

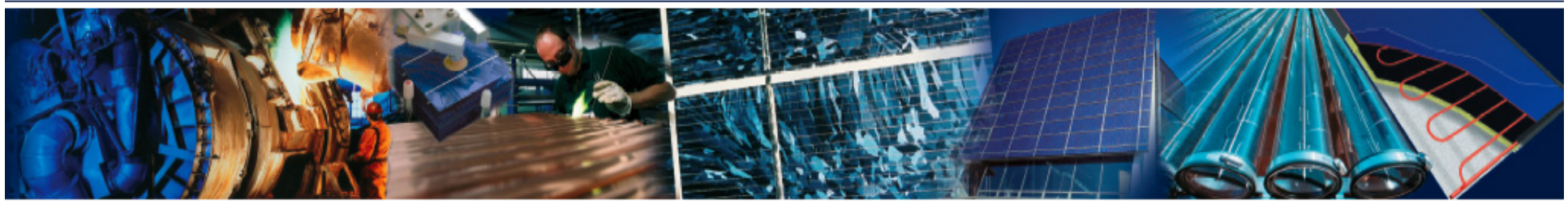
# EEG 2009

## Important Changes and Feed-in Tariffs for Photovoltaics

June 2008



**Bundesverband Solarwirtschaft (BSW) e.V.**





## EEG 2009 – Important Changes Regarding PV Support I

### Quicker Degression of PV feed-in tariffs as of 2009

- Presently: 5% p.a. for rooftop systems. 6.5% p.a. for ground-mounted installations
- New: Tariffs <100 kW: 8% in 2009. 8% in 2010. 9% as of 2011
- New: Tariffs >100 kW: 10% in 2009. 10% in 2010. 9% as of 2011
- New: Ground-mounted systems: 10% in 2009. 10% in 2010. 9% as of 2011

### „Sliding Scale“ for degression when the growth corridor is left

- If the growth of the PV market (new installations) in a year is stronger or weaker than the defined growth corridor, the degression in the following year will increase or decrease a percentage point respectively.
  - Growth Corridor 2009: 1.000 – 1.500 MW
  - Growth Corridor 2010: 1.100 – 1.700 MW
  - Growth Corridor 2011: 1.200 – 1.900 MW
- Based on the market growth of 2007 (1.100 MW of new installations) the top border of the growth corridor indicates 15% growth p.a. As soon as the growth exceeds this value, the sliding scale will correct the degression (earliest 2010).



## EEG 2009 - Important Changes Regarding PV Support II

### **New remuneration category for rooftop installations >1.000 kW**

- Remuneration in 2009: 33.00 ct/kWh
- Same degression rate for systems >100 kW: 10% in 2010. 9% as of 2011

### **„Facade Bonus“ cancelled**

- The previous supplemental added values bonus of 5 ct/kWh for facade integrated installations has been cancelled.

### **Bonus for photovoltaic power for self-consumption (only for systems <30 kW)**

- Those who use PV electricity for personal consumption and do not feed it into the grid will receive a reduced feed-in tariff (in 2009: 25.01 ct/kWh) compared to the normal rate (in 2009: 43.01 ct/kWh).
- Because the amount of PV electricity that is self-consumed substitutes expensive electricity from the grid (in 2009 approx. 20 ct/kWh) self-consumers will receive a small bonus (in 2009 approx. 2 ct/kWh). As the price for conventional electricity keeps growing this bonus will likewise increase.



## EEG 2009 - Important Changes Regarding PV Support III

### Increased market transparency through system register

- As of 01.01.2009 all installation operators must register with the German Federal Network Agency by declaring the location and capacity of the PV installation before they can gain network access.
- The federal government establishes a universal register of all installations which produce electricity from renewable sources.

