



MARTIFER
SOLAR
Pure Energy

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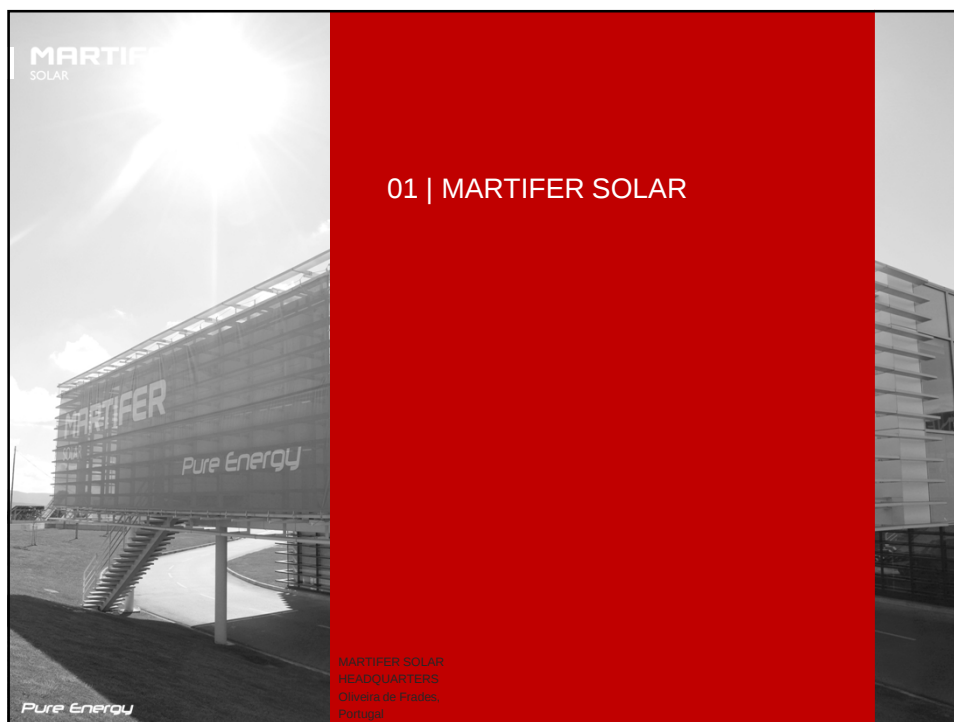
Pure Energy

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MARTIFER SOLAR	AGENDA
1	Martifer Solar
2	Referências
3	Energia Solar
4	Fotovoltaico
5	Análise de Mercado
6	Centros Escolares

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GRUPO MARTIFER

Actividades: Construção | Solar

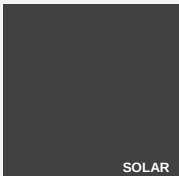
3,000 Colaboradores



METALLIC
CONSTRUCTION



MARTIFER
CONSTRUCTION



SOLAR



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OVERVIEW



Martifer Solar

- Início de actividade em 2006
- Sede: Oliveira de Frades | Portugal
- 400 Colaboradores



Period	Capacity (MW)
FY 08	33.2
FY 09	42.4
FY 10	103
FY 11	160.3
FY 12	256.7
Q3 13	480

