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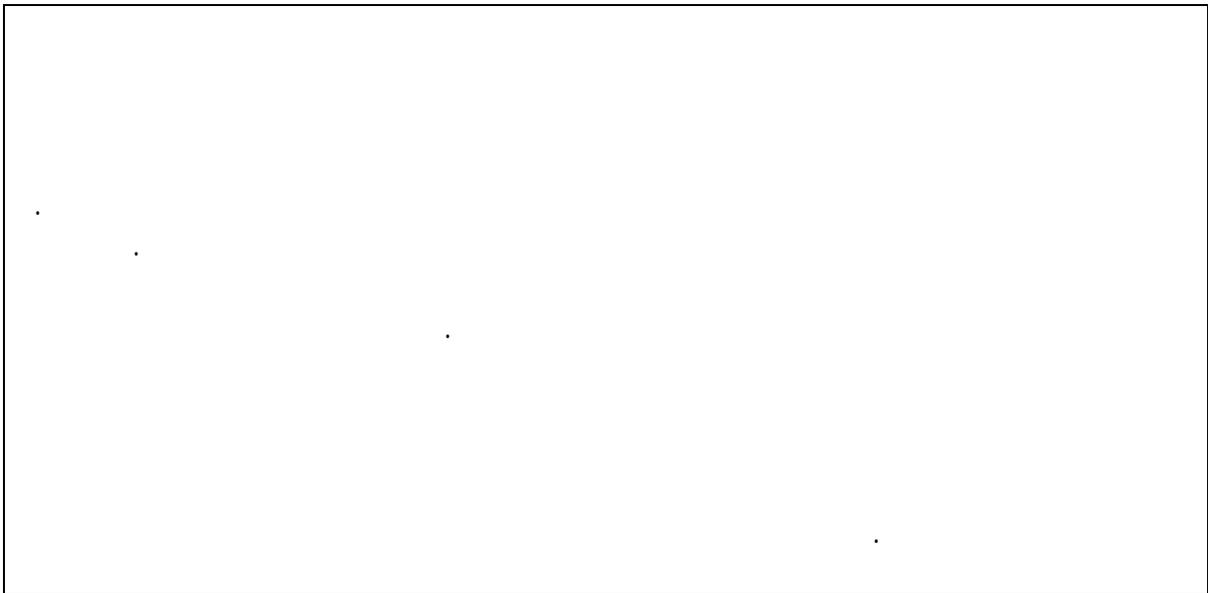
E/ESCWA/SDPD/2010/IG.1/4(Part II)  
20 September 2010  
ORIGINAL: ARABIC



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 .(Le guide de L'éolien, techniques et pratiques, Corinne Dubois, Eyrolles 2009 : )  
 159 1992 2.5

.(Renewable Energy Policy Network for the 21<sup>st</sup> Century-REN 21. [www.ren21.net](http://www.ren21.net) : ) 2009  
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2500 3000 1200  
 .(European Wind Energy Association-EWEA. [www.ewea.org](http://www.ewea.org) : )

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([www.wind-energy-the-facts.org](http://www.wind-energy-the-facts.org))