### Implementation of a „feed-in management“ for installations >100 kW

- All installations >100 kW must be capable of being remotely controlled by the network operator (for old installations there will be a concessional period until 01.01.2011).
- Network operators may regulate the output of PV systems when the network is at capacity **only** after the grid has been optimized and sufficiently expanded. Small installations (mostly private users) >100 kW may not be remotely controlled.
- For the electricity which could not be fed into the grid. system operators will be reimbursed by the grid operators.



## EEG 2009 – New Degression Rates for Solar Electricity

Year Degression/Market	Degression of tariffs for systems <100 kW (% p.a.)			Degression of tariffs for systems >100 kW (incl. ground-mounted systems) (% p.a.)		
<b>Degression 2009</b>	<b>8</b>			<b>10</b>		
Market 2009 (MW)	<1.000	1.000-1.500	>1.500	>1.000	1.000-1.500	<1.500
<b>Degression 2010</b>	7	<b>8</b>	9	9	<b>10</b>	11
Market 2010 (MW)	<1.100	1.100-1.700	>1.700	<1.100	1.100-1.700	>1.700
<b>Degression 2011</b>	8	<b>9</b>	10	8	<b>9</b>	10
Market 2011 (MW)	<1.200	1.200-1.900	>1.900	<1.200	1.200-1.900	>1.900
<b>Degression 2012</b>	8	<b>9</b>	10	8	<b>9</b>	10



## PV Feed-in Tariffs of the New EEG 2009 – Rooftop Systems (without adjustments to the sliding scale)

Year of commissioning	Rooftop Installations			
	≤ 30 kW (ct/kWh)	from 30 kW (ct/kWh)	from 100 kW (ct/kWh)	from 1.000 kW (ct/kWh)
	8% p.a. in 2009/2010 9% as of 2011	8% p.a. in 2009/2010 9% as of 2011	10% p.a. in 2009/2010 9% as of 2011	25% in 2009. 10% in 2010. 9% from 2011*
2008	46.75	44.48	43.99	43.99*
<b>2009</b>	<b>43.01</b>	<b>40.91</b>	<b>39.58</b>	<b>33.00</b>
2010	39.57	37.64	35.62	29.70
2011	36.01	34.25	32.42	27.03
2012	32.77	31.17	29.50	24.59
2013	29.82	28.36	26.84	22.38
2014	27.13	25.81	24.43	20.37
2015	24.69	23.49	22.23	18.53

\* New category introduced (until now tariffs >1000 kW were considered the same as >100kW, hence the largest depression leap in 2009)



## PV Feed-in Tariffs of the New EEG 2009 – Ground-mounted Installations (without adjustments to the sliding scale)

	Ground-mounted installations
Year of commissioning	10% p.a. in 2009 and 2010. 9% p.a. as of 2011
2008	35.49
<b>2009</b>	<b>31.94</b>
2010	28.75
2011	26.16
2012	23.81
2013	21.66
2014	19.71
2015	17.94

*All information is without guarantee and subject to passage of the Bundesrat after which it enters into force.*



## Amendments to the EEG as of 2009, decision of the German Parliament from 6th June 2008

- Increased annual depression rates as of 2009
- No more bonus for facade integrated systems

### NEW

- „Sliding Scale“ for depression when a growth corridor is left
- If the growth of the PV market (new installations) in a year is stronger or weaker than the defined growth corridor, the depression in the following year will increase or decrease a percentage point respectively.

