

Benefit Mankind with Solar Energy

Customer Focus
Respect & Win-win

Open Mindedness
Pursuit of Excellence

2015 Corporate Social Responsibility Report



www.trinasolar.com





Mission

Benefit Mankind with Solar Energy

Vision

A Global Leader in Smart Low Carbon Energy by 2020

Core Value

Customer Focus, Open Mindedness, Respect & Win-win, Pursuit of Excellence

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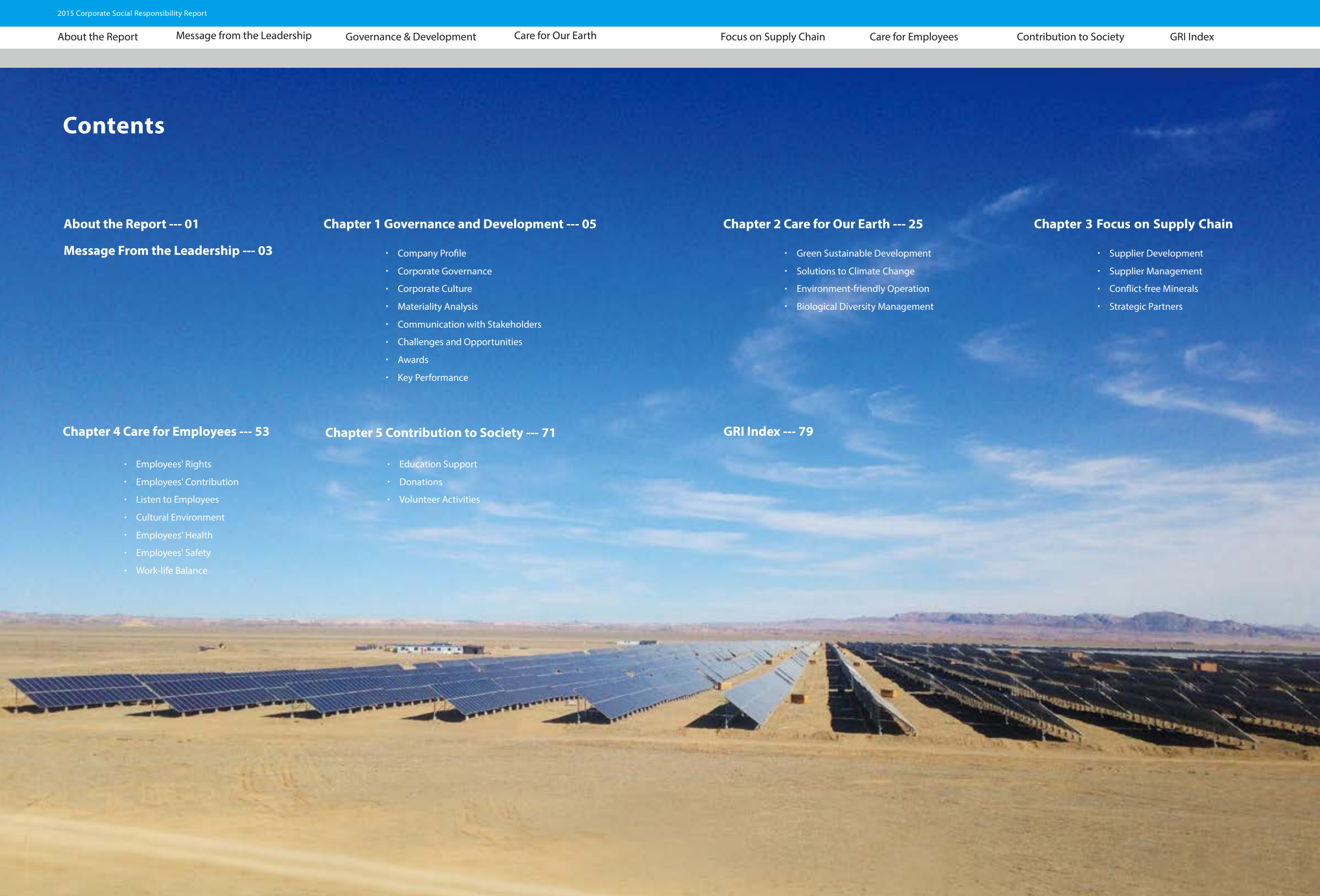
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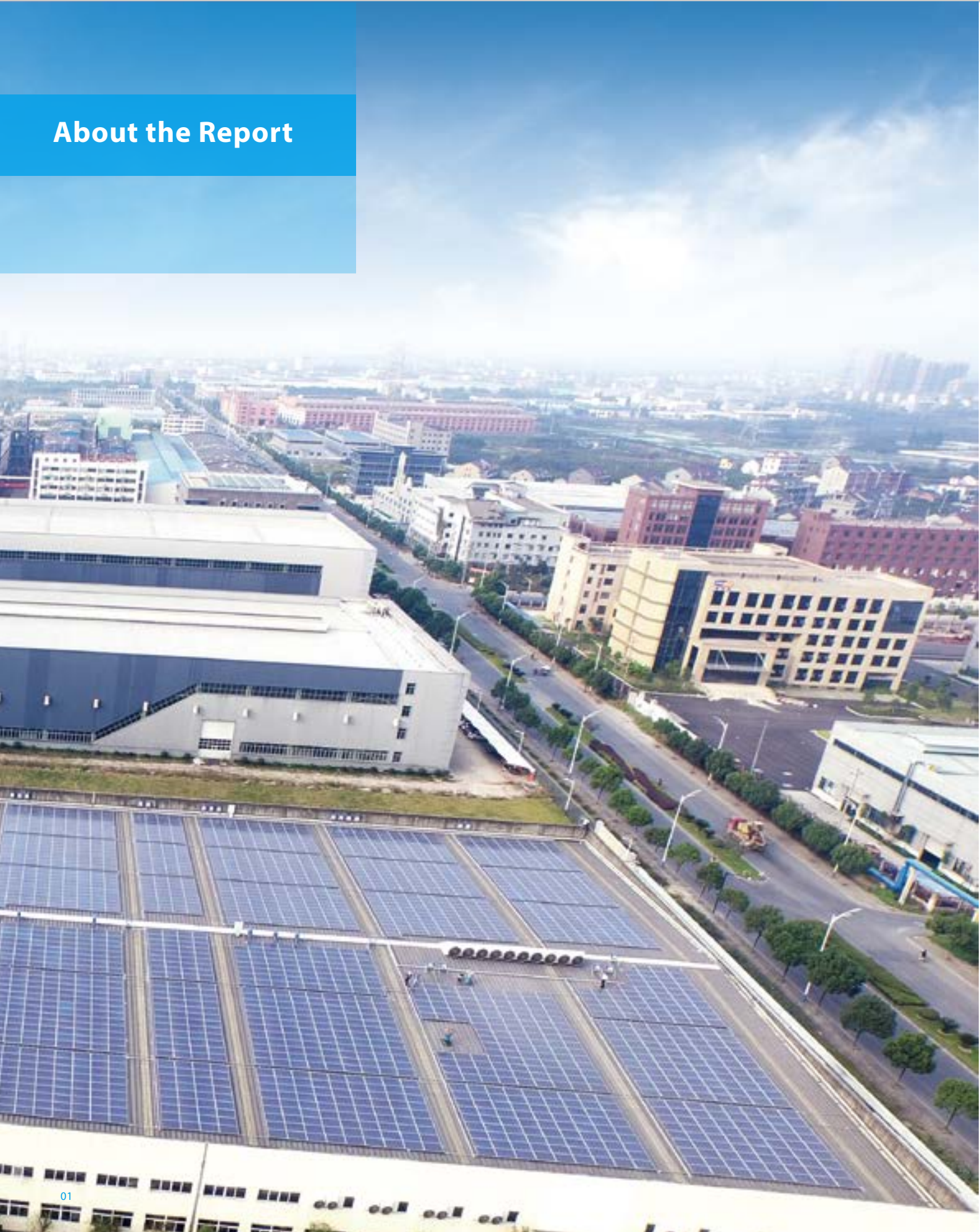
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About the Report



Range and Scope of the Report

Trina Solar compiled and issued the Corporate Social Responsibility Report since 2010, and the last Report was published and issued in August 2015.

The Report elaborates on Trina Solar’s ideas, strategies and concrete practices in relation to corporate social responsibility in 2015, covering all factories and operating business units which were under management control of Trina Solar. It includes 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 2015.

The annual Corporate Social Responsibility Report is dedicated to providing information to all stakeholders, including stockholders, potential investors, clients, staff, the communities we live and work in, business partners, public welfare organizations, media and government, to help them understand and evaluate Trina Solar’s influence, risks and opportunities in relation to sustainable development. We will continue to improve the disclosure quality of social responsibilities and gradually widen our sustainable development road.

Report Frame

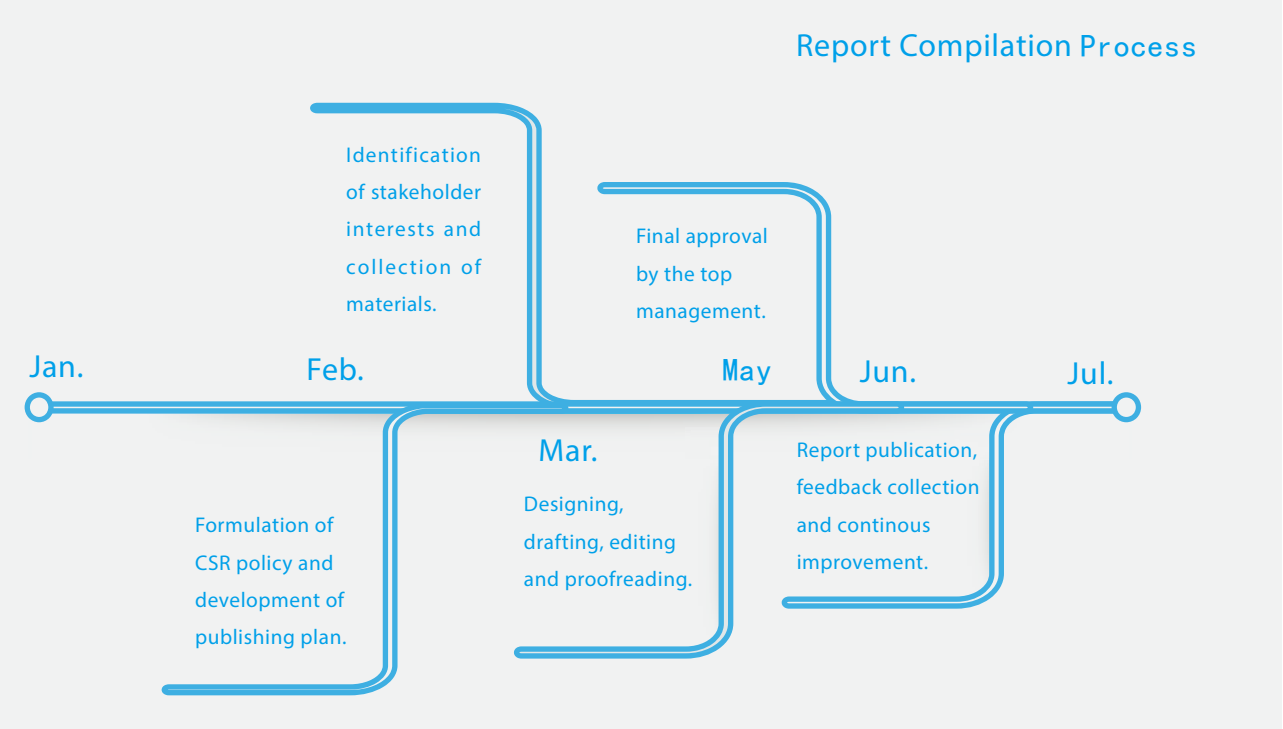
Trina Solar refers to Global Reporting Initiative’s (GRI)

Sustainability Reporting Guidelines to compile our Corporate Social Responsibility Report every year. The 2015 Corporate Social Responsibility Report is based on the Sustainability Reporting Guidelines G4 of GRI by revealing relevant information according to the G4 Sustainability Reporting Guidelines at comprehensive level.

Data Measurement

The data in this Report mainly comes from the original records of practical operation. The information in the Report will receive internal auditing by the company, and some special content will be subject to external auditing. We will periodically validate the effectiveness of the data collection process and data management system. We obtained ISO14001 Environmental Management System certification in 2008 and OHSAS18001 Occupational Health Management System certification in 2010. In 2011, we got the ISO14064-1 certification for Greenhouse Gas Emission Data Verification. In 2012, we passed the Product Carbon Footprint Verification PAS2050. In 2015, we were successfully certified with ISO50001/GBT 23331- Energy Management System. We validate the effectiveness of these systems through external auditing every year.

Our CSR report is prepared both in Chinese and English. Each has paper and electronic versions. The electronic format will be published in the form of PDF, which you can acquire from Trina Solar’s website. We appreciate your comments or feedbacks on this report via e-mailing to EHS_Department@trinasolar.com.



Message from the Leadership

Green, low carbon development has nowadays become a global consensus. The next five years will be crucial for PV industry to gradually achieve grid parity. We'll make persistent efforts to become a "Global Leader in Smart Low Carbon Energy Industry". We have the confidence and the resolution to uphold our CORE values of "Customer Focus, Open Mindedness, Respect & Win-win, Pursuit of Excellence", work tirelessly to achieve our mission of "Benefiting Mankind with Solar Energy" and create a great future for all our employees.

Dear Distinguished Stakeholders:

Energy is a driving force for the world economy and social development. However, the use of traditional fossil energy, such as oil, coal and other fossil fuels, is accelerating climate change and environmental pollution. As the world's largest solar module manufacturer and a first-class solar project developer and operator, Trina Solar delivers sustainable solutions to customers by producing renewable clean energy, improving energy security, creating jobs and promoting economic development. Meanwhile, we actively undertake the responsibility to mitigate and manage its full range of social and environmental impacts, including creating a safe workplace for employees and contractors, respecting rights of workers, communities and other stakeholders, and protecting the environment.

The year of 2015 was a fruitful and successful year for Trina Solar. Trina

Solar continued to solidify its leading position in the PV module industry as "The World's Largest PV Module Supplier". In 2015, we achieved module shipments of 5.74 GW, an increase of 56.8% from 3.66 GW in 2014. Net revenues reached \$3.036 billion, a growth of 32.8% from \$2.286 billion in 2014. We noticed a net profit of \$86.35 million, compared to a net profit of \$61.26 million in 2014. Since 2005, Trina Solar reached its accumulative shipments of nearly 17 GW as of the end of 2015, marking a significant milestone for the company. We increased our market share from approximately 1% in 2005 to more than 10% in 2015. The module that we shipped in the past 10 years had been installed in various projects worldwide, which could reduce approximately 20 million tons of carbon emission every year, equivalent to planting about 3.7 million acres of trees. Meanwhile, we made significant progress in our downstream

business also. Trina Solar entered the tier 1 players in PV power plant development and operation segment in 2015. As of the end of 2015, we reached about 900 MW of accumulated grid connected projects.

Trina Solar is committed to reducing the cost of solar manufacturing and power generation meanwhile integrating the concept of green production and sustainable development into every stage of our manufacturing processes. During past 5 years, Trina Solar strived to continuously improve energy efficiency, reduce emissions and conserve resources throughout our operations. We achieved 21.6% and 36.8% of reduction respectively for electricity and water consumption per MW module in 2015 compared to that of 2011. We sustained a consecutive reduction of carbon dioxide emission and achieved a reduction of 24.6% of Greenhouse Gases (GHGs) emission per MW module in 2015 (182.63 tones/MW) compared to that of 2011 (242.21 tones/MW). In order to reduce our carbon footprint, Trina Solar took a lead in PV industry to kick-off establishment of the Energy Management System. In August 2015, we were successfully certified with ISO50001/GBT 23331 - Energy Management System by China Quality Certification Center (CQC). To award our outstanding performance in energy conservation programs, Trina Solar was awarded with the honor of "2014 Energy Saving Advanced Enterprises" by Jiangsu Economic and Information Commission in September 2015. We achieved our Twelfth Five-year Energy Saving Target set up by National Development & Reform Commission (NDRC). The achievements are the result of the collective efforts, dedication and contribution of all Trina employees. We will continuously improve our EHS Management System to raise our energy efficiency and produce competitive solar products.

In response to the climate challenge, the historic Paris Agreement was reached in December 2015 during the 21st session of Conference of Parties (COP21), the United Nations Framework Convention on Climate Change (UNFCCC). The 195 States Parties involved in the negotiations committed to drawing up long-term low greenhouse gas emission development strategies. The objective of the Agreement is to hold the increase in global average temperature to well below 2°C above pre-industrial levels and to ensure that efforts are pursued to limit the temperature increase to 1.5 °C. This is the first time that an universal agreement has been reached in the fight against climate change.

The Paris Agreement (COP 21) is a challenge as well as an opportunity for global PV industry. Trina Solar realizes that global climate change is a serious environmental, economic and social challenge that warrants an equally serious response by governments and private sectors. We have started to conduct our annual quantification and reporting of greenhouse gas emissions since 2010 based on International Standards. In October 2014, we successfully passed the Product Carbon Footprint verification by BSI. The verification showed that we achieved a reduction of 13.2% in our product's carbon footprint compared to that in 2012. Besides, we have setup a long term goal to achieve a reduction of 18% of carbon footprint (kg CO₂-e/KW) and a reduction 15% of carbon emission per MW production volume (T CO₂-e/MW) in the next five years to 2020. Meanwhile, we exercise our leadership to work with others to

influence the development of sound public policies. On the eve of COP21 in Paris, together with nearly 80 business leaders from the States, Trina Solar jointly published an open letter on behalf of China Photovoltaic Industry Association, urging States leaders to "reach an ambitious climate agreement" and "create opportunities for the global employment and growth". The Paris Agreement is an opportunity for global PV industry as well. We are confident that PV grid parity will be achieved worldwide in the near future. Solar power is a cost-effective means of fighting climate change and the most versatile form of electricity generation. We will persist to innovate and cooperate to keep our global leading position in manufacturing cost, product quality and branding. We are committed to developing new technologies, new markets, new models and new services so as to provide sustainable clean energy and promote a harmonized development for people and the environment.

Trina Solar has always considered social responsibility as one of important concepts for sustainable development. In 2015, Trina Solar participated in the annual 2015 Solar Scorecard survey organized by Silicon Valley Toxics Coalition (SVTC). The Solar Scorecard ranked manufacturers of solar PV modules according to a range of environment, sustainability and social justice factors, including extended producer responsibility, emission transparency, chemical reduction plan, worker rights, workplace health & safety, supply chains, module toxicity, recycling, biodiversity and energy & GHGs etc. Trina Solar received a high score of 93 out of 100 and won the 3rd place. We were categorized as one of "2015 Leaders" in 2015 SVTC Solar Scorecard survey. This is the fifth consecutive year that Trina Solar retains as a leader in the global PV industry. The achievement is a result of our relentless pursuit for sustainable development. In July 2015, Trina Solar set up a Sunshine Fund for Entrepreneurship and donated RMB 10 million to China Siyuan Foundation for Poverty Alleviation. The purpose of the fund is to roll out public training courses and help those poor college students cultivate entrepreneurship and achieve success in photovoltaic industry. In December 2015, Trina Solar donated RMB 2.5 million to setup a special public welfare fund to support the filming of documentary of Mr. Liu Guojun, an outstanding Chinese entrepreneur and famous patriotic businessmen.

Green, low carbon development has nowadays become a global consensus. The next five years will be crucial for PV industry to gradually achieve grid parity. We'll make persistent efforts to become a "Global Leader in Smart Low Carbon Energy Industry". We have the confidence and the resolution to uphold our CORE values of "Customer Focus, Open Mindedness, Respect & Win-win, Pursuit of Excellence", work tirelessly to achieve our mission of "Benefiting Mankind with Solar Energy" and create a great future for all our employees.

Jifan Gao

Chairman & CEO of Trina Solar

Governance & Development

Trina Solar is committed to achieving and maintaining the highest level of corporate governance, maintaining sound and good corporate governance rules, so as to guarantee the interests of shareholders, customers and employees. It strictly complies with effective laws and regulations in the countries and regions where our business is operated, and with applicable guidelines and regulations issued by regulatory authorities; and verifies the Company's management system regularly. The company pays great attention to the compliance operation in good faith; follows the laws and regulations,international conventions and business ethics; sticks to taking care of the relationship with suppliers, clients, government departments, partners, competitors and other stakeholders with principles of fairness and honesty. It wins respect and market in good faith, improves the company's internal quality and value with compliance operation, and promotes the company's management level with information technology.



Company Profile

Founded in 1997, Trina Solar is a leading global provider of photovoltaic modules, system solutions and services. Trina Solar regards providing reliable and high-performance photovoltaic system as its duty. Although it has grown to a leading enterprise in the global solar industry, its core commitment will always be to provide customers with clean and reliable solar photovoltaic systems of the highest quality.

As one of China's earliest PV system integrators, Trina Solar devotes itself to the creation of smart energy together with worldwide installers, distributors, utility and project developers in order to build a sustainable solar industry, constantly leading the indtrial development in terms of technology innovation, product quality, promotion of environmental protection and performance of social responsibilities.



Total Shipments of
Modules in 2015
5.74 GW



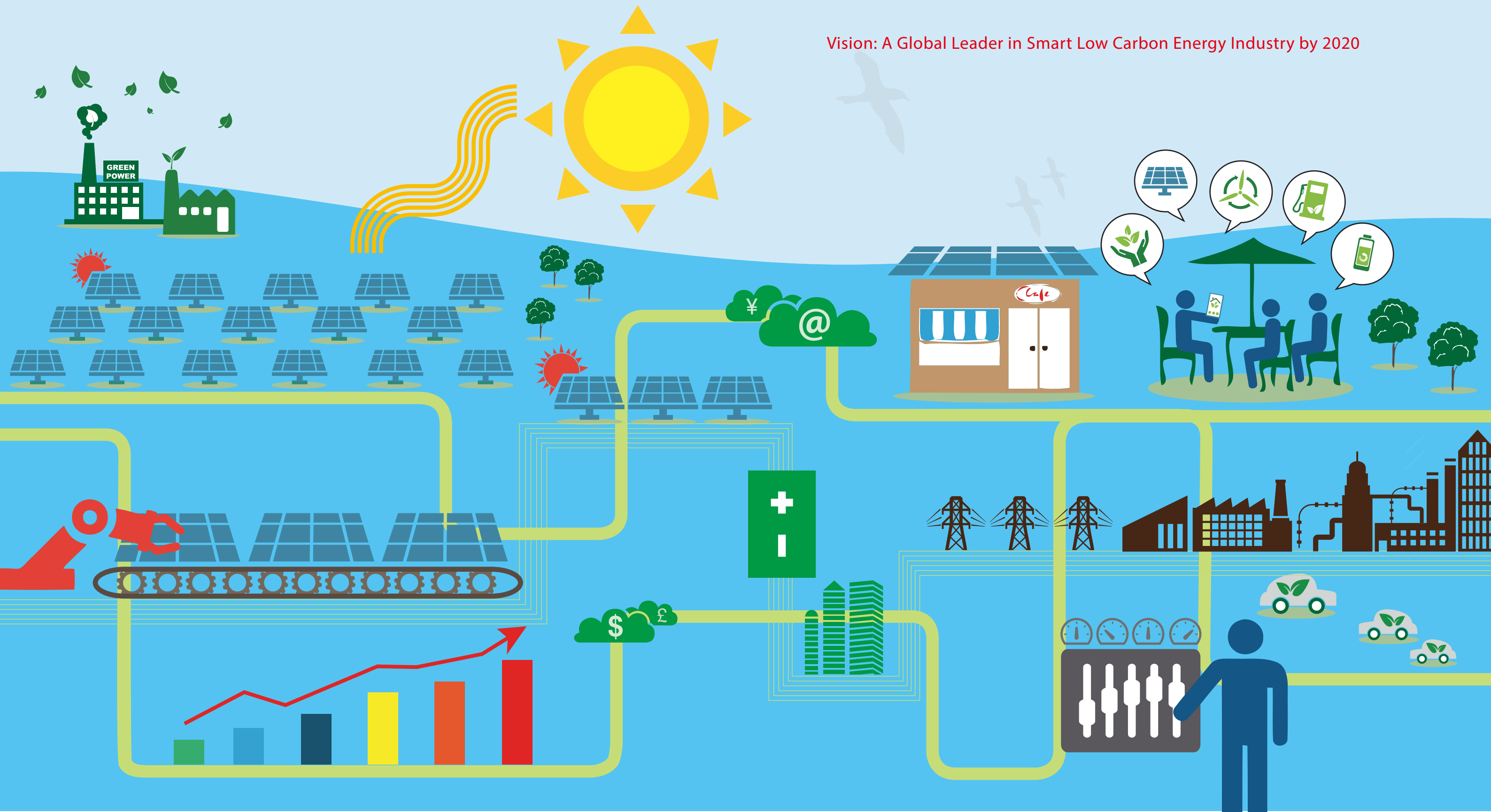
Manufacturing Bases/
Marketing Centers in
18 countries



Net Revenues of 2015
US\$ 3,036 million



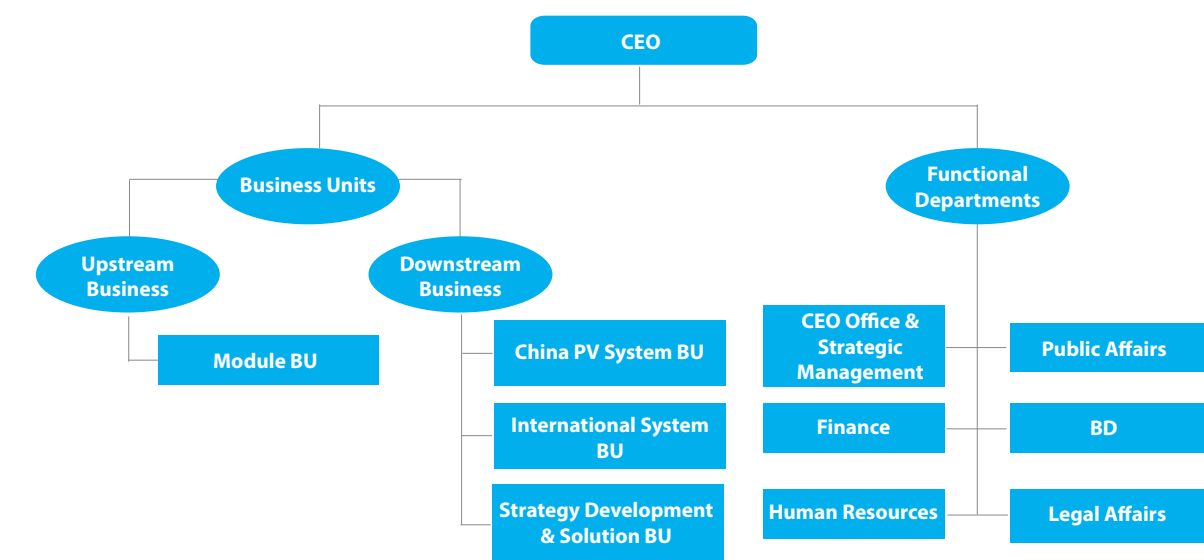
Employees
13,556



Organizational Structure

According to the company’s strategic planning and core business procedure, we continuously optimize the structure of the organization to establish a global organizational structure centered on Business Units that is efficiently supported by functional departments of the headquarters. The Business Units are responsible for the implementation of relevant business plans. Upstream businesses include Module Business Unit (MBU), and downstream businesses cover China PV System Business

Unit (CSBU), International System Business Unit (ISBU), Strategy Development & Solution Business Unit (SDS), etc. Functional departments of the headquarters are responsible for strategic planning, business support, risk control and management. All departments perform their respective functions to effectively support the achievement of goals and strategic realization of the company.



