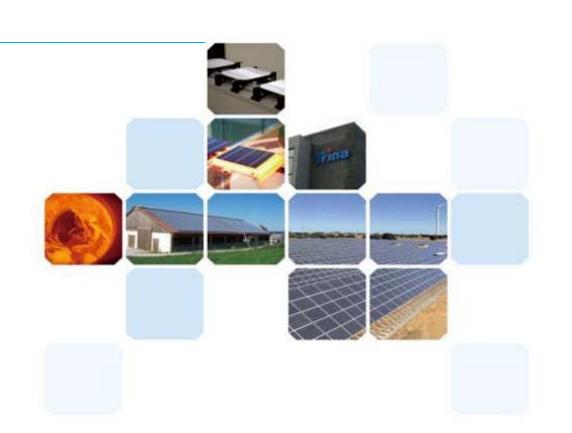


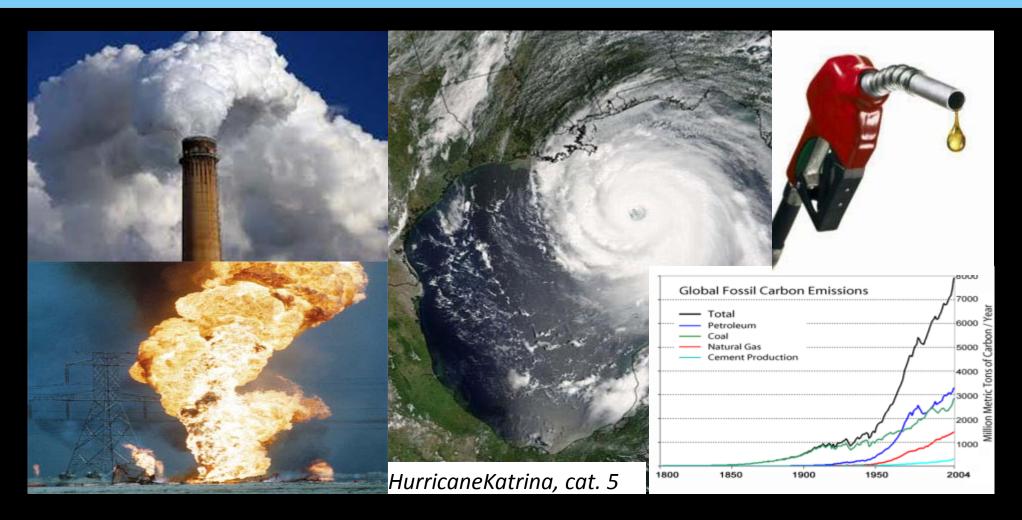
PV Sustainability Through Collaborative Quality Management

Jifan Gao

Chairman & CEO Trina Solar



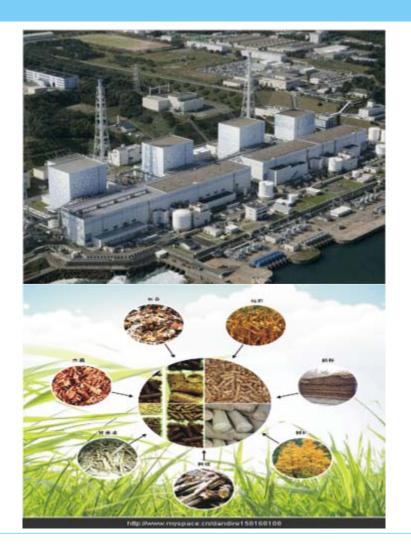
Climate Change and Energy Crisis Endanger Human





Clean Energy is Our New Hope







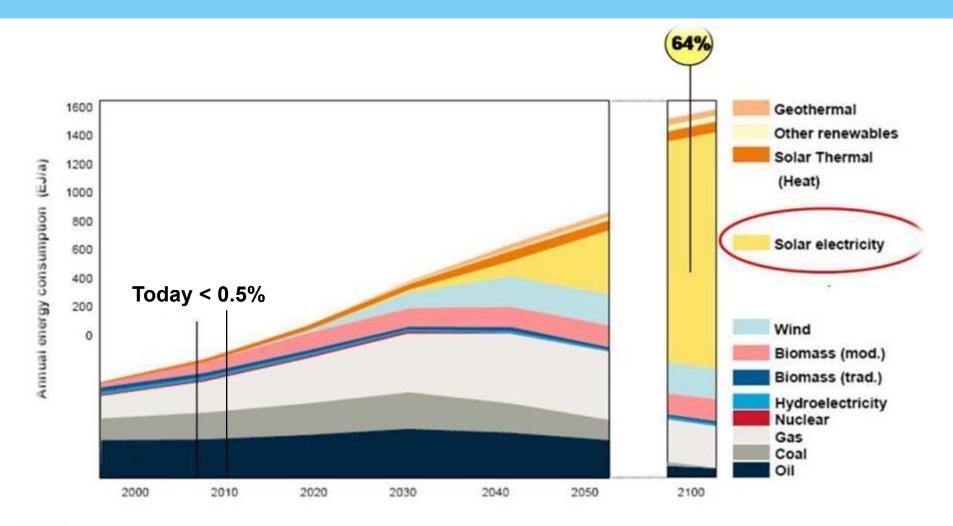
Solar—Safe and Clean Energy for the future







