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2011 CORPORATE SOCIAL RESPONSIBILITY REPORT



RECYCLED PAPER



About This Report

Scope and Boundary

This report covers Trina Solar's corporate social responsibility performance for calendar year 2011, and is our second annual corporate social responsibility report following that published in September 2011. This report covers all managed operations and consolidates our reporting on economy, environment, people and community. In this report, we explain our vision and policy with respect to corporate social responsibility and report on our management approaches, activities, initiatives and our key performance indicators in this field during 2011.

The focus of our annual corporate social responsibility (CSR) report is on providing our key stakeholders, include shareholders and potential investors, customers, current and potential employees and retirees, the communities where we live and operate, and suppliers—as well as financial and social responsibility analysts, NGOs, media and governments, with the information that helps them understand and assess our sustainability impacts, risks and opportunities. In this CSR report, we have continued to broaden our disclosures in an attempt to provide the information of most significance to these stakeholder audiences.

Frame and Guideline

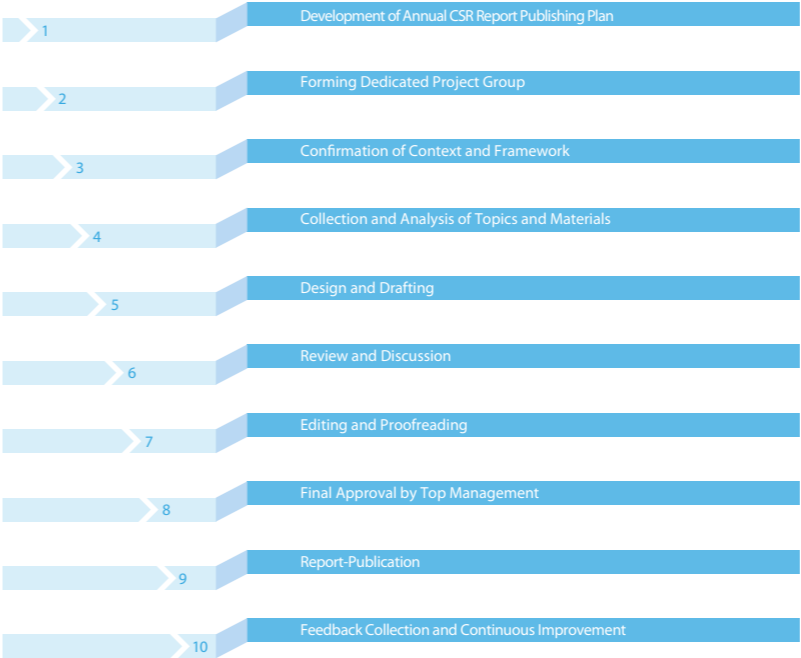
Preparing this report using the Global Reporting Initiative (GRI) G3.1 Sustainability Reporting Guidelines, our 2011 publication officially follows GRI G3 guidelines for the first time, and self-declares the report to the GRI Application Level B. A GRI Content Index is provided in the appendix in the report.

Data Measurement

The data in this CSR report is based on our own measurement and calculation which are based on definitions, methods and procedures developed at corporate level. The information in our report is subject to internal reviews and, for selected content, external reviews. On a regular basis, we validate the management systems and processes used to collect the data. We have established and maintained ISO 14001 and OHSAS 18001 certification for our manufacturing locations since 2008 and 2010, respectively, and have Greenhouse Gas Emission data verification against ISO 14064-1:2006 which requires independent third-party audits at our site from 2011 onwards.

We produce our CSR report in Portable Document Format (PDF), and an electronic version is available on our company web site. Questions, inputs and suggestions regarding this report can be directed to: IR@trinasolar.com

Reporting Compiling Process





Jifan Gao,
Trina Solar Chairman and CEO

Message From Chairman and CEO

Trina Solar is committed to our employee's occupational health, safety and environment protection. We firmly adhere to the sustainable development. We constantly innovate to enhance our competitive advantages, create values for all stakeholders, as well as bring about harmonious environmental benefits for mankind. As such, our mission is to bring solar energy benefits to all!

Dear Stakeholders,

Welcome to Trina solar's corporate social responsibility report of 2011.

The rapid development of world economy combined with mankind's desire for consumption are believed linked to an increasing emission of carbon dioxide (CO₂), global warming, and glacier melting. Those phenomena have threatened the balance of natural ecology. If we do not try to prevent this trend of development, serious consequences, such as global food crisis, shortage of water resources, environment deterioration, even collapse of ecosystem, might happen. Low carbon economy and sustainable development are the incumbent responsibility and mission for every enterprise.

Through its design and manufacturing of innovative technology-driven solar photovoltaic products, Trina Solar has been a participant and promoter of global carbon emission reduction. Trina Solar is committed to our employee's occupational health, safety and environment protection. We firmly adhere to the sustainable development. We constantly innovate to enhance our competitive advantages, create values for all stakeholders, as well as bring about harmonious environmental benefits for mankind. As such, our mission is to bring solar energy benefits to all!

Trina Solar proactively conducts risk assessment in relation to the safety and health risks posed to any person who may be affected by his undertaking in our workplace. A procedure has been established and implemented to systematically identify the hazards and assess the risks related to all businesses, manufacturing activities, products and services. The risk control strategies have been implemented by the hierarch of elimination/replacement, engineering measures, administrative measures and personal protective equipment controls. Trina Solar became successfully certified under the Occupational Health and Safety Management System - OHSAS18001 by TUV SUD Management Service GmbH in January 2011. This successful milestone followed our receipt of the Environment Management System ISO14001 certification in January 2009.

As a rapidly emerging new energy enterprise, Trina Solar always pay attention to cultivating a good environment, health, safety

culture. U. S. Silicon Valley Toxics Coalition published the 2010 solar manufacturers' rankings based on their survey in terms of product recycling, worker health and safety issues, chemical use and lifecycle analysis, and company disclosure statement. Trina Solar was ranked the second among the global solar manufacturers.

Trina Solar actively deals with global climate change, and promotes low-carbon development, so as to constantly enhance the capability of sustainable development. In 2011, China's Jiangsu Province Development and Reform Commission awarded the first round of 24 provincial low-carbon economy pilot organizations, of which Trina Solar was one. Further, Trina Solar formulated its initiatives on the back of the Twelfth Five-year development plan, which targets a 20% reduction of CO₂ emission per GDP (gross domestic product) value during the Five-year period. Our company has invested substantial resources to establish a greenhouse gas (GHG) quantification and reporting system, and successfully passed the ISO14064 verification by BSI (British Standard Institute) in October 2011. The successful verification of ISO14064 standard lays down a solid foundation for Trina Solar to quantify, monitor and report GHG emission reductions or removal enhancements as part of our future efforts towards sustainable development.

The achievements Trina Solar achieved in this past year demonstrate our capability and commitment towards sustainable development and low carbon economy. Our global team will uphold the concept of sustainable development, adhere to the "scientific and technological innovation, economic cycle, resource-saving and environment-friendly, clean production" as the development path, so as to lead the global PV industry in a "go green" development path. We believe a low-carbon economy and green development is the proper way to enhance enterprise well-being and maintain competitive advantages in the future. It is also the right path to create value for all stakeholders.

Thank you!

Jifan Gao
Trina Solar Chairman and CEO



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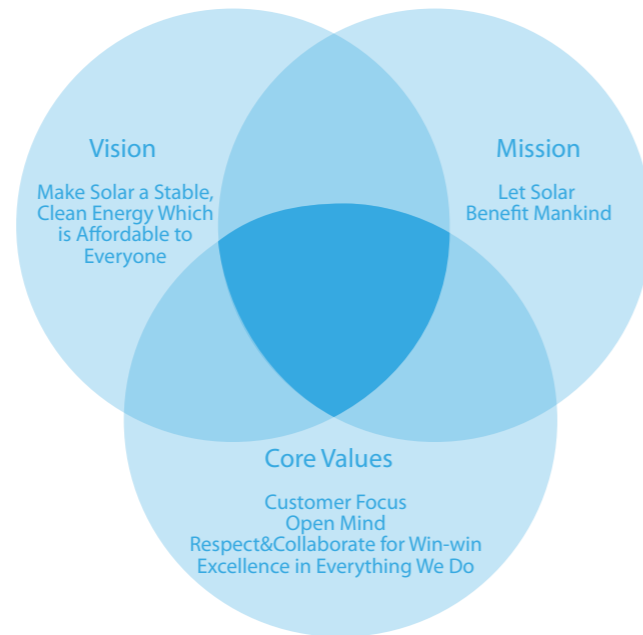


1 OVERVIEW



Corporate Profile

Founded in 1997, Trina Solar (NYSE: TSL) is a world-leading Photovoltaic (PV) company. Fully vertically integrated from ingots to modules in both mono and multicrystalline technologies, Trina Solar offers high quality modules that provide clean and reliable electricity around the world for residential, commercial and industrial applications. Listed on the NYSE, Trina Solar operates worldwide to always deliver the best value to its customers. The company's manufacturing facilities and worldwide headquarters are located in Changzhou, China, with regional headquarters and operating offices in approximately twenty locales, including the United States, Canada, Switzerland, Germany, Spain, Italy, Shanghai, Beijing, South Korea, Japan, Singapore and Australia. Our achievements over the past decade have laid a strong foundation for Trina Solar's growth and leading position within the PV industry. Going forward, we will continue to offer clean and reliable products to our customers around the world, while dedicating ourselves to innovation, quality, and manufacturing excellence.



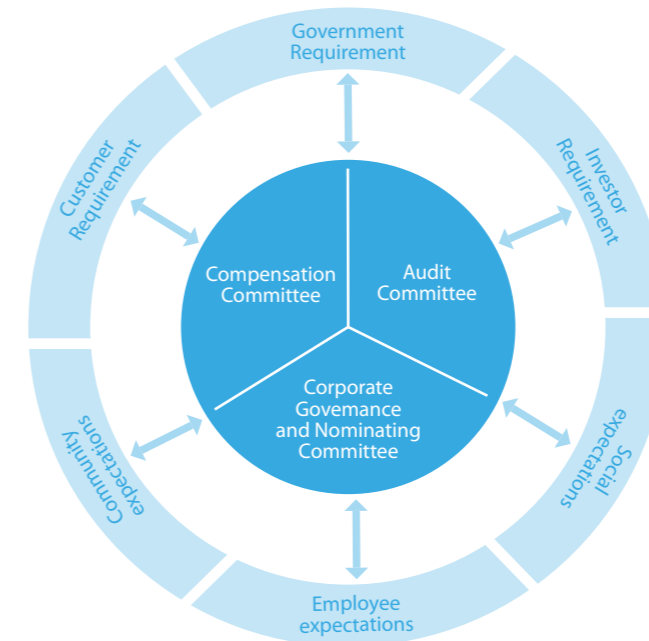
Financial Performance

	2007	2008	2009	2010	2011
Solar module shipments(MW)	75.91	201.01	399	1057	1512
Net revenues(US\$1,000)	301,819	831,901	845,136	1,857,689	2,047,902
Gross profit(US\$1,000)	67,628	164,442	237,154	584,361	332,642
Gross margin	22.4%	19.8%	28.1%	31.5%	16.2%
Income from continuing operations(US\$1,000)	35,987	99,987	135,369	417,348	30,966
Net income(loss) from continuing operations(US\$1,000)	35,362	60,739	96,226	311,453	(37,820)

Corporate Governance

As of the end of 2011, Trina Solar's Board included Chairmen and CEO Mr Jifan Gao, and four independent directors. The business and affairs of the Company will be managed by or under the direction of the Board, including through one or more of its committees and committee charters.

