from 30 to 20 years

## Facilities of up to 5 MW – modernised/revitalised

<i>Share of capacity</i>	<b>2009 EEG</b> Decision by the German Bundestag 06.06.2008 <sup>1)</sup>	Government's draft amendments to the EEG 05.12.2007 <sup>1)</sup>	EEG Progress Report 07.11.2007 <sup>1)</sup>	2004 EEG
<i>Up to 500 kW</i>	<b>11.67</b>	10.67	10.67	9.67
<i>500 kW – 2 MW</i>	<b>8.65</b>	7.65	7.65	6.65
<i>2 – 5 MW</i>	<b>8.65</b>	7.65	7.65	6.65

<sup>1)</sup> Increase in fees due to reduction in remuneration period from 30 to 20 years

## Renewal of facilities of over 5 MW

<i>Increase in capacity</i>	<b>2009 EEG</b> Decision by the German Bundestag 06.06.2008 <sup>2)</sup>	Government's draft amendments to the EEG 05.12.2007	EEG Progress Report 07.11.2007	2004 EEG
<i>Up to 500 kW</i>	<b>7.29</b>	6.79	<sup>1)</sup>	7.29
<i>Up to 10 MW</i>	<b>6.32</b>	5.87	<sup>1)</sup>	6.32
<i>Up to 20 MW</i>	<b>5.80</b>	5.40	<sup>1)</sup>	5.80
<i>Up to 50 MW</i>	<b>4.34</b>	3.99	<sup>1)</sup>	4.34
<i>Over 50 MW</i>	<b>3.50</b>	3.10	<sup>1)</sup>	3.50

<sup>1)</sup> Appropriate decrease in level of fees due to extension of remuneration period from 15 to 20 years.

<sup>2)</sup> Retention of the 15 year payment period.

## Degression for Hydropower

<b>2009 EEG</b> Decision by the German Bundestag 06.06.2008	Government's draft amendments to the EEG 05.12.2007	EEG Progress Report 07.11.2007	2004 EEG
<b>Over 5 MW: 1.0%</b>	Over 5 MW: 1.0%	Over 5 MW: 1.0 %	Over 5 MW: 1.0 %

# Landfill gas, sewage gas and mine gas

## Landfill gas facilities

Share of capacity	2009 EEG Decision by the German Bundestag 06.06.2008	Government's draft amendments to the EEG 05.12.2007	EEG Progress Report 07.11.2007	2004 EEG
Up to 500 kW <sub>el</sub>	9.00	9.00	9.00	7.11
500 kW <sub>el</sub> to 5 MW <sub>el</sub>	6.16	6.16	6.16	6.16

## Sewage gas facilities

Share of capacity	2009 EEG Decision by the German Bundestag 06.06.2008	Government's draft amendments to the EEG 05.12.2007	EEG Progress Report 07.11.2007	2004 EEG
Up to 500 kW <sub>el</sub>	7.11	7.11	7.11	7.11
500 kW <sub>el</sub> to 5 MW <sub>el</sub>	6.16	6.16	6.16	6.16

## Mine gas facilities

Share of capacity	2009 EEG Decision by the German Bundestag 06.06.2008	Government's draft amendments to the EEG 05.12.2007	EEG Progress Report 07.11.2007	2004 EEG
Up to 500 kW <sub>el</sub>	7.16	7.16	7.16	7.11
500 kW <sub>el</sub> to 1 MW <sub>el</sub>	7.16	7.16	7.16	6.16
1 MW <sub>el</sub> to 5 MW <sub>el</sub>	5.16	5.16	5.16	6.16
Over 5 MW <sub>el</sub>	4.16	4.16	4.16	6.16

## Bonuses for landfill gas, sewage gas, mine gas

<i>Technology bonus for facilities of up to 5 MW<sub>el</sub></i>				
2009 EEG Decision by the German Bundestag 06.06.2008	Government's draft amendments to the EEG 05.12.2007	EEG Progress Report 07.11.2007	2004 EEG	
<b>Innovative Plant Technology 2.00</b>	2.00	2.00	2.00	
<b>Reprocessing facilities for landfill gas and sewage gas:</b> a) up to a maximum of 350 Nm <sup>3</sup> /Hour 2.00 b) up to a maximum of 700 m <sup>3</sup> /Hour 1.00				

## Degression for landfill gas, sewage gas, mine gas

2009 EEG Decision by the German Bundestag 06.06.2008	Government's draft amendments to the EEG dated 05.12.2007	EEG Progress Report of 07.11.2007	2004 EEG	
<b>Basic Fees and Bonuses</b>	Basic Fees and Bonuses	Basic Fees	Basic Fees	
1.5 %	1.5%	1.5%	1.5%	