21st Century will be the Solar Century

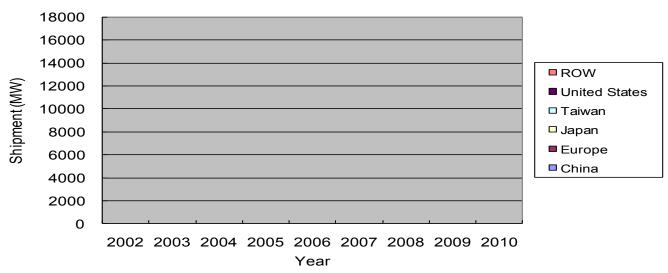




PV Has Been Scaled Up

2010, China Mainland produced about 50% of PV worldwide. In MW

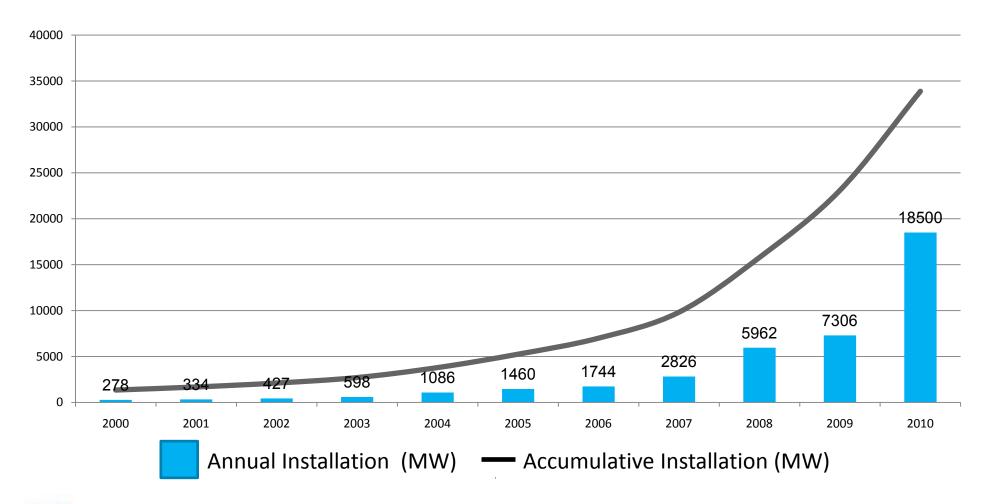
Region	2002	2003	2004	2005	2006	2007	2008	2009	2010
China	10	10	50	200	400	1088.0	2600.0	4011.0	8000.0
Europe	135	193.35	314	470	657	1062.8	2000.0	1930.0	2000.0
Japan	251	363.91	602	833	928	920.0	1300.0	1508.0	1700.0
China (Taiwan)						450.0	900.0	1300.0	2500.0
United States	120	103.2	140	154	202	266.1	432.0	595.0	800.0
ROW	45	73.8	89	102	314	663.1	668.0	1316.0	1200.0
Total	561	744.26	1195	1759	2500	4000.0	7900.0	10660.0	16200.0





