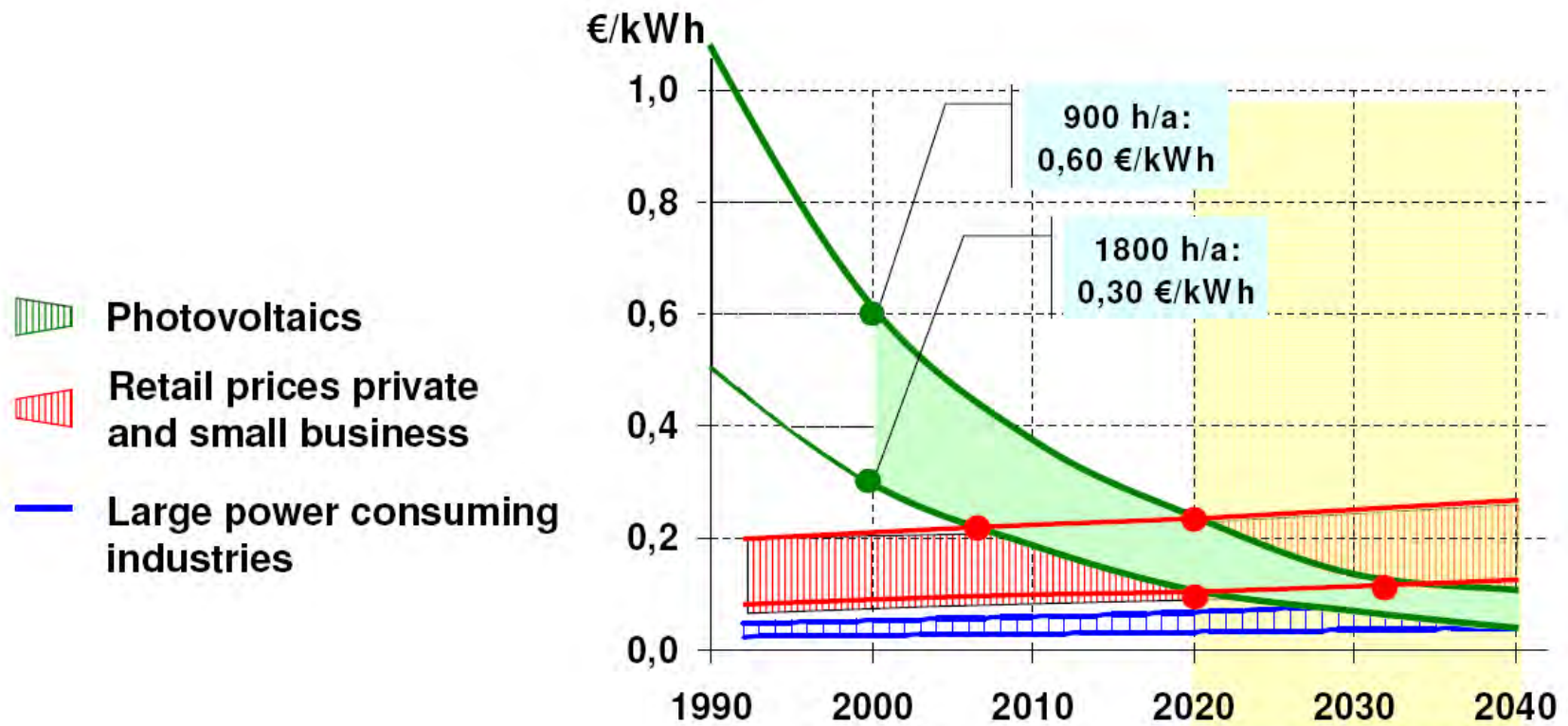


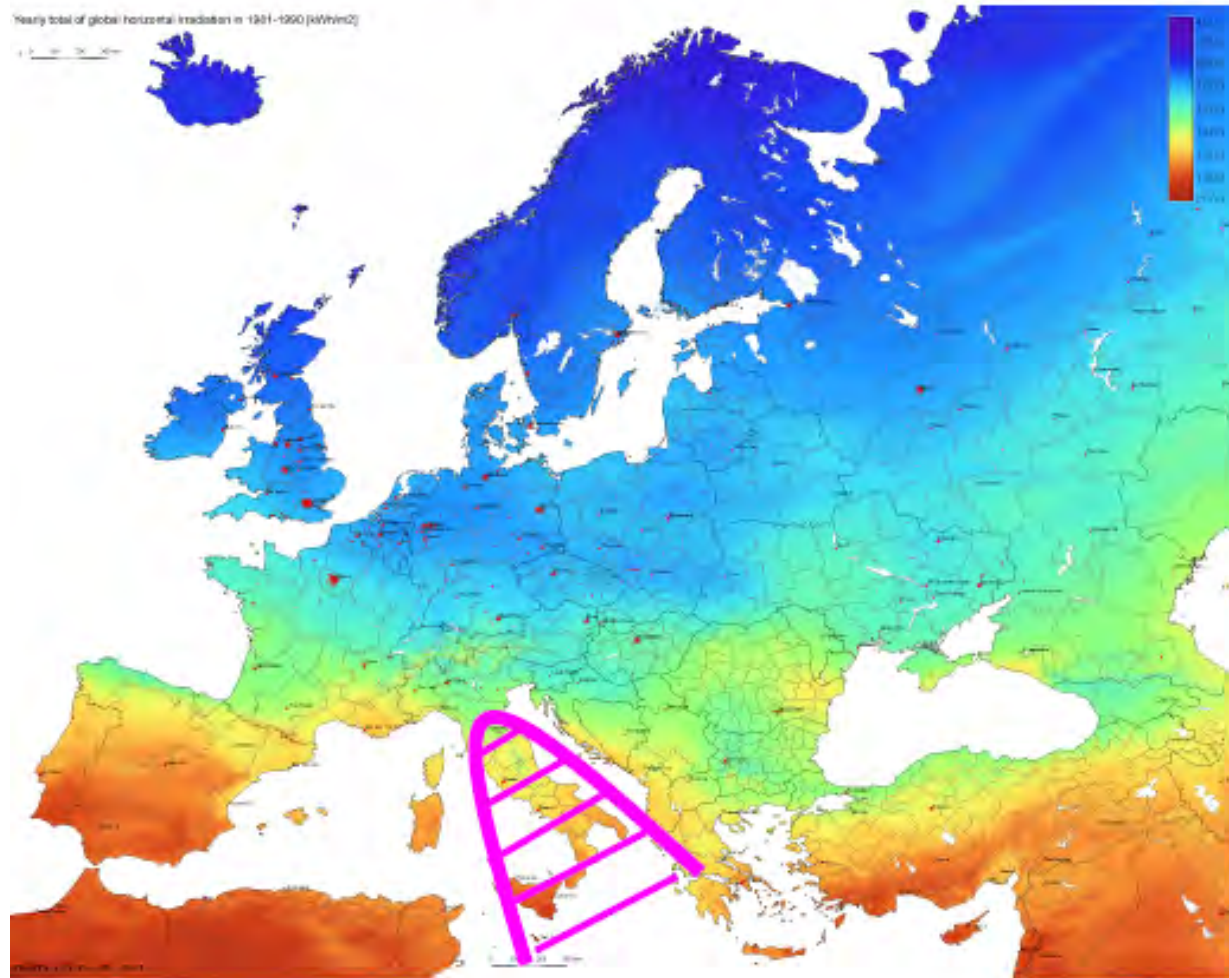
- Grid Parity



: EPIA

Grid parity in Europe – 2010

(lines to guide the eye)



irradiation (kWh/m ² -yr)	PV generation cost (€/kWh)
---	-------------------------------