Experiência comprovada com 480MW instalados em todo o mundo



SOLO



COBERTURA



BIPV



MICROGERAÇÃO

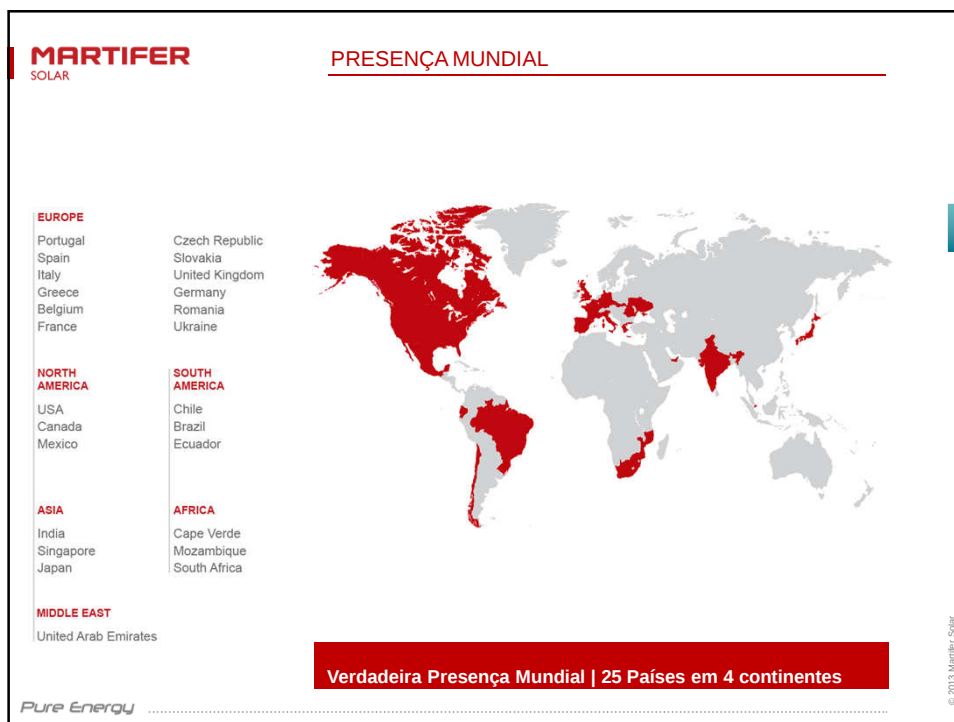


OFF GRID

Segmentos de Mercado

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PRINCIPAIS REFERÊNCIAS

526 Projectos em **4 continentes**

Asia | Europa | America | Africa





ASIA



EUROPE



AMERICA



AFRICA

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PRINCIPAIS REFERÊNCIAS

Dos Maiores projectos na América Latina

La Paz, MEXICO 38.7 MWp





📍	La Paz
🏠	100 (ha)
⚡	38.7 MWp
🏠	60,000 (t)
🏠	47,344

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PRINCIPAIS REFERÊNCIAS