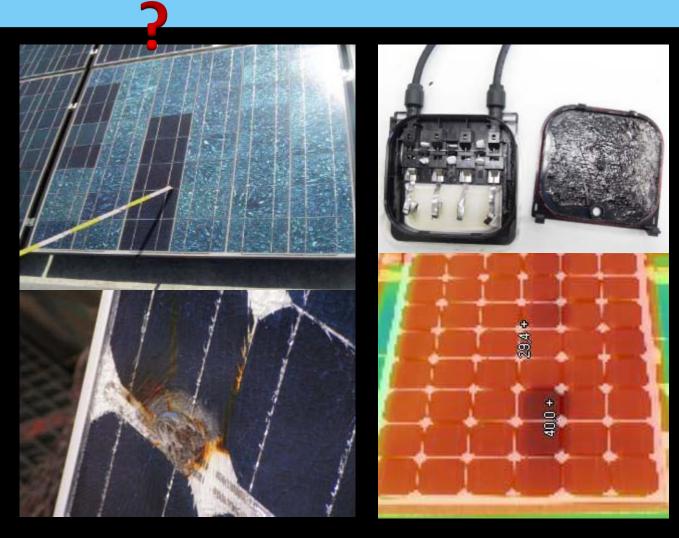
Source: China NDRC, Q1 2011

Global PV Installment Keep Growing



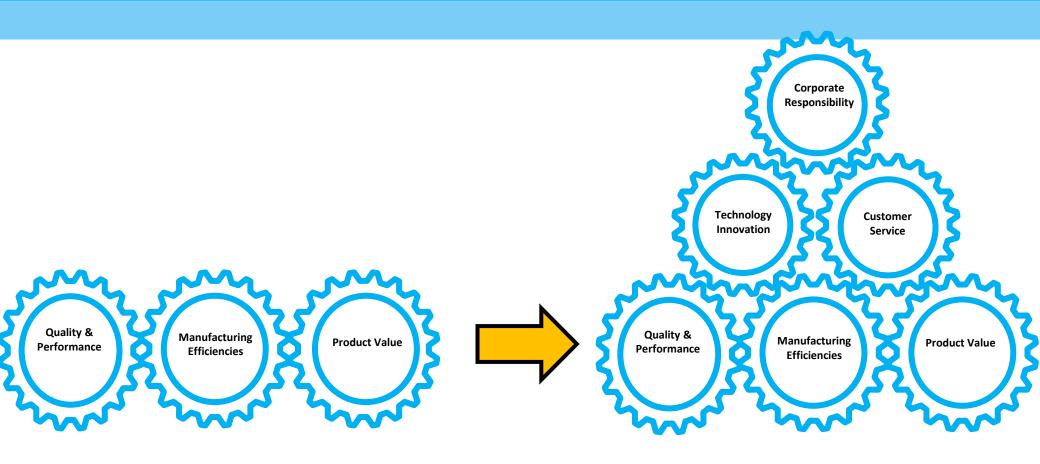


Quality Still Under Challenge





Seeking for Excellence, Seeking for Win-win





Trina Solar Company Snapshot

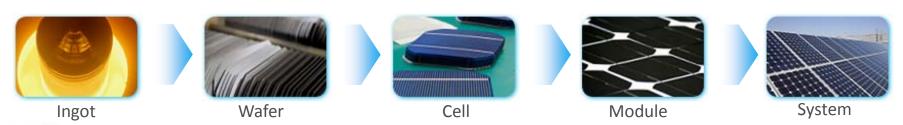
Trinasolar

- Founded in 1997, in Changzhou, China
- \$1.86Bn Revenue in 2010
- >17,000 employees worldwide
- Listed on the NYSE (under TSL ticker)



One integrated manufacturing campus

Our Advantage: Vertically Integrated Business Model





Fast Growth

Module Shipments, in MW

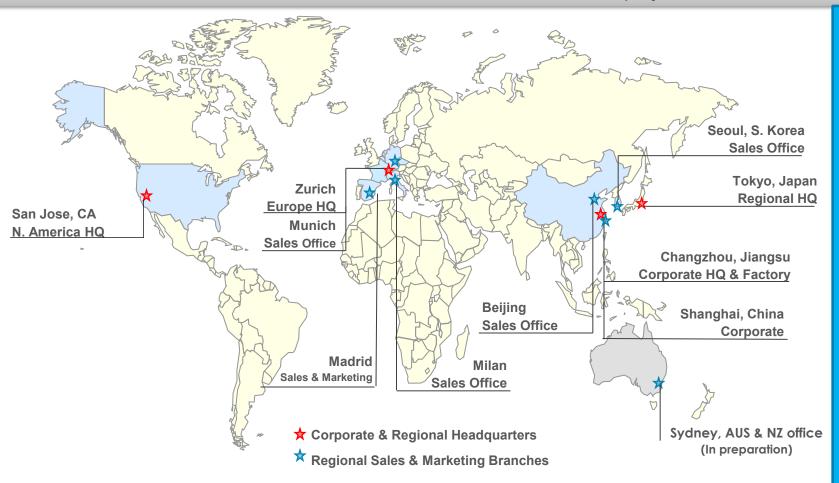




International Organization

11 branch locations,

16,000+ employees from about **20** nationalities







Support Coping with Climate Change



Trina Solar Establish



Come up with China1st Conceptual **BIPV**



Listed on **NYSE**



China State **Key PV S&T** Lad approved to set in Trina



Milestone: annual sales 10 Bil **RMB**



WEF 1st Shaper for Solar Globally

1997

2000

2006

2009

2010

1997



2007



COPENHAGEN

2010



2011



KYOTO PROTOCOL



UN Summit for Climate Change



Copenhagen COP15

Cancun COP16

Durban COP17



Model of Green Growth

GreenTech Media 2010 ranking based on quality, capacity and technology

First Solar (FSLR U.S.)