The Board currently has three committees. For the listing of the Company's ADSs on the NYSE, each member of its Audit Committee, Compensation Committee and its Corporate Governance and Nominating Committee is required to satisfy the independence requirements of the NYSE. Currently, for each of the Audit Committee, Compensation Committee and Corporate Governance and Nominating Committee, all of its members are independent directors.



Conflicts of Interest

Directors are expected to avoid any action, position or interest that conflicts with the interests of the Company or gives the appearance of a conflict. If an actual or potential conflict of interest develops, the director should immediately report the matter to the Chairman of the Board. Any significant conflict must be resolved. If a director has a personal interest in a matter, the director will disclose the interest to the Board, excuse himself or herself from discussion on the matter and not vote on the matter.

EHS Policy

Trina Solar is committed to the design and manufacturing of solar photovoltaic modules and related system enhancing solutions to lower the overall cost of installed solar. While supplying clean energy products, we pay much attention to employee's health, safety, and well-being, as well as environmental protection and sustainable development between our operating economies and environments. Our vision is to create a safe, healthy and environment-friendly workplace for employees and create a harmonious green planet for mankind. Herewith we pledge the following:

- Comply with all applicable EHS laws & regulations and meet interested parties' requirements.
- Promote sustainable manufacturing and build an environmentally-secure planet by making efficient use of energy and resources and maximizing raw material recycling.
- Proactively reduce occupational injury and illness risks, and promote employee health and well-being.
- Commit to the prevention of pollution, occupational injury and illness to minimize its negative impact on environment, while ensuring employee health and safety.
- Enhance employee EHS awareness and encourage employee to participate in EHS programs.
- Continually improve EHS performance via perfecting EHS management system.
- Provide transparent EHS reports to stakeholders and other relevant interested parties.
- Pledge our support and commitment to help our suppliers to improve their EHS performance and take social responsibility.

Product Stewardship

Trina Solar developed its product stewardship policy to ensure safety and environmental protection of the photovoltaic modules throughout its entire life cycle,

- Trina Solar conducts business in a manner that ensures compliance with all applicable regulatory requirements and industry standards. We commit to integrating environmental, health and safety responsibilities into all stages of our product life cycle.
- We believe that product stewardship, the ongoing performance improvement of products in terms of environmental, health, safety aspects, is one of the cornerstones of sustainable business. We act in a responsible manner to protect our employees, customers and the communities in which we operate.
- Trina Solar pledges to implement effective product stewardship management programs, and shows our commitment and leadership to meet the customers' increasing demands on safer and more environmentally sustainable products.
- Trina Solar actively strives to use and develop new raw materials and products in a responsible manner by assessing their risks for current and future generations.
- Trina solar offers product guidance to customers, distributors and users so that our products are safely transported, stored, and used. We voluntarily participate in take-back and recycling program for defective and/or end-of-life (EOL) solar modules.
- Trina Solar engages with stakeholders to review periodically the policy statement to ensure that it remains adequacy and continues to meet stakeholders' expectations.

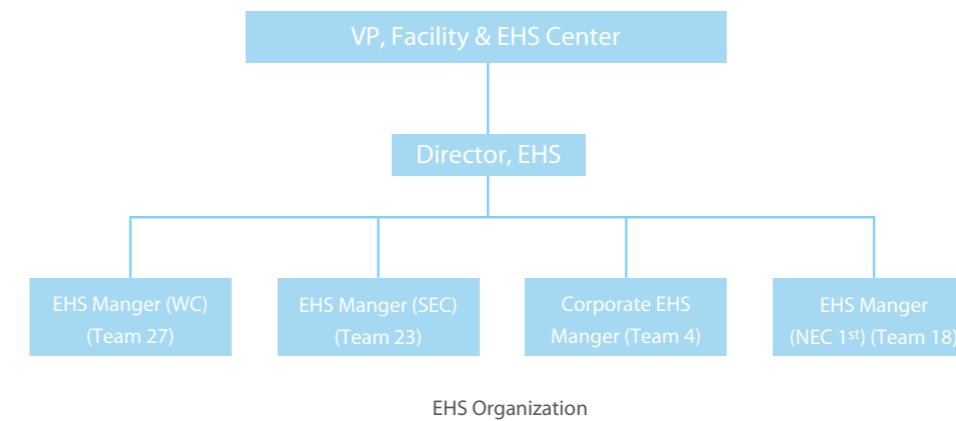
Effective EHS Organization

Creating an effective EHS organization is essential to ensure success in making progress of building EHS culture in a company.

Trina Solar established EHS Committees, each committee is chaired by the Company's VP and head of manufacturing, and consists of representatives of both the management and employees from various departments, including Production, Equipment, Process, Facility/EHS, and Administration etc. Monthly committee meetings are held to review the EHS policies, procedures, practices, EHS performance and action plan. Meeting minutes are furnished and communicated to each committee members and the Company's top management.

Trina Solar's current EHS department has more than 70 full-time EHS professionals. The department is responsible for overall success for various EHS projects, programs and EHS management system for the company. The department's objective is to improve its EHS performance by establishing and implementing EHS policies, procedures, programs. Examples of the responsibility include,

- Implementation of appropriate EHS policies and procedures.
- Conducting of Environmental protection and workplace health and safety risk assessment.
- Implementation of appropriate control measures, such as engineering measures, administrative measures and personal protective equipment to eliminate safety hazard and reduce EHS risk.
- Carrying-out regular EHS inspections, organizing training courses and other promotion programs.



EHS Management System

It is crucial for an enterprise to have an ever-improving management system to maintain sustainable development. Trina Solar has setup an integrated management system to improve our operation efficiency and integrity. Trina Solar has achieved manufacturing efficiency leadership while meeting or exceeding customer expectations in regard to quality, on-time delivery, reliability, technology, and customer support to become the brand of first choice. We are committed to environment protection, safety and health of all employees and all partners in order to achieve our success together.

Trina Solar successfully received its ISO14001 – Environment Management System certification in January 2009, and OHSAS18001 – Occupational Health and Safety Management System certification in January 2011. These EHS management system certifications demonstrate our commitment to environment protection, accident prevention and well-being of our employees. Further, we have established systematic high standard operation procedures to support and maintain the management system. EHS objectives and targets are identified annually, and regular reviews on the status of target achievement are carried out to ensure adequacy.

Trina Solar passed the ISO14001 and OHSAS18001 surveillance audit conducted by TUV SUD Management Service GmbH in December 2011. TUV auditors highlighted that Trina Solar has setup, maintained and implemented sound EHS management system, and the system is in compliance with ISO14001 and OHSAS18001 international standard.



TUV OHSAS 18001 Certificate



TUV ISO14001 Certificate



EHS Compliance

Trina Solar is committed to be in compliance with all applicable EHS laws and regulations when we conduct our business activities, such as,

- Environmental Protection Law of the People's Republic of China
- Prevention and Control of Occupational Diseases Law of the People's Republic of China
- Safe Production Law of the People's Republic of China
- Fire Safety Law of the People's Republic of China

Trina Solar has established a procedure to identify and access laws, regulations and other requirements that are applicable to the environmental, occupational health and safety aspects of the activities, products and services as described in TS-EHS-2002 EHS Legal Management Procedure.

As identified as of end of 2011, approximately 184 pieces of applicable EHS laws and regulations exist, which are categorized as 16 categories. From this, lists of legal and regulatory standards pertaining to environmental protection, occupational health and safety are posted on the company's enterprise intranet. These lists are updated and maintained by EHS department.

Examples of newly stipulated laws and regulation in 2011 include:

- Prevention and Control of Occupational Diseases Law of the People's Republic of China, WEF 31st Dec 12
- Regulation of Safe Management of Hazardous Chemicals, WEF 1st Dec 11
- Regulation for Lake Tai Area, WEF 1st Nov 11

The system will be able to ensure EHS legal compliance and support Trina Solar's future growth.

2011 Compliance Document List

NO.	Category	Name of Approval	DC. NO.	Approver/the Third Party	Effective Date
1	Environmental permit	Pollutant Emission Permit	XXXC039	Changzhou New Distinct Environment Protection Bureau	2011-01-01
2	EIA Approval	Approval for Tina Solar (Shanghai) R & D Project	Min Huan Bao Xu Ping Shu [2011]NO.007	Shanghai Minhang Distinct Environment Protection Bureau	2011-06-15
3	EIA Approval	Approval for the Project of Annual 300 MW High Efficient Solar Cells and Modules	Chang Xin Huan Fu [2011]17	Changzhou New Distinct Environment Protection Bureau	2011-06-22
4	EIA Approval	Approval for the Project of Annual 300 MW High Efficient Solar Cells and Modules	Chang Huan Fu [2011]42	Changzhou Environment Protection Bureau	2011-06-23
5	EIA Approval	Approval for the Project of Annual 300 MW High Efficient Solar Cells and Modules	Chang Xin Huan Fu [2011]37	Changzhou New Distinct Environment Protection Bureau	2011-11-11
6	EIA Approval	Approval for the Project of Annual 300 MW High Efficient Solar Cells and Modules	Chang Huan Fu [2011]74	Changzhou Environment Protection Bureau	2011-11-24
7	Fire Safety Approval	Fire Safety Approval for the Project of CM-E1 Building	Chang Gong Xiao Yan Bei [2011] no. 0034	Changzhou New Distinct Police Fire Brigade	2011-06-01
8	OH Assessment Approval	OH Assessment Approval for the Project of Annual 280MW HighEfficiency Cell andModule Project in Southeast Campus	Su Wei Zhi Yu Shen Zi (2011)no.0017	Health Department of Jiangsu Province	2011-04-25
9	OH Assessment Approval	OH Assessment Approval for Annual 500 MW High Efficiency Cell and Module Project in Northeast Campus	Su Wei Zhi Yu Shen Zi (2011)no.0013	Health Department of Jiangsu Province	2011-03-25
10	Safety Assessment Approval	Safety Assessment Approval for Trina Solar's Liquid Oxygen and Nitrogen Storage Tank	Chang An Bei (2011)0000000088	Changzhou Administration Bureau of Work Safety	2011-07-01

Note:
-EIA: Environment Impact Assessment
-OH: Occupational Health

EHS Capital Input

Trina Solar has allocated substantial investment capital annually for environment protection, occupational health and safety purposes. The tables below demonstrate our strong commitment to continuously improve our EHS efforts and maintain a high level of environment protection, accident prevention and well being of employees.