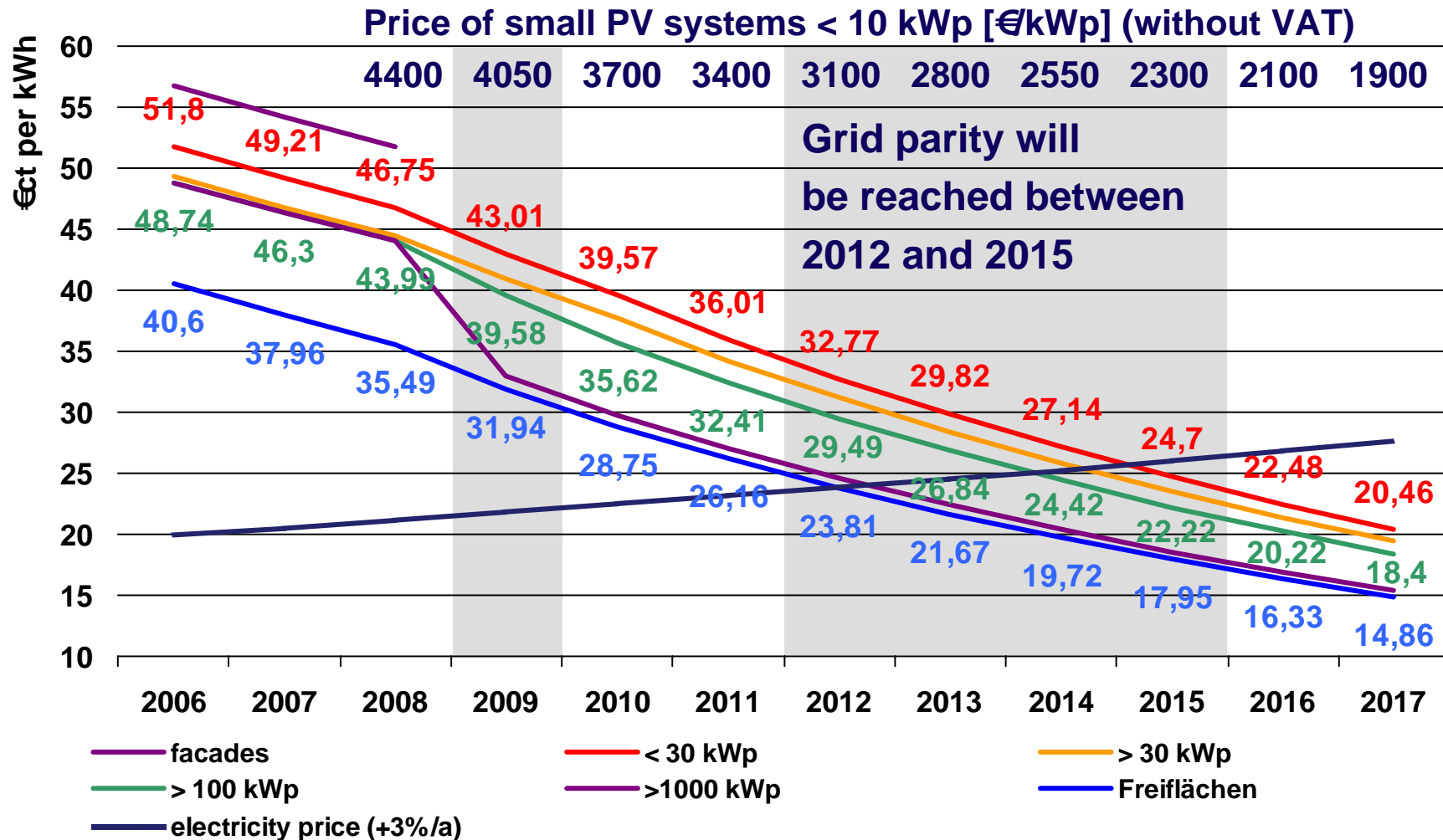
	2008	2009	2010	2011
Roof top < 100 kWp	5%	8%	8%	9%
Roof top > 100 kWp	5%	10%	10%	9%
Ground mounted	6.5%	10%	10%	9%

	Degression	2009	2010	2011
Upper limit in MWp	above: +1%	1500	1700	1900
Lower limit in MWp	below: -1%	1000	1100	1200



# Feed-in Tariffs for PV within the German EEG

Based on higher depression rates as of 2009, decided on June 6th, 2008





## German PV Market up to 2008 and Feed-in Tariffs as of 2009