Trina Solar (NYSE: TSL) (China)

Yingli Green Energy (NYSE: YGE) (China)

Suntech Power(NYSE: STP) (China)

REC (REC.OL) (Norway)

Astronergy (China)

Solibro GmbH (Germany)

LDK Solar (NYSE: LDK) (China)

SunPower (Nasdaq: SPWRA) (U.S.)

Solar Frontier (5002.T)(Japan)

Sharp (SHCAY.PK) (6753.T in Japan)

Canadian Solar (Nasdaq: CSIQ) (China)

EGing Photovoltaic Technology (China)

Abound Solar (U.S.)

Solarfun (Nasdaq: SOLF) (China)





World-Class Environment, Health, Safety

Solar Scorecard 2011, world ranking for PV manufacturer's toxics coalition

COMPANY	OVERALL	CCORE	DECACT INC	CDEEN LODG	TOVICE	DICCI OCUDE	The	Key for Overall Score
COMPANY	OVERALL	. SCOKE	RECYCLING	GREEN JOBS	TOXICS	DISCLOSURE	6	Sunny
SolarWorld	0	91		0	2	2		This company is an industry leader and is on the right track toward ensuring that solar PV is green and clean.
Trina Solar		89			2	2	<u> </u>	Partly Sunny This company has taken some big steps toward creating a clean PV industry but does not address all of the issues effectively.
REC		87	2	0	2	9	400	Cloudy
First Solar		87	0	0	2	2		This company responded to the survey but has not taken the necessary steps toward creating a clean PV industry.
SunPower	0	85	2.	0	0	2	Ŕ	Rainy This company did not respond to our survey and is not transparent; it's not clear if they are committed to sustainability and social justice.
Yingli Solar	<u> </u>	72	2	0	2	400		
*Sharp and Suntech contact	ed SVTC and worke	ed to have a cons	tructive dialogue, b	ut did not complete	the survey.			



(1) Solar scorecard 2011

Sustainability Leader

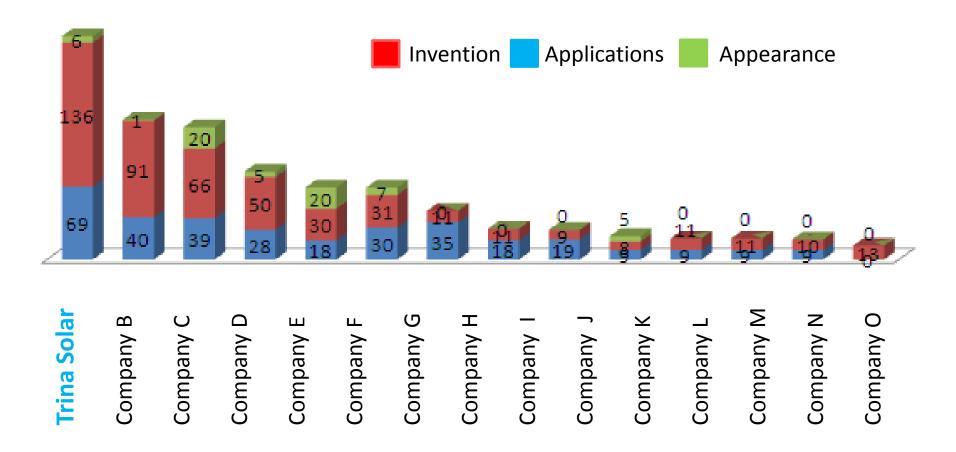
PRTM 2011 ranking based on sales growth, brand, market share, profitability, marcap and financing status (1)