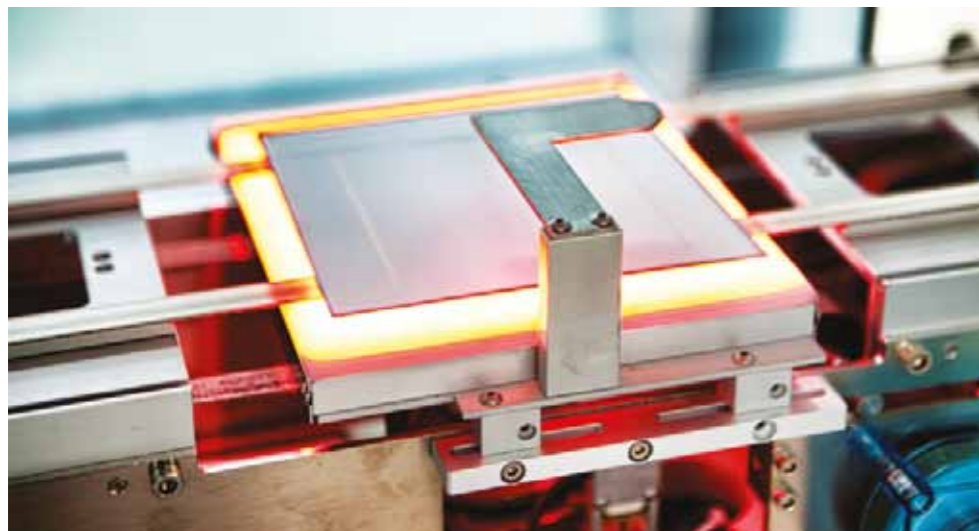
EHS inputs in 2010 and 2011 (unit: US\$1,000)

Environmental Investment		2010	2011	Total
West Campus	Capital Expense	172.8	219.9	392.7
	Operation Cost	1817.0	1878.3	3695.2
Southeast Campus	Capital Expense	8109.9	3144.5	11254.5
	Operation Cost	2042.5	2912.4	4954.9
Northeast Campus	Capital Expense	—	4567.4	4567.4
	Operation Cost	—	202.4	202.4
		12142.2	12924.8	25067.0

Safety & Occupational Health Investment		2010	2011	Total
West Campus	Capital Expense	221.6	387.1	608.7
	Operation Cost	574.6	688.3	1262.9
Southeast Campus	Capital Expense	738.6	66.6	805.2
	Operation Cost	562.5	780.3	1342.8
Northeast Campus	Capital Expense	—	1981.8	1981.8
	Operation Cost	—	35.1	35.1
		2097.3	3939.2	6036.5

EHS main investment projects

Category	Main investment projects
Environment	<ul style="list-style-type: none"> Waste management <ul style="list-style-type: none"> Construction of hazardous waste warehouse Disposal of hazardous waste Implementation of waste recycling
	<ul style="list-style-type: none"> Air emission <ul style="list-style-type: none"> Construction of air emission scrubber Maintenance and operation of air scrubber Air emission monitoring and treatment
	<ul style="list-style-type: none"> Waste water <ul style="list-style-type: none"> Construction of wastewater treatment plant Maintenance and operation of wastewater treatment plant Wastewater treatment and water quality monitoring for treated effluent
Safety & Occupational Health	<ul style="list-style-type: none"> Noise abatement project Noise monitoring
	<ul style="list-style-type: none"> Environment impact assessment
	<ul style="list-style-type: none"> Personal protective equipment (PPE)
	<ul style="list-style-type: none"> Maintenance of fire protection system Occupational health medical checkup
	<ul style="list-style-type: none"> Others <ul style="list-style-type: none"> Lighting detection Safety impact evaluation Occupational health evaluation Occupational hazards detection First-aid medicine and emergency equipment



2

ENVIRONMENT



Response to Climate Change

As a PV industry leader, Trina Solar has put substantial resources and efforts to undertake corporate social responsibility. We will continue to deploy our technology, service, influence, solutions, and values to tackle climate change issue, and promote global renewable energy development. Trina Solar was awarded as Low-carbon Economy Pilot Enterprise by the Jiangsu Development and Reform Commission ("the Commission"). One of the major strategic tasks identified during the 5th Plenary Session of 17th Communist Party of China Conference in China was to respond to climate change and to promote green low-carbon development.

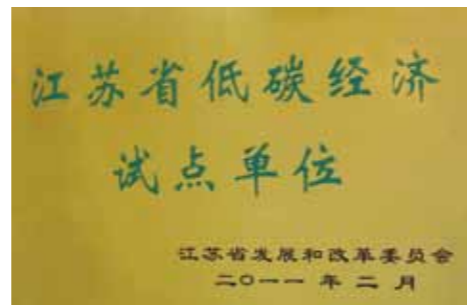
A convention titled Low-carbon Economy Development Meeting was also organized by the Commission on 23rd February 2011 in Nanjing. The Commission selected four cities, ten industrial development zones and ten enterprises in Jiangsu Province as "Low-carbon Economy Pilot Organizations", of which Trina Solar was awarded as one of the ten Low-carbon Economy Pilot Enterprises.

In order to better develop low-carbon economy and take corporate social responsibility, Trina Solar engaged in preparing the 12th Five-Year Plan dedicated report on low-carbon economy which had passed the expert assessment and review meeting convened by the Commission in Nanjing on 29th September 2011, wherein the Commission's experts concluded that Trina Solar can be an example of photovoltaic industry in Jiangsu province on developing low-carbon economy.

Trina Solar will uphold the concept of sustainable development, adhere to the "scientific and technological innovation, economic cycle, resource-saving and environment-friendly, clean production" as the development path, so as to lead the global PV industry in the adoption of low carbon development.



Expert assessment and review meeting



Plaque of low-carbon pilot enterprise in Jiangsu province

Implementation of green production and commitment to low-carbon development —ISO14064 green house gas (GHG) verification

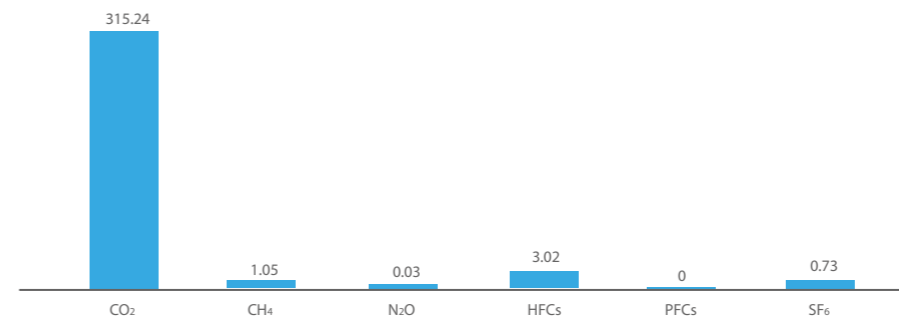
Since the beginning of 2011, PV industry has seen notable challenges from both macroeconomic conditions and swiftly intensified industry competition. Along with these challenges, the area of sustainable development of the PV industry is also facing challenges from these commercial pressures, affecting quality, brand, and even EHS performance and carbon emissions. It is during such periods we are reminded that the on-going commitment of conducting GHG measurement projects is not only to fulfill the social responsibility for the new energy manufacturing industry, but also a prerequisite to build a global green energy industry system which is safe, stable and clean.

As a company in the environmental technologies industry, we not only focus on the design, development, and manufacturing of green products to achieve sustainable development, but also strive to establish a credible, transparent and consistent GHG inventory to demonstrate the corporate social responsibility to the public and customers.

Trina Solar started its GHG emission measurement project in May 2011, and successfully passed ISO14064 verification by BSI (British Standard Institute) in October 2011. The BSI audit team highlighted that Trina Solar had put substantial efforts in establishing a systematic methodology to quantify and report GHG emissions, and provided solid data to support that Trina Solar's GHG inventories demonstrated the conformity with the requirements of ISO14064 international standard in terms of relevance, completeness, consistency, accuracy, and transparency. The successful verification of ISO14064 standard lays down a solid foundation and framework for Trina Solar to continue the quantification, monitoring and reporting of GHG emission reductions.

Electricity, diesel and natural gas are consumed during manufacturing of PV products. Beyond the need for our day-to-day energy conservation programs, Trina Solar also needs to proactively benchmark our industrial standards. Verification of ISO14064 helps the company achieve pollution reduction target, and also foster employees' awareness to use natural resources in more efficient way. Jifan Gao, Chairman and CEO of Train Solar, said, "ISO14064 verification further recognizes Trina's ability and our commitment of sustainable development and emission reduction in photovoltaic industry. The obtaining of green house gas emission verification statement is a milestone of the way of Trina Solar's sustainable development. We believe green production can enhance the competitiveness of enterprises and create the value for all stakeholders".

2010 Trina Solar GHG emissions (Tons-CO₂e/MW)



Kick-off meeting of low-carbon economy and ISO14064 project



ISO14064 verification statement conferral ceremony



ISO14064 verification statement

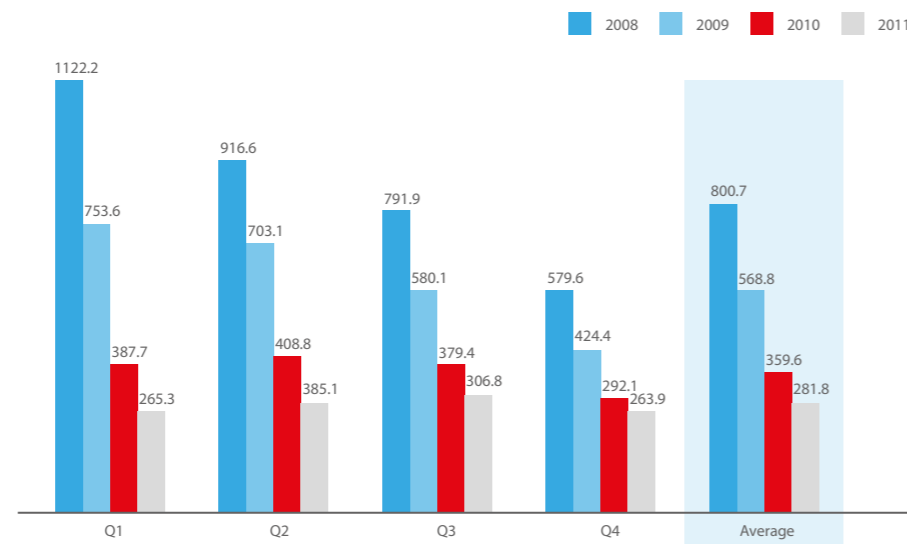
Effective Energy Utilization

Based on China's mid to long term renewable energy development plan, total electricity capacity is expected to reach 1500 GW in 2020, and PV (Photovoltaic) installed capacity will reach 20 GW, accounting for 1.33% of China's total electricity capacity. There is tremendous room for development in the PV industry. Trina Solar continually strives to improve business competitiveness and energy efficiency and aims to establish a sustainable PV industry.

Since 2008, Trina Solar has developed and implemented the ISO 14001 Environmental Management System. We continue to promote conservation of electricity, water and other resources, and to build our competitive advantage through energy efficiency based on process innovation and equipment upgrades. ISO 14064 verification helps our company identify sources of CO₂ emission, such as from electricity, diesel, gasoline and coolant. We implemented a series of energy saving projects in 2011, which reduced CO₂ emission by approximately 6000 tons.

Energy consumption

Trina Solar electricity consumption per MW module production (MWH/MW)

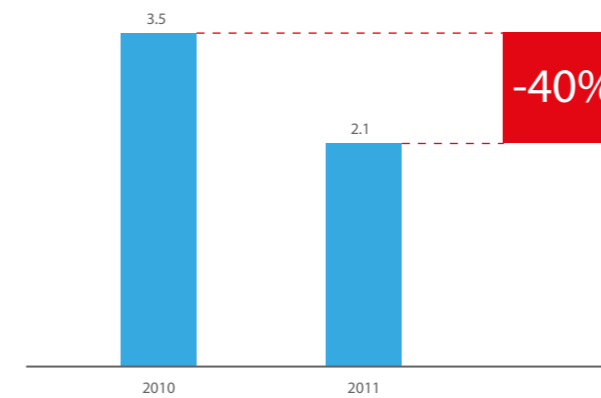


Electricity consumption per MW module production was reduced from 800.7MWH in 2008 to 281.8MWH in 2011

Natural gas

Although natural gas is a low-polluting, clean fuel, Trina Solar pledges to use it responsibly and efficiently in order to reduce carbon emissions and prevent global warming. From 2010 to 2011, we reduced our consumption of natural gas.

