JA Solar

Circular Economy Strategy

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Release Statement

This policy was approved and effective by Company's Compliance and Internal Control Management Committee.

1. General Provisions

1.1 Development Philosophy

Three G2G sustainability concepts:

- **Green to Green**: Since our inception, we have been committed to the mission of "Developing solar power to benefit the planet". In practice, we build green factories using green electricity, engage in green production, create green products, and ultimately produce green electricity, forming a closed-loop green ecosystem.

  JA Solar's "Green to Green" philosophy is deeply rooted in the core of the circular economy. Starting with solar energy, we embark on a green journey, closing the product life cycle. We firmly believe that the continuous development of green energy will ultimately convene into a powerful force driving the Earth towards a green future, paving the way for sustainable development for humanity.
- **Green to Grow**: We uphold the core values of "Being customer-centered, promoting welfare for our staff members, and creating value for the owners". At a critical time for climate transition, JA Solar is steadfastly joining hands with all parties in the thriving wave of the renewable energy industry, embarking on a new journey.

  We are aware that green energy is the bond that connects our dreams. With the clean power of solar energy, JA Solar is willing to work hand in hand with employees, customers, and all stakeholders to jointly promote global energy transition, grow together, and share the fruits with our labor.
- **Green to Great**: With the vision of "Being a great enterprise", JA Solar has evolved from zero to greatness, from scale development to value symbiosis in the green wave since 2005. "Greatness" is embodied in the diligent fulfillment of every responsibility, the bold breakthroughs in every innovation, and the in-depth development of every collaboration. It is also reflected in the active involvement in the global sustainable development landscape, the careful planning of a grand blueprint for a green future for humanity, and the profound imprint left on the global photovoltaic brand map.

JA Solar, with green as its foundation, continuously builds an inclusive and symbiotic ecological network, enables win-win outcomes for the environment, society, and economy, and contributes to a great future of sustainability for humaniy.

1.2 Working Principles

- **Reduce**: We do our utmost to minimize resource consumption and waste generation during processes such as production, distribution, and consumption.
- **Reuse**: We directly reuse waste as products or reuse it after repair, refurbishment, or remanufacturing. Alternatively, we use all or part of the waste as components in other products.
- **Recycle**: We directly utilize waste as raw materials or recycle it.

1.3 Main Objectives

By 2025, compared to 2020, the thickness of N-type silicon wafers will be reduced by 10%, the silver paste consumption per watt for N-type solar cells will decrease by 40%, and the consumption per watt for frames and encapsulants will drop by 20%. Additionally, the proportion of recycled polycrystalline material used will remain at least 40%, maintaining a level similar to 2020.

By 2030, we will comprehensively support sustainable financing and investment, ensure 100% sustainability certification for our main suppliers, establish a diverse, equitable, and inclusive management system, develop full lifecycle green products, and reduce total greenhouse gas emissions by 42% (Scope 1 & 2). A preliminary production and circulation system for green, low-carbon and circular development will have taken shape.

By 2050, we will achieve net-zero greenhouse gas emissions (Scope 1, 2, & 3) and become a global leader for sustainable development.

2. Establishing a Green, Low-Carbon and Circular Production System

2.1 Promoting Green Upgrading of Production and Products

We will accelerate the green transformation of our production bases. With the goals of saving energy, reducing consumption, and minimizing pollution, we will use management and technological means to control pollution throughout the industrial production process, and

continuously enhance controls over hazardous substances and promote substituting them with safer alternatives while phasing out harmful substances used in products, thereby minimizing pollutant generation and promoting green production. We will also adopt green design for PV modules and build a green manufacturing system. We will comprehensively strengthen our capacity to manage water-related risks and mitigate water stress. Leveraging a vertically integrated water governance framework, we will refine integrated strategies and technologies for water utilization, enhance water efficiency and recycling rates, and minimize water waste. Furthermore, we will vigorously develop the remanufacturing industry, strengthening the certification and promotion of remanufactured products. In addition, a comprehensive resource utilization base will be built to promote the recycling of industrial solid waste. We will engage in cleaner production on all fronts, conduct voluntary clean production audits. Moreover, we will strengthen the management of hazardous waste in industrial production processes.

2.2 Building a Green Supply Chain

We are stepping up efforts to promote green design, select eco-friendly materials, implement green procurement, develop green manufacturing processes, adopt sustainable packaging, facilitate eco-friendly transportation, and ensure proper recycling and disposal of discarded products to achieve environmental sustainability during the full product lifecycle. Suppliers who are self-motivated, socially influential, and leaders in their fields are selected to pilot green supply chain projects and explore the establishment of a green supply chain system. We also encourage and advise PV industry associations to build a greener industrial supply chain through standard formulation, consulting services, and industry self-regulation.

3. Establishing a Green, Low-Carbon and Circular Distribution System

3.1 Facilitating Green Logistics

We actively adjust the transportation structure and promote multimodal transportation, such as rail-water, road-rail, and road-water combined transportation. We are also strengthening the management of logistics and transportation, facilitating the construction of related public information platforms, and promoting information sharing. We champion low-carbon transportation and prioritize the use of new energy or clean energy vehicles. We are also increasing efforts to promote the demonstration and application of green ships. We support logistics enterprises in building digital operation platforms, encourage the development of smart

warehousing and smart transportation, and advance the establishment of standardized pallet recycling and sharing systems.

3.2 Strengthening the Recycling of Renewable Resources

We are advancing the integration of waste sorting and renewable resource recycling. We are also accelerating the implementation of the extended producer responsibility system and establishing a reverse logistics recycling system. Empowered by modern information technologies, we integrate online and offline waste recycling to enhance the overall competitiveness of the company. We will further improve the recycling and disposal system for discarded PV modules and promote typical recycling models and best practices. Besides, we are also speeding up the construction of a recycling system for waste materials, strengthening the recycling of renewable resources such as scrap metal and waste glass, and increasing resource output and recycling rates. We are also accelerating the deployment motion of water-saving facilities and optimizing water utilization systems to effectively mitigate water stress.

3.3 Establishing a Green Trade System

We actively optimize the trade structure and develop trade in high-quality, high value-added green products. We strive to strengthen international cooperation on green standards, actively lead or participate in the formulation of relevant international and industry standards, and promote cooperation and mutual recognition mechanisms for conformity assessment. We are also expanding cooperation in the areas of technologies, equipment, and services, including energy conservation, environmental protection, and clean energy.

4. Building a Market-Oriented Clean Technology Innovation System

4.1 Encouraging R&D of Low-carbon Technologies

We are implementing green technology innovation initiatives aimed at forward-looking, strategic, and disruptive technological projects in areas such as energy conservation, environmental protection, clean production, and clean energy. We are also ramping up investment in clean technology products and services to deliver high-quality green solutions. We further emphasize the role of enterprises as main innovation drivers and support them in cooperating with various stakeholders such as universities, research institutions, and industrial parks to establish market-oriented clean technology innovation consortia. In addition, we lead or participate in

clean technology R&D projects supported by government funding, as well as market-oriented clean technology innovation projects.

5. Establishing a Robust Regulatory System

5.1 Establishing Green Standards, Green Certification Systems and Statistical Monitoring Systems

We are carrying out the design and systematic planning of corporate green standards, forming a comprehensive and systematic green standards framework. We accelerate the development of a green product certification system. We are also strengthening statistical monitoring in areas such as energy conservation, water stress management, environmental protection, clean production, clean energy, carbon emissions, carbon assets, and carbon trading. Further efforts will be made to improve relevant systems and enhance information sharing and data security.

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