Corporate Governance

Trina Solar always performs the customer-oriented concept, constantly improving its transparent and open company

Risk Management

Risk management and control are necessary conditions for the stable development of the enterprise and the guarantee of employee safety. In order to properly identify and address various internal and external risks, and be responsible for stakeholders, Trina Solar has set up its Risk Management Department to formulate a risk management system, create workflows and regularly monitor major risks in the daily operation of the enterprise. The risk management work of the company is divided into two levels: high-level risks influencing the overall situation and strategy, and operation-level risks

Legal Compliance Control and Internal Audit

The Company has built a comprehensive internal control system based on SOX Act and the COSO Internal Control-Integrated Framework, formulating an authorization framework based on strategic objectives and operation planning so as to ensure business compliance and controllable risks. The company also promotes the implementation of internal control in daily operations through guidance and supervision. The Risk Control and Internal Audit tests and evaluates twice a year to see whether the company’s internal control is effective, immediately communicates with responsible departments on such matters as test results and control deficiencies, and follows up and improves upon the implementation of measures. At the end of

Ethics Construction

Trina Solar focuses on legitimate business and adheres to the highest standards of business ethics for the operation of the company, not limited to complying with laws and regulations, but also observing more strict requirements. Trina Solar has formulated a series of rules and regulations as well as procedures to process non-compliance, e.g. Gift and Benefit Receiving Management System, Gift and Entertaining Management System, Trina Solar Reporting System, Staff Rewards and Punishment System and so on. These systems completely reflect Trina Solar’s moral values and business operation rules, helping Trina Solar employees to always carry out their practical work based on these ethical standards advocated by the company.

Trina Solar provides special channels for employees to report misconducts or questionable business practices of staff, suppliers and other external cooperation partners through e-mail, telephone, correspondence or interview to the “Ethics Compliance” Department (including commercial bribery, embezzlement, fraud, conflicts of interests, falsification of

management system, and gradually building a responsible, honest and compliant corporate management mechanism.

influencing daily management and operation. The risks at these two levels have different workflows and management methods, and the Department aims to promptly identify relevant risks by means of management activities, and prepare management measures and methods in a purposeful manner, so as to limit the company’s risk within a reasonable and controllable range and minimize the influence on its short-term business and the realization of its management objectives and long-term strategic objectives.

each year, a third-party auditing institution audits the company’s overall internal control and provides auditing opinions on its effectiveness. For many consecutive years, the company has received positive audit conclusions from external auditing institutions concerning the effectiveness of its internal control. The Internal Auditing Department carries out work in strict accordance with the audit plan reviewed and approved by the Audit Committee, discloses potential misconduct and identifies improvement opportunities in operation and management through these audit activities, proposes correction opinions timely, and supervises the implementation of correction plans and the punishment of related responsible persons.

financial data, misuse of assets, etc.).

Meanwhile, Trina Solar conducts continuous training and education for setting up staff consciousness of legitimate business. We have prepared E-Learning training courses on business ethics for all staff to learn and strengthen practice of important knowledge. This helps to warn and instruct the existing staff to comply with laws and regulations through timely share of cases and improvement of the workflow. We also prevent possible corruption-related behaviors via mails on holidays. We ensure employees to abide by business ethics in a clear, simple and direct way, and ensure that the company’s operation and management is always in line with applicable business ethics policies.

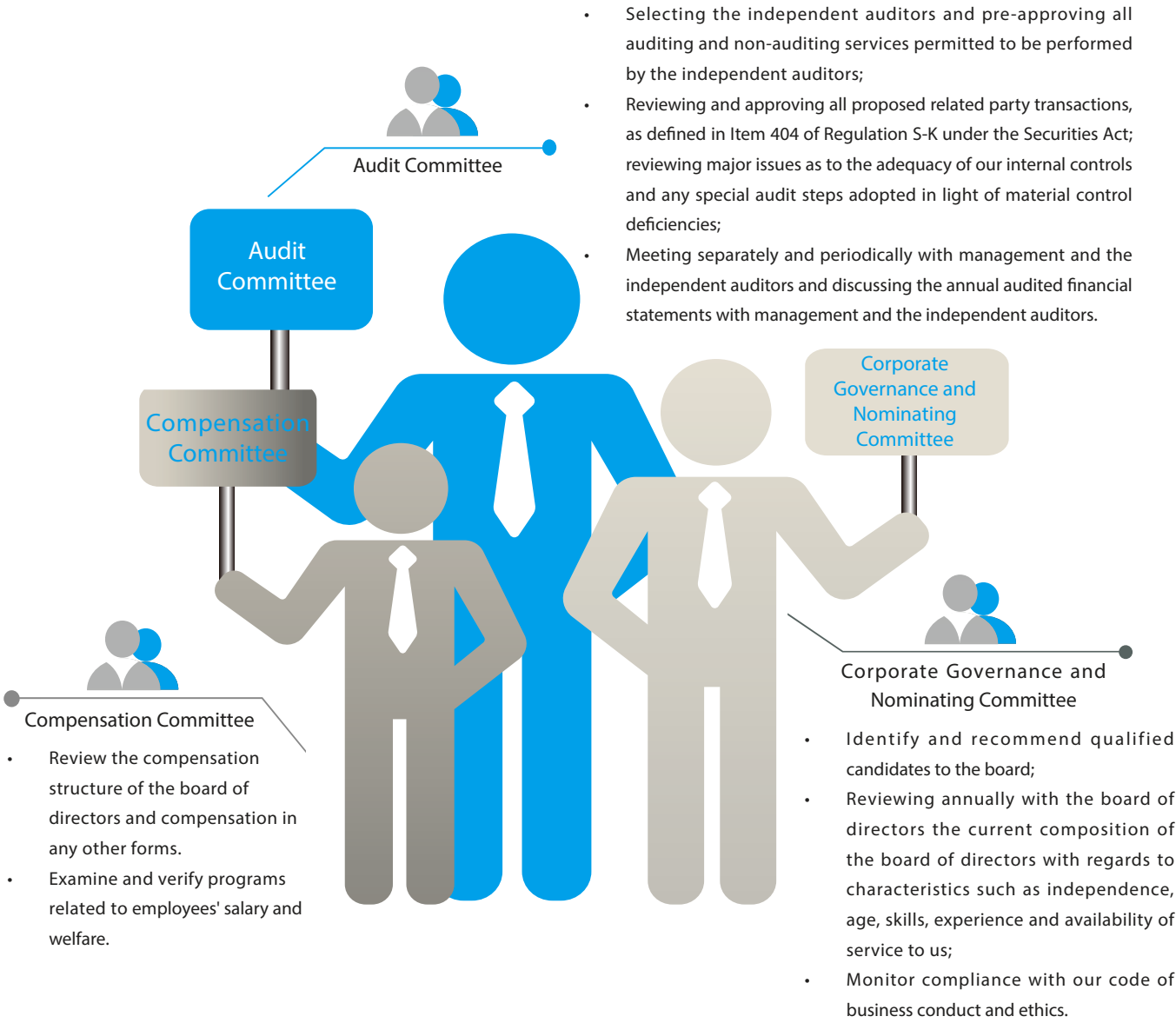
With headquarters in China, Trina Solar sets up professional agencies, i.e. the Business Ethics Committee, within the scope of global business. We have issued requirements and operation guidance about corporate governance on the company’s official website (www.trinasolar.com).



Board of Directors

Trina Solar adheres to being customer-centered, constantly improving its transparent and open company management system and gradually building a responsible, honest and compliant corporate management mechanism. Trina Solar

defines the company's decision-making power, business management rights and supervision rights. The check and balance ensures that the company runs smoothly.



Board of Directors



Corporate Culture

We are fully aware that excellent corporate culture makes a good working environment. It is the inner drive for sustainable development, the essential factor for corporate unity improvement and sound development, the basic foundation for establishing our core competitiveness and the effective guarantee for realizing our mission and vision.

“Benefit Mankind with Solar Energy” is our common commitment

for the future. Trina Solar’s vision of “Being a Global Leader in Smart Low Carbon Energy Industry by 2020” inspires us to advance forward. “Customer Focus, Open mindedness, Respect & Win-win, and Pursuit of Excellence” is the core belief rooted deeply in our hearts. It is the cultural gene that we insist and believe in for the long term, and the spiritual guidance leading us to achieve such a joint commitment.



Mission

Benefit Mankind with Solar Energy.

Vision

2020: A Global Leader in Smart Low Carbon Energy.

Core Values

Customer Focus
Open Mindedness
Respect & Win-win
Pursuit of Excellence

Customer Focus

- Seek to proactively understand customers' needs
- Respond to customer requests promptly and effectively
- Provide excellent services and experiences for customers
- Achieve commercial success through continuous innovation

Open Mindedness

- Think and act with integrity and honesty
- Courage to exhibit personal accountability
- Accept feedback with humility and willing to improve self
- Accept and embrace change

Respect & Win-win

- Respect others and build trust
- Foster a harmonious and effective working environment
- Create personal and team success
- Pursue win-win for all stakeholders

Pursuit of Excellence

- Possess a strong sense of ownership
- Dedicate to goal achievement with a pragmatic and factual attitude
- Challenge self and continuously exceed status quo
- Strive to be #1 through continuous innovation

Core Values

In order to integrate the core values in the daily behaviors of each Trina employee and put words into action, we continue to take a variety of programs to ensure that the core values are rooted in every aspect of our business. We maintain consistency in both thought and action in daily operations, and provide effective services to our customers at the same pace. In August 2015, we organized the TSL 2015 Family Day with the theme of “My Trina & My Love” and the purpose of this was strengthening emotional exchanges between employees and their families, and also promoting Trina Solar’s corporate culture amongst

them. Not only that, but in order to encourage the employees who make an excellent performance and contributions throughout the year to promote the core values of “Customer Focus, Open Mindedness, Respect & Win-win, Pursuit of Excellence”. We continue to set several awards, e.g. Outstanding Trina Core Award, Outstanding Contribution Award, Outstanding New Employee Award, etc., so as to enhance all employees’ sense of group honor, sense of mission, sense of belonging and cohesion, encourage them to achieve our new goal of “Transformation, Innovation, Leadership, Looking Forward to 2016”.



TSL 2015 Family Day — My Trina & My Love



Activity 1

We organized the employees’ families to visit Trina Solar’s Exhibition Hall and the State Key Laboratory of PV Science & Technology. It provided an opportunity for employees’ family members to know more about the green solar energy industry and enhance their sense of honor as family members of Trina Solar’s employees.



Activity 2

On the opening ceremony of the Family Day, Jifan Gao, Chairman & CEO of Trina Solar, together with the children, flew paper airplanes that were painted and made by the children. Enthusiasm of 1,500 employees and their families were stimulated whilst flying the technology dreams of the children.



Activity 3

Jifan Gao, Chairman & CEO of Trina Solar, led 200 employees and their families to rank a formation of "TSL". Taking advantage of an unmanned aerial vehicle, we kept the exciting moment in the form of videos and pictures forever.



Activity 4

The "Grand Dream Stage" opened the whole day providing a platform for children to show their talents. The children displayed their talents boldly by singing songs, playing instruments, reading nursery rhymes and so on.



Activity 5

In addition to the activities in Exciting Arena, Children's Game Town, Fun Carnival, Happy DIY and a Bite of TSL, there were also many folk art activities, e.g. dough figurine, Chinese fancy knot, sugar painting, colored drawing and cartoon animation.

2015 Outstanding Core Value Award

Zengbin Gao

System BU

Project Management Team VIII

2015 Outstanding New Employee Award

Yanan Liu

CHO Office



2015 Long Term Service Award

Zhigang Hu

Module BU

Chairman of Lanbor Union



2015 Outstanding Contribution Award

Cao Lu

Module BU

Module Manufacture Department



Materiality Analysis

Corporate responsibility analysis can help us have a thorough knowledge of the topics that are of greatest interest to our stakeholders, so as to make our report reveal relevant information at comprehensive level.

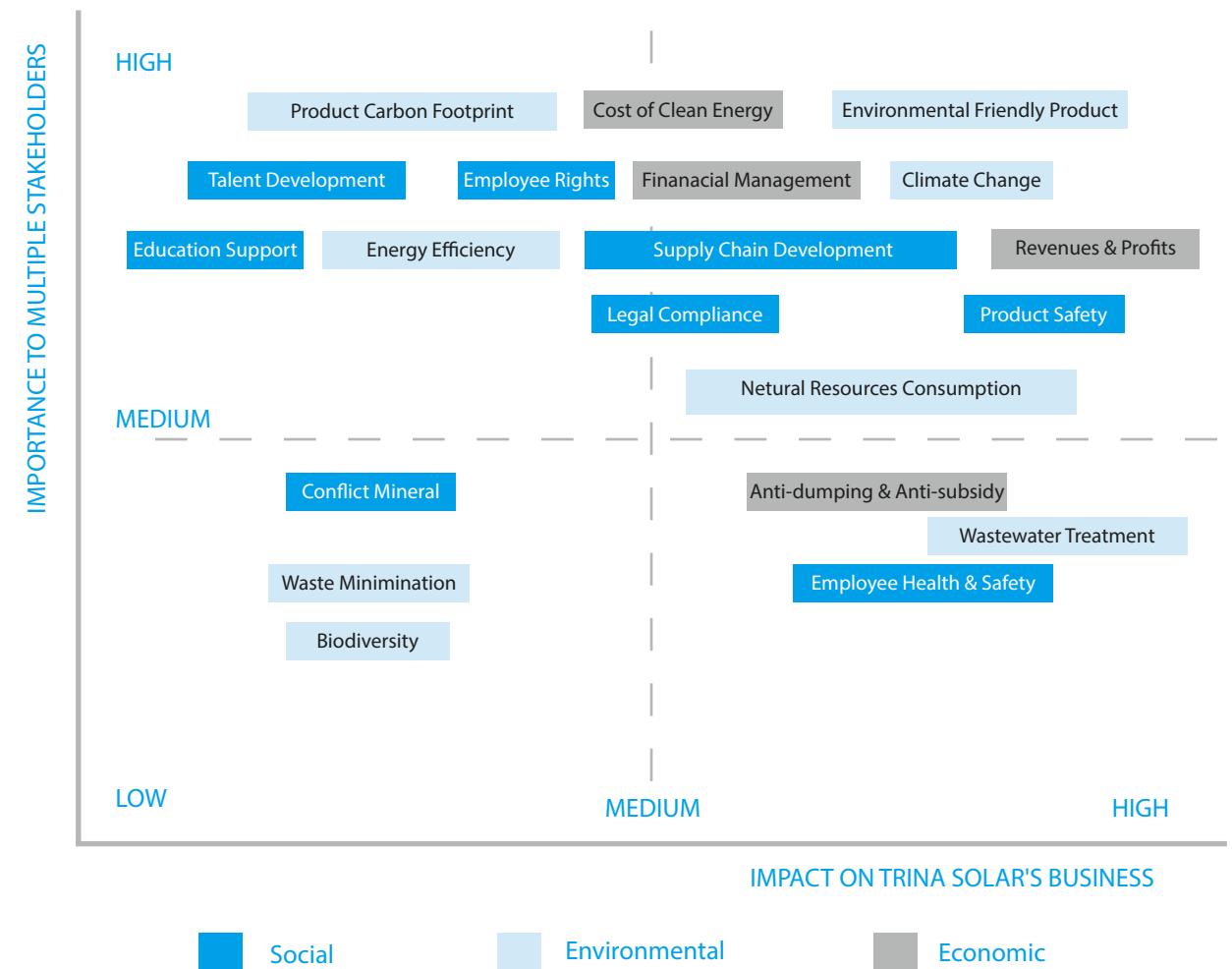
We identify issues from a wide range of stakeholders and sources by customer satisfaction survey, company website, email, employee blogs and forums, social media channels and meetings with government officials.

- **Economic:** financial management, revenues, profits, taxes, strategic investment, political conditions.
- **Environmental:** climate change, biodiversity, natural resource conservation, wastewater treatment, air emission, water recycle, waste minimization, environmental compliance, energy efficiency, carbon emission.

- **Social:** occupational health and safety, emergency preparedness, human rights, conflict minerals, community support, employee relationship, talent development and retention, corporate culture, intellectual property right, security, labor union, gender equalization.

We prioritize the significance of each issue based on the key criteria including business continuity, finance performance, business strategy, product brand, company reputation, competitive advantage, excellent management and community impact. We develop a materiality matrix according to the importance to stakeholders and the impact on Trina Solar's business. The materiality matrix demonstrates the topics being of the greatest interests to our stakeholders. We engage with stakeholders to periodically review the materiality matrix to ensure that it remains updated and continues to meet stakeholders' expectation.

MATERIALITY MATRIX



Communication with Stakeholders

Facing the challenge of sustainable development, we need to work together with all stakeholders, with each one giving full effort to his strong point, so as to jointly promote the sustainable development of human society via a variety of cooperation.

Trina Solar pledges to respect, consider and respond to the interests of its stakeholders. Through systematic identification and classification of stakeholders, Trina Solar has established stakeholder communication channels. For many years, we have been listening to stakeholders, responding to their needs in a comprehensive and timely manner and providing high quality

service to our customers and the community, so as to meet the expectations of stakeholders. For example, we strengthen communication with employees via Quarterly Internal Communications Conferences, Roundtable Communication Meetings, and Lunch Communication Meeting, etc. We timely understand our customers' requirements to provide high-quality products and services by attending the Global Solar Energy Exhibition and carrying out customer satisfaction questionnaires. We also offer advice and suggestions to policy makers involved in the PV industry development so as to actively promote and facilitate the healthy development of the PV industry.

No.	Name of Associations	Position
1	China New Energy Chamber of Commerce	Standing Director
2	China Renewable Energy Enterprise Club (CREEC)	Member
3	Chinese Renewable Energy Industries Association	Member
4	Chinese Renewable Energy Society (CRES)	Jifan Gao, Trina Solar's CEO, serves as the Standing Director.
5	Special Committee of Solar Buildings of CRES	Member
6	PV Committee of CRES	Dr. Zhiqiang Feng, vice-president of Trina Solar and director of the Technology Department, serves as the Director.
7	Jiangsu Photovoltaic Industry Association	Director Unit Jifan Gao, Trina Solar's CEO, serves as the Chairman.
8	Changzhou Photovoltaic Industry Association	Chairman Unit Jifan Gao, Trina Solar's CEO, serves as the Chairman.
9	China Electricity Council (CEC)	Standing Director Unit Jifan Gao, Trina Solar's CEO, serves as the Standing Director.
10	Industry and Commerce Association of Xinbei District, Changzhou	Vice Chairman Unit
11	China Chamber of Commerce for Import and Export of Machinery and Electronic Products	Vice Chairman Unit
12	Changzhou Industry and Commerce Association	Vice President Unit
13	Solar Energy PV Product Branch of China Chamber of Commerce for Import and Export of Machinery and Electronic Products	Vice Director Unit
14	Jiangsu Energy Industry Association	Vice Chairman Unit
15	Foreign Enterprise Association of Changzhou High-Tech Zone	Vice Director Unit
16	Boao Forum for Asia	Platinum Member
17	China PV Industry Association	Director Unit Jifan Gao, Trina Solar's CEO, serves as the first Director.
18	Global Solar Council	Jifan Gao, Trina Solar's CEO, serves as the Chairman of the Joint Committee.
19	World Economic Forum	The 1 st Industry Shaper in PV industry.

Trina Solar's Products Make their Debut at 2015 International PV Expo (Japan)



On February 27th, 2015, Mr. Jifan Gao, Trina Solar's Chairman and CEO, was invited to PV Expo 2015 in Japan. He delivered a keynote speech with the theme of "National Initiatives and Future Vision of Solar Power Generation". Gao addressed that "The role of Chinese PV companies is ever more important to meet the global needs by virtue of competitive products."

The "PV Expo 2015 (Japan)" was one of 9 independent international exhibitions of "The World Smart Energy Week 2015", and also the largest international solar energy exhibition in Japan. The Expo set up an independent Chinese exhibition area for the first time. Trina Solar won the wide attention with its high-efficiency modules and solar energy system solutions.

Stakeholders Engagement



Trina Solar participates in the Indian New Energy Exhibition.



National Energy Administration Director Nuer Baikeli carried out an in-depth investigation at the Changzhou Headquarters of Trina Solar on November 7th, 2015

Challenges & Opportunities

We believe that, an excellent enterprise can not only brave challenges, but also understand social demands and take the challenge as an opportunity to explore a broader market. In 2015, we realized our vision that we set up 5 years ago. The past 5 years has seen a full cycle of boom and bust in the PV industry, Trina Solar has survived and prospered despite the tough times. In 2015, we continued to solidify our leading position in the PV modules industry as “The World’s Largest Solar Module Manufacturer and a First-class Solar Project Developer and Operator”.

The next five years will be crucial for PV industry to gradually

achieve grid parity, it is also the transition period for Trina Solar to become a “Global Leader in Smart Low Carbon Energy Industry”. The next 5 years will be a special period, when PV grid parity is achieved in most regions of the world, PV industry will move into the maturity phase. We will take the opportunity and continue to coordinate with our partners worldwide, so as to accelerate the transformation to clean and reliable renewable energy.

We will always focus on the opportunities and challenges confronted by global and operational locations, and make persistent efforts to maintain our leading position in the industry when we enter the new milestone era of photovoltaic power.

Jifan Gao Elected Co-Chairman of the Global Solar Council



Trina Solar, as the council organization of the China Photovoltaic Industry Association, is continuously dedicated to promoting the establishment of the Global Solar Council. We actively communicate and coordinate with the Solar Energy Associations of related countries and regions, and strive to gain consensus and reduce divergence, so as to further promote the use of solar energy and benefit mankind by fighting against climate change.

The Global Solar Council (GSC) was established in December 2015. Mr. Jifan Gao, China Photovoltaic Industry Association President and Trina Solar’s Chairman and CEO, was elected Co-Chairman. Held from November 30th to December 11th in Paris, France, the COP21 is the 21st annual conference on climate change led by the United Nations. The conference is attended by representatives from countries around the globe and aims to achieve a legally binding and universal agreement on climate change, with the goal of keeping global warming below 2° C.

The GSC was established by leading national and regional solar associations from both emerging and established markets to unify the entire solar power sector on an international level, share best practices and jointly accelerate solar deployment worldwide. The GSC believes that solar power is already one of the cheapest forms of electricity globally, a cost-effective means of fighting climate change, and the most versatile

form of electricity generation. According to the GSC, to avoid a greater than 2 ° C increase in global temperature, it is imperative to strongly accelerate the deployment of solar power. A 10% share of global power generation by 2030, from less than 1% today, is possible given the right market conditions.