Trina Solar natural gas consumption per KW module production (m³/kW)



Waste Heat Recovery from Air Compressors

Our pre-cleaning machines, located in our wafer workshops, are required to use tap water for cleaning purposes. Wafer cleaning requires a high water temperature, even during the winter season when the water temperature is low (between 5°C ~ 7°C). Residual heat generated from cooling water in the air compressors is collected and used as a heat source to raise the temperature of cleaning water during the winter season through the installation of a plate heat exchanger. On average the project saves approximately 343,000 standard cubic meters of natural gas and 662000kwh of electricity, which is equivalent to a reduction of over 1300 tons in CO₂ emissions.

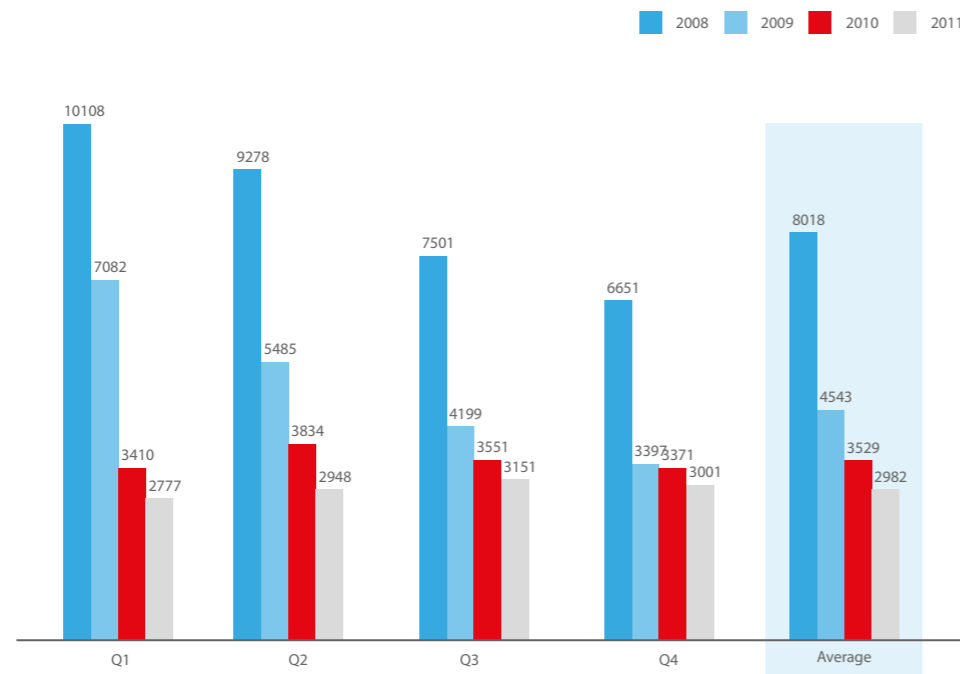


Plate exchanger for recycling residual heat

Water conservation

Water is a precious natural resource. The development and use of water resource is a crucial issue in many countries. We are aware that water resources are limited and we focus on optimizing water consumption. We follow the principle of 'Reduce, Reuse and Recycle'. Since 2008, our water consumption has followed the same downward trend as electricity consumption.

Trina Solar water consumption per MW module production (m³/MW)



Water consumption per MW module production was reduced from 8018 m³ in 2008 to 2982 m³ in 2011

Water Recycle and Reuse Project

Pre-cleaning and grinding machines, located in our wafer workshop, originally used tap water as cooling water. Following a detailed study and verification, we successfully switched to using RO concentrated water as cooling water for our machines. This modification does not affect the operation of machines, and it leads to water saving of 136,000 tons per year, which is equivalent to a financial saving of approximately US\$75,000.



Water recycling equipment

Waste Water Reuse Project

Trina Solar worked together with Wuxi Depple Water Investment to build a new water recycling plant. The plant was built using advanced dual-membrane (ultra-filtration and reverse osmosis) technology to treat industrial waste water created during the manufacturing process. The treated water is sent back to Trina Solar as supplementary raw water supply. This project is not only able to reduce water consumption, but also helps explore a new way for sustainability and environment protection.

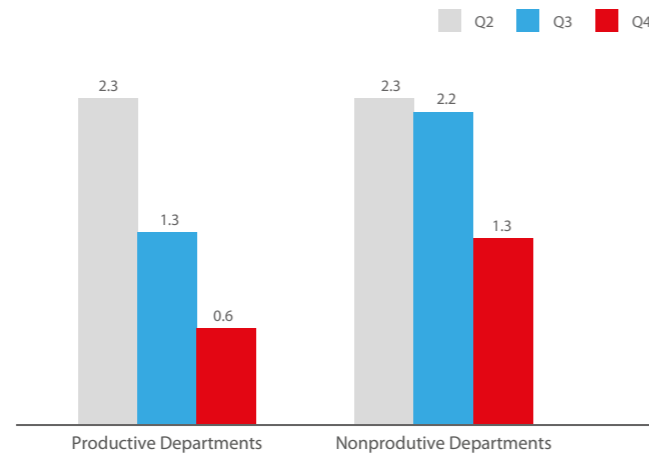


Ultra-filtration and reverse osmosis workshop

Forest protecting and paper Saving

Consumption of paper not only consumes a large amount of forest resources, but waste water from the paper manufacturing process can also cause water pollution. In order to implement a low-carbon concept, to minimize paper consumption and to promote a paperless office environment, EHS Department organized various promotional activities to promote awareness among employees of paper saving. To encourage employees to reduce their consumption of paper, we sent an 'EHS Message to All Employees' with statistics on paper consumption. Thanks to these efforts, paper consumption at Trina Solar's office is decreasing.

Quarterly average paper consumption in office in 2011 (kg per person)



Air Emission

Trina Solar has also built a range of scrubbers, such as acidic/caustic scrubbers and organic scrubbers to remove pollutants from air emissions. Trina Solar engaged an accredited third party to carry out annual monitoring of air emissions from our exhausts and scrubbers, and bringing Trina Solar in line with the requirements of the 'Integrated Emission Standard of Air Pollutants GB 16297-1996'. Results show that air emissions from exhausts and scrubbers are well below legal requirements.



Scrubber of southeast campus



Scrubber of west campus

Wastewater Treatment and Discharge

To date, we have built four wastewater treatment plants with a combined maximum treatment capacity of 12600 tons/day of organic wastewater (our actual organic wastewater is 7500 tons/day) and 5300 tons/day of inorganic wastewater (our actual inorganic wastewater is 3000 tons/day). The four treatment plants enable us to ensure that all the wastewater from the manufacturing process is adequately treated prior to discharge into the sewer system. The average amount of COD in our treated effluent is around 200 mg/l, which is much lower than the legal requirement of 500 mg/l. The average amount of fluoride in our treated effluent is less than 10 mg/l, which is also below the legal requirement of 20 mg/l.

Water quality for the treated effluent of southeast campus in 2011

Emission standards		≤500mg/l	6.5 ~ 9.5	≤400mg/l	≤30mg/l	≤20mg/l
date	location	COD	PH	Suspended solids SS	Oil	Fluoride F
Jan 11	Main Discharge Outlet	150	8.2	22	5.27	5.87
Feb 21	Main Discharge Outlet	239	7.8	36	<2	9.11
March 14	Main Discharge Outlet	162	7.2	28	2.57	7.11
April 13	Main Discharge Outlet	462	7.4	60	<2	7.74
May 17	Main Discharge Outlet	197	7.3	18	3.34	4.86
June 9	Main Discharge Outlet	90	8.1	10	<2	0.36
July 7	Main Discharge Outlet	341	7	124	<2	3.56
Aug 3	Main Discharge Outlet	292	7.1	38	2.35	2.89
Sep 22	Main Discharge Outlet	144	7.6	36	<2	2.41
Oct 11	Main Discharge Outlet	216	7.1	36	6.25	3.18
Nov 1	Main Discharge Outlet	184	7.3	55	6.47	4.16
Dec 1	Main Discharge Outlet	133	7.2	22	3.51	4.46

Water quality for the treated effluent of west campus in 2011

Emission standards		≤500mg/l	6.5~9.5	≤400mg/l	≤30mg/l	≤20mg/l
date	location	COD	PH	Suspended solids SS	Oil	Fluoride F
Jan 11	Main Discharge Outlet	219	8.3	32	6.10	7.27
Feb 21	Main Discharge Outlet	294	7.6	50	<2	10.3
March 14	Main Discharge Outlet	72	7.3	31	<2	6.09
April 13	Main Discharge Outlet	300	7.3	24	<2	4.07
May 17	Main Discharge Outlet	173	7.0	10	<2	6.19
June 9	Main Discharge Outlet	212	7.4	22	<2	5.91
July 7	Main Discharge Outlet	200	7.6	17	<2	9.31
Aug 3	Main Discharge Outlet	144	7.2	28	<2	4.78
Sep 22	Main Discharge Outlet	107	7.6	19	<2	5.49
Oct 11	Main Discharge Outlet	70	7.6	14	<2	5.8
Nov 1	Main Discharge Outlet	226	7.5	10	<2	5.42
Dec 1	Main Discharge Outlet	73	7.7	60	<2	7.64

Wastewater Treatment Process Innovation in Southeast Campus

Analysis shows that the cost of treating Hydrofluoric Acid (HF) waste water accounts for 80% of the total cost of waste water treatment. Following research and experiments, we implemented a continuous improvement project. The project saves US\$ 1.3 million in treatment costs per year.

- We use calcium hydroxide ($\text{Ca}(\text{OH})_2$) instead of Sodium hydroxide (NaOH) and Calcium chloride (CaCl_2) to neutralize acidic waste water and to remove fluoride. This improvement not only treats waste water in line with legal requirements, but also greatly reduces the costs of wastewater treatment.
- Gradually reduce consumption of flocculating agent to zero.

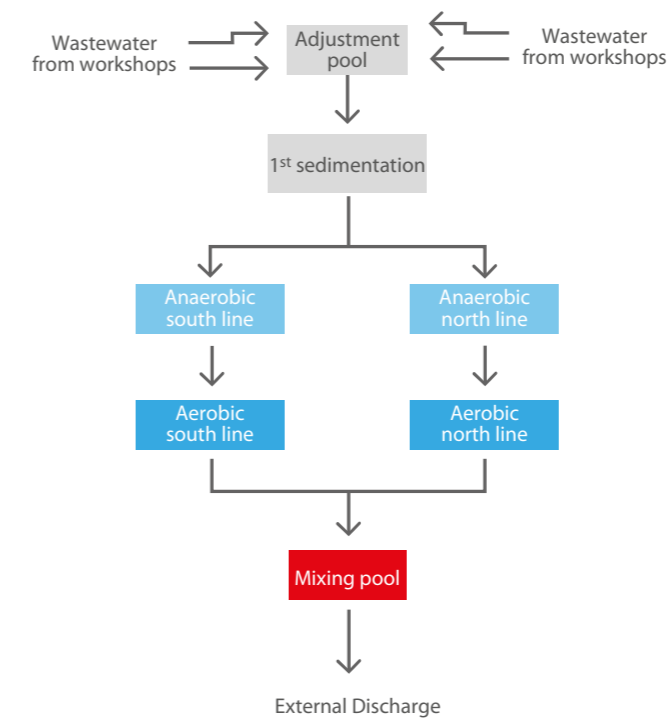
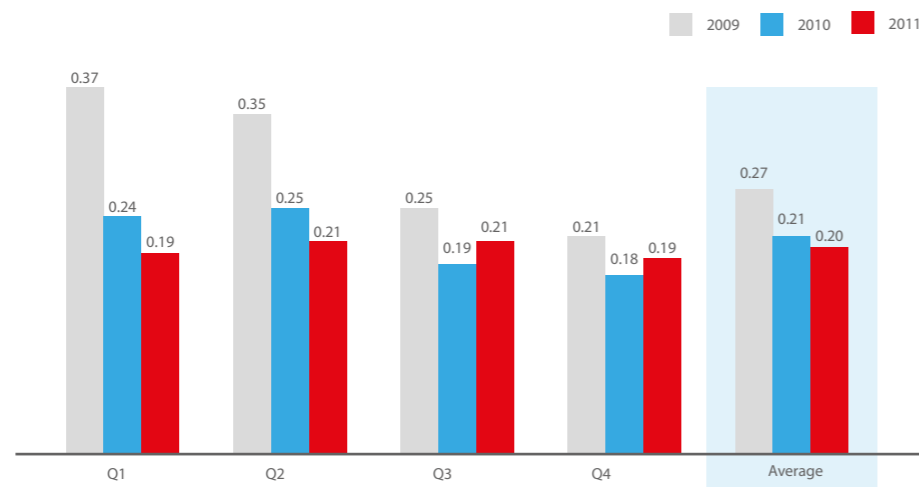