Name	Country	Score	Score change 2010 to 2011	2011 Rank	Rank change 2010 to 2011
Trina Solar Limited	CN	51.5	-10.5	1	1
First Solar, Inc.	US	63.5	48.5	2	↓ -1
LDK Solar Co. Ldt.	CN	63.5	N/A	2	N/A
Renesola Ltd.	CN	63.5	-109.5	2	1 21
JA Solar Holdings Co., Ltd.	CN	65.0	-53.5	5	1 9
Yingli Green Energy Holding Co., Ltd.	CN	80.5	-7.0	6	⇒ 0
Gintech Energy Corporation	TW	90.0	-23.5	7	1 6
Motech Industries, Inc.	TW	91.0	-37.5	8	☆ 7
Renewable Energy Corporation ASA	NO	94.5	26.5	9	↓ -4
JinkoSolar Holding Co., Ltd.	CN	104.0	N/A	10	N/A
Neo Solar Power Corp.	TW	106.5	N/A	11	N/A
Suntech Power Holdings Co., Ltd.	CN	109.0	43.5	12	↓ -9
Hanwha SolarOne, Ltd.	CN	121.0	11.0	13	↓ -2
SunPower Corporation	US	124.5	57.0	14	↓ -10
Canadian Solar Inc.	CN	125.5	26.5	15	"- -5



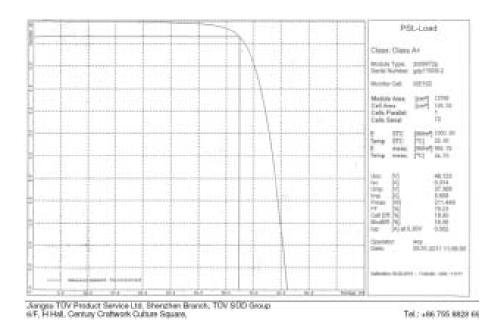
Innovation Championing China PV Industry

China Listed PV Companies

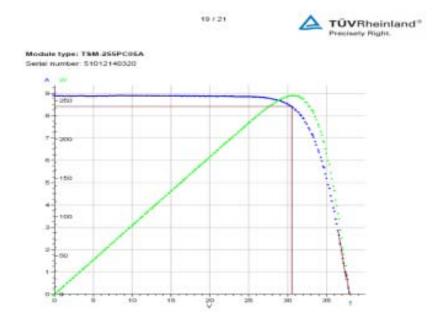




Innovation Progress



Pmax=211W Cell Eff%:18.80%; Module eff:16.56%

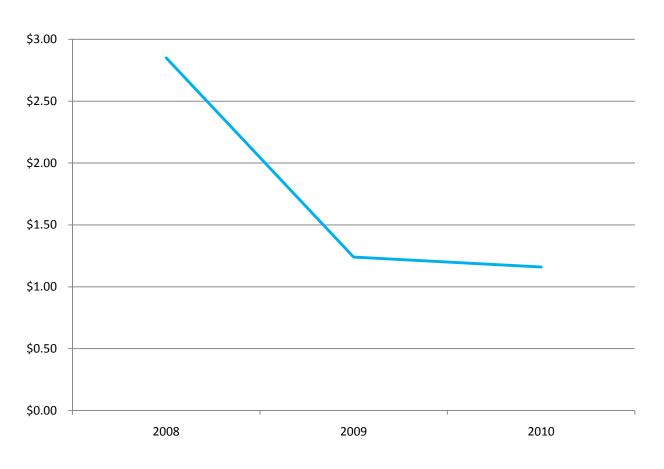


Pmax=257.2W Cell Eff%:17.6%; Module eff:15.7%



Remaining Cost-Leadership with Best Quality

In-house Blended (Mono & Multi) Cost per Watt (US\$/W)





China State Key PV Science & Technology Lab @ Trina



Committee members: Top Experts in PV industry

Director: Shen Hui

Deputy Director: Dr. Huang Qiang from Trina

Chu Junhao, Academician from

Shanghai Institute of Technical Physics

You xiaozeng, Academician from Nanjing University

Wang Zhonglin, Academician from UGA

Yang Deren, professor from Zhejiang University

Ji Liangjun, researcher from UL, USA

Bett, deputy director from ISE fraunhofer, Germany

Zhangyong, professor from UNC

Arnulf, researcher from JRC, Europe

Liu Zhengxin, reseacher from AIST, Japan

Dr. Feng Zhiqiang, from Trina

Dr. Zhang Zhen, from Trina



Collaboration to Bring Solar to Mainstream

70 **Researchers:** 10 PhDs from ISFH (DE), ANU(AU), NUS(SG), YNU(JPN), CAS(CN), ...



Member of academic committee from JRC (EU), AIST(JPN), Georgia Tech(US), CAS(CN), ISE (DE)...



Partners: SERIS (SG), MIT (US), CAS(CN)...