600	0.50
-----	------

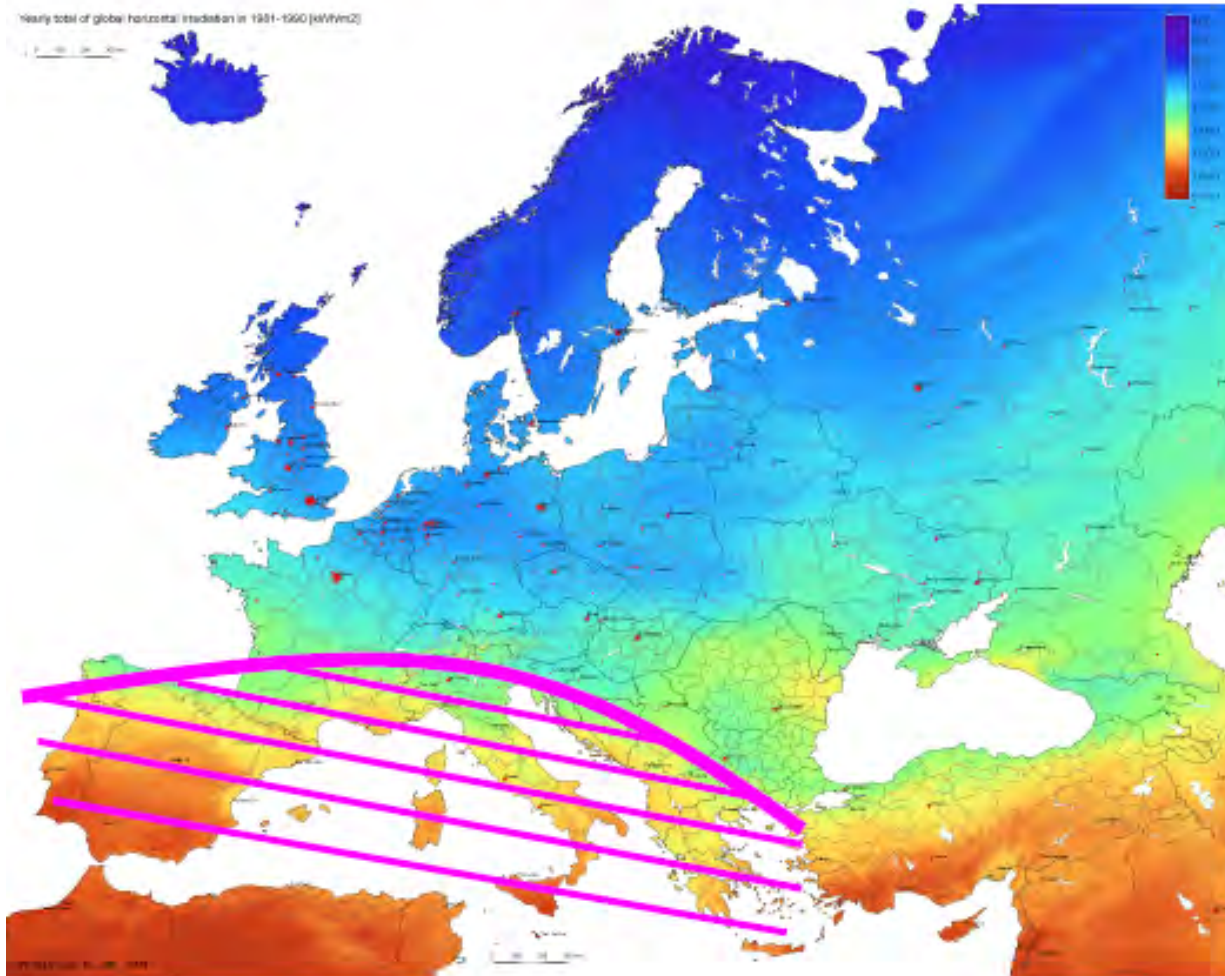
1000	0.30
------	------

1400	0.21
------	------

1800	0.17
------	------

Grid parity in Europe – 2015

(lines to guide the eye)



irradiation (kWh/m ² .yr)	PV generation cost (€/kWh)
---	-------------------------------

600	0.42
-----	------

1000	0.25
------	------

1400	0.18
------	------

1800	0.14
------	------

Strategic Energy Technology Plan (SET-Plan)

- 12%
 - μ μ
 - $< 1,5 \text{ €/W } \mu$ 2020
 - μ $< 0.06 \text{ €/kWh } \mu$ 2020
 - μ
- 9000 M€ (2010-2020)

/

. . . - 2005	100 «	μ »
.3468 / 2006	μ μ	μ : μ μ (μ μ μ 1999)
μ	10 + 10 = 10 + ?	
μμ 2007	«	»
- 2008		!
	μ «	»
.3744 / 2009	10+10 = 20	
	μ	μ

μ

«

»

(2007)

•

2100

2.500 MW

•

6800

730 MW

(2009)

•

170 MW

(

)