Europa

417 projectos com 332 MW em 11 Países

*updated Nov 2013



SOLO | ESTRUTURA FIXA



SOLO | TRACKER



COBERTURAS



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REFERÊNCIAS

BIPV

Instalações com integração arquitetónica



2014 WORLD CUP, MINEIRÃO STADIUM | BRAZIL



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REFERÊNCIAS

Minigeração - Portugal

45 Instalações – 6 MW

1ª Instalação ligada em Média Tensão em Portugal



Dardico



Grupo Valouro



Grupo Ferpinta

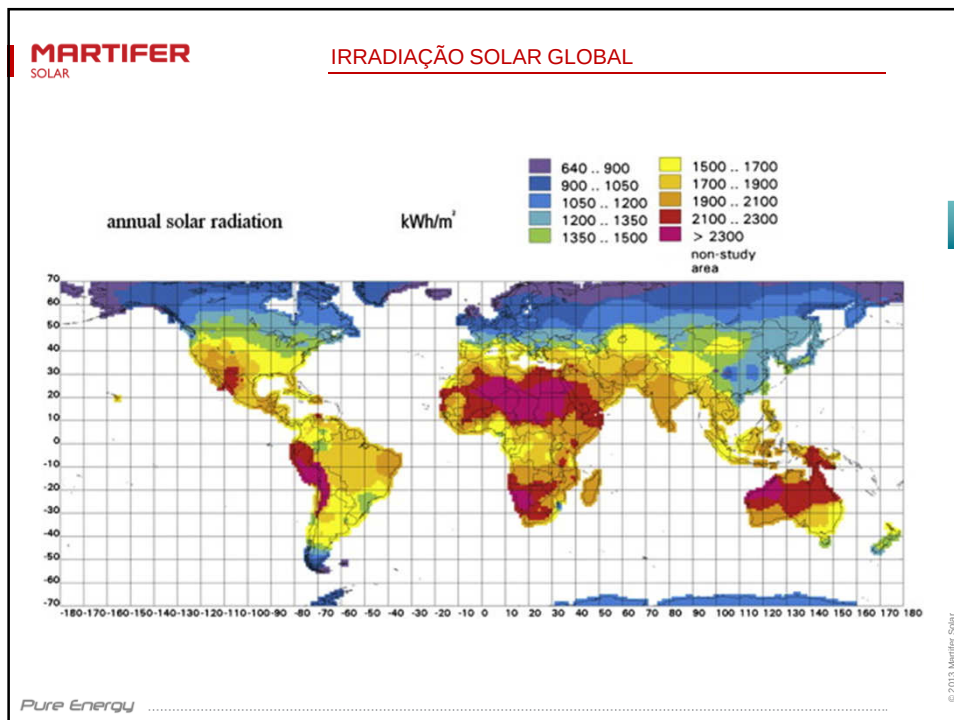
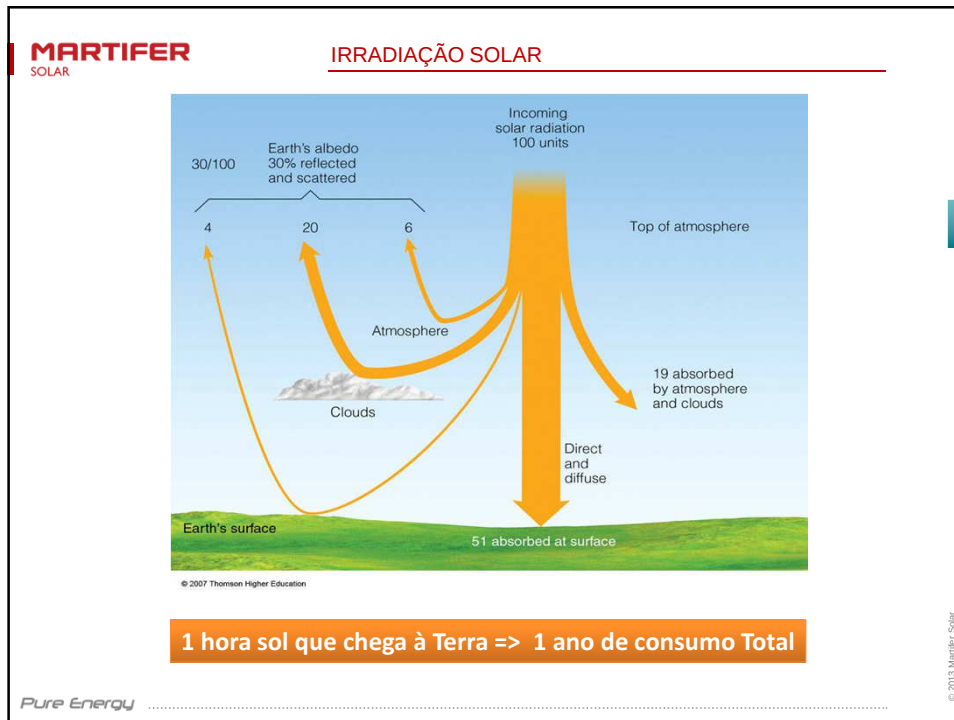