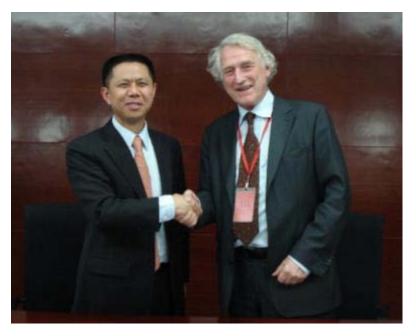




Collaboration to Bring Solar to Mainstream

Partnership with SERIS

Contract Research Agreement has been signed between Trina Solar and Solar Energy Research Institute of Singapore (SERIS) to develop super efficiency (21.5%-23.5%) silicon back-contacts solar cell







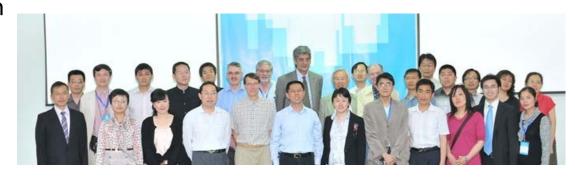
Partnership with IEC/TC 82 with a Great Start

IEC/TC82 Annual Conference in China

- Trina Solar starts to contribute to IEC/TC 82
- 2 Standards raised by Trina Solar representing China PV manufacturers
- Both believe that the collaboration need to be reinforced
- Trina Solar is willing to contribute more









Quality Assurance System

Forming Strategic Cooperation Partnerships with TUV, UL and CGC

Trinasolar center for excellence

 Over 30 in-house tests, allows internal testing in accordance with IEC standards and those of internationallytrusted testing bodies

UV Test











 Long-term Strategic Partnership with TUV Rheinland Group, Underwriters Laboratories Inc (UL) and China General Certification Centre (CGC).

Mechanical Loading Test





CGC

- Material & Electrical testing to increase panel durability and prolong product lifetime
- Allows Trina Solar to confidently offer customers our customers product and manufacturing warranties

Power Determination Test

Sample Tests



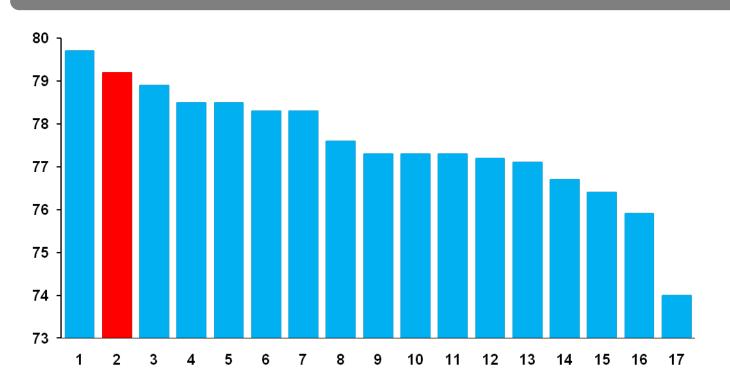






Quality Recognition: 2008

Monocrystalline Modules Ranked 2nd in the TUV Specific Energy Yield Report



14 Participants

Trina Solar
BP Solar
Energy Solutions
EverQ GmbH
Kyocera Fineceramics GmbH
REC Scanmodule AB
Scheuten Solar Technology
GmbH
Sharp Electronics Europe GmbH
Siliken S.A.
Solarwatt AG
SolarWorld AG
Solon AG für Solartechnik
3S Swiss Solar Systems AG
Suntech Power

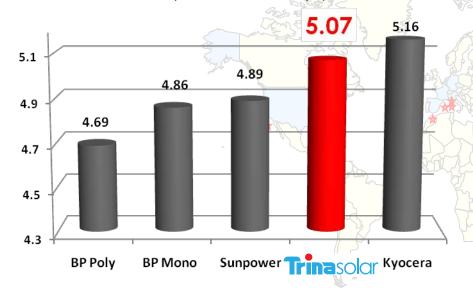
Note: TUV Rheinland testing period from Sep 1 to 30, 2008. Performance measured as actual output relative to theoretical output. 17 modules from 14 brands tested.



Quality Recognition: 2009

Test Results in Australian Deserts

Average daily power output from January to December 2009 (Unit: kWh/kWp)



You get more with Trina modules

Trina vs.					
BP Mono	+8.0%				
SPWR	+4.7%				
BP Poly	+4.5%				
Kyocera	-1.3%				



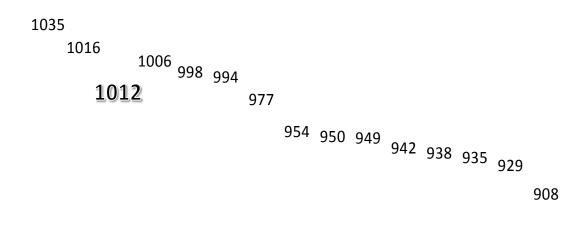


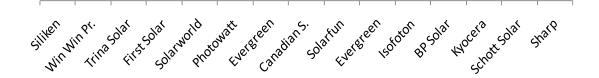
Even in the desolate deserts in summer Australia, Trina Solar's modules shine with its superior quality