–

100

•

110 MW

– 1100







-

- μ

- Thin film

-

 μ

- Trackers

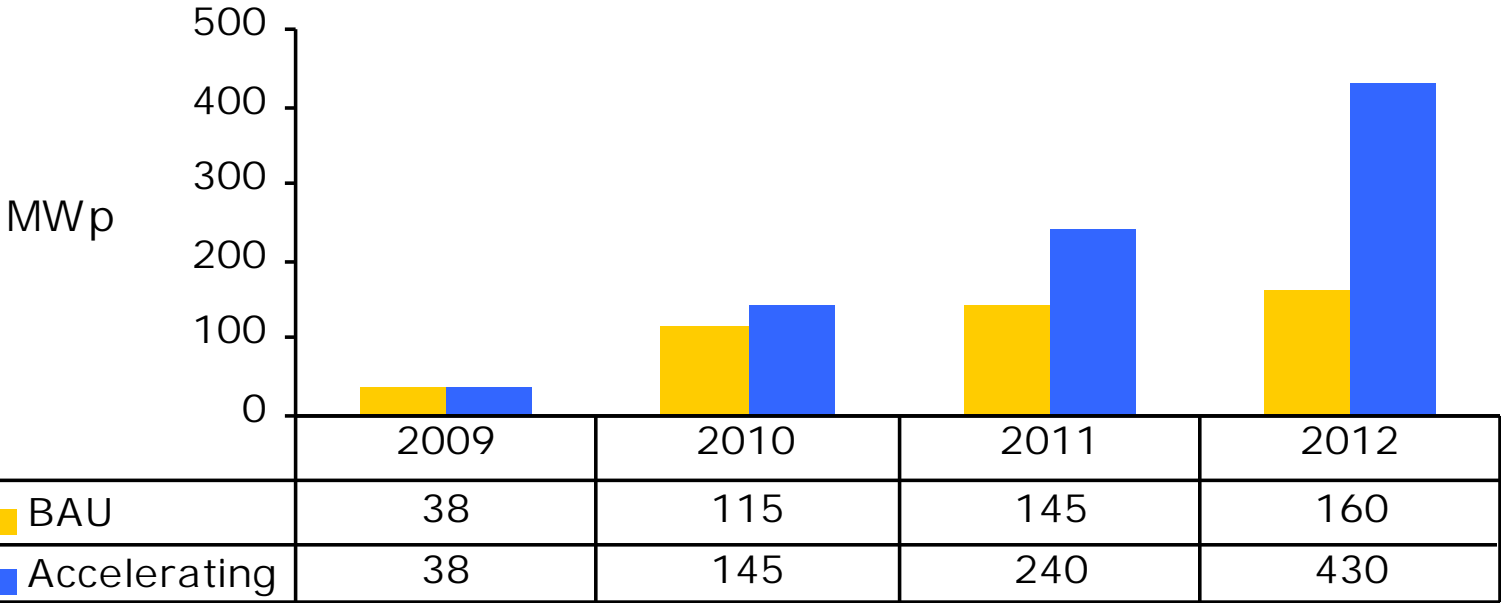
-

 μ μ μ

-

 28% μ $($ $)$

Annual PV market in Greece



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3468

μ

μ

μ

μ

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Year	Month	Mainland Grid		Autonomous island grids	
		>100 KWp	100 KWp	>100 KWp	100 KWp
2009	February	400.00	450.00	450.00	500.00
2009	August	400.00	450.00	450.00	500.00
2010	February	400.00	450.00	450.00	500.00
2010	August	392.04	441.05	441.05	490.05
2011	February	372.83	419.43	419.43	466.03
2011	August	351.01	394.88	394.88	438.76
2012	February	333.81	375.53	375.53	417.26
2012	August	314.27	353.56	353.56	392.84
2013	February	298.38	336.23	336.23	373.59
2013	August	281.38	316.55	316.55	351.72
2014	February	268.94	302.56	302.56	336.18
2014	August	260.97	293.59	293.59	326.22
Year 'n' from 2105 onwards SMC = System Marginal Cost		$1.3 * SMC_{n-1}$	$1.4 * SMC_{n-1}$	$1.4 * SMC_{n-1}$	$1.5 * SMC_{n-1}$

• 5

>200 MW

•

10 EPC

μ

μ

1 MW

•

μ

μ

μ

100 kW.