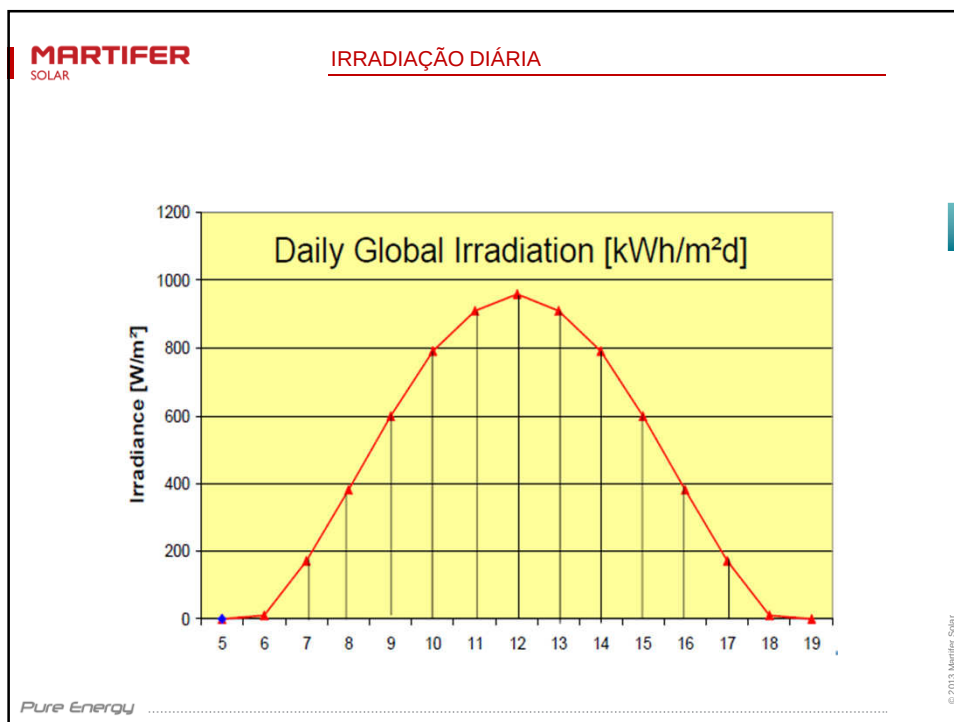
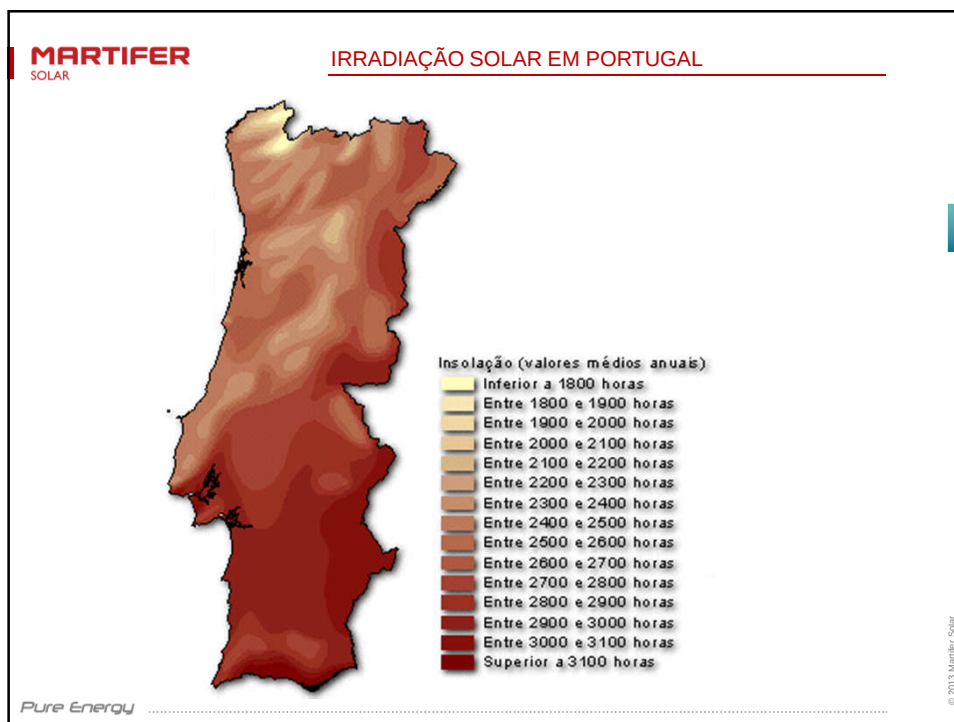
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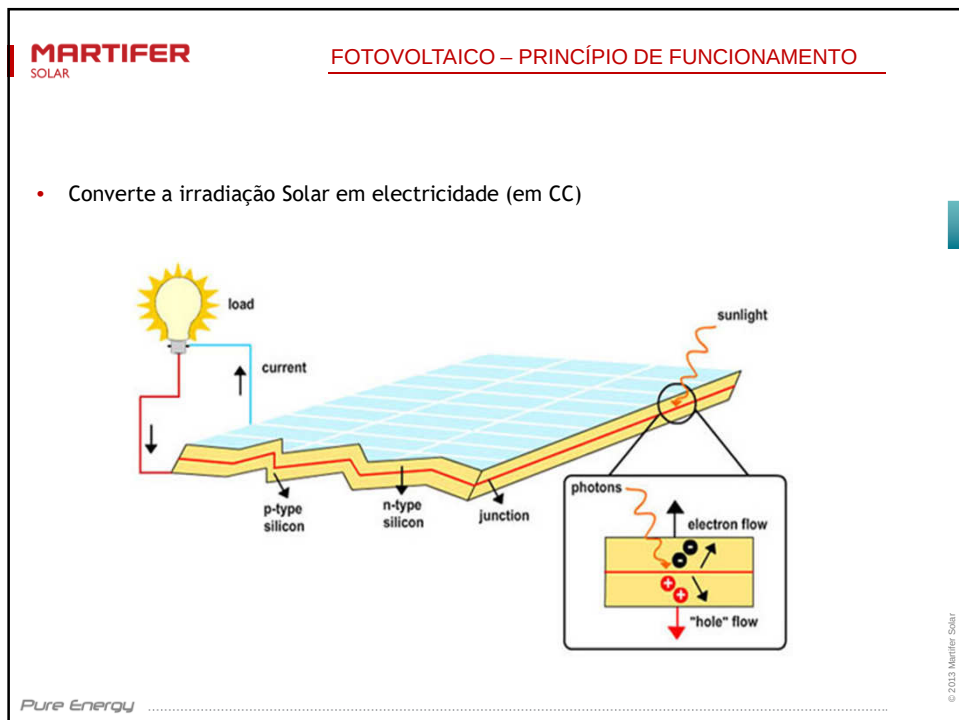