# Biomass

## Basic fees

<i>Share of capacity</i>	<b>2009 EEG</b> Decision by the German Bundestag 06.06.2008 <sup>3</sup>	Government's draft amendments to the EEG dated 05.12.2007	EEG Progress Report of 07.11.2007	2004 EEG
<i>Up to 150 kW<sub>el</sub></i>	<b>11.67<sup>1</sup></b>	11.67 <sup>1)</sup>	11.67 <sup>1)</sup>	10.67
<i>from 150 kW<sub>el</sub> to 500 kW<sub>el</sub></i>	<b>9.18</b>	9.18	9.18	9.18
<i>from 500 kW<sub>el</sub> to 5 MW<sub>el</sub></i>	<b>8.25</b>	8.25	8.25	8.25
<i>5 MW<sub>el</sub> to 20 MW<sub>el</sub></i>	<b>7.79<sup>2</sup></b>	7.79 <sup>2)</sup>	7.79 <sup>2)</sup>	7.79

<sup>1)</sup> Including existing facilities

<sup>2)</sup> Only if the electricity is produced using combined heat and power generation

<sup>3)</sup> Basic Fees raised 1.0 c/kWh for emissions abatement by licensed facilities, existing and new facilities up to 500kW, when formaldehyde release-limits according to the administrative regulation Technical Instructions on Air Quality Control (TA Luft) are maintained.

## Bonuses for Biomass I

<i>Bonus for the use of cultivated biomass ("NawaRo Bonus")</i>				
	<b>2009 EEG</b> Decision by the German Bundestag 06.06.2008	Government's draft amendments to the EEG dated 05.12.2007	EEG Progress Report of 07.11.2007	2004 EEG
<b>Share of capacity up to 150 kW<sub>el</sub></b>				
<i>Biomass excluding biogas</i>	<b>6.00</b>	6.00	7.00	6.00
<i>Biogas</i>	<b>7.00</b>	8.00	8.00	6.00
<i>-With at least 30% use of farmyard manure or slurry</i>	<b>+4.0</b>	+2 ct	8.00	6.00
<i>-Plant material predominantly from landscape conservation</i>	<b>+2.0</b>			
<b>Share of capacity up to 500 kW<sub>el</sub></b>				
<i>solid biomass</i>	<b>6.00</b>			
<i>liquid biomass</i>	<b>0<sup>1)</sup></b>	6.00	7.00	6.00
<i>gas biomass</i>	<b>6.00</b>	0 <sup>1)</sup>	7.00	6.00
<i>Biogas</i>	<b>7.00</b>	8.00	7.00	6.00
<i>-Minimum 30% manure</i>	<b>+1.0</b>	8.00	7.00	6.00
<i>-Plant material predominantly from landscape conservation</i>	<b>+2.0</b>			
<b>Capacity up to 5 MW<sub>el</sub></b>				
<i>solid biomass</i>	<b>4.00</b>	4.00	4.00	4.00
<i>liquid biomass</i>	<b>0<sup>1)</sup></b>	0 <sup>1)</sup>	4.00	4.00
<i>gas biomass</i>	<b>4.00</b>	4.00	4.00	4.00
<i>where wood burnt / where wood from short rotation coppice and landscape management material burnt</i>	<b>2.50</b>	2.50	2.50	2.50
	<b>4.00</b>	4.00	4.00	2.50

<sup>1)</sup> Only for facilities commissioned after 01.01.2009

**Bonuses for Biomass II**

<i>Technology bonus for facilities up to 5 MW<sub>el</sub></i>			
2009 EEG Decision by the German Bundestag 06.06.2008	Government's draft amendments to the EEG 05.12.2007	EEG Progress Report 07.11.2007	2004 EEG
<b>Innovative Plant Technology 2.00</b>	2.00	2.00	2.00
<b>Gas Reprocessing:</b> a) up to a maximum of 350 Nm <sup>3</sup> /Hour 2.00 b) up to a maximum of 700 Nm <sup>3</sup> /Hour 1.00			

<i>CHP bonus (only for the share of feed-in deemed to be CHP electricity)</i>			
2009 EEG Decision by the German Bundestag 06.06.2008	Government's draft amendments to the EEG dated 05.12.2007	EEG Progress Report 07.11.2007	2004 EEG
<b>Up to 20 MW<sub>el</sub></b>	Up to 20 MW <sub>el</sub>		Up to 20 MW <sub>el</sub>
<b>3.00<sup>1)</sup></b>	3.00 <sup>2)</sup>	3.00	2.00

- <sup>1)</sup> Also for existing facilities operated as CHP iSv Facility 3 for the first time after 31.12.2008. Existing facilities with a capacity up to 500kW, when the Facility 3 requirements are met.  
<sup>2)</sup> Also for existing facilities operated as CHP for the first time after 31.12.2008.