Upgraded waste water treatment facility



Fish swimming in the waste water effluent pool

Amount of waste water effluent (unit: 10,000 tons/MW)



Wastewater treatment flowchart

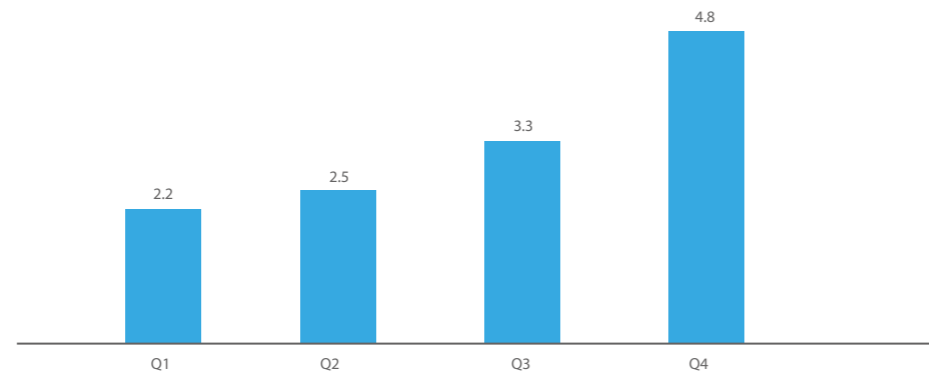
Waste Management

Improper handling and management of wastes may lead to the pollution of soil, groundwater and the atmosphere. This may further result in a chain reaction of impacts on crops and cause harm to human health. Trina Solar treats waste as a resource. We segregate different wastes, and manage them based on the principle of "Reduce, Reuse and Recycle". We have put a 'Waste Management Procedure' in place to strengthen the management of waste disposal. Various waste management training sessions are regularly conducted. We try to do our best to minimize the amount of land-fill waste. We engage accredited waste recycling vendors to manage both industrial hazardous waste and general waste.

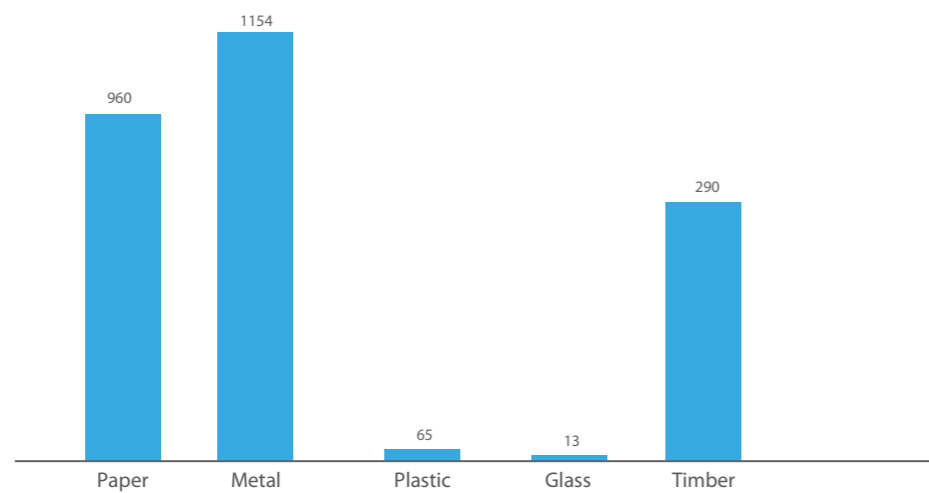
With our ongoing effort,

- The amount of waste recycled per MW product is increasing
- We achieved 88% of recycle ratio in 2011

Amount of resource waste per MW Module in 2011 (Tons/MW)



Amount of resource waste recycled in 2011 (kg/MW)



Trina Solar established a standardized management procedure to improve hazardous waste management. On 18th October 2011, the local environment authorities in Changzhou carried out an audit based on their requirements. Trina Solar successfully passed the audit with a pass rate of 52 out of 60 marks.



Hazardous waste yard and collection boxes

3

EMPLOYEE



Workplace Safety

As stated in EHS policy, Trina Solar is committed to protecting employees' health and safety and treats employees as one of our top priorities when conducting business. We believe that the establishment and implementation of a good occupational health and safety management system is an important way to care for our employees and their family members. This is also an important societal contribution.

At Trina Solar, "Safety First" continues to be the company's motto and guides us in the protection of our employees, suppliers and the communities in which we operate. We believe that this is the best way to do business. Our occupational health and safety management system not only helps employees to better enjoy life, but also plays a vital role in the success of Trina Solar's business development. Employees' physical and mental health is one of the important prerequisites for increased productivity.

Our safety performance steadily improved throughout 2011 and our recordable accident rate steadily declined. Shift B team from our Cell 4 Workshop was awarded the honor of "2011 Changzhou Safe Production Advanced Shift Team" by Changzhou Safe Production & Supervision Board for its outstanding performance in safety.



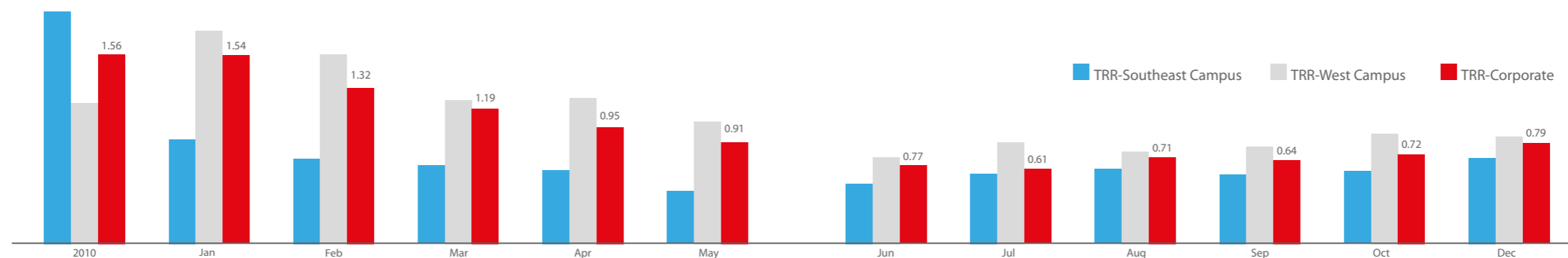
Plaque of 2011 Changzhou safe production advanced shift team



Certificate of 2011 Changzhou safe production advanced shift

Safety performance in 2011

Total recordable incident rate (per million working hours)



Note: TRR is calculated by multiplying the sum of dangerous occurrence, lost time injuries (LTIs), fatalities (Fs), restricted work injuries (RWs) for employees for the reporting period by 10⁶ and dividing the result by the total hours worked in that period (H)

EHS Inspection

In 2011, we make efforts to improve our EHS performance through maintaining compliance with the integrated EHS management system. We spent a lot of effort on carrying out risk assessment for our operational activities. Meanwhile, we proposed and implemented control measures for those key EHS risks. We carried out comprehensive EHS inspection for all manufacturing facilities in order to proactively eliminate and/or minimize EHS risks. Trina Solar has setup an EHS inspection procedure to carry out regular EHS inspections, including daily inspection, weekly inspection and special inspection prior to public holidays.

Near Miss Reporting

A “near miss” or “near” accident is defined as unsafe acts and/or unsafe conditions that may have the potential to result in an injury, health impairment, environmental pollution or property damage if it is not systematically resolved or addressed. The “Safety Pyramid” theory suggests that reporting and resolving a “near miss” can prevent and reduce accidents and injuries.

In 2010, we launched the “Near-Miss Reporting” Program, which we re-focused on and reinforced in 2011. We encourage our employees to report hazards. We received a great response from our employees, and received a total of 690 “near miss” reports in 2011. “Near miss” reporting not only serves to encourage employees to report and resolve the safety hazards, but also gradually fosters a culture of safety within our organization.



Award ceremony of Near Miss reporting program



Compliance inspection for motorcycle



Road safety pamphlet distribution

Road Safety Campaign

Trina Solar established the “Care for People, Respect Life” slogan to promote traffic safety. Our company has implemented a variety of road safety improvement programs,

- Defining vehicle deceleration zones on the roads near entrances and exits of the company
- Regular inspection of motor cycle licenses
- Providing reflective strips for motorcycles, electric bicycles and push bikes to increase visibility at night
- Distribution of road safety pamphlet to our employees and posting promotional poster on EHS notice board



Sticking of reflective strips



Road safety promotion poster

Fire Safety and Emergency Response Plan (ERP)

During an emergency, how we respond makes a big difference between a positive and negative outcome. Trina Solar has put an Emergency Response Plan (ERP) in place to enable different employees to respond to a disaster and/or an emergency in a timely and efficient manner. The plan defines the actions to be taken by different groups of employees, such as employees, and members of ERT (Emergency Response Team) and EMT (Emergency Management Team). It provides a framework for effective communications with employees, the public, customers, government and other stakeholders during a disaster or an emergency. The emergency response plan covers emergencies such as fire, chemical spillage/chemical burn and power outages. The plan is regularly reviewed and emergency drills conducted to ensure suitability and adequacy of the plan.



Emergency evacuation drill



ERT room

Emergency Response Exercise For Chemical Spill

On 28th September, 2011, No. 3 WWTP (Waste Water Treatment Plant) conducted its chemical spill drill. ERT (Emergency Response Team) members responded quickly and carried out appropriate actions in a timely manner. This exercise tested the ability, raised awareness and improved the efficiency of ERT members.



Tracing leak source



Leak mitigation



Water hose inspection and maintenance



Spillage cleaning



Water hose connection

Emergency Response Exercise For Waste Water Treatment Abnormal Situation

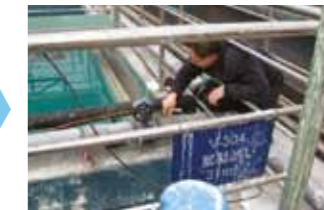
In order to improve the awareness and skill to handle the emergency situation of waste water treatment facility for WWTP staff, Facility Department of Southeast campus organized an emergency exercise. They simulated an abnormal situation for HF waste water treatment. A technician reported the abnormality to supervisor. Under the direction of supervisor, ERT member pumped HF waste water into emergency tank, and carried out the trouble shooting. The exercise tested the ability for handling abnormal situation and improved the practical skill for our ERT members.