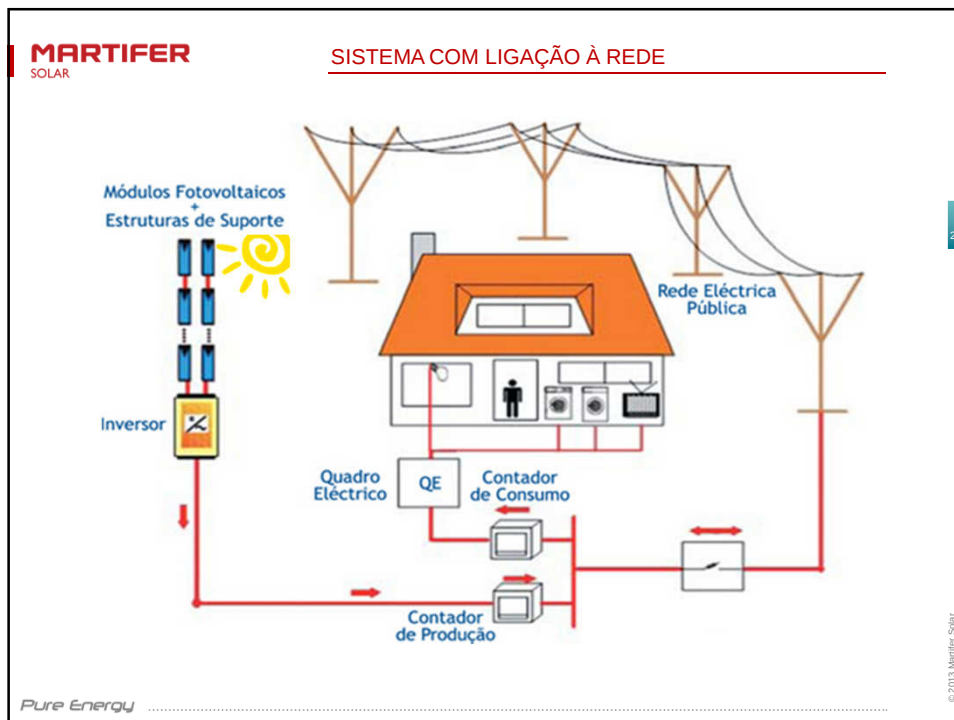
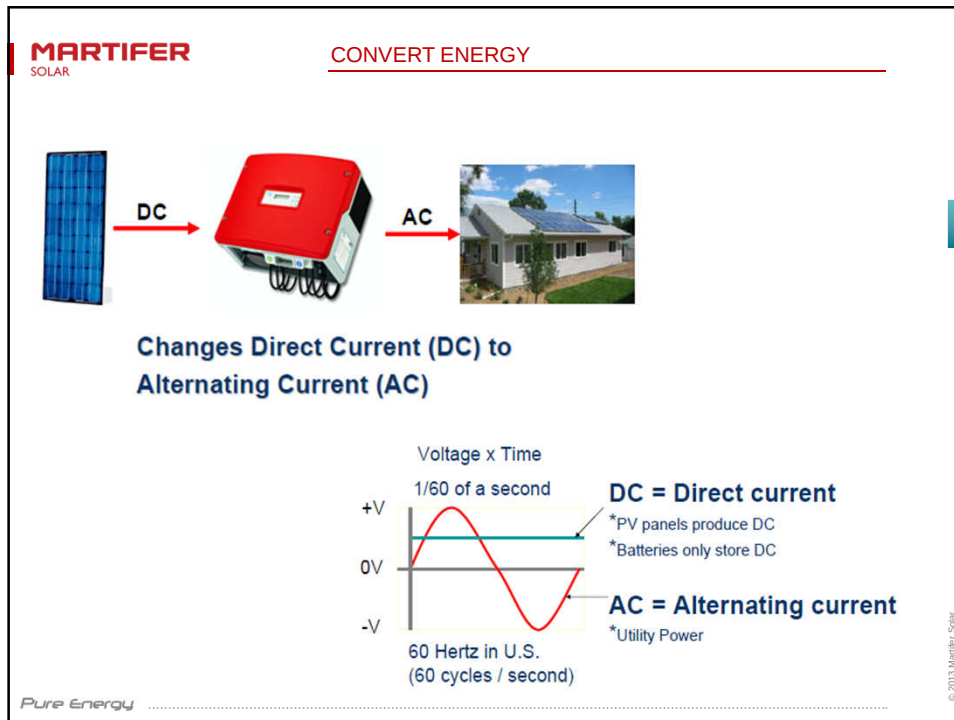
03 | ENERGIA SOLAR