**Degression for Biomass**

2009 EEG Decision by the German Bundestag 06.06.2008	Government's draft amendments to the EEG 05.12.2007	EEG Progress Report 07.11.2007	2004 EEG
<b>Basic Fees and Bonuses: 1.0%</b>	Basic Fees and Bonuses: 1.0%	Basic Fees and Bonuses: 1.0%	Basic Fees: 1.5%

**Sample calculations for fees payable for electricity from biomass facilities:**

**Capacity of 2.5 MW<sub>el</sub><sup>1)</sup> with CHP and technology bonuses**

Share of capacity up to 150 kW<sub>el</sub> = 6%  
 Share of capacity from 150 kW<sub>el</sub> to 500 kW<sub>el</sub> = 14%  
 Share of capacity from 500 kW<sub>el</sub> to 2.5 MW<sub>el</sub> = 80%

Heat extraction and use (CHP) at 100% electricity production

	2009 EEG Decision by the German Bundestag 06.06.2008	2004 EEG
<b>Basic fee</b>		
Share of capacity to 150 kW <sub>el</sub>	0.06 x 11.67	0.06 x 10.67
Share of capacity to 500 kW <sub>el</sub>	+ 0.14 x 9.18	+ 0.14 x 9.18
Share of capacity to 2.5 MW <sub>el</sub>	+ 0.80 x 8.25	+ 0.80 x 8.25
<b>CHP bonus</b>	<b>+ 3.00</b>	<b>+ 2.00</b>
<b>Technology bonus</b>	<b>+ 2.00</b>	<b>+ 2.00</b>
<b>Total payments</b>	<b>= 13.59</b>	<b>= 12.53</b>

<sup>1)</sup> For example, this might be a facility with 3 MW<sub>el</sub> of installed capacity, running for 7,300 hours a year at full capacity (see note on p. 1)

**Biogas facility with a capacity of 500 kW<sub>el</sub><sup>1)</sup> with NawaRo and CHP bonuses**

Capacity up to 150 kW<sub>el</sub>: 30 %

Capacity up to 500 kW<sub>el</sub>: 70 %

Heat extraction and use (CHP) at 70% electricity production

	<b>2009 EEG</b> Decision by the German Bundestag 06.06.2008	2004 EEG
<b>Basic fee</b> Share of capacity to 150 kW <sub>el</sub> Share of capacity to 500 kW <sub>el</sub>	<b>0.3 x 11.67</b> <b>+ 0.7 x 9.18</b>	0.3 x 10.67 + 0.7 x 9.18
<b>NawaRo bonus</b> Share of capacity to 150 kW <sub>el</sub> Share of capacity to 500 kW <sub>el</sub>	<b>+ 0.3 x 7.00</b> <b>+ 0.7 x 7.00</b>	+ 0.3 x 6.00 + 0.7 x 6.00
<b>CHP bonus</b>	<b>+ 0.7 x 3.00</b>	+ 0.7 x 2.00
<b>Total payments</b>	<b>= 19.03</b>	<b>= 17.03</b>

<sup>1)</sup> For example, this might be a facility with 750 kW<sub>el</sub> of installed capacity, running for 5,840 hours a year at full capacity (see note on p. 1)

**Biomass facility (wood from short rotation coppice) with a capacity of 1 MW<sub>el</sub><sup>1)</sup> with NawaRo and CHP bonuses**

Share of capacity up to 150 kW<sub>el</sub> = 15 %

Share of capacity from 150 kW<sub>el</sub> to 500 kW<sub>el</sub> = 35%

Capacity from 500 kW<sub>el</sub> to 1 MW<sub>el</sub> = 50%

Heat extraction and use (CHP) at 80 % electricity production

	<b>2009 EEG</b> Decision by the German Bundestag 06.06.2008	2004 EEG
<b>Basic fee</b> Share of capacity to 150 kW <sub>el</sub> Share of capacity to 500 kW <sub>el</sub> Share of capacity to 1 MW <sub>el</sub>	<b>0.15 x 11.67</b> <b>+ 0.35 x 9.18</b> <b>+ 0.50 x 8.25</b>	0.15 x 10.67 + 0.35 x 9.18 + 0.50 x 8.25
<b>NawaRo bonus</b> Share of capacity to 150 kW <sub>el</sub> Share of capacity to 500 kW <sub>el</sub> Share of capacity to 1 MW <sub>el</sub>	<b>+ 0.15 x 6.00</b> <b>+ 0.35 x 6.00</b> <b>+ 0.50 x 4.00</b>	+ 0.15 x 6.00 + 0.35 x 6.00 + 0.50 x 2.50
<b>CHP bonus</b>	<b>+ 0.8 x 3.00</b>	+ 0.8 x 2.00
<b>Total payments</b>	<b>= 16.49</b>	<b>= 14.79</b>