Reporting an emergency



Activation of ERT



Valve shifting



Emergency repair



Emergency clear



Swapping valve to normal position

Emergency Response Exercise For Waste Water Treatment Abnormal Situation

EHS Management of Change (MOC)

EHS Management of Change (MOC) is an essential building block to maintain operation integrity and prevent serious EHS accident. Trina Solar has setup a (MOC) procedure. An evaluation should be conducted if the changes have a strong relation with those which may be harmful to people, the environment, safety or quality of products. Examples of the change required MOC evaluation include,

- Introduction of new technology and equipment,
- Selection and introduction of new process (chemical, physical, methods, etc.),
- Variance of operation procedure,
- Introduction of new supplier or new substances,
- Establishing manning & organization

Introduction of New Process (Back Passivation)

No 6 Cell workshop planned to introduce a new process – Back Passivation process. Base on MOC procedure requirements, Cell department was initiated MOC evaluation process. EHS Team worked with various departments to carry out thoroughly risk assessment including equipment location, layout, TMA (Trimethylaluminum) supply system and its tail gas treatment, fire protection system as well as PPE requirement for employees. We strictly follow the checklist in the MOC procedure to assess the potential risks, and proposed preventive measures to ensure intrinsic safe for the system.

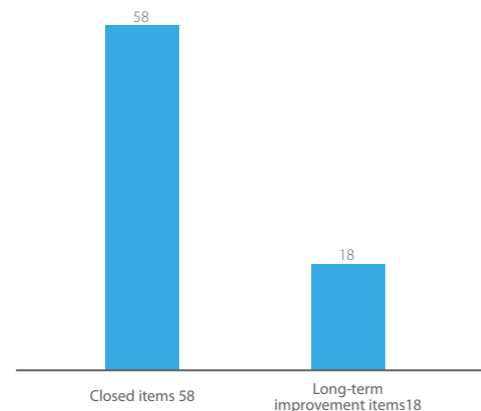
EHS Committee Meeting

Trina Solar EHS Committee aims to implement the company's EHS policies. The committee supervises the implementation status of safety measures, pushes for various EHS programs, and strives to achieve EHS excellence in the company.

EHS committee meeting is convened monthly. Representatives of both the employees and the management from departments manufacturing, technology, facility, supply chain and administration participated in the meeting. All EHS issues were discussed and communicated during the committee meeting, and examples of the meeting agenda include,

- Areas of conflict
- Existing unsafe act and unsafe condition
- Proper work procedure and safe working methods
- EHS suggestion, proposal and activities of workers
- Review of EHS accident cases and EHS performance

In 2011, EHS Committee suggested 76 continuous improvement items, and 58 of them have been completed, as long term improvement items, are being implemented.



EHS continuous improvement items in 2011

EHS Promotion Month Campaign

EHS Promotion Month 2011 was jointly organized by EHS Department and Labor Union. The campaign received warm response and participation from employees. The theme for the year's promotion campaign is 'Safety Responsibility, be Focusing on Implementation'. The signing ceremony of the 'Safe Production Responsibility Agreement' was a prologue for rolling out the campaign. The ceremony also lets the safety responsibility sink deeper into the hearts of our employees. Various promotion activities were organized.

ERT athletic competition embodies the professional skill and fighting spirit of Trina Solar's ERT team. "Green Guard" speech contest drives the Trina employees' heart on environmental protection and makes Trina's eco-friendly concept further penetrate into the thought of every employee.

The annual ERT emergency training fosters a batch of emergency talents. The examination on knowledge of environmental protection and safety helps the employees better understand the general knowledge about the environmental protection and safety. The interesting safety quiz enables all employees have a deep understanding of the safety norms in the guessing, thus popularizing various knowledge on safety. The office-safety quiz enables the administrative staffs sitting in front of the computer obtain the knowledge of office safety during the fun game of difference finding. The EHS promotion came to an end after a fierce EHS knowledge competition game.

The opening ceremony of EHS promotion month and signing ceremony of safe production responsibility agreement in 2011

The grand opening ceremony for 2011 annual EHS promotion month was held in the lecture hall of west campus at on 30th May, 2011, marking the beginning of the campaign.

At the ceremony, Steven Chen, VP of EHS & Facility, reviewed the annual safety target for 2010, and proposed action plan for 2011 safety management. Steven focused on the introduction of the target of zero occurrence of 5 major accidents. He also emphasized on the importance of 'Safety Responsibility, be Focusing on Implementation', and that safety responsibility shall be cascaded down to each department, each location and each individual.



CEO opening speech.

The first ERT competition in Trina Solar



ERT competition game 2011

As one of the key activities in the EHS Promotion Month of 2011, EHS and the labor union jointly organized the ERT athlete competition for the purpose of improving and checking the company's capabilities on emergency response.

The competition was divided into the preliminaries and finals. The preliminary competition was about the theoretical examination on emergency knowledge, covering the knowledge on emergencies such as fire outbreak, chemical leakage, special gas leakage, evacuation procedure, emergency response and elevator accident response as well as the knowledge on use of emergency response equipment. The top ten teams in the preliminary competition were eligible to proceed to the final competition.

The final competition tested on the practical skills, including containment of the chemical leak, fire fighting, selection of appropriate emergency response equipment, and gearing-up of PPE, performing of first-aid for victim. The judges gave the final ranks to the teams, and attractive prizes were awarded to the winners.

The second session of EHS knowledge competition and closing ceremony for the EHS promotion month

The competition in 2011 once again attracted widespread interest in various departments of the company. There were a total of 44 teams enrolled, and each team had 3 players. In the afternoon on 30th June 2011, 8 winning teams came to the final competition. They were challenged with live EHS quizzes. This is not only a challenge of EHS knowledge, but also a challenge on reactive ability, psychological adaptability, and team cooperative ability. The 8 teams competed compulsory quiz, quick fire quiz, and fuzzy quiz. All of them did their best to show their skills and earn the game points. After the game, the closing ceremony of the EHS promotion month was held. Steven Chen, Facility and EHS VP, made a concluding speech, and presented the awards and trophies for the winners.



ERT competition game



EHS knowledge competition



Signing of safe production responsibility agreement



EHS knowledge competition winners

Health and Medical Surveillance

To achieve our target of zero work-related illnesses and improved health and well-being for all employees, we strive to continuously improve our working condition and health management system based on PDCA approach. Our aim is to provide a safe and wholesome workplace for all employees.

Occupational Health Examination: Trina Solar conducts health examination for those employees who could potentially be exposed to occupation health hazards, such as noise, dust and hazardous chemicals. For those employees having the symptom of potential occupational illness, we do a timely post adjustment to prevent the occurrence of occupational diseases and major occupational hazards.

Industrial Hygiene Monitoring: Based on the requirements of local occupational health protection laws and regulations, Trina Solar regularly monitors the industrial hygiene of its workplaces, which includes dust, noise level and chemical fume.

Hazard communication: In order to promote employees' awareness on workplace hazard, we organize occupation health training for all employees. The warning signs are posted at prominent locations at each workplace.

Clinic Service: In order to provide better health service for our employees, we have set up a company clinic. It does not only provide first aid treatment ability, but also offer counseling on employees' health issue. We have also set up a special resting room for pregnant women. They can rest there and be attended to by our doctor.



Training and Development

The high-caliber team is the most important competitive factor of the enterprise. Trina solar views education, training and cultural development as important links of the management system. It also aims to improve employees' knowledge, initiative, innovative ability, enthusiasm for job, cooperation and job satisfaction via two-way communication mechanism, thereby raising the overall quality of staff, and forming a unified, harmonious working group.

Library

Trina Solar has setup a library as a leaning platform to support our staff development. The library has more than 20,000 books and is equipped with 10 state-of-art training rooms. There is a dedicated E-reading area. Employees can enjoy E-book/E-magazine reading in the area. In addition, Trina Solar has established an E-learning platform. The platform offers the flexibility for employees to learn their interested subjects at either working time or spare time.



Trina Solar library

Training Center

Trina Solar has setup a Training and Development Center. We have established a complete training system, which includes internal training regulation, training curriculum, trainers and other resources etc. The Training Center designs training program on both technical and managerial aspects for each individual employee.

Our employees are the cornerstone for our business success. Train Solar pays much attention to personal development and growth. The total training time exceeded 482,000 hours in 2011, which is equivalent to 30 hours per employee. The training topics covered EHS, employee mental health, employee assistant program and apprentice mentoring etc.

First-aid training

First aid is an important component of emergency rescue. Timely first-aid given to the victim by first-aid team is crucial prior to the professional treatment. In order to improve the first-aid ability of ERT members, EHS department invited Ms. Qian, the section chief of Changzhou No 2 people's hospital, to our company for conducting first-aid training in June 2011. Ms. Qian explained the diagnostic methods for determining signs of life, and demonstrated the correct operation of artificial respiration and the haemostatic methods for trauma. During the training, trainees questioned Ms. Qian about first aid, and carried out the simulated operation under her guidance, thereby grasping the basic gist of first aid, and improving the first-aid ability of ERT.



First-aid training

Lock-out and Tag-out (LOTO) training

Accidental activation of energy and accidental release of stored energy will result in the loss of property and unexpected injuries. Trina Solar has setup a Lock-out and Tag-out procedure. With "People-oriented, Care for Life" as our safety slogan, EHS department organized a series Lock-out and Tag-out training to improve the knowledge and ability of LOTO for equipment/facility engineers and technicians. LOTO program effectively prevents accidents and injuries resulted from accidental activation/release of stored energy.

- LOTO theoretical knowledge training
- On-site practical use of lock
- On-site inspection to verify LOTO implementation status
- Sending notification to action owner for the LOTO deficiencies spotted from routine inspection



Site guidance by lock manufacturer



Site practical operation



LOTO theoretical training

Stress and Emotion Management

Employees may experience a variety of stresses (or pressures) at the workplace. If we don't handle stress properly, it can lead to poor health, including headache, sleeplessness, difficulty in concentrating, stomach upset, job dissatisfaction, low morale etc. This will decrease productivity and increase risks of injuries and illness. We invited external expert to offer training sessions on stress management for our employees. The training sessions demonstrate an understanding of how to deal with the pressure. This program received a warm response from employees and achieved good result.



Stress and emotion management training

Employee Assistance Program

Employee Assistance Program (EAP) was established on behalf of our employees to provide long-term assistance and benefits. EAP relies on professional personnel to offer diagnosis and recommendations concerning our organization, and provides professional guidance, training, advice, and assistance to employees and their family members.

The EAP helps employees and their families to resolve many kinds of problems, enhancing the performance of each employee as well as the organization as a whole. Trina Solar has developed a basic team of EAP psychological advisors and invited external specialists to do counseling on regular basis.

Apprentice Mentoring Program

Trina Solar has setup Apprentice Mentoring Program for every new employee. The program helps new employees adapt the new environment during probationary period. We regularly carry out the program, called "Recognizing Master", for the direct new production employees, and select the "Star Mentor" on quarterly or annually basis.



Apprentice mentoring program

Reward and Communication

Trina Solar has established a comprehensive reward and communication system. The reward includes various incentives, such as material incentive, honor incentive, demonstration incentive, cultural incentive etc. Employee communication meeting was regularly held to strengthen the positive orientation for employees, and constantly foster employees to grow in a motivating and positive atmosphere.



Award ceremony of excellent employees



Facility staff received written recognition letter

Legal Interpretation Seminar

Employee Relation (ER) group has organized legal interpretation seminar to help employees understand the requirements of new Labor Law of Peoples Republic of China and new Labor Insurance Regulation. The seminar allows employees to become familiar with the key obligations as an employee working in Trina Solar.



Legal interpret seminar

Employee Communication Meeting

To build up trust and connection between the company and our employee, Trina Solar develops regular communication regime to listen to our employees' voice and opinion, in order to better understand their views and opinions.



Employee communication meeting

Harmonious Enterprise

Wonderful Employee Activities

A sound and healthy staff culture is crucial for enterprise development. A variety of cultural activities can effectively relieve the employee's psychological pressure and negative emotions, and help form an atmosphere of mutual help, love, and trust. Trina Solar Labor Union is committed to organizing our employees' cultural activities and being a "spiritual home".