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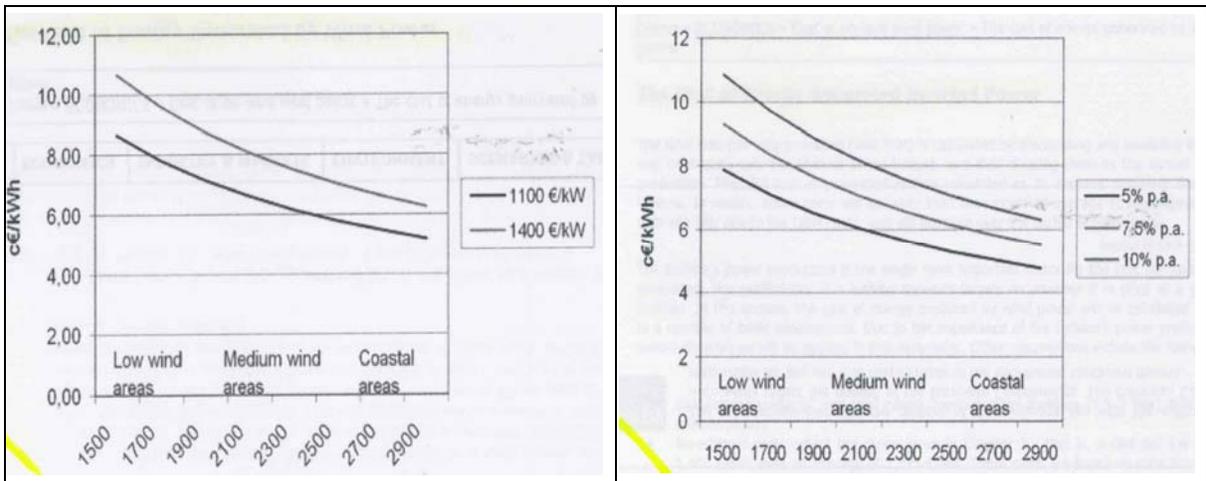
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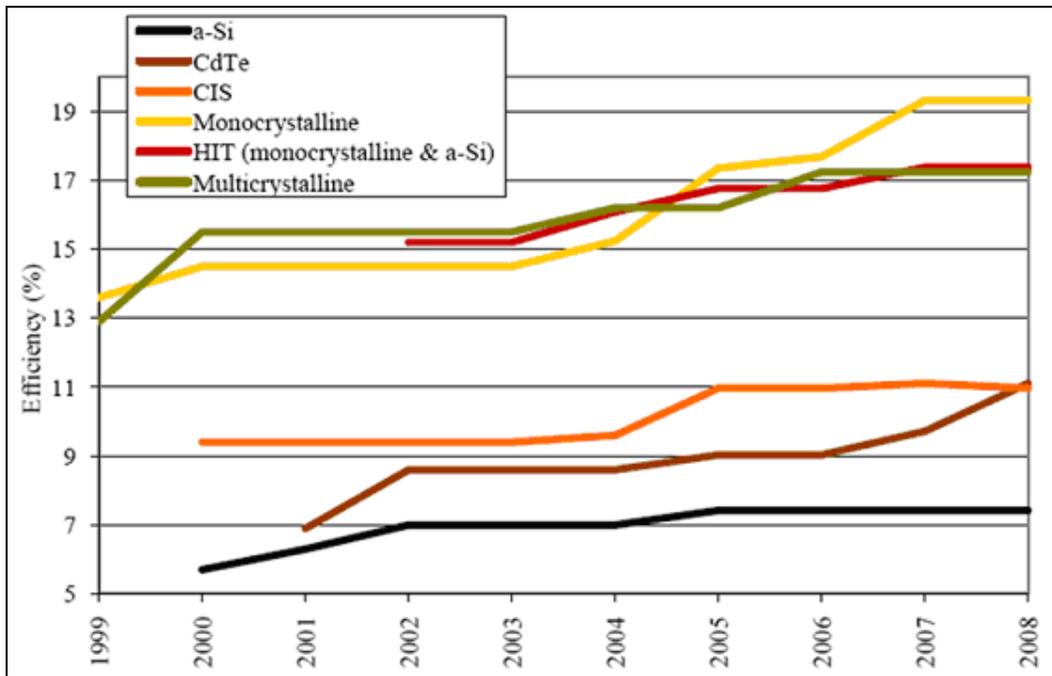
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.US Department of Energy : \_\_\_\_\_

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.(EurObserv'ER Barometer. [www.erec.org/projects/finalised-projects/euroobserver.html](http://www.erec.org/projects/finalised-projects/euroobserver.html) : )

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(2008)

Technology	Price (2008 \$/Wp)	Manufacturing Cost (2008 \$/Wp)	Conversion Efficiency
High-efficiency monocrystalline silicon	\$3.83	\$2.24	17.5%
Multicrystalline silicon	\$3.43	\$2.12-\$3.11 <sup>40</sup>	13.5%
Amorphous silicon (a-Si) thin film	\$3.00	\$1.80	6.5%
Copper indium diselenide/copper indium gallium diselenide (CIS/CIGS) thin film	\$2.81	\$1.26	10.2%
Cadmium telluride (CdTe) thin film	\$2.51	\$1.25	10.0%
Mehta and Bradford 2009			

[www.energy.gov](http://www.energy.gov) : \_\_\_\_\_

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2015	2005	
27	25	<b>/Wafer Silicone (84% of PV produced in 2008)</b>
20.00	60.00-45.00	( ) Polysilicon
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15	13	<b>/a-Si Based Thin-Film</b>
13-10	8-5	
0.70	2.00-1.00	( )
18-16	10	<b>/c-Si Film</b>
16-13	6-5	
0.70	3.00-2.00	( )
20-18	16.5	<b>/CdTe thin film</b>
13	9	
2.00	5.00-4.00	( )
0.08-0.07	0.22-0.18	( )
23-21	19.5	<b>/CIGS</b>
15-10	11-5	
3.00	12.00-5.00	( )
42	37-35	<b>/(III-V) Concentrator PV</b>
26-22	26-20	(Si)
48	40.7	(III-V)
28	26.8	(Si)
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12-3.5	3150-2550	14-5	3670-2960	
30.5-14	2400-2010	75.5-36	6800-5730	
22-7	2160-1730	37-13.5	4500-3470	
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(Mediterranean Solar Plan-MSP)

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(concentrating solar power-CSP)

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(E/ESCWA/ENR/2001/4/Add.1)

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