<sup>1)</sup> For example, this might be a facility with 1.2 MW<sub>el</sub> of installed capacity, running for 7,300 hours a year at full capacity (see note on p. 1)

# Geothermal

## Basic Fees

<i>Share of capacity</i>	<b>2009 EEG</b> Decision by the German Bundestag 06.06.2008 <sup>1)</sup>	Government's draft amendments to the EEG 05.12.2007	EEG Progress Report 07.11.2007	2004 EEG
<i>Up to 5 MW<sub>el</sub></i>	<b>16.00</b>	16.00	16.00	15.00
<i>Up to 10 MW<sub>el</sub></i>	<b>16.00</b>	16.00	16.00	14.00
<i>Up to 20 MW<sub>el</sub></i>	<b>10.50</b>	10.50	10.50	8.95
<i>Over 20 MW<sub>el</sub></i>	<b>10.50</b>	10.50	10.50	7.16

<sup>1)</sup> Installations operating prior to 12.31.2015 the Basic Fee is raised by 4.00 ct/kWh.

## Bonuses

<i>Heat cogeneration bonus</i>			
<b>2009 EEG</b> Decision by the German Bundestag 06.06.2008	Government's draft amendments to the EEG 05.12.2007	EEG Progress Report 07.11.2007	2004 EEG
<b>Capacity up to 10 MW<sub>el</sub></b>	Capacity up to 10 MW <sub>el</sub>		
<b>3,00</b>	2.00	2.00	-

<i>Heat cogeneration bonus</i>			
<b>2009 EEG</b> Decision by the German Bundestag 06.06.2008	Government's draft amendments to the EEG 05.12.2007	EEG Progress Report 07.11.2007	2004 EEG
<b>For facilities of up to 10 MW<sub>el</sub> with petrothermal technology</b>	For facilities of up to 10 MW <sub>el</sub> with petrothermal technology	For non-hydrothermal technologies	
<b>4.00</b>	2.00	2.00	-

## Degression for Geothermal

<b>2009 EEG</b> Decision by the German Bundestag 06.06.2008	Government's draft amendments to the EEG 05.12.2007	EEG Progress Report of 07.11.2007	2004 EEG
<b>Basic Fees and Bonuses</b>	Basic Fees and Bonuses	Basic Fees	Basic Fees
<b>1.0 %</b>	1.0%	From 2010: 1.0%	From 2010: 1.0%

# Onshore wind

## Basic fees

	<b>2009 EEG</b> Decision by the German Bundestag 06.06.2008	Government's draft amendments to the EEG 05.12.2007	EEG Progress Report 07.11.2007	2004 EEG
<b>Initial fee</b> <i>(first 5 years from beginning of operation)</i>	<b>9.2</b>	7.95	7.87 - 7.95 <sup>1)</sup>	7.87
<b>Final fee</b>	<b>5.02</b>	5.02	4.97 - 5.02 <sup>1)</sup>	4.97

<sup>1)</sup> Range taken from EEG Progress Report policy recommendations, which set the degeneration at 1-2 percent from 2009 (see below)

## Payments for system services from onshore wind turbine generators

<b>System services bonus</b>			
<b>2009 EEG</b> Decision by the German Bundestag 06.06.2008	Government's draft amendments to the EEG 05.12.2007	EEG Progress Report 07.11.2007	2004 EEG
<b>For facilities commissioned 2002-2008 retrofitted by 1.1.2011 – payable for 5 years:</b>  <b>0.70</b>	For facilities commissioned 2002-2008 retrofitted by 1.1.2011 – payable for 5 years:  <b>0.70</b>	For facilities commissioned 2002-2008 retrofitted by 1.1.2011 – payable for 5 years:  <b>0.70</b>	
<b>Where new technical requirements for facilities commissioned 1.1.2009 to 1.1.2014 have been fulfilled, initial fee rises by</b>  <b>0.50</b>	Evaluation if new technical requirements for facilities commissioned 1.1.2009 to 1.1.2014 have to be fulfilled; if so necessitates rise in initial fee by  <b>0.70</b>	Where new technical requirements for facilities commissioned 1.1.2009 to 1.1.2014 have been fulfilled, initial fee rises by  <b>0.70</b>	