Mr. Jifan Gao, Chairman and CEO of Trina Solar and President of the China PV Industry Association, commented: "I am extremely honored to represent the China PV Industry Association as a Co-Chairman of the GSC. I believe that the launch of the GSC marks a new era in the advancement of the solar industry and will form a unified force representing all members that share the same goal. Solar is becoming a major source of electricity generation today. I am very pleased to say that Trina Solar has nearly shipped accumulative 17GW solar modules in the past ten years, equivalent to an annual reduction of approximately 20 million tons of carbon dioxide emissions. Being the most versatile form of electricity and thanks to its continuous decline in costs driven by technological advancements, I believe solar will play a more important and greater role than ever in tackling climate change problems. I am confident that the establishment of the GSC will further drive the global adaptation of solar and eventually help to forge new frontiers in combating climate change to benefit all mankind."

Trade protectionism arises from some countries, such as EU and U.S. Those countries initiated anti-dumping (“AD”) and anti-subsidy (“AS”) investigation on China’s photovoltaic products and imposed AD&AS duties on solar cells and panels imported from China. In July 2015, the U.S. Department of Commerce reviewed AD&AS rates and kept the rates unchanged. In December 2015, EU Commission announced to initiate review investigation during which AD&AS and Price Undertaking (“UT”) measures will remain in force. Trina Solar emphasized its continued commitment to fair market competition and a free-trading environment that would help to achieve its mission of benefitting mankind with solar energy. In December 2015, Trina Solar announced its withdrawal from EU’s Price UT and was committed to continuing to service EU customers through its overseas manufacturing facilities.

International Trade Dispute

National government actively pushes and promotes healthy development of PV industry. However, we anticipate that PV industry will face a series of challenges, such as payment of land-use tax for PV construction project, reduction and postponement of FIT (Feed-in-tariff), suspension and curtailment of PV power generation in Western China, oversupply resulted from the capacity expansion of tier 1 manufacturers etc. Those disadvantages will lead to increase the cost of PV power generation and postpone the times of achieving grid parity. We are committed to developing new technologies, new markets, new models and new services so as to provide sustainable clean energy and constantly reduce the cost of clean energy.

Cost of Clean Energy



Challenges & Opportunities in 2015



Overseas Expansion

Trina Solar is expanding overseas business. The challenges we are facing and tackling with include:
Corporate Culture: We have an open mind to respect cultural differences, establish and cultivate corporate culture in an environment of cross culture, multi-languages and cross regions.
Talent Diversity: Our ability to attract and retain diverse talents is also one of keys to ensure our business success. We have to not only focus on the development of original talents in new environment, but also achieve the integration of the original team and external team, so as to promote their own advantages and collaboration.
System Improvement: Another challenge is to improve our operation management system and implement cost control measures. We should improve our internal efficiency and implement lean manufacturing.
Win-win Cooperation: We rely on international cooperation in overseas expansion processes and try to achieve win-win situation through understanding and respecting others while adhering to our business principle and bottom-line benefit.

The Paris Agreement (COP21)

The Paris Agreement (COP 21) is a challenge as well as an opportunity for global PV industry. Trina Solar realizes that global climate change is a serious environmental, economic and social challenge that warrants an equally serious response by governments and private sectors. We exercise our leadership both in reducing its own footprint and in working with others to influence the development of sound public policies in fighting against climate change. We will persist to innovation and cooperation to keep our global leading position in manufacturing cost, product quality and branding. Solar green energy will become more popular in future. Trina Solar is committed to playing an active role in fighting against climate change and achieving our mission of “Benefiting Mankind with Solar Energy”.

Awards

No.	Date	Awards
1	January 2015	Be awarded with "Rheinland Star PV Module Award 2014" by TUV Rheinland.
2	January 2015	The R&D and Industrialization High-efficiency Crystal Silicon Solar Cell project was awarded with "Second Prize of 2014 Jiangsu Science and Technology" by the Jiangsu Science and Technology Agency.
3	March 2015	Yancheng Trina Solar Science & Technology Co., Ltd. was awarded with "Advanced Group in Safety Production Work in 2014" by Yancheng Economic Development Zone.
4	March 2015	Hubei Trina Solar Energy Co., Ltd. was awarded with "Advanced Unit in Safety Production Work in 2014" by Shazui Street Committee of Xiantao City, Hubei Province.
5	April 2015	Be awarded with "APVIA Asian PV Award 2015" by the Asian Photovoltaic Industry Association (APVIA).
6	April 2015	Passed the quantification system certification of ISO14064 greenhouse gas emission conducted by BSI.
7	August 2015	Trina Solar, together with Osaka Sangyo University Team, won 2015 FIA Alternative Energies Cup Solar Car Race in Suzuka, Japan.
8	August 2015	Be certified with ISO50001/GBT 23331 - Energy Management System by China Quality Certification Center (CQC).
9	September 2015	Be awarded with the honor of "2014 Energy Saving Advanced Enterprises" by Jiangsu Economic and Information Commission.
10	November 2015	Be awarded with the honor of "Top 50 Most Promising Global Enterprises in China" at the 2 nd Session of Chinese Enterprise Globalization Forum held by the Center for China and Globalization (CCG).
11	November 2015	Passed the external audit of ISO14001 Environmental Management System and OHSAS18001 Occupational Health and Safety Management System conducted by TUV.
12	November 2015	Yancheng Trina Solar Science & Technology Co., Ltd., Hubei Trina Solar Energy Co., Ltd. and Changzhou Trina Yabang Solar Energy Co., Ltd. successfully passed the external audit of ISO14001 Environmental Management System and OHSAS18001 Occupational Health and Safety Management System conducted by TUV.
13	November 2015	Received two prestigious awards in environmental protection at the 8 th International Roundtable of Multinational Corporations' Leaders (IRMCL), i.e. Award of Leading International Multinational Corporation in Environmental Protection 2015 and Award of International Multinational Corporation's Leader of Environmental Protection 2015.
14	December 2015	Won the 3 rd place in environment and social responsibility performance survey conducted by the Silicon Valley Toxics Coalition (SVTC). Be categorized as one of "2015 Leaders" in 2015 SVTC Solar Scorecard survey.

Key Performance

The following table provides a performance summary of our key economic, environmental, and social indicators from 2011 to 2015.

Key Performance		2011	2012	2013	2014	2015
Economy	Solar Module Shipments (GW)	1.51	1.59	2.58	3.66	5.74
	Net Revenues (US\$1000)	2,047,902	1,296,655	1,774,971	2,286,119	3,035,512
	Gross Profit (US\$1000)	332,642	57,243	218,194	385,572	566,633
	Gross Margin (%)	16.2%	4.4%	12.3%	16.9%	18.7%
	Income (loss) from Operations (US\$1000)	30,966	(264,872)	(38,079)	120,103	176,976
	Net Income (loss) (US\$1000)	(37,820)	(266,555)	(72,236)	61,260	86,347
Environment	Carbon Emission per unit Production (T/ MW)	242.21	239.43	173.79	182.68	182.63
	Electricity Consumption per unit Production (MWH / MW)	282	277	206	219	221
	Water Consumption per unit Production (T / MW)	2,982	2,870	2,093	1,987	1,885
	Wastewater Discharge per unit Production (T / MW)	2,031	1,760	1,301	1,282	973
	Environmental Investment (US\$ 1000)	12,925	8,104	16,722	15,261	17,040
Employees	Number of Employees	15,000	12,000	13,900	14,280	13,556
	Rate of Employees Joint in the Labor Union (%)	65.8%	67.3%	70.1%	68.6%	64.4%
	Female Employee Ratio (%)	37.4%	36.5%	34.9%	34.7%	34.3%
	Percentage of employees whose salary is higher than the stipulated minimum (%)	100%	100%	100%	100%	100%
	Total Recordable Rate (TRR)	0.79	0.56	0.39	0.81	0.72
	Work-related fatalities	0	0	0	0	0
	Average training hours per capita	30	33	25	17	
	Occupational Health & Safety Investment (US\$ 1000)	3,939	4,569	2,615	2,433	4,635



Care for Our Earth

We commit to the environment by utilizing the energy and resources in a more efficient way. We strive to use energy and natural resources responsibly while maintaining our products to a high quality. In 2015, the amount of electricity consumption and water consumption per MW (megawatt) module was decreased by 21.6% and 36.8% respectively in comparison with that of

2011. Even though we are proud of the results achieved, we are fully aware that this is a long-term and arduous task. We unwaveringly advocate and implement low-carbon development strategy and integrate green-manufacturing concepts throughout all the stages of our company's operation. We spare no efforts to create an environment-friendly and resource-conserving company.



2011-2015 Environmental Performance:

- Reduction of Carbon Emission per MW Module Production: 24.6%
- Reduction of Electricity Consumption per MW Module Production: 21.6%



2016-2020 Environmental Objectives:

- Reduction of Carbon Emission per MW Module Production: 15%
- Reduction of Integrated Energy Consumption per MW Module Production: 10%

Green Sustainable Development

Corporate sustainable development is a business approach that creates long-term shareholder value by embracing opportunities and managing risks derived from economic, environmental and social developments. As a worldwide enterprise committed to the development of green solar energy, Trina Solar has long implemented the concept of sustainable development who is also committed to conserving energy and protecting the environment in order to fulfill its mission of achieving sustainable development of the company,

the community and the ecosystem.

Not only are we a clean solar energy manufacturer, but also an advocate for providing sustainable solutions to address the global climate change and energy crisis. Together with governments, PV associations and other stakeholders, Trina Solar has always played an active role in shaping and influencing formation of international and national climate change policies.

Year	Event	Brief Description of Event
December 2015	21 st Session of Conference of Parties (COP21)	<ul style="list-style-type: none">Together with nearly 80 business leaders from more than 150 global countries, Trina Solar jointly published an open letter on behalf of China Photovoltaic Industry Association (CPIA), urging States leaders to “reach an ambitious climate agreement” and “create opportunities for the global employment and growth”.
December 2015	Global Solar Council (GSC)	<ul style="list-style-type: none">Global Solar Council (GSC) was officially launched during 2015 Paris Climate Conference (COP21). Mr. Jifan Gao, Chairman and CEO of Trina Solar, was elected as a Co-Chairman of the GSC.The aim of GSC is to unify the entire solar power sector to an international level, sharing best practices and jointly accelerate solar deployment worldwide.
June 2014	China Photovoltaic Industry Association (CPIA)	<ul style="list-style-type: none">China Photovoltaic Industry Association (CPIA) was established to promote healthy and sustainable development of photovoltaic industry. Mr Jifan Gao, Chairman and CEO of Trina Solar, was elected as the first president of the CPIA.The aim of the CPIA is to represent Chinese PV enterprises to promote the establishment of a free and fair trade environment globally for Chinese PV enterprises and to strengthen communications with global solar enterprises so as to achieve a common goal of bringing affordable solar energy to the world.
April 2014	Boao Forum for Asia	<ul style="list-style-type: none">Trina Solar attended Boao Forum for Asia which was held in Hainan with a theme of "Asia's New Future: Identifying New Growth Drives".Mr. Jifan Gao, Chairman and CEO of Trina Solar, delivered speeches on the sub-forums of Energy, Business Environment of Privately-owned Enterprises, Sino-Japan Economic Cooperation, and Cooperation between Enterprises on both sides of Taiwan Straits. He exchanged his ideas with relevant leaders, advocating the sustainable development of the photovoltaic industry in China.
November 2013	Global Green Development Forum	<ul style="list-style-type: none">Trina Solar was invited to attend Global Green Development Forum in Copenhagen, Denmark.During the discussion on the topic of “The Energy Prospect in Latin America and Caribbean Area”, Mr. Jifan Gao, Chairman and CEO of Trina Solar, pointed out that the energy demand in the area was rapidly growing, and we could effectively reduce the negative impact on the environment by replacing conventional power supply with clean, reliable and available green solar energy.
October 2013	22 nd World Energy Congress	<ul style="list-style-type: none">Trina Solar attended the 22nd World Energy Congress. The theme for the Congress was "Safeguard the Energy Security Tomorrow".Mr. Jifan Gao, Chairman and CEO of Trina Solar, delivered a speech on the topic of “Prospect, Advantages and Disadvantages of Solar Industry”. In this speech, he appealed to all governments, enterprises and NGOs to jointly promote free trade and fight against trade protectionism. He called on global governments and enterprises to invest in and explore new energy and construct a green energy structure for a better planet.
August 2012	Sino-German Entrepreneur Forum	<ul style="list-style-type: none">Mr Jifan Gao, Chairman and CEO, was invited to attend Sino-German Entrepreneur Forum.On behalf of Chinese PV companies, he called on Sino-German enterprises of the two countries to carry on the principle of free trade and fair competition so as to achieve a mutually beneficial cooperation and greener development.

Open Letter from CEOs to World Leaders Urging Climate Action

We call upon governments to take bold actions at the Paris climate conference (COP 21) in December 2015 to secure a more prosperous world for all of us. We are already taking action, and we stand ready to work together with the international community to help deliver practical climate solutions.

Climate change is one of the biggest global challenges that will shape the way we do business now and in the coming decades. The United Nations Climate Change Conference of the Parties 21 (COP21), to be held in Paris in December 2015, aims to deliver a new climate change agreement that will put the world on track to a low-carbon, sustainable future while keeping the rise in global temperature to under 2 degrees Celsius.

This coalition, comprising CEOs from 78 companies with operations in over 150 countries and territories, and facilitated by the World Economic Forum, believes the private sector has a responsibility to actively engage in global efforts to reduce greenhouse gas (GHG) emissions, and to help lead the global transition to a low-carbon, climate-resilient economy. This coalition further seeks to catalyze and aggregate action and initiatives from companies from all industry sectors—towards delivering concrete climate solutions and innovations in their practices, operations and policies.

The undersigned, as CEO climate leaders, urge the world's leaders to reach an ambitious climate deal at COP21, aligned with the UN Post-2015 Sustainable Development Goals (SDGs). We extend an open offer to national governments to meet and co-design tangible actions as well as ambitious, effective targets that are appropriate for their different jurisdictions.

Our commitments:

The companies we represent are taking voluntary actions to reduce environmental and carbon footprints, setting targets to reduce our own GHG emissions and/or energy consumption while also collaborating in supply chains and at sectoral levels. Technological innovations will be an important element.

We agree on the need for inspirational and meaningful global action and aligned messaging. We will act as ambassadors for climate action, focusing on solutions and economic opportunities and using "the science debate is over: climate change is real and addressable" as one of the common themes to raise public awareness.

We will actively manage climate risks and incorporate them in decision making—not least to realize growth opportunities. We will take steps to implement effective strategies to strengthen not only our companies’ but also societal resilience.

Our vision supporting a climate deal:

We believe that effective climate policies have to include explicit or implicit prices on carbon achieved via market mechanisms or coherent legislative measures according to national preferences, which will trigger low-carbon investment and transform current emission patterns at a significant scale. We support global mitigation approaches that promote cost effective incentives for cutting emissions, while respecting level playing fields and preventing carbon leakage.

We urge a strategic action agenda—supported by clear and consistent policies and robust monitoring, reporting and verification (MRV)—that will complement business efforts to stimulate innovation as well as collaborative actions across value chains, and to develop and scale up alternative and renewable energy sources, promote energy efficiency, end deforestation and accelerate other low-carbon options and technologies such as ICT.

We welcome transparency and disclosure regarding financial investments and policies in relation to all energy-related activities—including fossil-based and alternative. We support assessments of resilience to climate risks and call for new financial instruments to stimulate alternative energy and efficiency projects as well as green bonds. This will enable climate action to be integrated with financial reporting and instruments.

We encourage governments to set science-based global and national targets for the reduction of GHG emissions and the development of alternative energy sources.

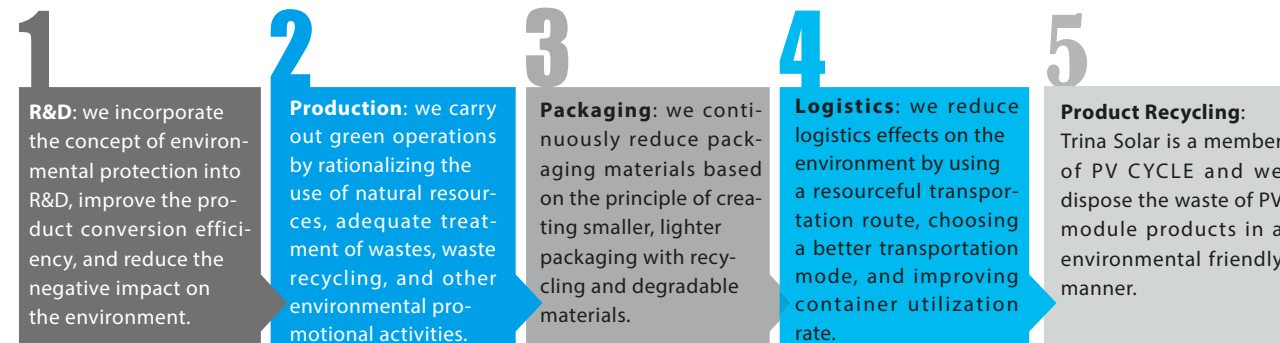
Hastening the shift to a low-carbon economy in an economically sustainable manner will generate growth and jobs in both the developing and developed world. Delaying action is not an option—it will be costly and will damage growth prospects in the years to come. The CEO climate leaders call on government leaders and policy makers to align on global measures, to be consistent in policy-making and to develop helpful innovation frameworks.

A comprehensive, inclusive and ambitious climate deal in Paris on mitigation, adaptation and finance—in combination with a strong set of clear policy signals from the world’s leaders—is key to accelerating this transition. This opportunity should not be missed.

Environment Management System

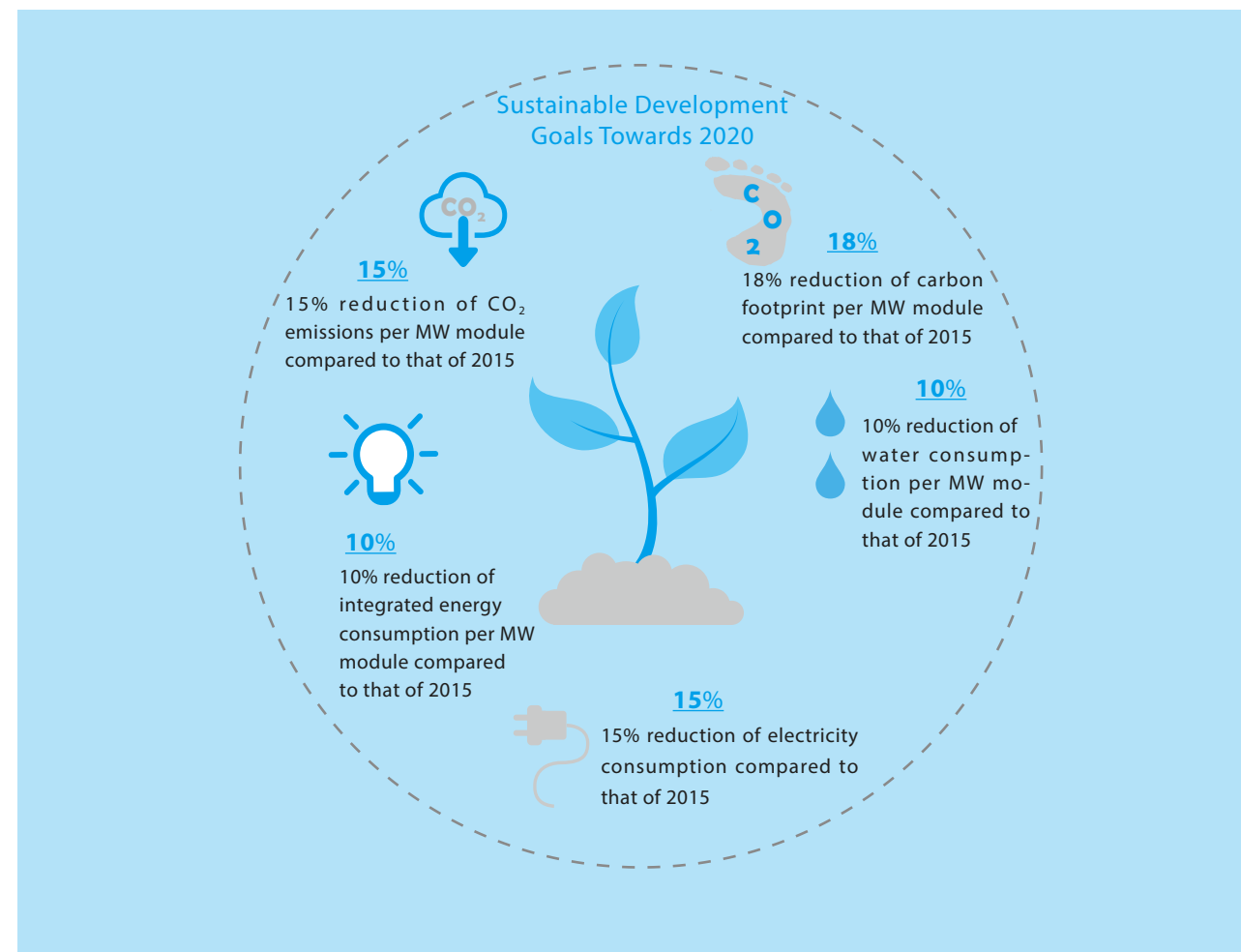
Trina Solar has established the ISO14001 Environment Management System, and strictly followed the rules and regulations to ensure its effectiveness and completion. We effectively manage the environment aspects related

to our products, activities and services through a series of environmental management system and procedures, and integrate the environmental responsibilities into the company's business process.



Trina Solar Changzhou established the ISO14001 Environment Management System in 2008. Yancheng Trina, Hubei Trina and Changzhou Trina Yabang also established the ISO14001 Environment Management System in 2015. In 2016 Trina Solar

plans to certify three new sites, i.e. Thailand site, Xinjiang site and Hefei site as part of its ISO 14001 program. We set the following goals for environment sustainable development towards 2020:



We established and maintained a comprehensive environment management system and occupational health management system in line with international standards, i.e., ISO14001 and OHSAS18001. We set up Environment, Occupational Health &

Safety and Energy Management Policy, Product Stewardship Policy, and advocate that all Trina Solar's employees have the responsibility to obey and promote these policies.

Environment, Occupational Health & Safety and Energy Management Policy

Trina Solar is committed to designing and manufacturing of solar photovoltaic modules and related system-enhancing solutions to lower the overall costs of installed solar system. While supplying clean energy products, we attach high importance to the occupational health and safety of employees, as well as environmental protection and sustainable development between our operating economies and environment. Our vision is to create a safe, healthy and environmentally-friendly workplace for employees and a harmonious green planet for mankind. Herewith we pledge the following:



Solutions to Climate Change

Energy is the driving force of world economic development and the material basis of mankind's survival. While enjoying the benefits of economic growth and technological progress,

humans also face a series of challenges. These challenges are caused by over-consumption, such as energy shortage, environmental pollution and climate change.

Climate Change and Sustainable Development

From the World Climate Conference in Copenhagen to the World Climate Conference in War-saw, low-carbon and sustainable development has been the global pursuit. As a leading PV enterprise, we keep pondering on how to use our resources to an advantage and industrial influences so we can promote the development of renewable energy and incorporate low-carbon concept into the entire industry chain for the low-carbon development of the society as a whole. For this reason, we have invested many resources and try to effectively solve the problem of climate warming by optimizing energy utilization, producing clean energy and

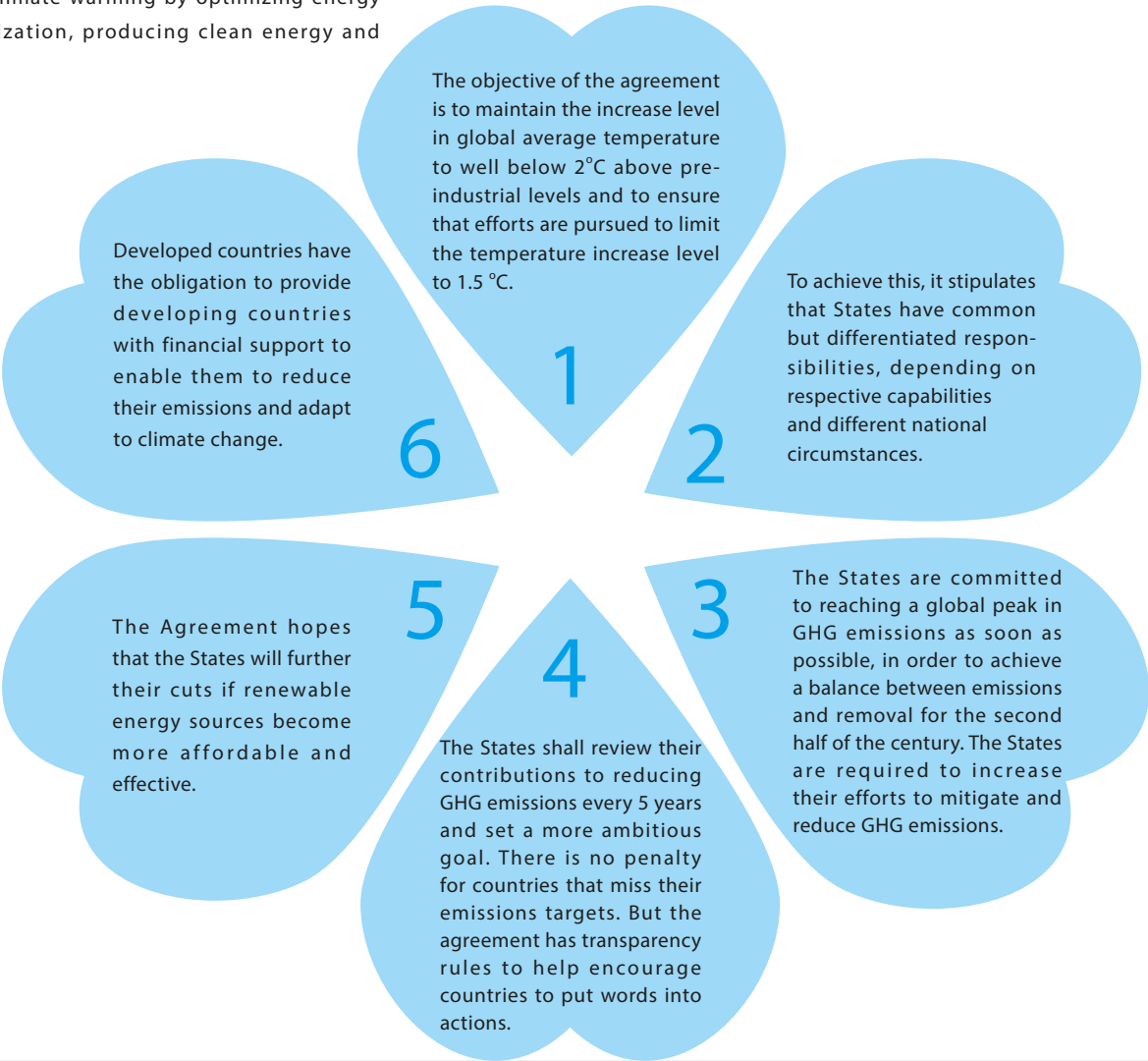
conducting green office work.