ALCOBENDAS
Madrid,
Spain









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SISTEMA SEM LIGAÇÃO À REDE



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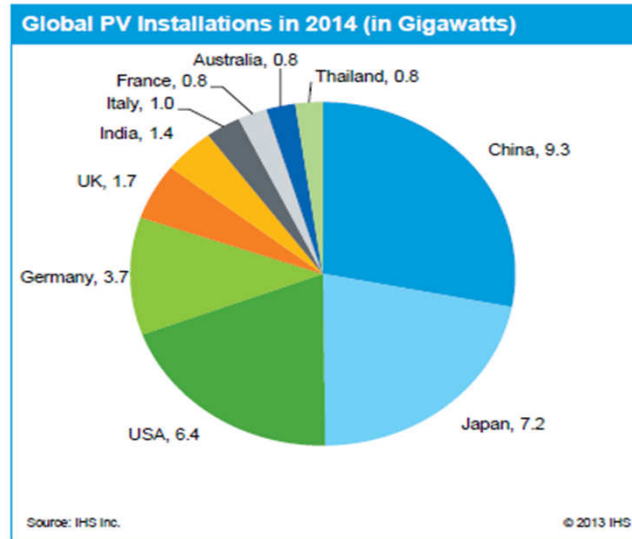
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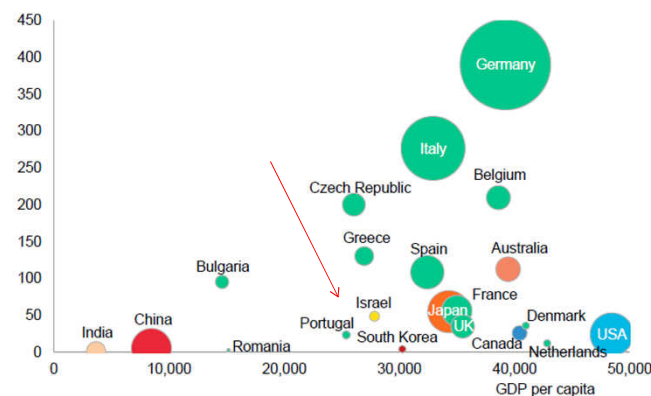
05 | ANÁLISE DE MERCADO

ALCOBENDAS
Madrid,
Spain





Installed PV per capita, end of 2012, conservative scenario (W/person)



Notes: GDP per capita adjusted for purchasing power, in 2011 \$
 Sources: Bloomberg New Energy Finance

MEMC

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MARKET SHARES 2013 E

EPC & Integrator Market Share & Project Market Tracker

World PV Integrator Market Shares

Company	MW Installed					Share						
	2009	2010	2011	2012	2013 Estimate	12-13 Change	2009	2010	2011	2012	2013 Estimate	12-13 Change
1 First Solar	43.5	138.0	341.0	516.0	1,100.0	+584.0	0.8%	0.9%	1.6%	2.1%	4.1%	+1.9%
2 China Power Investment Corporation	0.0	30.0	384.0	320.0	700.0	+380.0	0.0%	0.2%	1.8%	1.3%	2.6%	+1.3%
3 GD Solar	0.0	30.0	190.0	200.0	600.0	+400.0	0.0%	0.2%	0.9%	0.8%	2.2%	+1.4%
4 SunEdison	40.0	167.0	296.0	389.0	465.0	+76.0	0.7%	1.0%	1.4%	1.6%	1.7%	+0.1%
5 SunPower Corporation	132.0	219.0	291.0	190.5	319.3	+128.8	2.3%	1.3%	1.4%	0.8%	1.2%	+0.4%
6 Shanghai Aerospace Automobile Electromechanical Co.	0.0	0.0	52.0	127.0	300.0	+173.0	0.0%	0.0%	0.2%	0.5%	1.1%	+0.6%
7 Astronergy	14.0	18.0	21.0	100.0	300.0	+200.0	0.2%	0.1%	0.1%	0.4%	1.1%	+0.7%
8 Jiangsu Zhentia New Energy	0.0	10.0	190.0	200.0	300.0	+100.0	0.0%	0.1%	0.9%	0.8%	1.1%	+0.3%
9 China Guangdong Nuclear Development	0.0	20.0	200.0	180.0	300.0	+120.0	0.0%	0.1%	0.9%	0.7%	1.1%	+0.4%
10 Abengoa Solar	0.0	0.0	5.0	9.0	266.0	+257.0	0.0%	0.0%	0.0%	0.0%	1.0%	+0.9%
11 China Energy Conservation and Energy Protection Group	0.0	0.0	56.0	150.0	250.0	+100.0	0.0%	0.0%	0.3%	0.6%	0.9%	+0.3%
12 BELECTRIC	108.0	313.0	403.6	324.0	246.0	-78.0	1.9%	1.9%	1.9%	1.3%	0.9%	-0.4%
13 Activ Solar	0.0	2.5	185.0	125.9	231.3	+105.4	0.0%	0.0%	0.9%	0.5%	0.9%	+0.3%
14 Fluor Corporation	0.0	0.0	0.0	20.0	227.0	+207.0	0.0%	0.0%	0.0%	0.1%	0.8%	+0.8%
15 SPCG PCL	0.0	18.0	24.4	72.9	226.7	+153.8	0.0%	0.1%	0.1%	0.3%	0.8%	+0.5%
16 Martifer Solar	9.2	60.6	57.3	96.4	202.0	+105.4	0.2%	0.4%	0.3%	0.4%	0.7%	+0.3%
17 TBEA Sun Oasis	0.0	50.0	250.0	250.0	200.0	-50.0	0.0%	0.3%	1.2%	1.0%	0.7%	-0.3%
18 GCL Solar	23.4	35.0	50.0	60.0	200.0	+140.0	0.4%	0.2%	0.2%	0.2%	0.7%	+0.5%
19 Enerparc	35.3	56.2	125.0	285.4	200.0	-85.4	0.6%	0.3%	0.6%	1.2%	0.7%	-0.4%
20 juwi	130.0	250.0	283.0	317.0	198.0	-119.0	2.2%	1.5%	1.3%	1.3%	0.7%	-0.6%
21 SWL India	0.0	1.0	29.0	52.2	187.3	+117.1	0.0%	0.0%	0.1%	0.2%	0.6%	+0.4%
22 Bechtel	0.0	0.0	0.0	130.0	150.0	+20.0	0.0%	0.0%	0.0%	0.5%	0.6%	+0.0%
23 Enfinity	70.0	117.0	170.0	83.2	150.0	+66.8	1.2%	0.7%	0.8%	0.3%	0.6%	+0.2%
24 Bester	0.0	0.0	32.0	46.8	140.9	+94.1	0.0%	0.0%	0.1%	0.2%	0.5%	+0.3%
25 L&T ECC Solar	0.4	0.2	114.0	160.0	140.0	-20.0	0.0%	0.0%	0.5%	0.7%	0.5%	-0.1%
26 Gestamp Solar	10.0	21.1	90.0	87.0	139.0	+52.0	0.2%	0.1%	0.4%	0.4%	0.5%	+0.2%
27 Phoenix Solar	56.1	110.8	140.0	139.0	130.0	-9.0	1.0%	0.7%	0.7%	0.6%	0.5%	-0.1%
28 BIOSAR Energy	10.5	14.7	71.6	66.0	104.3	+38.3	0.2%	0.1%	0.3%	0.3%	0.4%	+0.1%
29 Linuo Solar Power	0.0	0.0	40.0	50.0	100.0	+50.0	0.0%	0.0%	0.2%	0.2%	0.4%	+0.2%
30 Shenhua Guohua Energy Investment Co., Ltd	0.0	0.0	0.0	0.0	100.0	+100.0	0.0%	0.0%	0.0%	0.0%	0.4%	+0.4%