Basketball league tournament



Employee performance show



The fourth karaoke champion



Rice dumpling celebration of dragon boat festival



Tug-of-war competition

Trina Solar Labor Union organizes a campaign named "Walk into Workshop, Approach Production Employees" to mobilize the enthusiasm of our production employees. The campaign enhances the communication between management and workshop employee. The campaign helps our employee understand our company's rules and regulations. It has achieved a good result in stabilizing labor force, improving morale and productivity.



Skill competition at silicon workshop

Employee Caring and Helping

Caring during Summer Season

Thousands of employees kept to their various work positions during the hot summer season. On 9th August, 2011, together with team members from manufacturing and Supply Chain Center, Labor Union formed a team to visit the production workshop, sending cares to the front-line employees. The employees were deeply inspired. They promised that they will do their best to overcome high temperature, and try to fulfill the production targets.

Double Ninth Festival

Double Ninth Festival is a Chinese tradition festival for promoting the spirit of respecting elder people. Labor Union organized the activity of sending greetings to the senior employees (age above 55) and the parents of the employees having worked more than 10 years in Trina Solar. Appreciation letters and festival gifts were sent to the senior employees and those parents.



Appreciation letters to parents of long term service employees

Blessing on Lunar New Year Eve

On the eve of Lunar New Year, Labor Union formed a volunteer team to convey greetings and appreciation to those employees who persist in their work posts.



Blessing on Lunar New Year eve

Helping

Labor Union has established special funding program to help the needy employees, either underprivileged employees or those employees who suffer serious sickness. In 2011, we helped 9 underprivileged employees and 4 employees who suffer unexpected serious sickness.



Expressing sympathy to sick employees



Making an donation

4

COMMUNITY



Public Service and Charity

Rapid economic development has brought profound changes in the social structure of China. Public charities have become an important foundation for both China's social stability and harmonious development. As a responsible corporate citizen, Trina Solar pays much attention to its public welfare responsibility. We actively encourage employees and our suppliers to voluntarily participate in public charities, and make efforts to contribute to the community.

Earth Day Campaign

To promote the concept of "Green Energy, Green Earth" and respond to the vision of low carbon society, in April 2011, more than 50 employees rode bicycles, passing through Changzhou city to promote low carbon concept and environment protection awareness.



Riding bicycle for promoting low carbon concept and environmental awareness

Visiting Children Welfare House

In May 2011, with the love and care from more than 15,000 Trina solar's Employees, volunteer team of Labor Union visited a local child welfare house. We contributed more than US\$ 1500 donations. Holding hands, embracing, playing games together, we provided joy and encouragement to the children.



Volunteer in child welfare house

Eco-Changzhou, Carbon Footprint——Paintings Charity Bazaar

Co-link (forest tree) Environment Protection Association, founded by Haichun Gao, organized charitable paintings bazaar on 30th July 2011. The promotion was inaugurated with the theme of "Eco-Changzhou, Carbon Footprint". The purpose of the campaign was to guide Changzhou's young people on practicing the environmentally friendly low-carbon life, so as to disseminate the low-carbon concept to the whole society. The campaign elected Changzhou low carbon ambassadors, who represented Changzhou city to carry youth's low carbon white paper to Durban COP17 (The 17th Conference of the Parties to the United Nations Framework Convention on Climate Change), sending out a voice of commitment to global ecological civilization and low-carbon initiative in Changzhou city. Jifan Gao, Trina Solar's CEO, staff, city leaders as well as nearly 200 Co-link community members and their parents attended the charity. The attendees enjoyed Haichun's paintings and calligraphic works.



Haichun's paintings charity bazaar

“Low Carbon Changes Our Life” Presentation

Trina Solar invited Co-link members to deliver an awareness talk titled “low carbon changes your life” on 4th August, 2011. More than 200 Trina Solar management team and staff participated in the activity. Co-link members elaborated the low carbon life concepts. Low carbon life is not far from us. It is an awareness as well as an attitude. We should actively promote and practice low-carbon life from many aspects, and pay attention to water-saving, electricity saving and other energy consumption savings in our daily life. After the talk, attendees signed their signatures to show the commitment of practicing low carbon life.



Signing ceremony - Commitment to low carbon life

Award Ceremony for Co-link Charity Concert & Changzhou Summer Vacation Youth Practice Activity on Eco-civilization

At the Co-link charity concert, Co-link members played folk music ensemble, duet Liuqin concerto, violin solo, duet Yangqin concerto, flute solo, piano solo etc. They brought audience a beautiful, peaceful and harmonious artistic atmosphere. The award ceremony was held. The calligraphy, paintings, letters and other environmental works of 30 children from Zhonglou Experimental Primary School won the outstanding award. The 14 groups, including Jintan Committee Youth, received the excellent awards.

The ceremony also held a live fund raising event. US\$ 325,000 from both enterprises and individuals were raised. The fund will be used for public welfare and environmental protection programs such as the construction of “Co-link low-carbon park”.



Co-link charity concert

Sino-US Environment Science Education Forum Held in Trina Solar

A Sino-US Environment Science Education Forum was held in Trina Solar on 22nd August 2011. Experts from New York, Shanghai and Changzhou exchanged ideas and best practices in an environmental science education for middle school students. This is part of the “Eco-Changzhou, Carbon Footprint” series organized by Co-link Environment Protection Association, with the purpose of raising environmental protection awareness of the Changzhou people starting from the youth. About 100 teachers and students from Changzhou middle schools attended the forum.



Sino-US Environment Science Education Forum held in Trina Solar

Donation for Education

For 3 consecutive years, Trina Solar has provided funding to poor students to help them complete their primary and secondary school education in Liyang county. Volunteers from Trina Solar make one-to-one pairings with the underprivileged students to offer them long-term care and help. On 30th June 2011, 25 representatives from Trina Solar donated tuition grants and stationery to the two schools in Liyang county. The team also encouraged students to develop self-confidence, self-reliance, and self-improvement. Students expressed that they will study hard to meet the expectations of mentoring volunteers from Trina Solar.



Trina Solar also pledges our support and commitment to help our suppliers embrace their social responsibilities. In December 2011, Labor Union sponsored a “Friendly Football Tournament” among business partners and suppliers. The champion of the tournament contributed their prize of US\$ 1800 to Liyang Dai Po Primary School as a book fund. The suppliers expressed that they will work together with Trina Solar in the future to contribute more to the society.



Football match with business partner

Donation of book funds to local primary school

Community Engagement

The local community is one of Trina Solar's important stakeholders. In the course of carrying out our business activity, Trina Solar actively participates in community activities and contributes to community development. In May 2011, Labor Union organized "Trina Solar Photovoltaic Park Basketball Competition". Teams from several companies in the park participated in the competition, and the team members strengthened mutual communication and teamwork through this platform.



Basketball competition opening ceremony

We actively participate in various activities organized by community, such as 4th "Kang Hui Cup" Badminton Tournament, 4th "Qi Rui Rui Hu" Badminton Tournament, Xin Bei "Creative Cup" Basketball Tournament, Changzhou 9th Table-tennis Tournament, Toshiba Cup Soccer Tournament.



Medals won in the tournaments

Business Ethics

Trina Solar has established the Code of Business Conduct and Ethics (the "Code"), which contains general guidelines for practicing Trina Solar's businesses Limited consistent with the highest standards of business ethics. This Code is designed to deter wrongdoing and to promote:

- honest and ethical conduct, including the ethical handling of actual or apparent conflicts of interest between personal and professional relationships;
- full, fair, accurate, timely, and understandable disclosure in reports and documents that the Company will file with;
- compliance with applicable laws, rules and regulations;
- prompt internal reporting of violations of the Code;
- accountability for adherence to the Code.

Trina Solar has established a Business Ethics Committee. The responsibility of the committee is to lead our company's business ethics development and promotion. We have setup a dedicated department being responsible for any complaints or advisory work. The committee established channels, such as ethic hotline, anti-fraud hotmail etc to identify potential risks, and curtail them. The code of business conduct and ethics is published on Trina Solar's website: www.trinasolar.com

We focus on legitimate businesses, and adhere to the highest standards of business ethics. Trina Solar has put "The Code of Business Conduct and Ethics", "Management Policy for Gifts and Hospitality Offering", "Anti-fraud Reporting Policy" etc in place. These codes and policies reflect the moral values and operational guidelines of Trina Solar. We require our employees to observe the ethical standards advocated by the company when conducting our business.

Promote High Business Ethical Standards with Suppliers and Partners

Trina Solar treats business ethics as an important criterion for supplier selection and ongoing cooperation. We have signed "Business Ethical Commitment" with existing suppliers and partners, and setup a database to track their performance indicators, such as records of fraud, violation of labor law, legal complaints, etc. The aim is to lead and promote high standard of business ethics when dealing with suppliers and business partners.

Create reporting mechanism to solve problem and doubt

Trina Solar has established reporting mechanisms to allow employees report any issues in business ethics and inappropriate behavior, including bribery, fraud, corruption, conflict of interests and abusing of company assets etc., through e-mail, hot line or face to face talk.

Continuous training and promotion are critical in ensuring sound business ethics. We have setup a variety of channels to foster employees' awareness on business ethics, such as E-learning training course, organization of case-sharing seminar, relevant email message to all employees etc. Trina Solar is committed to ensuring our ethical business policy is always integrated into business activity.

5 AWARD



Award

• 2011

- Be awarded as an Low-carbon Economy Pilot Enterprise in Jiangsu by Jiangsu Development and Innovation Commission
- Obtained the medal of "10 Billion Cluster Enterprise of Jiangsu "
- Won the award of innovation enterprise in Jiangsu Province
- Got ISO14064:2006 verification statement from BSI (British Standard Institute)
- Entered into the Cluster of China Core Enterprises in 2011 from China Institute of City Competitiveness
- Be Awarded as Excellent Enterprise 2011 by the authority of Changzhou High Technology Development District
- Be elected as "2011-2013 International Famous Brand" in Jiangsu Province.
- Shift B team in Cell 4 workshop was awarded with the honor of "2011 Changzhou Safe Production Advanced Shift Team" by Changzhou Safe Production and Supervision Board
- Be ranked as the second position by SVTC's 2011 Solar Survey on Corporate Social Responsibility of PV manufacturers (Note: SVTC: Silicon Valley Toxics Coalition)
- Be highest ranked company for 2011 global photovoltaic industry sustainable development index



GRI Content Index

This GRI Content Index is provided to assist readers in understanding how our report aligns with the Global Reporting Initiative* (GRI) G3.1 Sustainability Guidelines.