Key Points of the 21st Session of Conference of Parties (COP21)

In response to the climate challenge, the historic Paris Agreement was reached in December 2015 during the 21st session of Conference of Parties (COP21), the United Nations Framework Convention on Climate Change (UNFCCC). The 195 States Parties involved in the negotiations committed to drawing up long-term low greenhouse gas emission development strategies. The key points of the Paris Agreement include:



Zhenxiang Zhao,
Senior EHS Director
of Trina Solar



Key Findings of IPCC's Assessment

Since 1990, the Intergovernmental Panel on Climate Change (IPCC), established by the United Nations, has periodically (every 5~6 years) released assessments of the state of Climate science. Some of the key findings of IPCC's assessment include,

- The conclusion that a lot of the observed global warming over the past 50 years is caused by human activities and is now viewed as an "extremely likely" (95 percent probability), upgraded from the "very likely" (90 percent probability) conclusion from the previous assessment.
- Unfortunately, even dramatic future reductions in Greenhouse Gas Emissions could not forestall the climate change that resulted from past emission. Many changes that were observed may even be irreversible.
- The estimations of future sea level rises have been increased significantly.
- In the absence of significant decrease of emissions, the planet is likely to get hotter by more than 2 degrees centigrade which is above pre-industrial level temperature during the 21st Century. This may get hotter by more than 4 degrees centigrade. This level of warming is likely to be accompanied with significant sea level rise, and extreme weather, as well as impacts to water resources, ecosystems and human health.
- Human influence on the climate system is clear, and recent anthropogenic emissions of greenhouse gases are the highest in history. Recent climate changes have had widespread impacts on human and natural systems.
- Continued emission of greenhouse gases will cause further warming and long-lasting changes in all components of the climate system, increasing the likelihood of severe, pervasive and irreversible impacts for people and ecosystems. Limiting climate change would require substantial and sustained reductions in greenhouse gas emissions which, together with adaptation, can limit climate change risks.
- Climate change is occurring. The climate change is very likely caused by human activities and poses significant risks for a wide range of human and natural systems.
- Climate change and sustainable energy supply are crucial challenges for the future of humanity. It is essential that world leaders agree on the emission reductions needed to combat negative consequences of anthropogenic climate change.

(Remarks: Quoted from the 5th Session of IPCC 2013, the 4th Session of IPCC 2014 and the abstract of Jointly Declaration of "8 Countries+ Five Academies")

Trina Solar's Engagement in Fighting Against Climate Change

Global climate change is a serious environmental, economic and social challenge that warrants an equally serious response by governments and the private sectors. We exercise our leadership both in reducing our own carbon footprint and in working with others to influence the development of sound public policies in fighting against climate change. Trina Solar has undertaken a series of actions and programs to reduce its carbon footprint. These initiatives include:

- **Energy Efficiency Improvement:** Trina Solar strived to continuously improve energy efficiency, reduce emissions and

conserve resources throughout our operations. The table on page 34 shows the key energy saving projects implemented over the past six years. These projects have saved about 12.8 million kWh/year of electricity, 773,000 Nm³/year of natural gas, leading to a reduction of more than 12,119 ton/year of carbon emission. Based on national energy-saving requirements, we have set up an action plan to gradually phase out those high-energy consumption M&E equipment.

- **Establishment of Energy Management System:** In order to improve energy efficiency and reduce energy cost, we took a lead in PV industry to kick-off the establishment of the Energy Management System in 2014. In August 2015, we were successfully certified with ISO50001/GBT23331 - Energy Management System by China Quality Certification Center (CQC).
- **Green Power Generation:** The rapid development of the world economy and aggressive use of fossil fuels are increasing carbon dioxide (CO₂) emissions, accelerating climate warming and threatening the natural ecological balance. Trina Solar found a sustainable energy solution – solar energy. Solar energy is the world's most abundant energy source which is a clean, safe and inexhaustible. Sunlight that reaches us every 15 minutes will be sufficient to power the world for an entire year. From 2005 onwards, Trina Solar reached its accumulative shipments of nearly 17 GW as of the end of 2015. The module that we shipped in the past 10 years had been installed in various projects worldwide, which could reduce approximately 20 million tonnes of carbon dioxide emission every year, equivalent to planting about 3.7 million acres of trees. Through its design and manufacturing of innovative and technology-driven solar products, Trina Solar is committed to providing energy solutions and achieving our mission of "Benefiting Mankind with Solar Energy".
- **R&D Programs:** Trina Solar State Key Laboratory is a state of the art facility designed to foster technological innovations and drive PV technologies. The main mission of the lab is to research and develop future Trina Solar products which are increasingly more efficient solar products. The Laboratory has partnered with many of the world's leading PV research institutes, such as Solar Energy Research Institute of Singapore (SERIS), Australia National University (ANU) etc., to progress solar technology and create cutting-edge solutions for our customers. The Laboratory has consecutively created a world record 3 times in 2015 and 12 times during the past 5 years. In 2015, the 156 x 156 mm Mono- and Multi-crystalline cell conversion efficiencies have reached an efficiency of 22.13% and 21.25% respectively, and both have created new world records. Trina Solar will continue to advance efficient conversation rate boundaries.
- **Supply Chain Improvement:** Based on the analysis of our footprint, the emission associated with ocean transport is much lower than those associated with air transport. The greatest opportunity to reduce emissions is to convert shipments from air to ocean transport. In recent years, we have increased our efforts to reduce the emissions and environmental impact associated with our transportation and logistics suppliers.

Product Carbon Footprint Verification

Trina Solar pays ongoing attention to the harmonious development of the enterprise and the environment. We carry out PAS2050/ISO14067 Carbon Footprint Verification every two years and verify the greenhouse gas emissions during the whole life cycle, including acquisition of raw materials, manufacturing, transportation, packaging, etc. The verification allows us to seek opportunities to reduce greenhouse gas emissions in the process of product design, manufacturing and packaging, and to explore the potential projects of energy-saving and pollution reduction.

Carbon Emission Reduction

Manufacturing of solar modules consumes electricity, natural gas and other forms of energy and natural resources. Trina Solar admits that it's the enterprise's social responsibilities to disclose carbon emission and establish a GHG Inventory which meets the principles according to requirements of ISO14064 in terms of relevance, completeness, consistency, accuracy and transparency.

Trina Solar has made continuous efforts in establishing a systematic methodology to quantify, report and disclose GHG emissions, which helps the company achieve pollution reduction target and also foster employees' awareness of using natural resources in more efficient ways. With our efforts, the CO₂ emission per MW module production in 2015 reduced by 24.6% compared to 2011.

Enhancement of Energy Efficiency

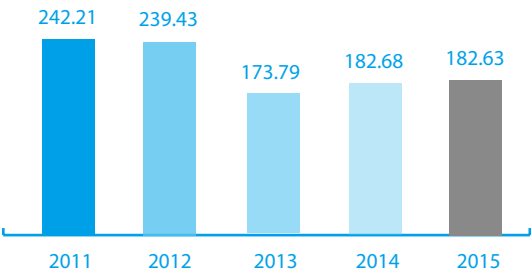
A sustainable development requires not only clean energy, but also higher energy efficiency. We focus on enhancing energy efficiency in order to reduce CO₂ emission and produce more cost-competitive products. In 2015, we continued to focus on energy efficiency improvement by identifying and implementing energy-saving projects and optimizing energy use. The electricity consumption per MW production decreased by 21.6% compared with that of 2011. The electricity consumption per MW module for 2015 was 221 MWH/MW, slightly higher than that of 2014. This was due to the fact that automation renovation projects were implemented in 2015 for the improvement of productivity.

Compared to 2011, CO₂ emission per MW module production in 2015 reduced by **24.6%**

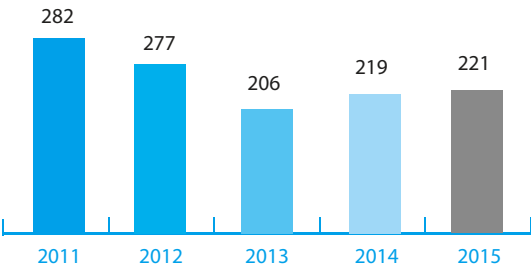
Compared to 2011, electricity consumption per MW module production in 2015 reduced by **21.6%**

Compared to 2012, carbon footprint for TSM-PC05A in 2014 reduced by **13.2%**

Carbon Emission per MW Module Production (T/MW)



Electricity Consumption per MW Module Production (MWH/MW)



Upgrade of Air Compressor Frequency Conversion System in Yancheng Trina

Yancheng Trina has three air compressors controlled by a power frequency. Two of them run with a low loading rate which results in waste of electricity.

The facility department replaced the air compressors' power frequency system with frequency conversion system that improved energy efficiency. The air compressors were upgraded with soft start system, to reduce electrical surge, protect grid, motor and electrical components, and extend life of motor and contactor. The project has saved 216,000 kWh/year of electricity, equivalent to a reduction of 173 tonnes CO₂ emission each year.



Upgrade of Multi-crystalline Furnace from Model G5 to G6

Casting multi-crystalline silicon ingots is one of the most energy intensive steps in the entire production chain for PV modules. The wafering workshop team carried out brainstorming and came up with the idea of upgrading of multi-crystalline furnace from existing model G5 to G6. The aim of the project is to reduce the energy consumption of this production process, so as to bring down the manufacturing cost and raise the energy efficiency. The project was completed in the first quarter of 2015. There were 93 G5 multi-crystalline furnaces in West Campus and 75 in Southeast Campus that were replaced with G6 ones. G6 multi-crystalline furnace has a big charging capacity, which helps to greatly enhance the production yield. This boosts the energy efficiency. Based on estimations, the project has brought a saving of 6 million kWh per year of electricity consumption, equivalent to a reduction of 4,800 tons of carbon emission per year. G6 multi-crystalline furnace is equipped with the design of special quartz crucibles and carbon layer, and is also equipped with the automatic silicon leakage detection system. The safety feature greatly reduces the risk of potential accident.



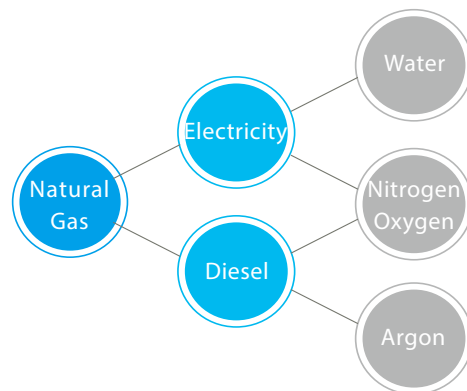
Date	Project Description	Energy Saving	Reduction of Carbon Emission (Tonnes/Year)
2015	Replaced small low-power air compressors with a high-power compressor system in West Campus. The small air compressors had been used for a long period of time which had low efficiency. The Facility Department and manufacturing departments made a decision to replace the old compressors into new high-powered compressors for centralized heat supply to save electricity.	333,000 kWh/year	266
2015	Upgraded multi-crystalline furnace from model G5 to G6 in wafering workshops. G6 multi-crystalline furnace has a big charging capacity, which not only greatly enhances the production yield, but also raises the energy efficiency.	6,000,000 kWh/day	4,800
2014	Reuse of residue heat from refrigerators (chillers) to raise the water temperature for UPW (Ultra-pure Water) plant, leading to a saving of natural gas consumption.	300,000 Nm ³ /year	650
2013	Implementation of free-cooling project for producing of PCW (Process Cooling Water) in Yancheng Trina, to save electricity consumption.	245,000 kWh/year	200
2013	Formation of internal air circulation in module workshop by adjusting HVAC system, allowing warm air (warm zone) in laminating process area flow to sorting / soldering process area (cool zone), leading to a saving of natural gas consumption.	130,000 Nm ³ /year	284
2013	Reuse of cooling water energy from multi-crystalline workshop in West Campus for air-conditioning system of solar cell workshop during winter season, to reduce electricity consumption.	789,000 kWh/year	650
2012	Replacement of centrifuge machine with filter-press in the wastewater sludge dewatering process to save electricity consumption.	562,000 kWh/year	462
2012	Renovation project, running one circulation pump, instead of two, for Silane combustion towers so as to save electricity consumption.	337,000 kWh/year	277
2011	Collection of residual heat from air compressors which are also used as a heat source to raise the water temperature in cleaning process in wafer workshop of Southeast Campus, so as to save natural gas consumption.	343,000 Nm ³ /year	740
2010	Running refrigerators (or chillers), instead of Air-cooled Heat Pumps, in summer season to save electricity consumption in cell workshops of west campus.	1,440,000 kWh/year	1,200
2010	Collection of residual heat from Mono-crystalline furnace cooling water and use it in air-conditioning system in West Campus.	3,100,000 kWh/year	2,590
Total			12,119

Establishment of ISO50001 Energy Management System

In 2014, Trina Solar took a lead in PV industry to kick-off the establishment of the Energy Management System (ISO50001) for improving energy efficiency and reducing energy cost. In August 2015, we were successfully certified with ISO50001 - Energy Management System by China Quality Certification Center (CQC). Trina Solar will continue to promote the operation of Energy Management System to reduce energy consumption and improve energy utilization efficiency based on systemic management measures. Our goal is to save energy with practical actions, and put energy-saving measures and technologies into practice.

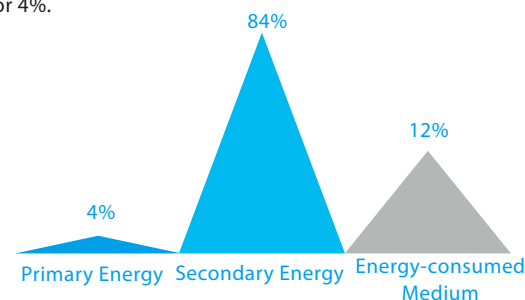
Energy Structure

The primary energy mainly used in our company is natural gas, and secondary energy is electricity and diesel. The energy-consumed medium includes water, nitrogen, oxygen and argon.



Energy Consumption Percentage

The energy we used in our manufacturing process includes the purchased electricity, accounting for 84%, the energy-consumed medium, accounting for 12%, and the natural gas, accounting for 4%.



Remarks: Primary energy is an energy form found in nature that has not been subjected to any conversion or transformation process. Examples include coal, crude oil, natural gas, running rivers, wind, sunlight, and geothermal energy.

Secondary energy resources are energy forms which have been transformed from primary energy sources directly or indirectly in order to meet the special requirements of production and daily living. Examples include petrol, kerosene, diesel, fuel oil, and liquefied petroleum gas (LPG).

Energy-consumed medium are energies consumed in producing materials which are required in the production process. Examples include industrial water, compressed air, oxygen, nitrogen, argon, protective gas, etc.

The primary energy mainly used in our company is natural gas, and the secondary energy includes electricity and diesel. The energy-consumed medium include water, nitrogen, oxygen and argon. We record and analyze the consumption of primary and secondary energy and the consumption of indirect consumed energy medium, and report the standard coal consumption per unit production on a monthly basis, i.e. integrated energy consumption (Ton SCE/MW). We set the objective of a 3% reduction of integrated energy consumption for responsible departments at the beginning of 2015 which we achieved successfully at the end of 2015.

Establishment of Energy Management System



Policies

- Issue Environment, Occupational Health& Safety and Energy Management Policy, and convey it to employees, suppliers, contractors, etc.



Establish Energy Management Targets

- Determine energy standards
- Establish energy performance indicators
- Establish energy management targets for each department



Implementation and Operation

- Identify the energy-saving potential and work out an energy management plan
- Make a checklist of the high-energy motors which the State has issued, an explicit order for elimination, and gradually change them into high efficiency ones.
- Conduct training and raise employees' awareness of energy conservation

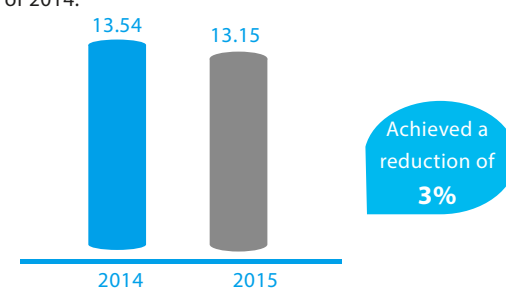


Continuous Improvement

- Track the energy management performance of each department
- Internal auditing
- Management reviews

Integrated Energy Consumption

We report the standard coal equivalent (SCE) consumption per unit production on a monthly basis, i.e. integrated energy consumption (Ton SCE/MW). The company's integrated energy consumption in 2015 achieved a reduction of 3% compared to that of 2014.



Environmental-friendly Product

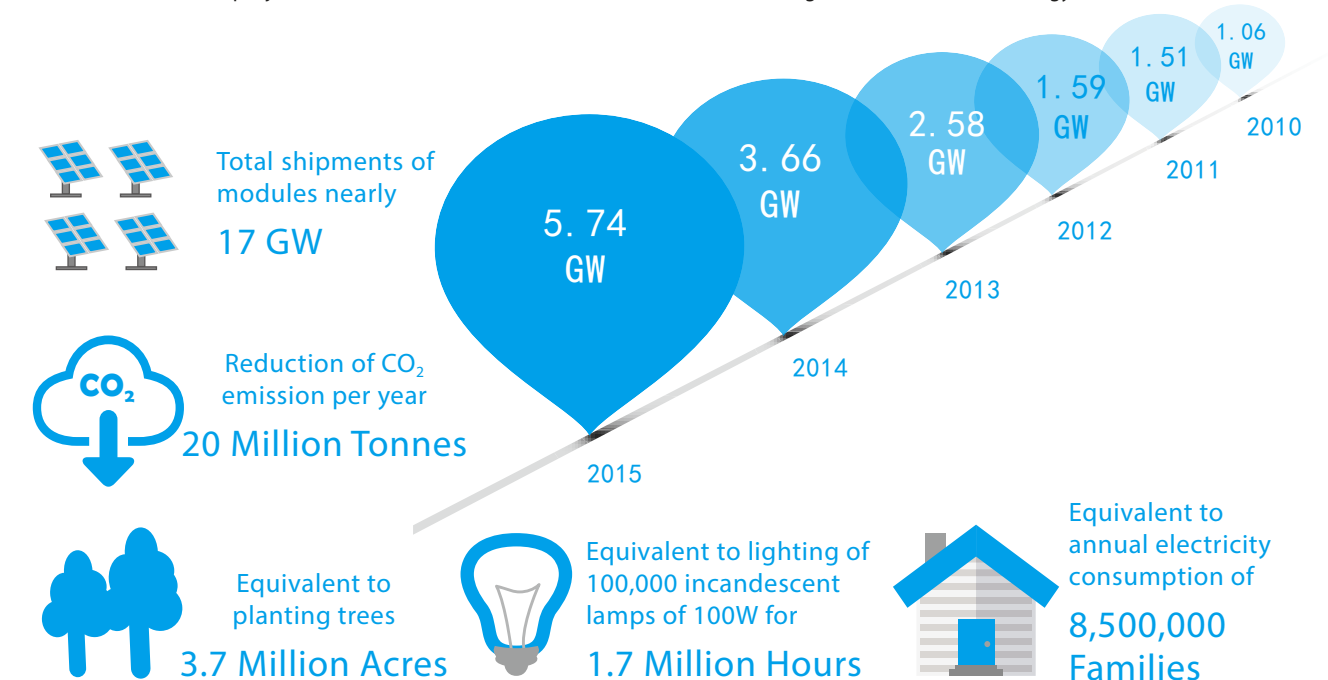
Trina Solar values climate change as an urgent top priority. Compared to conventional coal-fired power generation, solar power generation can greatly decrease carbon emissions and pollution. Our most pressing challenge is to find out how to produce cleaner energy with greater efficiency and lower carbon emissions. We are devoted to exploring and using

Clean Green Energy

In 2015, Trina Solar continued to solidify its leading position in the PV module industry as "The World's Largest PV Module Supplier". We increased our market share from approximately 1% in 2005 to more than 10% in 2015. Trina Solar reached its accumulative module shipments of nearly 17GW by the end of 2015. The module that we shipped in the past 10 years had been installed in various projects worldwide, which could reduce

technologies that can improve product efficiency and reduce carbon emissions, using low-carbon, eco-friendly green energy to facilitate the changes in energy usage patterns, addressing the issues of economic development, environmental protection and energy safety in a systematic manner, and providing cleaner energy to the general public.

approximately 20 million tonnes of carbon emission every year, equivalent to planting about 3.7 million acres of trees. We will continue to contribute to reduce adverse climate change worldwide by innovating and promoting the PV industry. We are dedicated to providing affordable, clean and renewable energy to all people around the globe and achieving our mission of benefitting mankind with solar energy.



Remarks: It is assumed that 1 watt of solar module can generate 1.5 kWh electricity per year.

Trina Solar 27MW Industrial Rooftop DG Project in Suqian, Jiangsu Successfully Connected to Grid



At the end of December 2015, Trina Solar successfully completed and connected three distributed generation ("DG") projects (the "Projects") totaling 27 MW to the grid in Suqian City, Jiangsu Province, China.

Powered by approximately 110,000 Trina Solar "Honey" modules, the Projects are installed on the rooftops of three large manufacturing factories located in the Suqian Economic & Technological Development Zone ("SEDZ"). Wholly owned by Trina Solar, the green electricity that the Projects generate is expected to reach approximately 30 million kWh per year over the next 20 years, and is being supplied to the local grid to energize the SEDZ through power purchase agreements, which, on average, will reduce up to 29,000 tons of carbon dioxide emissions annually.

Trina Solar Partners with Ford, Haier, and Delta Electronics to Launch MyEnergi Lifestyle in China



MyEnergi Lifestyle Program on
2015 Consumer Electronics Show Asia

In May 2015, Trina Solar partnered with Ford, Haier, and Delta Electronics to launch MyEnergi Lifestyle in China. We provide accessible smart energy and sustainable solutions for modern Chinese families through latest photovoltaic power generation system, smart appliance and electric vehicle technologies.

The MyEnergi Lifestyle pilot program will begin with medium-size apartments in Beijing and Shanghai. The MyEnergi Lifestyle collaborators will outfit families with Trina Solar photovoltaic power generation system, Ford fusion energi plug-in hybrid, Delta Electric vehicle charging station and Haier U+ high efficiency smart appliances in order to demonstrate the real world impact of smart energy saving products. Trina Solar supplies energy for Ford electric vehicles and smart appliances by taking advantage of its Honey high-efficiency modules. The program not only reduces carbon dioxide emissions but also generates income for families by selling surplus electricity to state grid. The Honey high-



Trina Solar's Modules Installed on Shanghai Pilot Family Rooftop

efficiency module adopts an antireflective glass coating and advanced cell texturing technology that can capture direct and indirect light easier. The Honey's excellent low light performance enables the modules to generate electricity even on cloudy days, mornings and evenings.

MyEnergi Lifestyle program is designed to address China's energy needs and create green families. It is estimated that the participated families in China can save 61.6% energy expense (electricity reductions of 33.23% and natural gas reductions of 68.65%). For example, the solar power system in Shanghai pilot family installed 23 pieces of 255W solar modules on the rooftop with inclination angles of 30° to due south. It was connected to grid on July 25th, 2015 with an average annual production capacity of 6,589 KWH which can save an electricity cost of RMB 3,591 yuan/year and reduce 6.6 tonnes of carbon emission every year, equivalent to planting about 44 large trees.