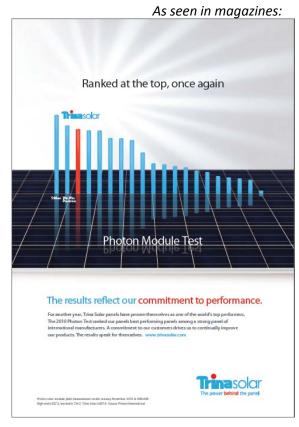
Quality Recognition: 2010

Results of the Photon solar module yield measurement results (Jan to Nov 2010 in kWh/kWp)





Trina Solar panels are among the world's **top performers.**





Customers High Recognition

Projektbeschreibung:

Projektverlauf:

Der Energiepark Dürbheim in Zahlen

Für das 14 Hektar große ehemalige Nato-Militärgelände "Hohrain" wurde eine neue Nutzungsmöglichkeit gesucht und gefunden. Die Gemeinde Dürbheim hat das Gelände aufgekauft. und an Investoren verpachtet, die hier den Energiepark Dürbheim errichtet haben. Derzeit wird im Energiepark Dürbheim ausschließlich mittels Photovoltaik Strom produziert. Mit der erzeugten Energie könnte nicht nur der Strombedarf der Gemeinde Dürbheim gedeckt, sondern darüber hinaus auch noch Strom zur allgemeinen Nutzung ins öffentliche Netz eingespeist werden.

Das Fraunhofer Institut für Solare Energie (ISE) wird in der Zukunft die Anlage zu Forschungs- und Testzwecken in den Bereichen Speichern von Energie, Elektromobilität und Wechselrichter der nächsten und übernächsten Generation nutzen.

Der Energiepark Dürbheim ist mit einem Investitionsvolumen von 12 Mio. EUR und mit 5 Megawatt installierter Leistung eine der größten Photovoltaik-Anlagen im süddeutschen Raum.

27.07.2009: Vorstellung der Idee "Energiepark Dürbheim" im

Gemeinderat. 28.09.2009: Gemeinderat stimmt Abschluss des Pachtvertrags

> mit der Energiepark Dürbheim GmbH zu

20.11.2009: Pachtvertrag zwischen der Gemeinde Dürbheim und der

Energiepark Dürbheim GmbH wird unterzeichnet

November 2009: Beginn der Arbeiten auf dem Gelände 01.06.2010: erste Stromeinspeisung aus

dem 1. Teilfeld 31.10.2010

Fertigstellung der installierten Leistung von 5 Megawatt

Solarmodule Modultische

Stahl

3.523 Stück

*Quelle: Inforentrum UmweltWintschaft, Baverisches Landosamt für



Projektentwicklung, Planung und Realisation des Energieparks:

307 Tonnen entsprechend

95 Kilometer Stahlprofile

22,360 Stück

Kabel 196 Kilometer

Schotter 15,000 Tonnen

installierte Leistung 5 Megawatt

Energieproduktion 5.250 MWh/Jahr

CO₂-Einsparung* 3.000 Tonnen





Betriebg/lihrung



Modulhersteller



Komponentenlieferant.



Wechselrichterhersteller



Mortagetechnik

Energiepark Dürbheim



Die Unternehmen der BES-Gruppe zeichnen für die

Projektentwicklung, Planung und Realisierung des

Energieparks vorantwortlich. Im Auftrag der

Energiepark Dürbheim GmbH haben die

Mitarbeiter der BES-Gruppe innerhalb eines Jahres

die gesante Photovoltaik-Anlage geplant, das Gelände für den Bau vorhereibet, nach neuen

Lösungen für die Aufständerung gesucht und die Anlage sowohl mechanisch als auch elektrisch

Planen auch Sie den Bau einer Photovoltalk-

Anlage? Dann sprechen Sie uns an, wir sind Ibr kompetenter Partner von der Idee bis zur

Fertigstellung und übernehmen für Sie auf Wursch

realisiert.

auch die Betriebsführung.