## Degression for onshore wind

<b>2009 EEG</b> Decision by the German Bundestag 06.06.2008	Government's draft amendments to the EEG 05.12.2007	EEG Progress Report 07.11.2007	2004 EEG
<b>Basic Fee and Bonus</b>	Basic Fee and bonus	Basic Fee	Basic Fee
<b>1.0%</b>	1.0%	1.0 – 2.0%	2.0%



# Offshore wind

## Basic fees

	<b>2009 EEG</b> Decision by the German Bundestag 06.06.2008	Government's draft amendments to the EEG dated 05.12.2007	EEG Progress Report of 07.11.2007	2004 EEG
<i>Initial fee</i>	<b>13.00</b>	12.00	11.00-15.00	8.74
	<b>additional 2 ct/kWh where commissioned by 31.12.2015</b>	additional 2 ct/kWh where commissioned by 31.12.2013		
<i>Final fee</i>	<b>3.50</b>	3.50	3.50	5.95

## Degression for offshore wind

<b>2009 EEG</b> Decision by the German Bundestag 06.06.2008	Government's draft amendments to the EEG dated 05.12.2007	EEG Progress Report of 07.11.2007	2004 EEG
<b>From 2015: 5.0%</b>	From 2015: 5.0%	5-7% beginning between 2008 and 2013	From 2008: 2.0%

# Solar radiation

## Roof-mounted facilities

Share of capacity	2009 EEG Decision by the German Bundestag 06.06.2008	Government's draft amendments to the EEG 05.12.2007	EEG Progress Report 07.11.2007	2004 EEG
<i>Up to 30 kW</i>	<b>43.01</b>	42.48	42.48	44.41
<i>30 kW – 100 kW</i>	<b>40.91</b>	40.36	40.37	42.26
<i>Over 100 kW</i>	<b>39.58</b>	39.90	39.91	41.79
<i>Over 1000 kW</i>	<b>33.00</b>	34.48	34.48	41.79

## Fee payable when electricity produced is used within building/facility

Share of capacity	2009 EEG Decision by the German Bundestag 06.06.2008	Government's draft amendments to the EEG 05.12.2007	EEG Progress Report 07.11.2007	2004 EEG
<i>Up to 30 kW</i>	<b>25.01</b>	24.48	-	-

## Freestanding facilities

	2009 EEG Decision by the German Bundestag 06.06.2008	Government's draft amendments to the EEG 05.12.2007	EEG Progress Report 07.11.2007	2004 EEG
<b>Irrespective of share of capacity</b>	<b>31.94</b>	32.00	32.01	33.18

## Bonuses

<i>For building integrated facilities (façade facilities)</i>				
2009 EEG Decision by the German Bundestag 06.06.2008	Government's draft amendments to the EEG 05.12.2007	EEG Progress Report 07.11.2007	EEG 2004	
<b>Not applicable</b>	5.00	5.00	5.00	

**Degression for Solar Radiation**

	<b>2009 EEG</b> Decision by the German Bundestag 06.06.2008 <sup>1)</sup>	Government's draft amendments to the EEG 05.12.2007	EEG Progress Report 07.11.2007	2004 EEG
<b>Freestanding Facilities</b>	<b>Basic fee and bonuses</b> <b>2010: 10.0 %</b> <b>ab 2011: 9.0 %</b>	Basic fee and bonuses From 2009: 7.0% From 2011: 8.0%	Basic Fee From 2009: 7.0% From 2011: 8.0%	Basic Fee 5.0% Freestanding facilities 6.5%
<b>Roof Systems:</b>	<b>Basic fee and bonuses</b>  <b>Up to 100kW</b> <b>2010: 8.0 %</b> <b>from 2011: 9.0 %</b>  <b>Up to 100 kW</b> <b>2010: 10.0 %</b> <b>from 2011: 9.0 %</b>	Basic fee and bonuses From 2009: 7.0% From 2011: 8.0%	Basic Fee From 2009: 7.0% From 2011: 8.0%	Basic Fee 5.0% Freestanding facilities 6.5%

- <sup>1)</sup> Degression is to be either
- a) increased by 1 percentage point in the following calendar year when the capacity reaches more than:
    - 1) 1500 MW in 2009,
    - 2) 1700 MW in 2010 and
    - 3) 1900 MW in 2011
  - or
  - b) decreased by 1 percentage point in the following calendar year when the capacity remains below:
    - 1) 1000 MW in 2009
    - 2) 1100 MW in 2010 and
    - 3) 1200 MW in 2011.