Continuously Improve Solar Cell Efficiency

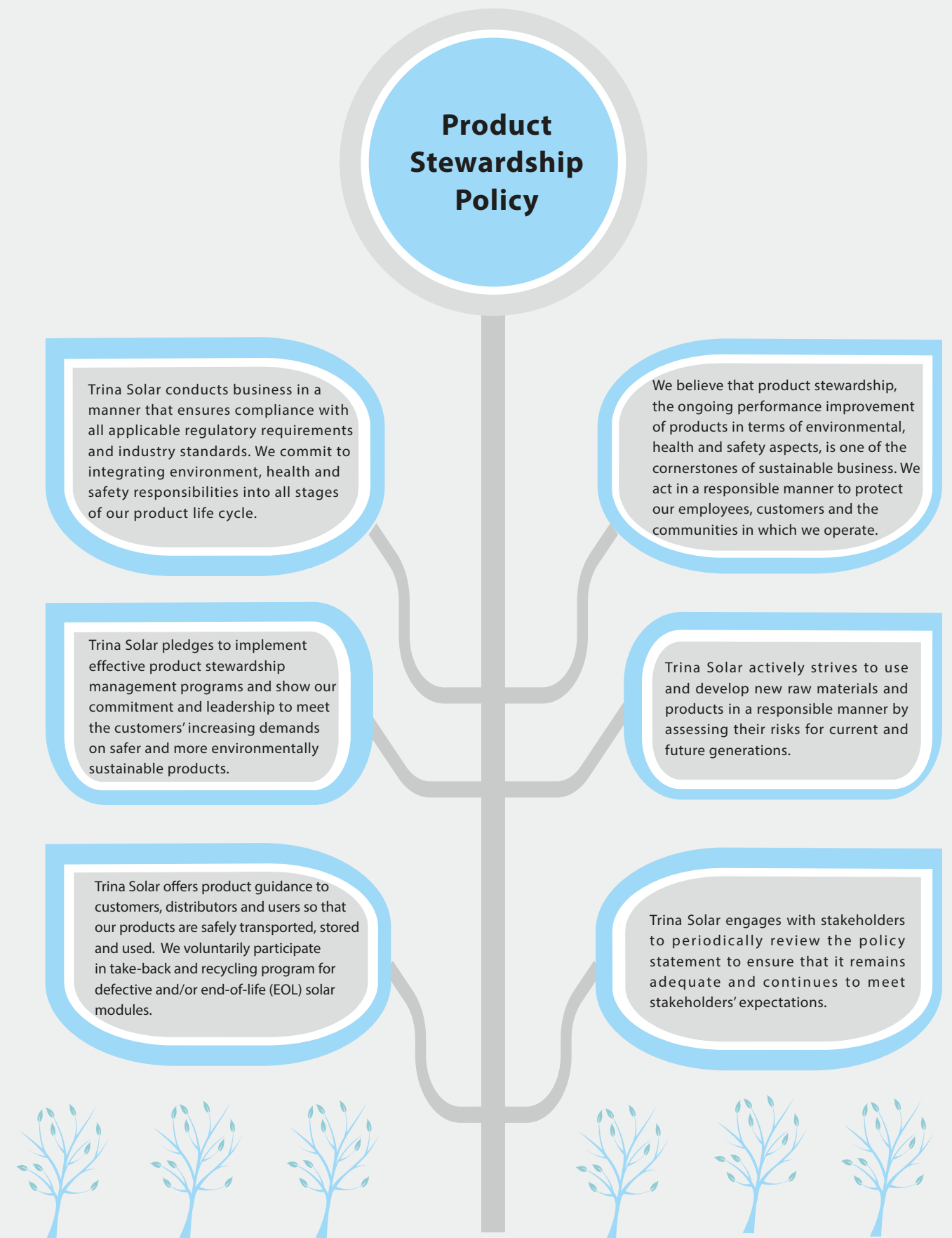
Trina Solar has partnered with many of the world's leading PV research institutes and universities, to advance solar technology and create cutting-edge solutions for our customers. In 2014, Trina Solar State Key Laboratory has consecutively created a world record 7 times for crystalline silicon solar cell conversion efficiency and module output power. In December 2015, the 156 x 156 mm² mono-crystalline cell reached a total-area efficiency of 22.13%, which created a new world record.



"Our aim is to continuously integrate innovative technological developments to improve the efficiency and lower the cost of our PV products. This technology advancement will strengthen our leadership in the PV industry and allow us to continue providing affordable solar power to the world, so as to achieve our mission of Benefiting Mankind with Solar Energy," said Dr. Pierre Verlinden, Vice-President and Chief Scientist of Trina Solar.

Product Stewardship Policy

Trina Solar has established, implemented and maintained its Product Stewardship Policy to ensure its product safety and environmental protection throughout its product life span, including R&D, manufacturing, transportation, use and end-of-life module disposal.



Compliant Disposal of Waste PV Products

As a responsible company, Trina Solar actively undertakes the responsibility to ensure compliant disposal of waste PV products. Trina Solar strictly abides by the e-waste management laws and regulations of the countries in which it operates, and proactively pushes for the recycling and reuse of waste electronic products.

Waste Electrical and Electronic Equipment Directive (WEEE, 2012/19/EU) specifies that manufacturers of electronic and electrical equipment must guarantee that waste products created in any EU member states must be recycled and reused, in order to ensure that electrical and electronic equipment, including PV modules, is properly managed by means of recycling, reusing, reclamation and regeneration. In 2012, for the first time, the directive took PV modules and equipment into account. From February 1st, 2014 onwards, all photovoltaic manufacturers, distributors and installation contractors in Europe must fully abide by EU’s rules on waste management, including providing necessary funds and administration. All PV products must be labeled with the same “wheelie bin” LOGO designed by WEEE.

With a constant focus on extended producer responsibility,

Trina Solar has become a part of the non-profit organization PV CYCLE (European photovoltaic module take-back and recycling organization) founded in 2007. This PV CYCLE covers 27 EU member countries and establishes a network consisting of hundreds of certified recycling points, waste transport firms and dedicated recycling facilities across the Europe. It provides solutions for sustainable PV module take-back and recycling, and uses recycled materials for the making of various new products.

Trina Solar (Japan) Limited joined in the Glass Recycling Committee of Japan (GRCJ) in 2015. The core members of the GRCJ consist of associations and companies who promote the use of waste glass. The GRCJ was established for the promotion of recycling PV modules, especially the recycling of waste glass. The recycling process includes collection, transportation, disassembly, sorting, separation and glass production of waste modules. Glass and cell scraps are mainly separated and collected by smashing and gravity separation. Glass scraps can be used as raw materials for building materials and ceramics. The metal component of cell scraps will be recycled and reused by specialized metal recycling companies.

Focus on Extended Producer Responsibility (EPR) and Promote Recycling of Waste PV Products

The average lifespan of PV modules is about 25 years. The solar modules installed in the 1990s have reached their useful lifespan and will then be scrapped. The compliant disposal of waste PV modules and the recycling of valuable resources of waste modules will be a significant research subject. The investigation of relevant research institution demonstrates that the number of scrapped PV modules will increase tremendously from 2020 and reach 800,000 T/year by 2030.

Many companies have not considered the problem of compliant disposal of scrapped PV modules which end

product life cycle. Trina Solar believes that recycling of waste PV products is of economic value and can promote environmental protection. Not only are the metals of silver and copper of high recovery value, but the junction boxes and aluminum frames can be directly recycled and reused. As a leader in the global PV industry, Trina Solar is dedicated to the research and development of recycling technology of waste PV products. Now, we can successfully separate glass, EVA and cells, and can recycle silver of 99.9% purity from the cells in our experiment. We will make continuous efforts and make PV products clean and green in full life cycle.



Environment-friendly Operation

We believe that the most precious resource is the natural environment where human beings live. Trina Solar will spare no efforts to fulfill our commitment to all stakeholders, and will always have concern for the sustainable development of humans and mother earth. As an advocate and practitioner of environmental protection, Trina Solar has always been committed to sustainable development within the product life cycle, from product development, raw material procurement

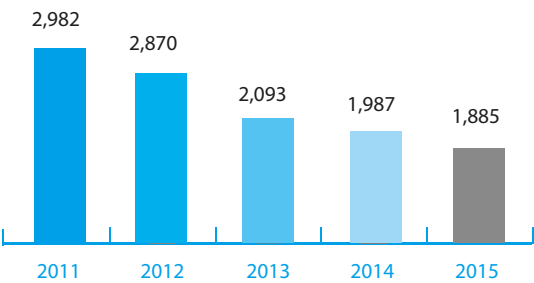
and manufacturing, to resource & energy utilization and waste management.

Green manufacturing and environmental protection has always been the lifeline of our company. We implement green operations through rational use of natural resources, adequate treatment of wastewater and air emissions, waste recycling, and other environmental promotion activities.

Sustainable Use of Water Resource

Water, as the source of life, the blood of industry and the necessary resource for maintaining human development, is the foundation for human survival. In 2015, we implemented various effective water-saving projects, and strived to reduce water consumption per MW module production through sustainable use of water resource. Despite the general trend of increasing water consumption within growing businesses, our utilization rate of water resources is continuously improving, for our development and implementation of water-saving projects. In 2015, water consumption per MW module decreased by 36.8% compared to that of 2011, while the volume of wastewater discharge reduced 52.1% compared to that of 2011. The motivating result is incomparable from our sustainable use of water resource.

Water Consumption per MW Module Production (T/MW)



Reuse and Recycle of Water

We have always been committed to water reuse and recyclable programs. We successfully implemented the projects for collection and reuse of RO (reverse osmosis) rejected water, HVAC condensate water, and even preliminarily-treated wastewater. The water is used for washing, heating, cooling, cleaning and gardening, aiming to decrease waste discharge and reduce fresh water consumption, and achieving the win-win objective of economic development and environmental protection.

AHU Water Recycling Project in Yancheng Trina

The module workshops in Yancheng Trina require the humidity of testing rooms at 30%-70% in order to guarantee the quality of products. Air-conditioners, with wet films internally, are supplied with running water, which will be directly discharged after use. In December 2015, the facility department used a water tank with auto-control system to collect the used water, so that the water could be recycled and reused. After the implementation of the project, about 30 tonnes of water have been saved per day, and 10,000 tonnes are saved each year.

Wastewater 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 (ultrafiltration and reverse osmosis) technology to treat industrial wastewater generated during the manufacturing process. The treated water was directed back to Trina Solar as supplementary raw water supply. Presently, about 10,000 m³/day wastewater was sent to Wuxi Depple. Approximately 6,500 m³/day treated effluent water gets recycled.

This project not only helps to reduce water consumption, but also helps to explore a new way for sustainability and environmental protection.

Wastewater Discharge

The wastewater from the manufacturing process which can't be reused or recycled will be adequately treated by de-fluorination and neutralization process prior to being discharged into the municipal sewer, which has no negative impact on surrounding water bodies. Local environmental authorities monitor the

water quality of the treated effluent, which shows that the water quality meets the national limits. There was no occurrence of chemical leakage or waste water discharge exceeding regulated limits in 2015.

Trina Solar Wastewater Biochemical De-Nitrification Treatment



The manufacturing base of Trina Solar is located in Changzhou, Jiangsu province, within the reaches of Lake Taihu – one of the most developed areas in China. With the overall development of the social economy of the Lake Taihu area, there is an increasing demand for water resources and a higher standard for water quality, but the aquatic environment in Lake Taihu has become a serious concern. The 2007 blue algae outburst in Lake Taihu caused pollution to drinking water in some of the Lake Taihu area, affecting the normal life of neighboring residents. In order to strengthen the prevention and treatment of water pollution in the Lake Taihu area and to protect water quality of Lake Taihu, Jiangsu provincial people's congress amended and approved strict water pollution prevention and treatment ordinance: the Jiangsu Provincial Ordinance of Lake Taihu Water Pollution Prevention and Treatment (hereafter referred to as "Taihu Ordinance"), which took effect on June 5th, 2008. Taihu Ordinance prohibits the construction of new, modified or expanded projects containing phosphorus or nitrogen within the Lake Taihu reserve. In other words, companies that wish to carry out projects within the protected area must ensure zero emissions of phosphorus and nitrogen.

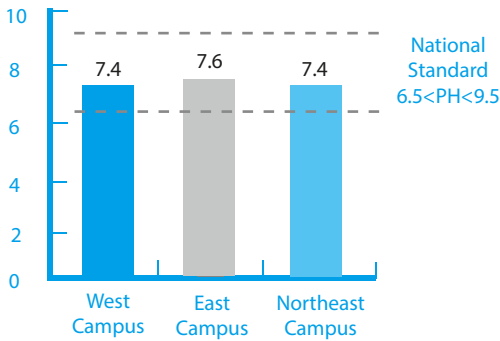
However, inorganic acids like nitric acid (HNO₃) and hydrofluoric acid (HF) must be used for solar cell texturing, so as to form a bumpy texture on the surface of the silicon chips and thus increase their absorption of sunlight. In the process of diffusion, phosphorus oxychloride (POCl₃) will be used to generate phosphate deposition on the base of P type silicon chip, thereby forming PN nodes. In the manufacturing process, these nitrogen and phosphorus-containing chemicals will eventually be discharged in the form of nitrogen-containing wastewater and a small amount of phosphorus-containing waste liquid. In order to meet Taihu Ordinance rules and to promote the sound development of renewable clean solar energy, solar energy firms have invested many resources in proactively exploring wastewater de-nitrification and de-phosphorization technologies over the years, such as nitrogen/phosphorus triple-effect evaporation and entrusting treatment to capable institutions. As a company with a strong orientation towards



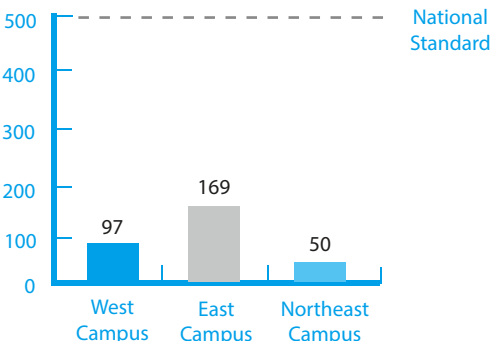
social responsibility, Trina Solar has been striving to lead the solar energy sector in proactively discovering wastewater de-nitrification and de-phosphorization technologies. After a few years of experimental exploration, Trina Solar has finally decided upon using the conventional wastewater biochemical treatment – biochemical nitrification and de-nitrification techniques to remove nitrogen and phosphorus from waste water. Trina Solar started to implement the wastewater biochemical de-nitrification modification project in 2014. The East and West Campus completed the modification and commissioning of the wastewater treatment process respectively in 2014 and 2015. In 2015, Trina Solar invested RMB 20 million to build wastewater treatment facility with capacity of 4,000 T/day. The monitored results of the water quality at inlet/outlet of wastewater biochemical de-nitrification unit showed that the wastewater modification project can remove over 85% of the total nitrogen/ammonium.

In addition, in the process of wastewater de-nitrification, we have successfully used the organic matter from wastewater generated in the wafer workshop as the necessary carbon source, and the small portion of phosphoric acid generated in the diffusion process, as the phosphate source for biochemical nitrification, thereby realizing the goal of "treating waste with waste", and lowering our impact on the environment. Trina Solar Wastewater Biochemical De-Nitrification Modification Project cost a total of RMB 2.7 million. The cost for internal treatment of waste acids is approximately RMB 450 per ton. Compared with the cost of the outsourced treatment of waste acids (RMB 2,200 per ton), we have accumulatively saved a cost of roughly RMB 7.6 million during the four months of waste acid treatment from September to December. The success of the modification project proves that solar energy firms can convert the nitrate in wastewater into nitrogen gas using the biochemical denitrification technique – an effective, workable, eco-friendly, economical and sustainable method for controlling nitrogen/phosphate discharge in the Lake Taihu area.

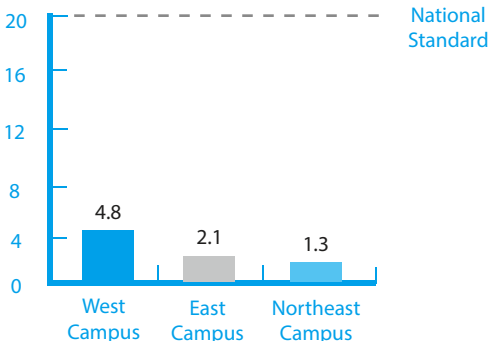
PH Value of Effluent in 2015



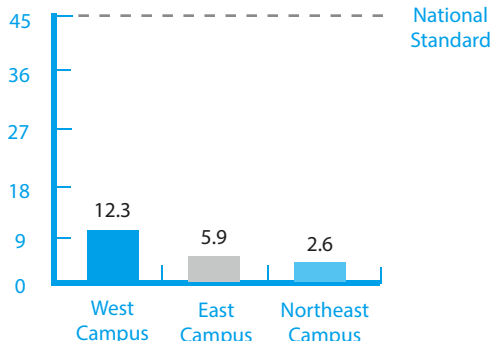
COD Concentration of Effluent in 2015 (mg/L)



Fluoride Concentration of Effluent in 2015 (mg/L)



Total Nitrogen Concentration of Effluent in 2015



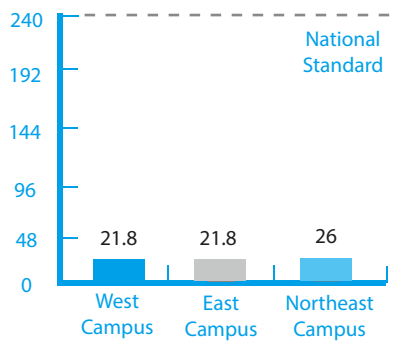


Waste Gas Emission

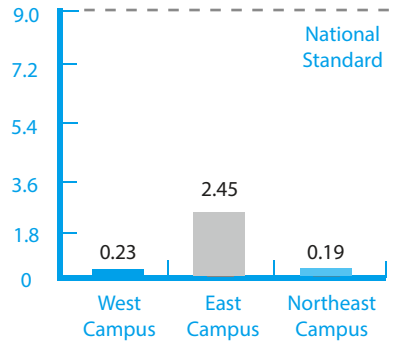
Trina Solar has also built a range of scrubbers, such as acidic/caustic scrubbers and organic scrubbers to remove pollutants from air emissions according to relevant laws and regulations, to lower the concentration of emissions and to avoid or lessen the hazards that arise from air pollution.

Trina Solar engaged an accredited third party to carry out annual monitoring of air emissions from our exhausts and scrubbers. Results show that air emissions from exhaust and scrubbers are well below requirement of the Integrated Emission Standard of Air Pollutants GB 16297 - 1996.

NO_x Concentration in 2015 (mg/m³)



HF Concentration in 2015 (mg/m³)



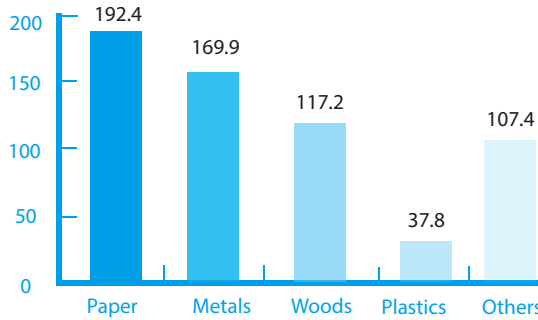
Waste Management

The wastes from Trina Solar's manufacturing processes mainly consist of wooden pallets, plastic foam, paper waste, and used oil and sludge from wastewater treatment. Trina Solar treats waste as a resource. We segregate different wastes, and manage them based on the principle of "3Rs" - Reduce, Reuse and Recycle. We adopt the following measures to reduce the amount of waste from manufacturing processes:

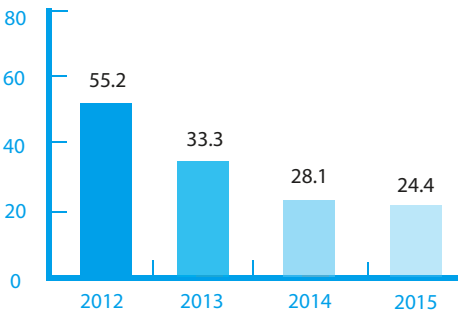
- To consider the ways of reducing waste generation during the product design phase.

- To maximize the use of recyclable materials for packaging, reduce the landfill disposal and increase the recycling rate of wastes.
- To establish a waste management procedure, to engage local accredited industrial waste collector to dispose of the industrial wastes and to strictly follow the national requirements.
- To raise the employees' awareness of waste segregation and minimization through training.

Wastes Recycled per MW Module Production in 2015 (KG/MW)



Hazardous Wastes Disposed per MW Module Production (KG/MW)



Replace Oil Pumps with Dry Vacuum Ones to Reduce Discharge of Waste Oil



Trina Solar's module workshops used to use oil pumps which generated waste oil of 150L/month. The oil pumps had poor sealing performance and oil leakage often occurred, which caused environmental risks and large amounts of waste.

In 2015, west campus and southeast campus of Trina Solar and Yancheng Trina replaced 100 oil pumps with dry vacuum ones, and another 30 oil pumps will be replaced in 2016. It not only reduces hazardous wastes but also minimizes fire risks.

Green Office

A quarter of our time each week is spent in the office. We believe that green office not only means minimizing the environmental impact of office activities, but also means creating an environment beneficial to the physical and mental health of employees so that they feel physically comfortable and has spiritual pleasure.

We work to gradually incorporate the "green office" theme into every detail of our work, to greatly reduce the effects of office activities on the environment.

- We are gradually reducing the use of hard copies of documents, and promoting the use of electronic documents.
- We established a video conference system to reduce our average annual mileage by 15,000 km, thereby reducing the carbon emissions generated during travels.
- We provide a switch to each office worker, in order to remind them to turn off desk lamps when they leave the office.

Biological Diversity Management

How to balance the development between enterprise and ecology has been a serious issue of many enterprises. Trina Solar always considers the influence on ecology and biodiversity and conducts a biodiversity evaluation when developing a new project or expanding the current project. For example, in order to protect the evolution of local biodiversity, Trina Solar plants many types of wild flowers in project locations; if the project location is pasture, we place solar panel installations at a sufficient height

so that grazing can continue while our photovoltaic system is in operation.

We keep part of the land so it can be a home for native plants and animals. Moreover, we always try to improve their living environment, and promote the evolution of biodiversity at the project location by conducting awareness-raising activities to improve environmental protection awareness.





Focus on Supply Chain

Mutual respect and win-win cooperations are the basic principles that Trina Solar maintains through all its relationships. As an industry leader responding to challenges with initiative changes, Trina Solar has been continually providing society with green, clean solar PV products by innovative technologies for the past 17 years. It should, however, be noted that every step of progress

depends on the cooperation with, and support of, the entire supply chain. While proactively performing our social responsibilities, we pay constant attention to the social responsibilities of global suppliers and their partners, shoulder social responsibilities, and jointly promote the sustainable development of the photovoltaic industry chain.



Grading of Suppliers

- Grade A: Excellent Suppliers
- Grade B: Qualified Suppliers
- Grade C: Conditionally Accepted Suppliers
- Grade D: Disqualified Suppliers



Supplier Meeting

More than 100 suppliers and 350 representatives attended



Won 2015 FIA Alternative Energies Cup Solar Car Race

Supplier Development

Trina Solar strives to integrate corporate responsibility factors into our supply chain management system. We share our expectations, our findings and best practices across the industry. We continuously improve the competitiveness of our entire supply chain through a comprehensive supplier review and communication with our suppliers to create a mutually beneficial supply chain system.

We divide suppliers into three types: potential, potentially eligible and eligible. For potential suppliers, we choose assessment ways according to the risk level of materials provided by the suppliers. We establish detailed assessment guidelines to evaluate suppliers. For those suppliers that need on-site assessment, our procurement department will work together with relevant departments to review and assess their integrated

abilities in many aspects, such as quality management systems, supply assurance abilities, product performance and reliabilities, corporate social responsibilities and business ethics, EHS management, new product development, costs, and technical support and sales service. Based on the assessment results, we categorize the suppliers into four groups of grades: Grade A (excellent suppliers), Grade B (qualified suppliers), Grade C (conditionally accepted suppliers) and Grade D (disqualified suppliers). Among them, suppliers of Grade C or higher may become our potential eligible suppliers. Only after sample assessments, examination of product quality and reliability, a batch test, a document review and EHS and social performance indicators can these potential eligible suppliers become eligible ones.

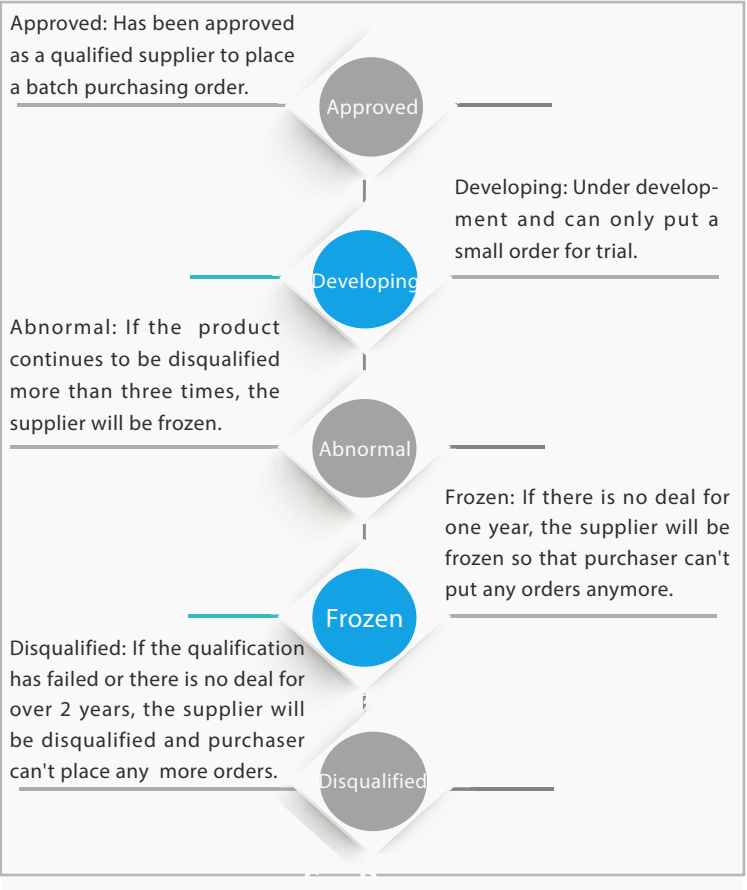
- 1
- Potential Supplier: A supplier who is able to produce or deliver materials for Trina Solar but hasn't obtained Trina Solar's recognition for its qualification and ability. We have established a potential supplier database. If there is any request for supplier development, Trina Solar will choose suppliers from our database and evaluate through a questionnaire and a factory visit.
- 2
- Potential Eligible Supplier: A supplier who has obtained Trina Solar's recognition for its qualification and ability and is added to Trina Solar's purchasing system.
- 3
- Eligible Supplier: When the material provided by potential eligible suppliers passes the new material evaluation procedure, the potential eligible supplier will be upgraded to our eligible supplier.