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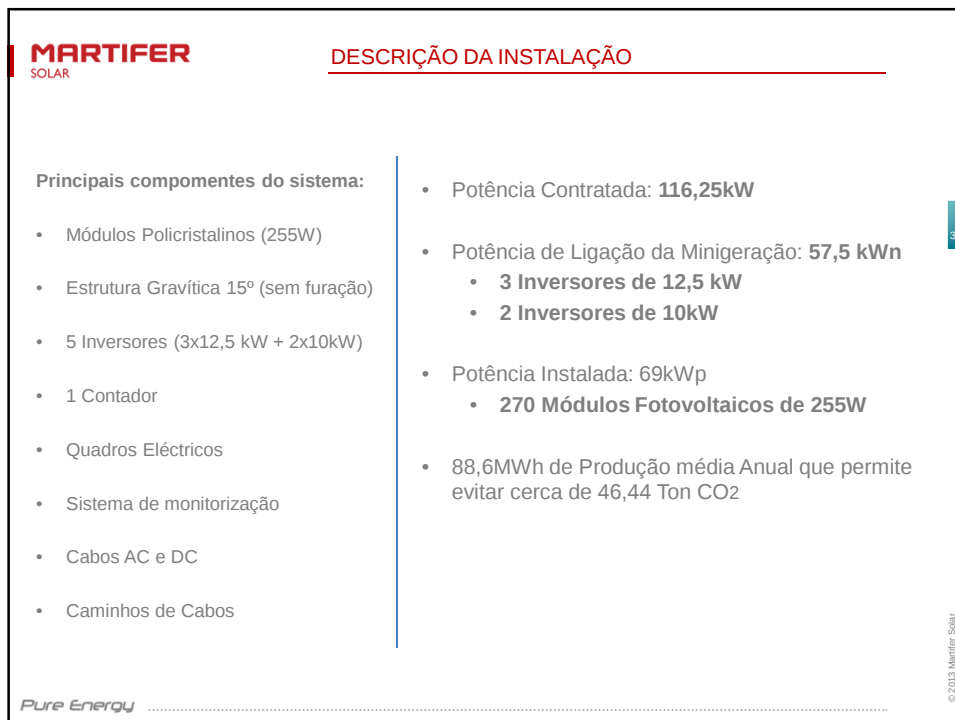
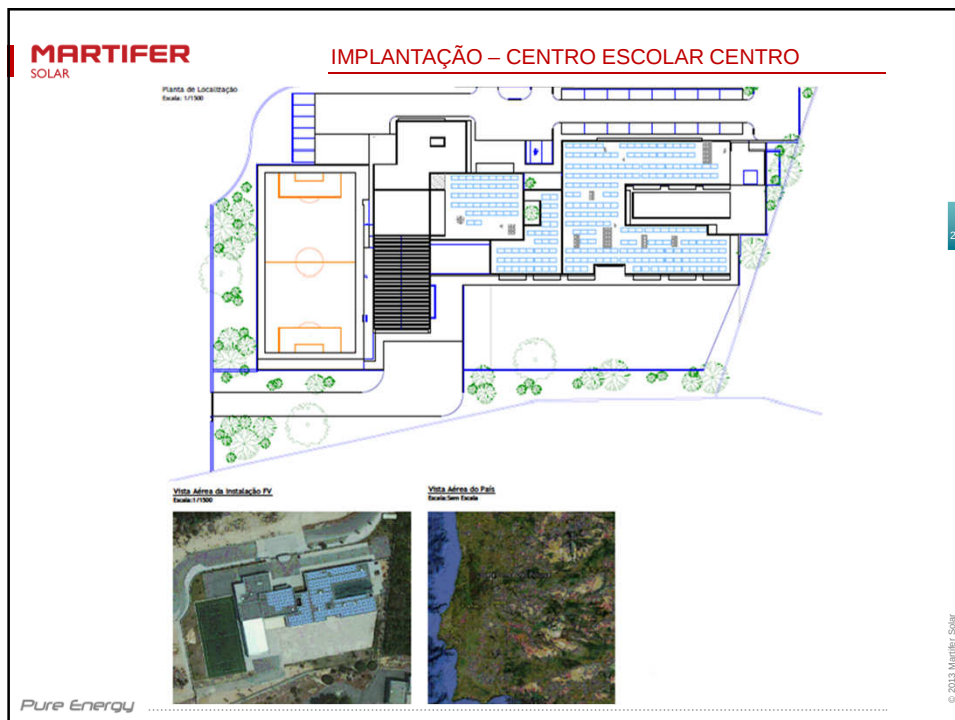
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06 | CENTROS ESCOLARES