Indicator Numbers	Description	Status	Report Section(s)	Page(s)	Explanatory Notes
1.Strategy and Analysis					
1.1-1.2	Statement from the most senior decision maker; Description of key impacts, risks, and opportunities.	●	Message From Chairman and CEO		
2.Organization Profile					
2.1-2.9	Name of the organization; Primary brands, products, and/or services;Operational structure of the organization; Location of headquarters;Nature of ownership; Markets served; Scale of reporting organization;Significant changes during the reporting period.	●	Corporate Profile	03	
2.10	Awards received in the reporting period.	●	Award	47	
3.Report Parameters					
3.1-3.4	Reporting period; Date of most recent previous report; Reporting cycle; Contact point for questions regarding the report or its contents.	●	About This Report		
3.5	Process for defining report content.	●	About This Report		
3.6-3.8	Boundary of the report; Limitations on scope and/or report boundary; Basis for reporting on joint ventures, subsidiaries, etc.	●	About This Report		
3.9	Data measurement techniques and the bases of calculations.	●	About This Report		
3.10-3.11	Explanation of the effect of any restatements of information provided in earlier reports; Significant changes from previous reporting periods.	●	About This Report		
3.12	Table identifying the location of standard disclosures in the report.	●	GRI Index		
3.13	Policy and current practice with regard to seeking external assurance for the report.	○			
4.Governance, Commitments, and Engagement					
4.1-4.4	Governance structure of the organization, including committees under the highest governance body; Indication of whether the chair of thehighest governance body is also an executive officer; Number of membersof the highest governance body that are independent and/or non-executive members.	●	Corporate Profile	03	
4.5	Linkage between compensation for members of the highest governance body, senior managers, and executives, and the organization's performance.	○			
4.6	Processes in place for the highest governance body to ensure that conflicts of interest are avoided	●	Corporate Profile Business Ethics	03 46	
4.7	Process for determining the qualifications and expertise of the members of the highest governance body on economic, environmental, and social (EE&S) topics.	○			

Indicator Numbers	Description	Status	Report Section(s)	Page(s)	Explanatory Notes
4.Governance, Commitments, and Engagement					
4.8	Internally developed statements of mission or values, codes of conduct, and principles.	●	Message From Chairman and CEO Business Ethic	46	
4.9	Procedures of the highest governance body for overseeing the organization's identification and management of EE&S performance.	●	Corporate Profile	03	
4.10	Processes for evaluating the highest governance body's own performance, particularly with respect to EE&S performance.	▼	Workplace Safety	23	
4.11	Explanation of whether and how the precautionary approach or principle is addressed by the organization.	●	Business Ethics	46	
4.12	Externally developed EE&S charters, principles subscribed to	●	Message From Chairman and CEO EHS Policy	05	
4.13	Memberships in associations and/or advocacy organizations.	○			
4.14-4.17	List of stakeholder groups engaged by the organization; Basis for identification and selection of stakeholders; Approaches to stakeholder engagement; Key topics and concerns that have been raised through stakeholder engagement and how the organization has responded to those key topics and concerns, including through its reporting.	▼	Message From Chairman and CEO		
5.Economic Performance Indicators					
EC1	Direct economic value generated and distributed. (Core)	●	Corporate Profile	03	
EC2	Financial implications and other risks and opportunities for the organization'sactivities due to climate change. (Core)	▼	Message From Chairman and CEO		
EC3	Coverage of the organization's defined benefit plan obligations. (Core)	○			
EC4	Significant financial assistance received from government. (Core)	○			
EC5	Range of ratios of standard entry level wage compared to local minimum wage at significant locations of operation. (Additional)	○			
EC6	Policy, practices, and proportion of spending on locally based suppliersat significant locations of operation. (Core)	○			
EC7	Procedures for local hiring and proportion of senior management hired from the local community at significant locations of operation. (Core)	○			
EC8	Development and impact of infrastructure investments and services provided primarily for public benefit through commercial, in-kind, or pro bono engagement. (Core)	▼	Public Service and Charity	41	
EC9	Understanding and describing significant indirect economic impacts, including the extent of impacts. (Additional)	○			
6.Environmental Performance Indicators					
EN1	Materials used by weight or volume. (Core)	○			
EN2	Percentage of materials used that are recycled input materials. (Core)	●	Waste Management	21	
EN3	Direct energy consumption by primary energy source. (Core)	●	Effective energy utilization	13	
EN4	Indirect energy consumption by primary source. (Core)	●	Effective energy utilization	13	

Indicator Numbers	Description	Status	Report Section(s)	Page(s)	Explanatory Notes
6.Environmental Performance Indicators					
EN5-EN7	Energy saved due to conservation and efficiency improvements.(Additional); Initiatives to provide energy-efficient or renewable energy-based products and services. (Additional); Initiatives to reduce indirect energy consumption and reductions achieved. (Additional)	●	Effective energy utilization	13	
EN8-EN10	Total water withdrawal by source. (Core); Water sources significantly affected by withdrawal of water. (Additional); Percentage and total volume of water recycled and reused. (Additional)	●	Use and Conservation of Natural Resources	15	
EN11-EN12	Location and size of land owned, leased, managed in, or adjacent to protected areas and areas of high biodiversity value. (Core);Description of significant impacts on activities, products, and services on biodiversity in protected areas and areas of high biodiversity value. (Core)	○			
EN13	Habitats protected or restored. (Additional)	○			
EN14	Strategies, current actions, and future plans for managing impacts on biodiversity. (Additional)	○			
EN15	Number of IUCN Red List species and national conservation list species with habitats in areas affected by operations, by level of extinction risk.(Additional)	○			
EN16-EN18	Total direct and indirect greenhouse gas emissions by weight. (Core); Other relevant indirect greenhouse gas emissions by weight (Core);Initiatives to reduce greenhouse gas emissions, and reductions achieved.(Additional)	●	Response to climate change	11	
EN19	Emissions of ozone-depleting substances by weight. (Core)	▼	Response to climate change	11	
EN20	NOx, SOx, and other significant air emissions by type and weight. (Core)	▼	Air emission	17	
EN21	Total water discharge by quality and destination. (Core)	●	Wastewater Treatment and Discharge	18	
EN22	Total weight of waste by type and disposal method. (Core)	●	Waste Management	21	
EN23	Total number and volume of significant spills. (Core)	○			No such incident
EN24	Weight of transported, imported, exported, or treated waste deemed hazardous under the terms of the Basel Convention Annex I, II, III, and VIII, and percentage of transported waste shipped internationally.(Additional)	○			
EN25	Identity, size, protected status, and biodiversity value of water bodies and related habitats significantly affected by the reporting organization's discharges of water and runoff. (Additional)	○			
EN26	Initiatives to mitigate environmental impacts of products and services, and extent of impact mitigation. (Core)	●	Message From Chairman and CEO EHS Management System	07	
EN27	Percentage of products sold and their packaging materials that are reclaimed by category. (Core)	▼	Waste Management Product Stewardship	21 05	
EN28	Monetary value of significant fines and total number of nonmonetary sanctions for non-compliance with environmental laws and regulations.	○			No fines and sanction for non-compliance with environmental laws and regulations
EN29	Significant environmental impacts of transporting products and other goods and materials used for the organization's operations, and transporting members of the workforce. (Additional)	○			
EN30	Total environmental protection expenditures and investments by type.(Additional)	●	EHS Capital Input	09	

Indicator Numbers	Description	Status	Report Section(s)	Page(s)	Explanatory Notes
7.Social Performance Indicators: Labor Practices					
LA1-LA2	Total workforce by employment type, employment contract, and region. (Core); Total number and rate of employee turnover. (Core)	○			
LA3	Benefits provided to full-time employees that are not provided to temporary or part-time employees, by major perations. (Additional)	○			
LA4	Percentage of employees covered by collective bargaining agreements. (Core)	○			
LA5	Minimum notice period(s) regarding significant operational changes, including whether it is specified in collective agreements. (Core)	○			
LA6	Percentage of total workforce represented in formal joint management worker health and safety committees that help monitor and advise on occupational health and safety programs. (Additional)	●	Training and Development	33	
LA7	Rates of injury, occupational diseases, lost days, and absenteeism, and number of work-related fatalities by region. (Core)	●	Workplace Safety	23	
LA8	Education, training, counseling, prevention, and risk control programs in place to assist workforce members, their families, or community members regarding serious diseases. (Core)	●	Workplace Safety	23	
LA9	Health and safety topics covered in formal agreements with trade unions. (Additional)	●	Workplace Safety	33	
LA10-LA11	Average hours of training per year per employee, by employee category. (Core); Programs for skills management and lifelong learning that support continued employability. (Additional)	●	Training and Development	33	
LA12	Percentage of employees receiving regular performance and career development reviews. (Additional)	○			
LA13	Composition of governance bodies and breakdown of employees by category according to gender, age group, minority group membership, and other indicators of diversity. (Core)	○			
LA14	Ratio of basic salary of men to women by employee category. (Core)	○			
LA15	Return to work and retention rates after parental leave. (Core)	○			
8.Social Performance Indicators: Human Rights					
HR1	Percentage and total number of significant investment agreements that include human rights clauses or that have undergone human rights screening. (Core)	○			
HR2	Percentage of significant suppliers and contractors that have undergone screening on human rights and actions taken. (Core)	○			
HR3	Total hours of employee training on policies and procedures concerning aspects of human rights that are relevant to operations, including the percentage of employees trained. (Additional)	▼	Training and Development	33	
HR4	Total number of incidents of discrimination and actions taken. (Core)	○			
HR5-HR7	Operations identified in which the right to exercise freedom of association and collective bargaining may be at significant risk, and actions taken to support these rights. (Core); Operations identified as having significant risk for incidents of child labor, or forced or compulsory labor, and measures taken to contribute to the elimination of child labor. (Core)	○			

Indicator Numbers	Description	Status	Report Section(s)	Page(s)	Explanatory Notes
8.Social Performance Indicators: Human Rights					
HR8	Percentage of security personnel trained in the organization's policies or procedures concerning aspects of human rights that are relevant to operations. (Additional)	○			
HR9	Total number of incidents of violations involving rights of indigenous people and actions taken. (Additional)	○			
HR10-HR11	Percentage and total number of operations that have been subject to human rights assessments and number of grievances resolved. (Core)	○			
9.Social Performance Indicators: Society					
S01	Nature, scope, and effectiveness of any programs and practices that assess and manage the impacts of operations on communities, including entering, operating, and exiting. (Core)	●	Business Ethics	46	
S02-S03	Percentage and total number of business units analyzed for risks related to corruption. (Core); Percentage of employees trained in organization's anti-corruption policies and procedures. (Core)	●	Business Ethics	46	
S04	Actions taken in response to incidents of corruption. (Core)	●	Business Ethics	46	
S05-S06	Public policy positions and participation in public policy development and lobbying. (Core); Total value of financial and in-kind contributions to political parties, politicians, and related institutions by country. (Additional)	○			
S07-S08	Total number of legal actions for anti-competitive behavior, antitrust, and monopoly practices and their outcomes. (Additional); Monetary value of significant fines and total number of non-monetary sanctions. (Core)	○			
S09-S10	Operations with significant potential or actual impact on local communities and prevention/mitigation activities. (Core)	●	Business Ethics	46	
10.Social Performance Indicators: Product Responsibility					
PR1	Life-cycle stages in which health and safety impacts of products and services are assessed for improvement. (Core)	●	Product Stewardship EHS Management System	05 07	
PR2	Total number of incidents of non-compliance with regulations and voluntary codes concerning health and safety impacts of products and services during their life cycle, by type of outcomes. (Additional)	○			No such incident
PR3	Type of product and service information required by procedures, and percentage of significant products and services subject to such information requirements. (Core)	●	Product Stewardship	05	
PR4	Total number of incidents of non-compliance with regulations and voluntary codes concerning product and service information and labeling, by type of outcomes. (Additional)	○			
PR5	Practices related to customer satisfaction, including results of surveys measuring customer satisfaction. (Additional)	○			
PR6	Programs for adherence to laws, standards, and voluntary codes related to marketing communications, including advertising, promotion, and sponsorship. (Core)	○			
PR7	Total number of incidents of non-compliance with regulations and voluntary codes concerning marketing communications, including advertising, promotion, and sponsorship by type of outcomes. (Additional)	○			
PR8	Total number of substantiated complaints regarding breaches of customer privacy and losses of customer data. (Additional)	○			
PR9	Monetary value of significant fines for non-compliance with laws and regulations concerning the provision and use of products and services. (Core).	○			

● Covered in the Report ● Partially Covered in the Report ○ Not Covered in the Report