Supplier Management

Trina Solar focuses on the sustainability of suppliers. We are constantly improving the overall competitiveness of our supply chain through systematic supplier evaluation and interactive communication to build a win-win situation for both Trina and our suppliers.

We divide our suppliers into five categories: approved suppliers, developing suppliers, abnormal suppliers, frozen suppliers, and disqualified suppliers. We can only place a batch purchasing order to an approved supplier and a small order to a developing supplier. For the abnormal, frozen and disqualified ones, we don't place orders anymore.

We have established the Suppliers Management Committee with representatives from each department to decide the business from selection, evaluation, checking and disqualification through regular meetings. The Committee will decide the ratio of suppliers through supplier performance evaluations. Only these suppliers whose results of the previous 3 months that are over 70 marks will have the qualification of participating in Trina's



Suppliers Performance Evaluation

Based on their performance indicators, including quality, price, on-time delivery, services, innovation, risk levels of materials/substances, EHS and social performance etc., we will conduct an assessment to suppliers at different frequencies, such as monthly, quarterly or randomly when necessary. We divide our suppliers into different levels, a five-star, four-star, three-star, two-star and one-star level based on the evaluation result, and

select Annual Excellent Supplier, Excellent Quality Supplier and Technology Innovation Supplier, aiming to improve suppliers' performances with bilateral cooperation. For the suppliers at low levels, we will urge them to improve performance through communication and guidance. If suppliers fail to improve as required, we will restrict purchase volume, stop purchasing or even disqualify the supplier permanently.

High Standards of Business Ethics

Trina Solar considers business ethics as a key criterion for the selection of suppliers. We request current suppliers to sign an Integrity Commitment letter gradually. During development of new suppliers, Trina Solar will pay great attention to the following three aspects: 1) Whether the supplier has a record behavior of dishonesty; 2) Whether the supplier has set up a

system to ensure their practices being compliant with applicable laws and regulations; 3) Whether the supplier has established relevant mechanisms to ensure that a high standard of business ethics is established, practiced and maintained. Our aim is to promote and maintain a high standard of business ethics while developing and working with our suppliers.

Management of Key Suppliers

Exerting an influence on highly risky suppliers is an effective approach to promote better social responsibility of suppliers. Trina Solar assesses suppliers' risks and identifies their risk grade every year. Suppliers whose products and services are related to our goal of sustainable development are key ones that influence should be exerted on. Trina Solar has formulated a supplier CSR management procedure. We carry out CSR investigations and on-site audit of newly introduced key suppliers, and request new suppliers to sign on a CSR commitment to strengthen communication and cooperation. We are devoted to building a stable, economical and reliable supply chain.

Key Suppliers' CSR Commitment

We expect our suppliers to incorporate labor standards, environmental protection, occupational health and safety, business ethics and other aspects into their management systems. In order to ensure that our suppliers adhere to principles and values of Trina Solar, we request each of the newly introduced key suppliers to sign a supplier CSR commitment, which specifies that suppliers must pursue integrity management, create safe and healthy working conditions for workers, use fair methods of employment and give due dignity and respect to workers.



Key Supplier CSR Investigation

A good social responsibility is a key criterion for the selection of suppliers. Trina Solar carries out a comprehensive CSR investigation of newly introduced key suppliers. We investigate their overall performance in guaranteeing safety, health and welfare of workers, honest operation, compliance with laws and regulations and other aspects. In case of failure to meet our criteria, the suppliers cannot become our eligible suppliers.

CSR Audit for Key Suppliers

We believe periodic audit is an effective approach to promote suppliers' self-management. We carry out periodic on-site audit of our key suppliers via document review, site inspection and employee interviews. In case of any problems found, we will request the supplier to rectify within a reasonable time frame. In case of a major non-conformity found during audit, Trina Solar will request the supplier to take correct actions to rectify the

major non-conformity within a time frame. The supplier is also required to establish its management system and procedure to prevent the similar non-conformity from happening again. In case that the supplier don't fulfill our requirements, we may reduce the purchasing ratio gradually from the supplier or up to stop cooperation with him.



Conflict-free Minerals

"Conflict minerals" refer to metallic minerals, such as tin, tantalum, tungsten, gold and cobalt exploited from Democratic Republic of Congo and surrounding nations, which may produce serious problems regarding human rights and environment during exploit and sales.

Trina Solar has put its policy, systems and processes in place that will enable to declare that its supply chains are conflict-free. We are committed to sourcing only materials from environmentally and socially responsible suppliers. We highly focus on conflict minerals and work diligently to promote sustainable development by way of ethical sourcing.

In 2015, we take active actions to cooperate with our business partners, government and non-governmental organizations, seeking sustainable solutions through business cooperation for conflict mineral problem and develop global cooperation in "conflict-free minerals".



Strategic Partners

Trina Solar not only pays attention to its own green development, but also takes initiative to convey its vision and goal of sustainable development to its global partners. Together with our global partners, we are committed to contributing

Annual Supplier Meeting

Trina Solar's 2015 Annual Supplier Meeting was held in Changzhou, where nearly 350 supplier representatives from 100 companies worldwide were invited. With the theme of "responsibility, cooperation, innovation, excellence", the meeting featured joint discussion on how to further promote sustainable development of global solar energy industry through cooperation, and how to work together to use solar energy for the good of mankind. Trina Solar gave high commends to ten excellent suppliers. Mr. Dave Du, Senior Director of the Global Supply Chain & Procurement Department, delivered speeches at the meeting, in hopes of forming a strategic partnership with suppliers. With an attitude of open cooperation, Trina Solar will work with suppliers to respond to various market impacts and effects together, to proactively seek space and possibilities to lower costs, and to solve problems through mutual negotiation, so as to achieve a landscape of win-win situation.



inspiration and innovative solutions to the sustainable development of photovoltaic industry based on the actual situation.

Running Together with Trina Solar

Trina Solar always keeps close cooperation with suppliers on performing social responsibility. We start a benefit activity named "Running Together with Trina Solar" to arise attention for autistic children. All the employees from Procurement Dept. and more than 120 supplier representatives joined the 5km running around PV park and donated for autistic children, hoping to help them to step out of their world.

Love Initiative
--Care for autistic children

They have bright eyes, but don't make eye contact with others; they have normal hearing, but they turn a deaf ear to those around them; they can speak without impediment, but they do not communicate with others; they may be thought to have learning difficulties, but they often show enhanced abilities in certain aspects...they are a group of special children—autistic children. Some people call them "star children"—they shine alone, as if in their own world, but still bring light to those around them.

We hope that all of our colleagues and business partners can show your love and care for these children.



Establish Strategic Cooperation with Tongwei



Trina Solar continuously expands the cooperation with excellent enterprises in PV industry. On November 18th, 2015, Trina Solar signed a long term cooperation agreement, establishing complementary and shared strategic cooperation with Tongwei Group to create more business values and economic values.

Trina Solar Signed RMB 10 Billion in Strategic Cooperative Financing Agreements with CITIC



In October 2015, Trina Solar signed a 5-year strategic cooperation agreement with CITIC Financial Leasing Co., Ltd ("CITIC Financial Leasing") and a separate 3-year strategic cooperation agreement with CITIC Bank Corporation Limited Changzhou Branch ("CITIC Changzhou") (together "CITIC").

Under the terms of the agreements, as a preferred strategic partner of CITIC, Trina Solar will receive comprehensive, one-stop customized financial products and services including credit facilities of RMB 5 billion from CITIC Financial Leasing to support equipment upgrade, downstream projects, as well as an additional credit line of RMB 5 billion from CITIC Changzhou for trade financing including short-, medium- and long-term loans. Access to foreign currency loans will also be available.

Mr. Jifan Gao, Chairman and CEO of Trina Solar, said "The RMB 10 billion strategic cooperative financing agreement promotes Trina's development and provides a broader platform for cooperation between bank and enterprise. Trina Solar will continue to secure necessary funding to ensure adequate financial resources to support execution of our growth strategy and enhance our leading position in the solar industry."

The Solar Car "OSU-Model-S" Developed by Trina Solar and Osaka Sangyo University Won 2015 FIA Alternative Energies Cup Solar Car Race

On August 1st, 2015, Osaka Sangyo University Solar Car Team, equipped with Trina Solar's newly developed Interdigitated Back Contact (IBC) cells and modules for OSU's Solar Car, the "OSU-Model-S", has won the "2015 FIA Alternative Energies Cup Solar Car Race". The "OSU-Model-S" developed by OSU's Solar Car Team was 100% powered by solar cells developed by the State Key Laboratory of PV Science and Technology of Trina Solar.

The IFA Suzuka Solar Race is the largest international solar car race taking place in Japan. First held in 1992, this year's competition marked its 24th year. Fueled solely by 565 of Trina Solar's IBC cells and modules, the OSU-Model-S was classified into "Dream Class", the top ranked category of the five-hour race. The OSU-Model-S won its category by 66 laps, taking a clear victory in the race, three laps, about 18KM ahead of the following car.

"Trina Solar has been a tremendous partner and the high efficiency of Trina Solar's cells was the key to our victory," said Mr. Masayuki Murakami, project leader of the OSU Solar Car Project. "Through utilizing Trina's IBC Cells, our solar car was highly efficient. Thanks to an extremely light weight design, efficient power electronics

and Trina's solar cells, our solar car was able to maintain an average speed of 78.5km throughout the 5-hour race. I am very thankful to the team led by Dr. Pierre Verlinden, Chief Scientist of Trina Solar. With the team's world-class technology and superior knowledge of solar power applications, we were able to demonstrate how effective solar powered transportation can be. We look forward to collaborating with Trina Solar in the future in more advanced renewable solar projects given our shared vision of building a greener and brighter world."

Mr. Zhiguo Zhu, COO of Trina Solar and President of Module Business Unit, commented, "Congratulations to the OSU team on winning the four championships. We are thrilled to have been able to contribute to the OSU team's success, and we are delighted in the high level of performance that our IBC cells and modules displayed during the race. I believe this successful cooperation not only further solidified our position as a technology leader in the solar sector, but also demonstrated our ability to continuously pursue excellence. As we continue to broaden our outreach from solar power generation to technology and research applications, I believe this cooperation with the OSU team will pave the way for future successes."



Zhiguo Zhu, COO of Trina Solar Limited and President of Trina Solar Module Business Unit (Left 1)
Dr. Pierre Verlinden, Chief Scientist of Trina Solar (Left 2)
Xueling Zhang, Manager of Cell Research and Development Dept. of Trina Solar (Left 3)





Care for Employees

Employees are essential for the success of Trina Solar. Our values are based on each employee's potential. Achieving our mission and vision depends on each employee's contributions and achievements. Therefore, we are committed to providing our employees with a safe and

healthy workplace, a competitive salary and benefit package, highly professional training and development opportunities, so that Trina Solar becomes a work stage which is excellent, worthy to work for, and allows each employee to display their skills.



264 employees were honored with long service award



2015 Total Recordable Rate (TRR) of 0.72, reduced by 11% compared to 2014



OH&S investment of US\$ 4.635 million

Employees' Rights

We believe that talent is one of the most important factors of sustainable business. In order to meet the increasing demand for talent, we recruit through Internet and campuses, cooperate with colleges, establish training classes, provide Trina Solar job fairs and many other channels. We evaluate all departments quarterly for their talent demands, carry out the talent reserve plan accordingly, and eventually establish talent teams. By the end of 2015, Trina Solar had a total of 13,556 staff, with 4,646

female employees occupying 34.3% of the total amount. There are 2,567 managerial employees including 22 with doctoral degrees, 357 with master's degrees, 1,424 with bachelor's degrees, and 760 with lower educational degrees.

Trina Solar strictly adheres to international conventions on human rights and labor standards, as well as local labor laws and regulations, and is determined to protect each employee's legal rights according to such laws.



Employees' Contribution

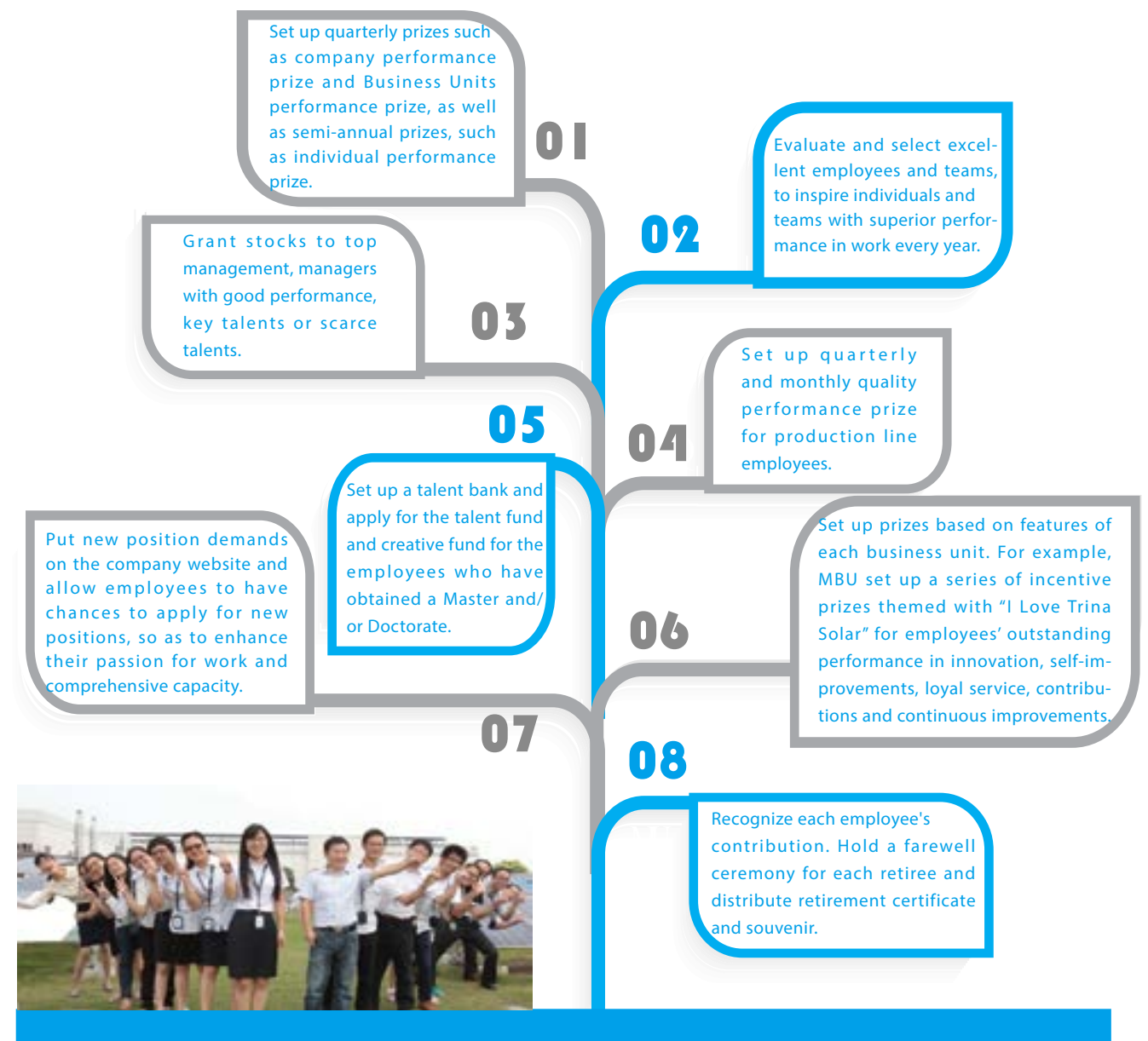
We treasure every contribution made by our employees. We also focus on attracting and retaining outstanding talent through performance management, training, competitive salaries and efficient incentive mechanisms. Trina Solar

will make the best use of the talents by all means. In 2015, 57 employees were honored with Outstanding Trina Core Awards, 60 employees with Outstanding Contribution Awards, and 14 new employees with Outstanding New Employee Awards.

Long Service Award



Employees' passion and contribution is an inexhaustible motive source for our success. In order to appreciate employees who worked hard for a long term at Trina Solar, we launched the "Long Service Award" in 2015, and awarded 264 employees who have worked at Trina Solar for 5 years, 10 years or 15 years. We encourage our employees to develop and grow up together with Trina Solar to create a bright future.



Employee Performance Management System

Trina Solar establishes employees' Performance Management System to attract, retain and inspire all the employees. Employees are required to formulate a semiannual Personal Development Plan (PDP) and evaluate the completion of PDP at the end of each half year, while salesman are required to formulate quarterly KPI. The PDP consists of business targets, key targets, employees management target and personal development target, aiming to realize the balance of personal development, group development and organization development.

Group leader will formulate a key work planning diagram of each department, and then decomposed key business targets and key tasks level by level, which connects each employee to the annual key targets of Trina Solar.

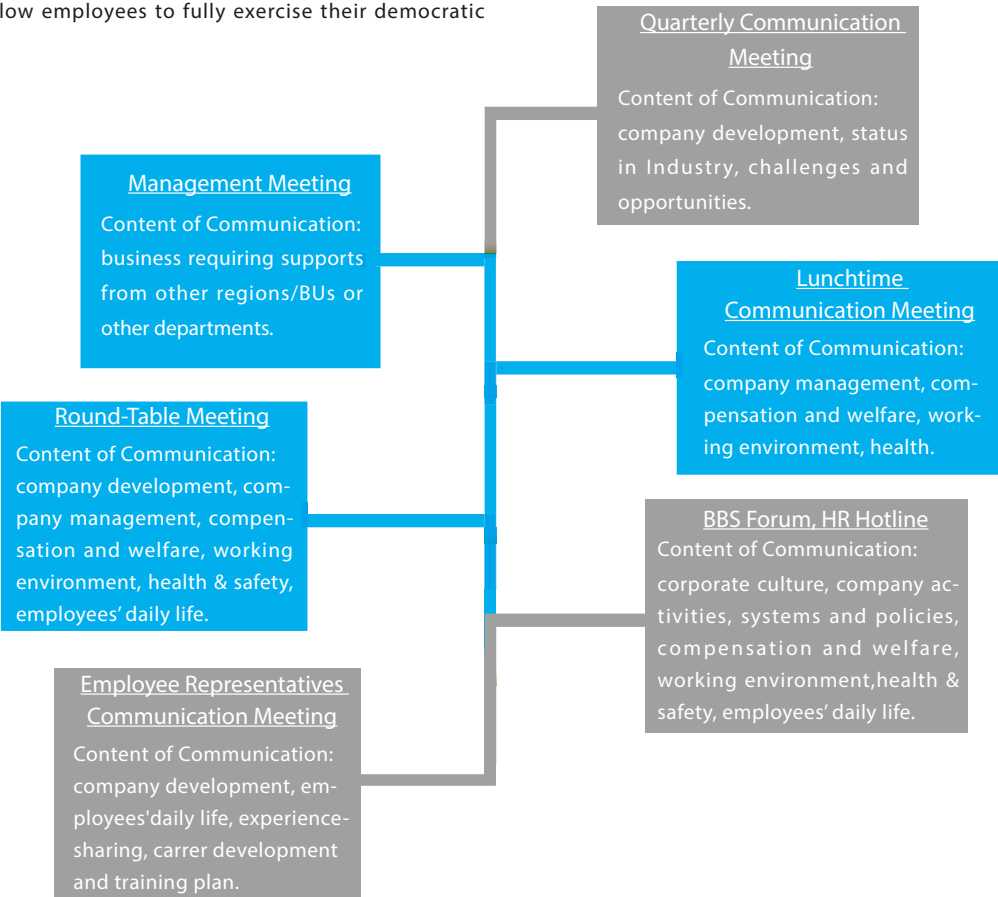
The PDP evaluation will be related to performance bonus, salary adjustment, promotion, stock grant, excellent employee election, trainings, key talent management and succession plan etc.



Listen to Employees

Trina Solar attaches importance to employees' communication and involvement, and encourage them to join the Labor Union. We have created a variety of communication channels such as internal communication meetings, a Bulletin Board System (BBS) Forum, HR hotlines, and a reasonable suggestion box in the company. The purpose of these channels are to promote culture construction via multi-channel and multi-level communication ways and allow employees to fully exercise their democratic

right and participate in the company management. We reply to all employees' questions and provide solutions to fix any problem that has arisen. For problems that cannot be solved, in order to obtain their recognition we will acknowledge the problems and make our employees aware of them. We have also created a Wechat public account to send news, technology trends and activities to all followers.



Lunchtime Communication Meeting



The lunchtime communication meeting is organized to promote communication between the senior management and employees. Employees can attend the meeting to talk about their concerns, including but not limited to work, daily life, and family etc.

In 2015, Trina Solar's HR Department organized 7 lunchtime communication meetings, and more than 60 front-line staff attended. The employees' main concerns included canteen, service awards, salary, shuttle bus, and promotion, etc. HR Department will track and solve the problems one by one according to their priority to make improvements.

Cultural Environment

Since employees are the greatest assets and cornerstones of an enterprise, Trina Solar continuously increases investment in training, education and culture construction to provide a strong training support system for all employees. We hope that employees can gain knowledge and continue to grow in training and in their daily work, thus improving the overall quality of the company's workforce, and adding impetus for the sustainable development of the company.

We have established mature and complete training system, including an institutional system, a course system, a lecturer system, and a resource system, etc. Employees who are competent for their work can make their choices to take a technical or a managerial

position by the advantage of the training system. And we will provide corresponding training classes for employees at different positions to improve their development.

In 2015, we established the Leadership Academy alongside providing inner and outside trainings scheduled on our training plan. The academy will develop and conduct training classes for medium and senior management. In 2015, the average training time is 14 hours per person. The whole training system covers skills, technologies, corporate culture, environmental protection, occupational health and safety, commercial ethics, and mental health.

E-learning System

As a supplementary training tool, online learning systems (E-learning) successfully resolve the problems of cost, time conflicts and site constraints. We developed our own E-learning system to provide an online interactive training platform for employees. Based on the principles of adult learning, the duration for each course is set to about 30 minutes, so that the employees can learn a useful course within a short time. This provides more convenient learning and personal development resources for employees worldwide, helping them expand their knowledge and abilities.

Currently, there are about 80 courses available on our E-learning platform, covering courses on company's rules and regulations, introduction of system operation flow, time management, thinking structure and team management. We have also laid down an incentive policy for development and preparation of electronic courses, in order to encourage employees to convert their expertise into courseware and micro-courses. This not only reduces our courseware development cost, but also effectively accumulates the company's unique and precious knowledge.

Library

To build a better learning platform to support employees' development, Trina Solar set up ten well-equipped proprietary training rooms. In addition, we have also cooperated with Changzhou Library to jointly open a library with a collection of over 20,000 books. This library uses the same management

Trina Solar Leadership Academy



Trina Solar Leadership Academy was officially established on April 10th, 2015. The academy was set up to form an all-directional, multi-layered training system, and to develop and conduct learning programs for middle and senior management. It aims to create an international management team to lay a solid foundation for corporate development. In 2015, the academy organized a series of activities and lessons, including Learning Huawei Culture, Situational Leadership, and the Seven Habits of Highly Effective People, etc.

system as the one used in Changzhou Library, and readers can borrow books, and return them to either of the two libraries, as they are linked with each other. There is also a dedicated electronic reading area for employees to read electronic journals and e-books, which greatly enriches their spiritual life.

Training System



Employees' Health

Employees' physical and mental health is an important guarantee to increase productivity. To the end, we are continuously concerned about employees' health, including their occupational health as well as their (including retirees') personal and mental health. Employees with high efficiency and great passion will bring significant value to the enterprise and vice versa, employees in sub-health state have low efficiency and create less value, which causes loss of the enterprise and

society. We provide health examinations for management staff above director level and employees of over 40 who have worked at Trina Solar for at least one year. We organize all the employees to have health examinations every two years. Not only this but we also provide occupational health and women's health examinations every year for all employees. In brief, we spare no efforts to create a healthy, safe and comfortable workplace for our employees to make their life more enjoyable.