A Construção

MORATALLA
Murcia,
Spain



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COLOCAÇÃO DE ACESSOS E PROTECÇÕES



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TRANSPORTES DOS EQUIPAMENTOS



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ESTRUTURAS E CAMINHOS DE CABOS



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ESTRUTURAS DE FIXAÇÃO E CAMINHOS DE CABOS



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MÓDULOS E INVERSORES



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LIGAÇÕES ELÉTRICAS

Transformadores de Intensidade (TI's)
Seccionador Fusível
Contador de Energia



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LIGAÇÕES ELÉCTRICAS

Inversor
 Quadro Protecção AC (agrupa os inversores +
 protecção sistema)

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CONTADOR E ESTAÇÃO METEOROLÓGICA

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INSTALAÇÃO FV COMPLETA E PRONTA A PRODUZIR!



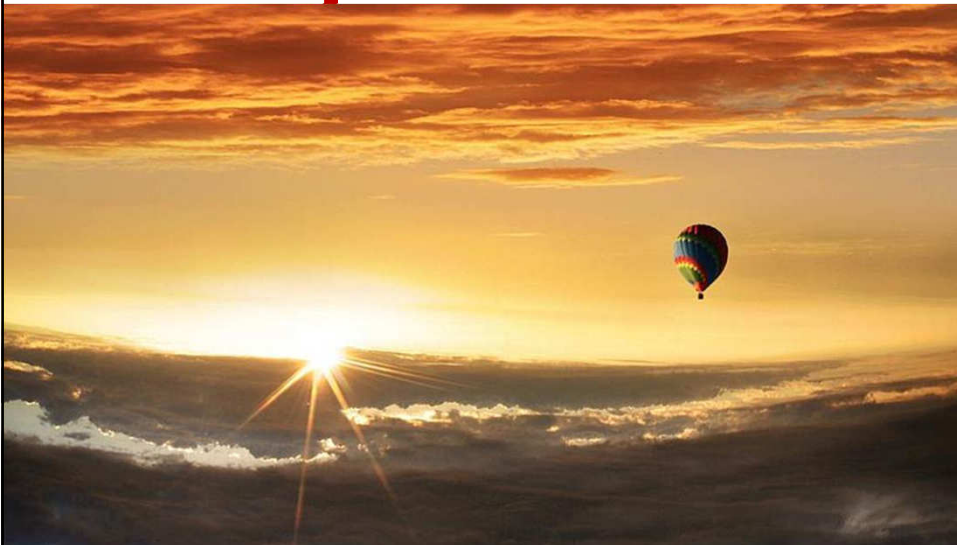
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Obrigado!





powering your future
we can do it. **Together.**

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