In Breiten 6 78589 Dürbheim Tel.: +49 7424 98240-0 Fax: +49 7424 98240-95 info@her-ombb.com

EPD Energiepark Dürbheim GmbH

In Breiten 6 78589 Dürbheim Tel.: +49 7424 982400 Fax: +49 7424 9824095



Industrial Leading Warranty

Description

Polycrystalline Products:

2.5 % in the first year, thereafter 0.7% per year, ending with 80.7% in the 25th year after the Warranty Start Date

Monocrystalline Products:

3.5 % in the first year, thereafter 0.68% per year, ending with 80.18% in the 25th year after the Warranty Start Date.



- > 10 years product warranty
- 25 years linear power warranty
- > Positive power tolerance +3%



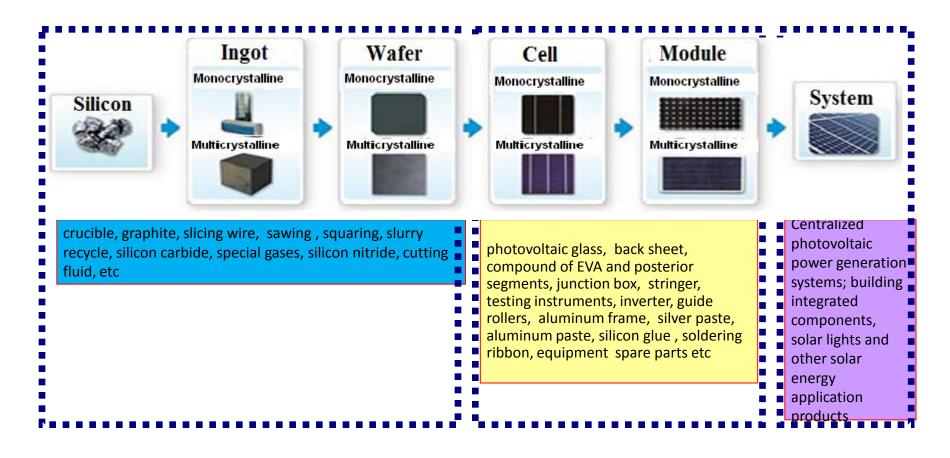
Joint Our Efforts in Fighting Against Fakeries





Trina PV Park

—Joint Quality Management Cross Supply Chain







Produce Solar, Learn Solar, Use Solar Enjoy Solar

—Trina Solar Town

To attract 60-100 companies along the value chain, to jointly build up a 100 billion level industrial cluster and a world renown Integrated Solar Model Town in 2015



- World top R&D platform based on State Key PV Lab
- World top testing and certification platform based on the Trina Center for Excellence
- ➤ International Trading and Exchange platform based on an international exposition center
- World leading PV education center with the contribution of world top universities and research institutions



Green Growth, Our Target

ISO 14064

- **ISO14064**: CO2 emissions auditing (GHG) (2011)

To kick off the Trina Solar Low Carbon Development Campaign

PAS 2050

Product Carbon Footprint (through life cycle)

PAS 2060

- Carbon neutral international standards

Carbon Trading

Participation into the global carbon trade

Dow Jones Sustainability Index (2015)



Solar Industry Shaper of Davos WEF

Trina Solar as the world's first Global Growth Company (GGC) Industry Shaper in the solar sector



COMMITTED TO IMPROVING THE STATE OF THE WORLD





What We Have been Committed to



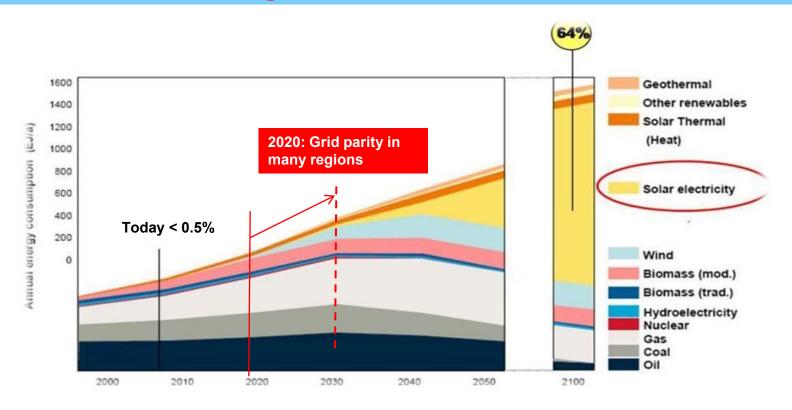
1 hour sun ~ 1 year energy

To Benefit Human Future with Clean Solar Energy through Collaboration!





IEC/TC 82 is The Right Platform to Promote PV Sustainability Collaborate to Bring Solar to Mainstream in 2020







CHINA

JAPAN

KOREA

U.S.A.

SWITZERLAND

GERMANY

ITALY

SPAIN





www.trinasolar.com