Flexible Benefits Program



In May 2015, we integrated employer's liability insurance, accidental injury insurance, and supplementary commercial medical insurance, and launched the flexible benefit program to provide physical health insurance choices for management staff and their families. The flexible benefit program includes two types of insurances, i.e. paid by the company and paid by the employee. Employees can choose benefits items for themselves and their families according to their own demands. Besides the insurance items, employees can make phone calls to doctors, and receive discounts through the flexible

Mental Health Care

In order to better alleviate employees' pressure from work and ensure they can be engaged in production healthily and efficiently, we have established the Employee Assistance Program (EAP). The EAP is a set of long-term assistance and welfare program for employees. It is used to help employees and their family members to solve a variety of psychological and behavioral problems and eliminate all the factors that may affect employees' performance through professionals' diagnosis and analysis on the organization environment as well as provision of professional

guidance, training and consulting to the employees and their family members, thus improving the employees' job performance.

Currently, Trina Solar has organized an EAP counselor team with certain strength and also invited experts periodically to give guidance in terms of stress management, occupational mental health, and healthy lifestyles to help employees ease the work pressure, which helps to eliminate psychological distress and improve work emotions.

Occupational Health Care

We have strengthened the supervision of occupational health in many ways, and provided health care for employees at the positions with occupational hazards in order to prevent occupational diseases. In addition, we also ensure there is a certain amount of security funding per year for occupational health protection. No occurrence of occupational diseases is one of our long-term objectives.

- **Clinic:** We have established an internal clinic to provide the employees with medical and health counseling services;
- **Occupational Health Examination:** We conduct health examinations for employees who may be exposed to occupational health hazards, and adjust the work positions for employees exhibiting occupational illness symptoms to prevent occupational diseases. In 2015, we identified the regulations of Occupational Hazards Catalogue (2015) jointly revised by National Health and Family Planning Commission, State Administration of Work Safety Supervision, Ministry of Human Resources and Social Security, and All-China Federation of Trade Unions, and the regulations of Provisions for Occupational Health Examinations issued by National Health and Family Planning Commission. We provide occupational health examinations for employees in

accordance with the latest laws and regulations.

- **Occupational Hazards Monitoring:** We carry out occupational hazards monitoring at the workplace in accordance with local laws and regulations every year, and takes engineering and management measures to ensure a healthy working environment;
- **Warning Signs:** We set up warning signs in the workplaces to inform employees of any occupational hazards, whatever protective measures needed during their work, and also increase awareness of self-protection;
- **Care for Employees at Special Positions:** We care for our employees who work at special positions. For example, distributing sunstroke prevention items to employees who are exposed to sunlight in high temperatures in summer.
- **Medicare Green Channel:** We pay for industrial injury insurance for all workers. To ensure employees get timely medical treatment, Trina Solar sets up Medicare Green-card Scheme with local hospitals in Changzhou for our employees. Employees can receive immediate medical attention after showing their "Trina Solar Medicare Green Card". Trina Solar will pay for medical expenses afterwards to make sure that employees receive timely treatment.

Modify Gas-collecting Channels in Sintering Process to Lower Occupational Health



In the cell workshops of Southeast Campus, organic materials that spread from the stoving area and the sintering area are harmful to workers' health. After the comprehensive evaluation of the workshop and EHS Department in 2015, we added gas-collecting channels to collect and treat waste gas, so as to effectively reduce organic gas spread and lower occupational health risks.

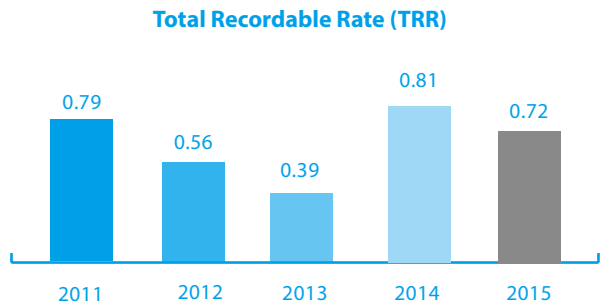
Employees' Safety

As stated in EHS policy, Trina Solar is committed to protecting employees' health and safety. Safety is one of our main 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, a correct business theory to protect our employees, suppliers and communities where we reside, as well as an essential path to contribute to society.

Occupational Health and Safety Management System

Trina Solar Changzhou Headquarters, Yancheng Campus, Hubei Campus and Yabang Campus have all established complete and effective OHSAS18001 Occupational Health and Safety Management System and Safety Standardization according to the requirements of OHSAS18001 and AQ/T9006-2010 Basic Norms for Work Safety Standardization of Enterprise. In 2016, we plan to certify three new sites, i.e. Thailand site, Xinjiang site and Hefei site as part of our ISO 18001 program. We are continuously improving our Occupational Health and Safety Management System. However, in 2014, increasing automation in workshops caused a rise in the Company's total recordable accidents rate (TRR). Thus, TRR raised accordingly. The EHS department and responsible departments jointly carried out a detailed analysis of the causes for TRR rising, and prepared corrective and preventive measures to lower TRR. We have seen a decrease of 11% of TRR in 2015 compared to 2014. In the meantime, we have set up the medium and long term objective of a decrease of 5% of TRR towards 2020 compared to 2015. We take safety performance improvement as an essential part of our daily operation.



Note: Total Recordable Rate (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 by the total working hours in that period (H).

Employees' Workplace Safety

Trina Solar is dedicated to providing a safe workplace for all employees. Our goal is to continue to reduce occupational injuries in the workplace and make efforts to promote the safety culture construction so that our health and safety performance is continuously improved.

Trina Solar proactively conducts risk assessments in relation to the health and safety 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 manufacturing activities, products and services. Risk control strategies have been implemented, focusing on elimination/replacement, engineering measures, administrative measures and personal protective equipment controls. Trina Solar maintains an active emergency response plan. The plan is to ensure, to the best of our abilities, that the site facilities are maintained and operated in a safe way.

Hazard Identification and Risk Assessment

We set up the Hazard Identification and Risk Assessment Procedure to identify the hazard and assess the risks related to manufacturing activities, products and services. Hazard identification is the recognition process of sources or situations that can cause harm to people (accident or illness). Risk

assessment is the process of estimating the risk levels for the hazards and their acceptability. Based on risk level determined, risks are categorized as major risks, medium risks and minor risks. The risk acceptability and recommended actions are also suggested as depicted in the Table.



Risk Category	Acceptability of Risk	Recommended Actions
Minor Risk	Acceptable	• Maintain existing management and control measures, and strengthen measures according to actual situation.
Medium Risk	Tolerable	• Review existing procedures and control measures to prevent accidents. • Analyze to determine whether to take further measures in accordance with the consequences which the accident may result in.
Major Risk	Intolerable	• Avoid or reduce the risk by taking engineering and/or management measures. • Take temporary management and control measures to ensure the safe operation before taking engineering or management measures to control the risk.

Modify Module Curing Production Line in Northeast Campus

In the running of the curing production line in module workshops of Northeast Campus, the rollers always caused module shifting, and workers needed to correct modules manually, which had a safety risk of being crushed. After evaluation of workshops and the relevant departments, the

production line with rollers was replaced with chain plates, and the wooden pallets under modules were removed. Modules can be put on the chain plates that run smoothly together with the chain after improvement. Workers do not need to operate at the line which reduces the risk of injury.



Production Line with Rollers Before Improvement



Production Line with Chain Plates After Improvement

Hazardous Work Management

We set up a permit-to-work system to ensure the safety of contractors and employees. This system requires employees and contractors to get an Area Work Permit prior to the commencement of any work within Trina Solar premises. We strictly control activities that may cause major injury or losses, such as working at a height, working with open flames and in a confined space. The person responsible for a project needs to complete a permit for such work, which must then be approved by relevant parties prior to commencement of the work.

Near Miss Reporting

Trina Solar adheres to an open and effective reporting mechanism to encourage correct behaviors, practices and processes in order to avoid the occurrence of accidents and personal injury. Trina Solar has launched the Near miss reporting system plant wide since 2010 to encourage all employees to report near misses. To ensure the successful implementation of the program, we provide different channels for employees to report near misses, such as an EHS reporting card, near miss reporting database in E-flow system, email and telephone notification.

Safety Inspection

Trina Solar has established the EHS Inspection and Management Procedure to assess the strengths and weaknesses in the plant's safety system by the identification of unsafe acts and unsafe conditions. The procedure gives the notification of line management for appropriate, effective and prompt corrective actions. The establishment and implementation of the procedure minimize employee and company loss by early detection of potential health and safety hazards.

Besides, EHS and the Labor Union jointly have organized near miss reporting activities. The reported near misses will be reviewed by the committee. According to the value to our safety management, the special prize, first prize, second prize and third prize will be selected by the committee quarterly. We received a great response from our employees. There was a total of 1,906 near misses reported in 2015, and 85% of them were resolved, not only greatly reducing the company's safety risks, but also creating the cultural atmosphere of full participation in safety management.

Modify Automated EVA Cutting Machine in Module Workshops of Northeast Campus

When changing new EVAs, two workers shall cooperate to run EVA cutting machines in Northeast Campus. They need to press and hold the sides of EVA in case of peeling and, meanwhile click the touch screen to control the roller push button. The workers operating on EVA cutting machines reported to EHS Department that the one who held EVA

might be crushed if he/she accidentally put hands near the roller and at the same time, the other one clicked the push button. After evaluation of EHS and workshops, we added protective panels outside rollers to prevent workers from reaching the rollers and reduce safety risks.



Risk of Crushing Hands Before Improvement



Add Protective Panels to Prevent Hands from Reaching in the Rollers After Improvement

Emergency Management Plan

In case of an emergency, our response makes the difference between a positive and a negative outcome. We believe that effective contingency plans and periodic drills will play a crucial role in stabilizing the situation upon emergency. Therefore, we have developed a comprehensive emergency response plan, including fires, chemical spills and burns, power outages

accidents, etc., to ensure that we are able to promptly and effectively respond to a variety of safety and environmental incidents. We also conduct emergency drills regularly in each responsible area to ensure our emergency response plan can work well while improving our emergency response capabilities.

Evacuation Drills in Changzhou Northeast Campus, Yancheng Campus and Hubei Campus

In order to test the emergency preparedness, the northeast campus in Changzhou, Yancheng campus and Hubei campus of Trina Solar separately organized factory-wide fire emergency and evacuation drills in 2015, together with local Fire Protection Brigades. In the drill, a fire incident was simulated in an area of the campus, and a factory-

wide emergency evacuation was initiated. ERT (Emergency Response Team) was deployed to rescue the casualties and carry out fire-fighting. The whole drill not only tested the emergency preparedness campus-wide, but also improved ERT staff abilities. It also helped enhance cooperation of the company's ERT staff and outside Fire Protection Brigades.



Simulate a Fire Accident



Fire Engine Arrived



Firemen Put out Fire with Water

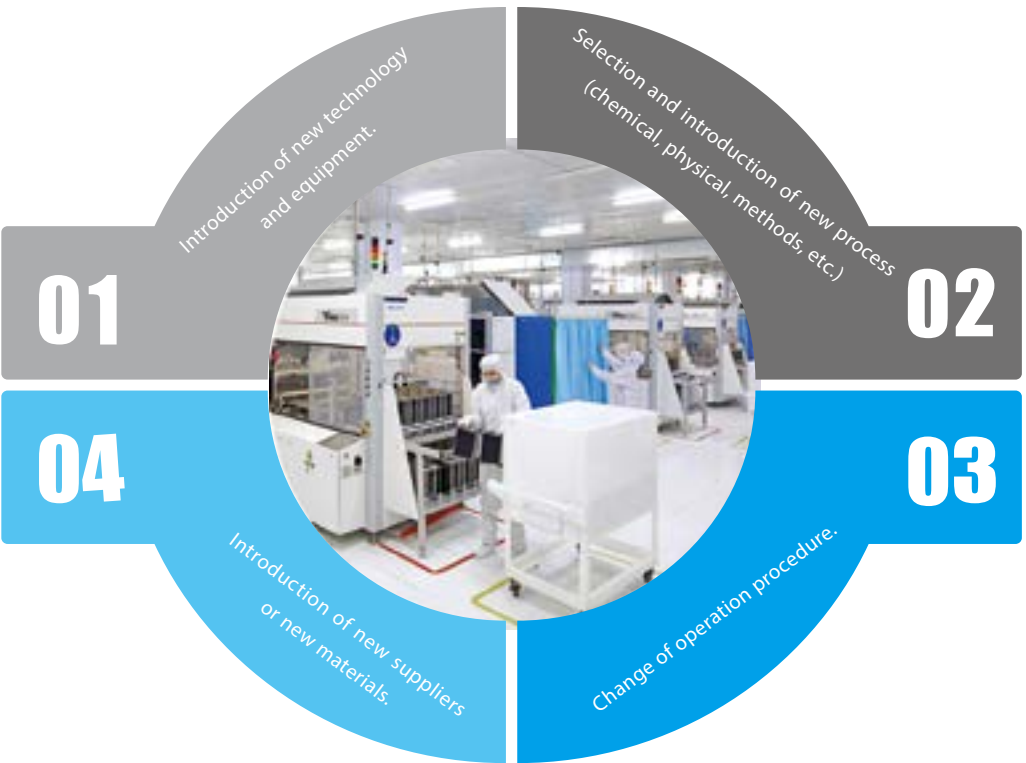


Evacuation and Assembly

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 set up a MOC procedure. An evaluation should be conducted if the changes have a strong relation with

those that may be harmful to people, the environment, safety or quality of products. Examples of the change required MOC. The evaluation included:



Employees' Traffic Safety

Trina Solar not only focuses on employee's work safety, but is also concerned about their traffic safety on their daily commute. To minimize injuries and losses caused by traffic accidents on

the way to and from work, we conducted a series of traffic safety improvement measures. In 2015, there were no traffic deaths or serious injuries.



Safety Culture Development

Caring for employee's life and work safety is one of the key performance indicators of corporate cultural progress. We strictly follow security policies, hold monthly EHS committee meetings, organize a safety promotion month every year, launch

various training activities to strengthen employee's recognition about safety culture, give guidance to employee's safe behavior and promote the corporate culture of "safety-first".

EHS Promotion Month

Themes of EHS Promotion Month of the Previous Five Years

The timeline shows the following themes for each year:

- 2011: Safety Responsibility & Focus on Implementation
- 2012: Scientific Development & Safe Development
- 2013: Enhance Safe Infrastructure & Promote Safe Development
- 2014: Strengthen Awareness of Red Lines & Promote Safety Development
- 2015: Strengthen Safety Law & Guarantee Safe Production

Activities in EHS Promotion Month of 2015

To promote employees' EHS awareness, cultivate corporate EHS culture and continuously improve our EHS performance, we carry out EHS Promotion Month activities every year. In 2015, we organized a series of EHS activities with the theme of "Strengthen Safety Law, Guarantee Safe Production".

- Opening Ceremony of EHS Promotion Month:** The attendees reviewed safety performance for 2014 and the safety management work planning for 2015. The head of each department signed an agreement on EHS responsibility, and the responsibility system was put into practice at all levels. Three groups were awarded with Excellent Safety Performance awards, and 18 individuals were awarded for their outstanding safety performance in 2014.
- EHS Quiz:** Each employee submitted an answer sheet in hard copy or electronic form. The content of the quiz covered the safety of hazardous chemicals, electricity safety, occupational health, fire safety, traffic safety and so on. There were a total of 2,087 employees participated in the activity.
- ERT Competition:** This was a preliminary contest covering fire, chemical spill, special gas spill, evacuation, first-aid, emergency knowledge of elevator accident and use of emergency suppliers. 10 teams were selected from the preliminary contest. The final was about the operation skills to measure and improve ERT members' emergency response.
- First-aid Lecture:** Professional first-aid doctors were invited to give lectures on first-aid methods like cardiopulmonary resuscitation and extra thoracic compression, to improve our ERT members' emergency response abilities.
- EHS Topic Essay Writing Activity:** Employees were encouraged to write about their experiences of health and safety issues, so as to continuously grow and promote our EHS culture.

Mr. Jifan Gao, Chairman and CEO of Trina Solar, signed 2015 EHS Responsibility Agreement with Mr. Zhiguo Zhu, COO and President of MBU.

Mr. Zhiguo Zhu, COO and President of MBU, awarded the "Excellent Safety Performance Prize" for the advanced group.

EHS Risk Management Committee

To better manage the ever-changing EHS risks, we founded the EHS Risk Management Committee in 2015. The company's COO holds the post of director of the committee. The relative leaders of each BU and departments are members of the committee. We convene a meeting every quarter to:

- Make an EHS risk control policy, establish risk index system;
- Identify, monitor the EHS risks in the production management process. Formulate resolving measures;

- Establish EHS risk dynamic monitoring mechanism. According to the severity and frequency of potential consequences, the risks can be divided into 3 statuses: red, yellow and green. Through resolving measures we gradually reduce the risk level and control the risks within an acceptable range. In 2015, EHS risk management committee identified 20 EHS risks and resolved 11 of them into green status.

Fully Automated Assembly Line Machinery Injury Risk

From 2014, cell and module workshops have been gradually transformed into fully automatic assembly line to continuously improve output and product efficiency. Unfortunately, after examination, automatic assembly line had problems with lack of safety protection, safety interlocks and warning labels, which may cause mechanical injury.

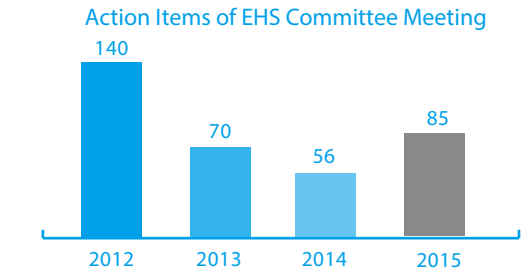
EHS Risk Management Committee identified it as high risk and formulated the following resolving measures to lower the risk to green status so as to provide a safety environment for all workers.

- Make risk assessment for all automated assembly line equipment, and install protection and interlock devices and warning labels.
- Make work instructions for all automated assembly lines and conduct training for operators. Operators can work only after passing due examination.
- Make safety technical requirements for all automated assembly line equipment and add them into procurement requirements so as to ensure that the newly purchased equipment meet the safety protection requirements.

EHS Committee Meeting

With the implementation of EHS principles and policies as its purpose, Trina Solar's EHS committee supervises the implementation of various safety measures, comprehensively promotes the environment, health and safety work, and strives to effectively manage and control all EHS activities.

The EHS committee meeting, held on a monthly basis, established an EHS information communication mechanism widely participated by several departments such as production, technology, facility, HR, administration, etc. All EHS issues are discussed and communicated during the committee meeting. In 2015, 85 action items were put forward in EHS committee meetings of ingot and wafer, cell and module sections, and 75 were closed with a closing rate of 88%.



Work-life Balance

In addition to powerful innovation ability and advanced technologies, harmonious corporate culture also plays an important role in healthy and rapid development of an enterprise. We believe that a good enterprise culture can

enhance employees to enjoy their work and life in a better way; colorful cultural activities can effectively relieve employees' psychological pressure, relieve stress and help to form an atmosphere of mutual assistance, love and trust.

Leisure Sports Activities

Trina Solar has established a series of sports clubs such as football, basketball, badminton, table tennis, swimming, fishing, etc. Each club regularly develops training activities every month and organizes various kinds of internal leagues or friendly matches with other companies every year. For example, we hold a basketball league, badminton matches, tug-of-war events and Ping-Pong matches every year. Every moment of joy and

every drop of sweat carries the team spirit of striving upwards. Besides all of these, we also have Yoga and Taichi classes to help cultivate the mind and body and help find spiritual tranquility. These classes help staff relax in body and mind. The relaxing, soft movements can help to calm people down amidst the hustle and bustle of life, cultivating their minds and making them more confident in their work and life.

Trina Solar Sports Season

Life lies in movement. Trina Solar's Labor Union organized a series of activities in September 2015 to encourage all the staff to enjoy the pleasure of sports. We organized a series of activities, including West Taihu Lake Marathon Team Race,

West Taihu Lake Marathon Race

indoor swimming competition, fishing competition, and hiking and indoor challenge sports. We encourage staff to do sports for exercise as daily habits and work and live in a better condition.

Hiking Activity on Longxu Mountain in Anhui Province

Parent-children Activities

The adolescence period is the most critical and distinctive period in one's life. Considering that our employees devote most of their energy to working, continuous self-learning and improving, it may cause neglect to the growth of their children. In order to facilitate relationships between parents and children, Trina Solar persists in conducting all kinds of parents-children activities to benefit children's physical and mental health. These activities are enjoyable and educational. They not only promote emotional exchange between parents and children, make children experience enjoyment of creation and success, but also train their character of participation and exploration as well as

enable them to make better friends.

Trina Solar in Europe Area holds a day called "Future Career Planning Day" every year. On this day, parents can take their children to workplaces and spend the whole special day with their children. Children can also get to know their parents' work content, and have an opportunity to know how the real world works, and understand the value and meaning of labor. We deeply believe that taking children to their parents' workplaces is not only a simple vocational educational day, but also can help employees make a good balance between work and life.

Painting and Calligraphy Competition

To enrich the culture life of employees' children during the summer vacation and encourage them to discover, feel and create beauty in nature, Trina Solar holds a painting and calligraphy competition every year. The theme of the competition in 2015 was "My Technology Dream". This theme encouraged children to paint their technology blueprint in their heart and excited their imagination.



Succulent Plants DIY

On Mother's Day of May 10th, 2015, Trina Solar organized women employees and their children to take part in the Succulent Plants DIY family activity. In the activity, children grew succulent plants under the guidance of teachers and drew cards for their mothers. The activity not only helped improve children's practical abilities, but also encouraged them to express their love and gratitude to their mother.



Festival Activities

In order to popularize national culture and enrich employees' cultural life outside of work, we prepare various activities to celebrate all the major traditional festivals:

Spring Festival

We sent consolation cards to express our sincere appreciation and New Year's greetings to the family members of all front-line employees.

Lantern Festival

On Lantern Festival, we hung up red lantern riddles and colorful balloons for employees to enjoy a joyful festival.

Dragon Boat Festival

On Dragon Boat Festival, we organized a gathering and distributed Zongzi (pyramid-shaped rice dumplings wrapped in leaves) and organized a Zongzi-making contest.

Mid-autumn Festival

We organized volunteers to distribute moon cakes and sent festival greetings to staff still working at their posts on this special day.





Contribution to Society

As a responsible corporate citizen, we always adhere to the concept of returning to society, actively taking advantage of our own technical superiority and resources and bringing positive change to the local economy, environment and society. We hope

to promote a harmonious development in society and the progress of civilization through investment in education, public charities, and employee volunteer services.

\$ Donated RMB 10 million to establish Siyuan Sunshine Fund for Entrepreneurship

\$ Donated RMB 2.5 million to establish Trina Tongxin Million Fund

☰☰ Donated 54 KW modules to Japanese welfare association

Education Support

Supporting education is our long-term corporate responsibility and mission. We have invested in constructing the Trina Solar International School in order to promote the cultivation of innovational talents and to provide a power for the sustainable development of the world economy and the community. We do this through sustained investment in education. In 2015, we

donated RMB 10 million to set up the Siyuan Sunshine Venture Fund and also donated 20KW modules to Hainan Jijia Middle School. We improve the educational environment continuously which depends on our talent, technology and capital, and enables more young people to have access to education that can help them succeed in the future.

Trina Solar International School

Trina Solar International School has adopted a high-quality international curriculum and hires experienced native teachers. The school has a 15-year international curriculum ranging from kindergarten to the end of secondary school education. The school provides good educational facilities to children and teenagers with different backgrounds and this in turn promotes their optimal development.

Stepping into the Nursing Home for the Elderly

In order to inherit and bring forward our fine traditions of caring for elders, more than 30 students and teachers from Trina Solar International School visited the nursing home for the elderly in Sanjing Street, Xinbei District, Changzhou. Students from Trina Solar International School sang songs and brought love, warmth and blessings to the elderly residents. As a result of the students' efforts and warmth, the elderly were very pleased with their presence and they laughed with glee.



An Educational Trip—To be a Library Volunteer

Books are the ever-burning lamps of accumulated wisdom, and the library is an ocean of knowledge for humankind. In December 2015, students from the senior department of Trina Solar International School went to the Wujin Library to assist librarians to manage books. Under the guidance of librarians, the volunteers learnt how to use the serial numbers to categorize, borrow and return books. They place the books categorically in order to allow easier access for the readers to choose and pick-up book, which saves readers' time. This task also strengthened volunteers' practical ability.



Set up Siyuan Sunshine Fund for Entrepreneurship to Help Poor College Students Start Their Business

Trina Solar has always considered social responsibility as one of important concepts for sustainable development. On July 21st, 2015, Trina Solar set up a Sunshine Fund for Entrepreneurship and donated RMB 10 million to the China Siyuan Foundation for Poverty Alleviation. The purpose of the fund is to roll out public training courses and help poor college students cultivate entrepreneurship and achieve success in PV industry.

The purpose of China Siyuan Foundation for Poverty Alleviation is to support cultural, educational and public health undertakings in poor regions so as to improve the production and living conditions and promote the economic and social development of poverty-stricken areas in China. The planned cycle of Siyuan Sunshine Fund for Entrepreneurship Project Phase I is five years. By adhering to the philosophy of "appreciate favors received and repay the

society", the project desires to establish a free PV network school, which can help 10,000 junior college and technical secondary school students to start their own business in the PV industry so as to relieve from poverty and realize their life value.

"The Siyuan Sunshine Fund for Entrepreneurship will strictly follow the constitution, purpose and business scope of the China Siyuan Foundation for Poverty Alleviation. We will strengthen daily management and make good use of all funds on the principle of openness, fairness and justice in order to enhance our influence and credibility. Supported by China Siyuan Foundation for Poverty Alleviation, Siyuan Sunshine Fund for Entrepreneurship will advance to benefit the young generations and benefit mankind with new energy." said by Mr. Jifan Gao, Chairman and CEO of Trina Solar on the launching ceremony.



Donation of PV Modules to Hainan Jijia Middle School



The representatives of China Power New Energy, Trina Solar and other companies, together with student representatives of Jijia Middle School, activated the grid connection button.

On March 26th, 2016, Trina Solar participated in the donation activity initiated by China Power New Energy Development Co., Ltd. owned by China Power International Development Limited. Trina Solar donated self-produced D10 PV modules of 20KW to Jiaji Middle School in Qionghai City, Hainan Province. The PV power generation system comprised by Trina Solar's modules was successfully connected to grid on that day.

The purpose of the school-enterprise cooperation activity is to promote environmental protection so as to achieve green, low carbon development. Trina Solar is willing to make concerted efforts with others to create a green and beautiful future with clear water and blue sky.

Donations

The prosperity and stability of society is the foundation of a successful enterprise and the success of an enterprise also promotes the development and progress of society. Enthusiastic about public welfare, Trina Solar donated RMB 2.5 million to set up the Trina Tongxin Million Fund and donated 54KW modules to

Japanese Welfare Association in 2015. Trina Solar takes practical actions in public welfare and disaster relief, and improves health and traffic conditions, making a positive contribution to creating a better world.

Trina Tongxin Million Public Welfare Fund

In December 2015, Trina Solar donated RMB 2.5 million to set up the Trina Tongxin Million Public Welfare Fund to support the filming of documentary of Mr. Liu Guojun, an outstanding Chinese entrepreneur and famous patriotic businessman.

Mr. Liu Guojun grew up in a poor family. He came to Wujin in Changzhou to be an apprentice. Starting as an apprentice, he grew into a wealthy merchant, and then became a successful businessman daring to compete with Japanese businessmen. His passion and love for his country finally made him the deputy governor and vice president of Jiangsu Provincial Political Consultative Conference.

- Running a company: He committed to promoting home-made products, competing with Japanese businessmen and supporting national commerce.
- Cultivating high-skilled workers: He advocated to “making factories into schools at the same time”, and he also suggested the Education Ministry to establish textile departments in universities, and on the other hand, used the government’s allocated funds and the money donated by textile factories to set up specialized textile schools.
- Developing a new China: He returned to Mainland China from Hong Kong resolutely to help restore the factories’ production.
- Joint state-private operation: He took the lead to make Dacheng Textile and Printing Company one of the first state-private joint companies. He participated in the China Democratic National Construction Association

(CNDCA) and took responsibility to establish Changzhou Democratic Construction Association. He was also a member of the Central Committee of CNDCA and the Chairman of Jiangsu Democratic Construction Association. He contributed ideas and exerted efforts for the country’s construction. In order to consolidate and expand the patriotic united front, Mr. Liu Guojun participated in various social activities and strived for national development in spite of his old age.

Mr. Jifan Gao, Chairman and CEO of Trina Solar delivered a speech at the donation ceremony. He said that Trina Solar, established in 1997, has grown into the world’s largest solar module manufacturer and a first-class solar project developer and operator. We have formed the core values of “Customer Focus, Open Mindedness, Respect & Win-win, and Pursuit of Excellence”. He also said” By learning Mr. Liu Guojun’s philosophy of business operation, we can find that Trina Solar’s management concept and practices are in line with our senior’s entrepreneurship, which strengthens our confidence and enlightens us a lot.”

Mr. Jifan Gao believes that the core spirit of Mr. Liu Guojun can be described as “Promote Industry and Repay our Country”. The purpose of setting up this special public welfare fund is to allow more people to know about Liu’s experiences, so as to stimulate entrepreneurs in Changzhou and other regions in China to carry out the fine tradition of “Promote Industry and Repay our Country”, and strive for greater progress of our country.



Trina Solar Donated Modules to Japanese Welfare Association



After the donation ceremony, Ms. Ye, Chen, the Head of Trina Solar Japan (Left 3 in 1st Row) and the Mayor (Left 1 in 1st Row) took a photo with members of the Welfare Association.

On July 3rd, 2015, Trina Solar donated 213 pieces of PV modules to Japanese Asahi Welfare Association located in Hokuto, Yamanashi-ken, Japan. Asahi Welfare Association plans to install modules on the roof of mushroom cultivation sheds or chicken farms to build a PV power station of 54KW. Hokuto has the longest sunshine time in Japan. The 54KW PV power station will not only bring earnings by selling electricity power but also make the agricultural facilities more complete and reduce the association’s welfare budget. At the donation ceremony, the mayor concluded that “Japan depended too much on the fossil fuels in the last 20 years. We hope that Hokuto will gradually replace conventional energy with green energy since it has the longest sunshine time in Japan.” Chen Ye, Head of Trina Solar Japan said, “We hope that the main products of Trina Solar can make continuous contributions for Japanese society.”

Trina Solar Donated Modules to Ratanawan Temple in Thailand



Trina Solar donated 30 pieces of high efficient modules of 300W in 2015 to the Ratanawan Temple in Nakhon Ratchasima, Thailand. A total of 9KW modules were installed on the roof of this temple to provide steady and clean power for the daily operation of the temple. The renewable energy has been widely applied in the areas of education and religion in Thailand. This donation project is not only a new attempt for Trina Solar in terms of corporate social responsibility but also helps to raise awareness of environmental protection and clean power among Thailand public.



Volunteer Activities

Trina Solar focuses on mutual development with local communities. We encourage staff to participate in voluntary activities, to care for China’s “left-behind” and impoverished children, and to help and support disadvantaged social

groups. We also actively encourage participating in community services, in the projects in favor of environmental sustainable development, and inheriting the volunteer spirit of dedication, friendship, mutual help and progress.

Caring Autistic Children

On May 29th, 2015, volunteers from Trina Solar visited Changzhou Tian’ai Children Rehabilitation Center and brought their regards to autistic children before Children’s Day.

In the rehabilitation center, the volunteers tried to communicate with the children and gave them educational toys and stationery. At the same time, they had thorough communications with the parents and discussed with them about their children’s daily study and life. We asked the

parents to give suggestions about the English classes given by the volunteers. We helped the children improve their study and go out from autism.

Volunteers saw happy smiles on the children’s faces which made them feel that it is worth the effort. We will continue to pay attention to the social public welfare undertakings and let more people join in our activities to share the endless love to everyone.



Caring Students

The volunteers from Trina Solar has started to subsidize the students whose families have financial problems in Daibu Primary School and Hengjian Primary School in Liyang City. In the last 7 years, the volunteers have subsidized 62 students with a total donation amount of 230,000 Yuan. Twenty of the students have completed the nine-year compulsory education.

The volunteers encouraged the students to live happily and confidently while bringing kind donations. The volunteers hope to build an ideal growing environment for students by economic help and psychological comfort, so as to help the students to complete a 9-year compulsory education.



Volunteers Participated in Environmental Protection Activities



We can face the challenge of global warming, if we drive less, walk more, and take public transportation or rent public bikes, and we will all make contributions for alleviating global warming.

On May 17th, 2015, Trina Solar organized volunteers to attend the low carbon environmental protection activity. The volunteers wore uniforms, and rode from Trina Solar’s Changzhou Headquarters to China Flower EXPO Park in Wujin District, Changzhou. The whole journey was 35.6 km. This activity aimed to promote green environmental protection and green low-carbon travel, and advocated people to care for our mother earth.



GRI Index

To enable stakeholders fully understand Trina Solar's social responsibility, Trina Solar's Social Responsibility Report 2015 discloses relevant information as the comprehensive disclosure plan based on the Sustainability Report Guidelines G4 issued by the Global Reporting Initiative (GRI).

Indicator Number	Description	Status	Report Section(s)	Page(s)	Explanatory Notes
Strategy and Analysis					
G4: 1-2	Statement from the most senior decision maker of the organization; Description of key impacts, risks, and opportunities.	●	• Message from the Leadership • Corporate Governance • Challenges and Opportunities	03 12 21	
Organizational Profile					
G4: 3-9	Name of the organization; Primary brands, products, and/or services; Location of headquarters; Nature of ownership; Markets served; Scale of organization.	●	• Company Profile	07	
G4: 10	Employee Classification Statistics.	●	• Employees ' Rights	55	
G4: 11	Percentage of employees covered by collective bargaining agreements.	●			
G4: 12	Describe the organization's supply chain.	●	• Supplier Management	47	
G4: 13	Significant changes during the reporting period regarding the organization's size, structure, ownership, or its supply chain.	●	• Meaasage from the Leadership • Challenges and Opportunities	03 21	
G4: 14	Report whether and how the precautionary approach or principle is addressed by the organization.	●	• Corporate Governance	12	
G4: 15	List externally developed economic, environmental and social charters, principles, or other initiatives to which the organization subscribes or which it endorses.	●	• Green Sustainable Development • Solutions to Climate Change	27 31	
G4: 16	Memberships of associations (such as industry associations) and national or international advocacy organizations.	●	• Communication with Stakeholders • Challenges and Opportunities	19 21	
Identified Material Aspects and Boundaries					
G4: 17	List all entities included in the consolidated financial statements or equivalent documents. Report whether any entity included in the organization's consolidated financial statements or equivalent documents is not covered by the report.	●	• About the Report	01	
G4: 18	Explain the process for defining the report content and the Aspect Boundaries. Explain how the organization has implemented the Reporting Principles for Defining Report Content.	●	• About the Report	01	
G4: 19-21	List all the material Aspects identified in the process for defining report content.	●	• Materiality Analysis	18	
G4: 22	Report the effect of any restatements of information provided in previous reports and the reason for such restatement.	●	• About the Report	01	
G4: 23	Report significant changes from previous reporting periods in the Scope and Aspect Boundaries.	●	• About the Report	01	No significant change in previous reports
Participation of stakeholders					
G4: 24-27	Provide a list of stakeholder groups engaged by the organization; Report the basis for identification and selection of stakeholders; Approach to stakeholder engagement, including frequency of engagement by type; Report 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.	●	• Communication with Stakeholders	19	
G4: 28-31	Reporting period; Date of most recent previous report; Reporting cycle; Contact point for questions regarding the report or its contents.	●	• About the Report	01	
G4: 32	Report the 'in accordance' option the organization has chosen. Report the reference to the External Assurance Report, if the report has been externally assured.	●	• About the Report	01	'In accordance' – Comprehensive
G4: 33	Report the organization's policy and current practice with regard to seeking external assurance for the report. Report the relationship between the report organization and the assurance provider. Report whether members of the highest governance body or senior managers participate in the seeking of assurance for the sustainable development report.	●	• About the Report	01	

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

Indicator Number	Description	Status	Report Section(s)	Page(s)	Explanatory Notes
Governance					
G4: 34	Governance structure of the organization, including committees under the highest governance body. Identify any committees responsible for decision-making on economic, environmental and social impacts.	●	• Corporate Governance • Employees' Safety	12 61	
G4: 35-49	Report whether the organization has appointed an executive-level position or positions with responsibility for economic, environmental and social topics.	●	• Corporate Governance • Green Sustainable Development	12 27	
G4: 50	Report the nature and total number of critical concerns that were communicated to the highest governance body and the mechanism(s) used to address and resolve them.	◐	• Corporate Governance • Challenges and Opportunities	12 21	
G4: 51	Report the remuneration policies for the highest governance body and senior executives. Report how performance criteria in the remuneration policy relate to the highest governance body's and senior executives' economic, environmental and social objectives.	◐	• Corporate Governance	12	
G4: 52	Report the process for determining remuneration. Report whether remuneration consultants are involved in determining remuneration and whether they are independent of management. Report any other relationships which the remuneration consultants have with the organization.	◐			
G4: 53	Report how stakeholders' views are sought and taken into account regarding remuneration, including the results of votes on remuneration policies and proposals, if applicable.	●	• Corporate Governance • Communication with Stakeholders	12 19	
G4: 54	Report the ratio of the annual total compensation for the organization's highest-paid individual in each country of significant operations to the median annual total compensation for all employees (excluding the highest-paid individual) in the same country.	◐	• Employees' Rights	55	
G4: 55	In every country with significant operation locations, the ratio between the gross annual income growth of the highest individual compensation and the average gross annual income growth of all other employees (not including the highest individual compensation) in the same country.	◐	• Employees' Rights	55	
Ethics and Integrity					
G4: 56-58	Describe the organization's values, principles, standards and norms of behavior such as codes of conduct and codes of ethics. Report the internal and external mechanisms for seeking advice on ethical and lawful behavior, and matters related to organizational integrity, such as helplines or advice lines. Report the internal and external mechanisms for reporting concerns about unethical or unlawful behavior, and matters related to organizational integrity, such as escalation through line management, whistleblowing mechanisms or hotlines.	●	• Corporate Governance • Corporate Culture	12 15	
Economy (Report why the Aspect is material. Report the impacts that make this Aspect material. Report how the organization manages the material Aspect or its impacts. Report the evaluation of the management approach.)					
Indicator: Economic Performance					
G4: EC1	Direct economic value generated and distributed.	●	• Key Performance	24	
G4: EC2	Financial implications and risks and opportunities for the organization's activities due to climate change.	●	• Message from the Leadership • Solutions to Climate Change	03 31	
G4: EC3	Coverage of the organization's defined benefit plan obligations.	○			
G4: EC4	Financial assistance received from government.	○			
Aspect: Market Performance					
G4: EC5	Ratio of standard entry level wage by gender compared to local minimum wage at significant locations of operation.	●	• Key Performance	24	
G4: EC6	Percentage of local senior managers at the significant operation locations.	●	• Employees' Rights • Employees' Contribution	55 56	
Aspect: Indirect Economic Impacts					
G4: EC7	Development and impact of infrastructure investments and services supported.	●	• Education Support • Donations • Volunteer Activities	73 75 77	

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

Indicator Number	Description	Status	Report Section(s)	Page(s)	Explanatory Notes
G4: EC8	Significant indirect economic impacts, including the extent of impacts.	●	• Challenges and Opportunities	21	
Aspect: Procurement Practices					
G4: EC9	Proportion of spending on local suppliers at significant locations of operation.	◐	• Supplier Development	47	
Environment (Report why the Aspect is material. Report the impacts that make this Aspect material; Report how the organization manages the material Aspect or its impacts; Report the evaluation of the management approach.)					
Aspect: Materials					
G4: EN1	Materials used by weight or volume.	●	• Key Performance	24	
G4: EN2	Percentage of materials used that are recycled input materials.	●	• Environment-friendly Operation	40	
Aspect: Energy					
G4: EN3-7	Internal and external energy consumption, energy consumption for energy intensity reduction, energy reduction for products and services.	●	• Solutions to Climate Change	31	
Aspect: Water Sources					
G4: EN8-10	Total water withdrawal by source. Water sources significantly affected by withdrawal of water. Percentage and total volume of water recycled and reused.	●	• Environment-friendly Operation	40	
Aspect: Biological Diversity					
G4: EN11	Operation land owned, leased, managed in, or adjacent to protected areas and areas of high biodiversity value.	●	• Biological Diversity Management	44	
G4: EN12	Description of significant impacts on activities, products, and services on biodiversity in protected areas and areas of high biodiversity value.	●	• Biological Diversity Management	44	
G4: EN13	Habitats protected or restored.	◐	• Biological Diversity Management	44	
G4: EN14	Number of IUCN Red List species and national conservation list species with habitats in areas affected by operations, by level of extinction risk.	◐	• Biological Diversity Management	44	
Aspect: Air Emissions					
G4: EN15-19	Direct greenhouse gas (GHG) emissions (Scope 1); Energy indirect GHG emissions (Scope 2); Other indirect GHG emissions (Scope 3); GHG emissions intensity; Reduction of GHG emissions.	●	• Solutions to Climate Change	31	
G4: EN20	Emissions of ozone-depleting substances (ODS).	●	• Solutions to Climate Change	31	
G4: EN21	NO _x , SO _x , and other significant air emissions by weight.	●	• Environment-friendly Operation	40	
Aspect: Effluents and Waste					
G4: EN22	Total water discharge by quality and destination.	●	• Key Performance	24	
G4: EN23	Total weight of waste by type and disposal method.	●	• Environment-friendly Operation	40	
G4: EN24	Total number and volume of significant spills.	●			No such incident
G4: EN25	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.	●	• Environment-friendly Operation	40	
G4: EN26	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.	●	• Environment-friendly Operation • Biological Diversity Management	40 44	
Aspect: Products and Services					
G4: EN27	Extent of impact mitigation of environmental impacts of products and services.	●	• Green Sustainable Development • Solutions to Climate Change • Environment-friendly Operation	27 31 40	
G4: EN28	Percentage of products sold and their packaging materials that are reclaimed by category.	●	• Environment-friendly Operation	40	

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

Indicator Number	Description	Status	Report Section(s)	Page(s)	Explanatory Notes
Aspect: Compliance					
G4: EN29	Monetary value of significant fines and total number of non-monetary sanctions for non-compliance with environmental laws and regulations.	●			No such Fine
Aspect: Transport					
G4: EN30	Significant environmental impacts of transporting products and other goods and materials for the organization's operations, and transporting members of the workforce.	●	• Solutions to Climate Change	31	
Aspect: Overall Environmental Situation					
G4: EN31	Total environmental protection expenditures and investments by type.	●	• Key Performance	24	
Aspect: Supplier Environmental Assessment					
G4: EN32	Percentage of new suppliers that were screened using environmental criteria.	●	• Supplier Development	47	
G4: EN33	Significant practical and potential negative impacts in the supply chain on the environment, and actions taken.	●	• Supplier Management	47	
Aspect: Environmental Grievance Mechanism					
G4: EN34	Number of grievances about environmental impacts filed, addressed, and resolved through formal grievance mechanisms.	●			No such incident
Society (Report why the Aspect is material. Report the impacts that make this Aspect material. Report how the organization manages the material Aspect or its impacts. Report the evaluation of the management approach.)					
Aspect: Employment					
G4: LA1	Total number and rates of new employee hires and employee turnover by age group, gender and region.	◐	• Employees' Rights	55	
G4: LA2	Benefits provided to full-time employees that are not provided to temporary or part-time employees, by significant locations of operation.	●	• Employees' Rights	55	
G4: LA3	Return to work and retention rates after parental leave, by gender.	○			
Aspect: Labor / Management Relations					
G4: LA4	Minimum notice period(s) regarding significant operational changes, including whether these are specified in collective agreements.	○			
Aspect: Occupational Health and Safety					
G4: LA5	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.	●	• Key Performance • Employees' Safety	24 61	
G4: LA6	Type of injury and rates of injury, occupational diseases, lost days, and absenteeism, and total number of work-related fatalities, by region and by gender.	●	• Key Performance • Employees' Safety	24 61	
G4: LA7	Workers with high incidence or high risk of diseases related to their occupation.	●	• Employees' Health	59	
G4: LA8	Health and safety topics covered in formal agreements with labour unions.	●	• Employees' Safety • Work-life Balance	61 68	
Aspect: Training and Education					
G4: LA9	Average hours of training per year per employee by gender and by employee category.	●	• Cultural Environment	58	
G4: LA10	Programs for skills management and lifelong learning that support the continued employability of employees and assist them in managing career endings.	●	• Cultural Environment	58	
G4: LA11	Percentage of employees receiving regular performance and career development reviews, by employee gender and category.	●	• Employees' Rights • Employees' Contributions	55 56	
Aspect: Diversity and Equal Opportunities					
G4: LA12	Composition of governance bodies and breakdown of employees by category according to gender, age group, minority group membership, and other indicators of diversity.	●	• Key Performance	24	
Aspect: Equal Remuneration for Women and Men					
G4: LA13	Ratio of basic salary and remuneration of women to men by employee category and significant operation location.	●	• Employees' Rights	55	

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

Indicator Number	Description	Status	Report Section(s)	Page(s)	Explanatory Notes
Aspect: Supplier Labor Practice Assessment					
G4: LA14	Percentage of new suppliers that were screened using labor practices criteria.	●	• Supplier Development	47	
G4: LA15	Significant actual and potential negative impacts for labor practices in the supply chain and actions taken.	●	• Supplier Management	47	
Aspect: Labor Practices Grievance Mechanisms					
G4: LA16	Number of grievances about labor practices filed, addressed, and resolved through formal grievance mechanisms.	●			No such incident
Human Rights (Report why the Aspect is material. Report the impacts that make this Aspect material. Report how the organization manages the material Aspect or its impacts. Report the evaluation of the management approach.)					
Aspect: Investment					
G4: HR1	Total number and Percentage of significant investment agreements and contacts that include human rights clauses or that underwent human rights screening.	○			
G4: HR2	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.	●	• Cultural Environment	58	
Aspect: Non-discrimination					
G4: HR3	Total number of incidents of discrimination and corrective actions taken.	●	• Employees' Rights	55	
Aspect: Freedom of Association and Collective Bargaining; Child labor, Forced or Compulsory labor					
G4: HR4-6	Operations and suppliers identified in which the right to exercise freedom of association and collective bargaining may be violated or at significant risk, and actions taken to support these rights. Operations and suppliers identified as having significant risk for incidents of child labor, or forced or compulsory labor, and measures taken to contribute to the effective abolition of child labor.	●	• Supplier Management • Employees' Rights	47 55	
Aspect: Security Practices					
G4: HR7	Percentage of security personnel trained in the organization's human rights policies that are relevant to operations.	○			
Aspect: Indigenous Rights					
G4: HR8	Total number of incidents of violations involving rights of indigenous people and actions taken.	●			No such incident
Aspect: Assessment					
G4: HR9	Percentage and total number of operations that have been subject to human rights reviews and/or impact assessments.	○			
Aspect: Supplier Human Rights Evaluation					
G4: HR10	Percentage of new suppliers that were screened using human rights criteria.	●	• Supplie Development	47	
G4: HR11	Significant actual and potential negative human rights, impacts in the supply chain and actions taken.	●	• Supplier Management	47	
Aspect: Human Rights Grievance Mechanisms					
G4: HR12	Number of grievances about human rights impacts filed, addressed, and resolved through formal grievance mechanisms.	●			No such incident
Society (Report why the Aspect is material. Report the impacts that make this Aspect material. Report how the organization manages the material Aspect or its impacts. Report the evaluation of the management approach.)					
Aspect: Local Community					
G4: SO1	Percentage of operations with implemented local community engagement, impact assessments, and development programs.	●	• Education Support • Volunteer Activities	73 75	
G4: SO2	Operations with significant actual and potential negative impacts on local communities.	●	• Environment-friendly Operation • Volunteer Activities	40 77	
Aspect: Anti-corruption					

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

Indicator Number	Description	Status	Report Section(s)	Page(s)	Explanatory Notes
G4: SO3-4	Total number and percentage of operations assessed for risks related to corruption and the significant risks identified; Communication and training on anti-corruption policies and procedures.	●	• Corporate Governance	12	
G4: SO5	Confirmed incidents of corruption and actions taken.	●	• Corporate Governance	12	
Aspect: Public Policies					
G4: SO6	Total value of political contributions by country and recipient/beneficiary.	○			
Aspect: Anti-competitive Behavior					
G4: SO7	Total number of legal actions for anti-competitive behavior, antitrust, and monopoly practices and their outcomes.	○			
Aspect: Compliance					
G4: SO8	Monetary value of significant fines and total number of non-monetary sanctions for non-compliance with laws and regulations.	●			No such fine
Aspect: Supplier Assessments for Impacts on Society					
G4: SO9	Percentage of new suppliers that were screened using criteria for impacts on society.	●	• Supplie Development	47	
G4: SO10	Significant actual and potential negative impacts on society in the supply chain and actions taken.	●	• Supplier Management	47	
Aspect: Grievance Mechanisms for Impacts on Society					
G4: SO11	Number of grievances about impacts on society filed, addressed, and resolved through formal grievance mechanisms.	●			No such incident
Product Responsibility (Report why the Aspect is material. Report the impacts that make this Aspect material; Report how the organization manages the material Aspect or its impacts; Report the evaluation of the management approach.)					
Aspect: Customer Health and Safety					
G4: PR1	Percentage of significant product and service categories for which health and safety impacts are assessed for improvement.	◐	• Solutions to Climate Change	31	
G4: 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.	●			No such incident
Aspect: Product and Service Labeling					
G4: PR3	Type of product and service information required by the organization's procedures for product and service information and labeling, and percentage of significant products and services categories subject to such information requirements.	◐	• Solutions to Climate Change	31	
G4: PR4	Total number of incidents of non-compliance with regulations and voluntary codes concerning product and service information and labeling, by type of outcomes.	●			No such incident
G4: PR5	Results of surveys measuring customer satisfaction.	●	• Communication with Stakeholders	19	
Aspect: Marketing Communications					
G4: PR6	Sale of banned or disputed products.	○			
G4: 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.	●			No such incident
Aspect: Customer Privacy					
G4: PR8	Total number of substantiated complaints regarding breaches of customer privacy and losses of customer data.	●			
Aspect: Compliance					
G4: PR9	Monetary value of significant fines for non-compliance with laws and regulations concerning the provision and the use of products and services.	●			No such incident

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