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The decision of the Sichuan Provincial Committee of the Communist Party of China on promoting the high-quality development of green and low-carbon advantageous industries guided by the goal of carbon peak and carbon neutrality

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The decision of the Sichuan Provincial Committee of the Communist Party of China on promoting the high-quality development of green and low-carbon advantageous industries guided by the goal of carbon peak and carbon neutrality

(Adopted at the 10th Plenary Session of the 11th Sichuan Provincial Committee of the Communist Party of China on December 2, 2021)

In order to thoroughly implement the spirit of General Secretary Xi Jinping's important exposition on green development, completely, accurately and comprehensively implement the new development concept, better serve the overall situation of the national carbon peaking and carbon neutrality strategy, give full play to Sichuan's clean energy resources and industrial basic advantages, focus on cultivating green and low-carbon new kinetic energy to promote high-quality development, and promote the governance of Sichuan to a new level in the new era, the 10th Plenary Session of the 11th Sichuan Provincial Committee of the Communist Party of China combined with the actual situation of the province to achieve the goal of carbon peak and carbon neutrality. Research has been conducted to promote the high-quality development of green and low-carbon advantageous industries, and the following decisions have been made.



1. Firmly lead the development of green and low-carbon advantageous industries with the goal of carbon peak and carbon neutrality

(1) Deeply understand the great significance. Green and low-carbon development is a distinctive feature of the scientific and technological revolution and industrial transformation in today's era, and is an inherent requirement for promoting the high-quality development of our country's economy and society. Since the 18th National Congress of the Communist Party of China, General Secretary Xi Jinping has taken charge of the overall situation, stood high and sought a long view, issued a series of important expositions on green development, and made major strategic decisions to strive to achieve carbon peak by 2030 and carbon neutrality by 2060, providing a fundamental basis for promoting the comprehensive green transformation of economic and social development. Achieving carbon peaking and carbon neutrality is a broad and profound economic and social systemic change, which will surely reshape the energy structure, industrial structure and regional development pattern, and is of great significance and far-reaching impact on the formation of a more sustainable, inclusive and resilient economic development mode and the establishment and improvement of a green, low-carbon and circular economic system. The whole province must improve its position, deepen understanding, integrate carbon peaking and carbon neutrality into the overall economic and social development from the strategic height of long-term development, and unswervingly follow the high-quality development path of ecological priority, green and low-carbon.

Sichuan is an important ecological barrier in the upper reaches of the Yangtze River and Yellow River, with a good natural ecological background, rich in clean energy resources, and a realistic foundation and broad space for green and low-carbon development. In recent years, our province has accelerated the construction of a national high-quality clean energy base and a national clean energy demonstration province, and clean energy and related industries have developed rapidly, and their status and role in the national industrial map have become increasingly prominent. It is a strategic measure to deeply integrate into the domestic and international dual circulation and enhance the new position of industrial development, an active choice to actively seize the opportunity of green and low-carbon transformation, and a practical need to better give full play to its own comparative advantages and stimulate new vitality for regional development, which will effectively promote the high-quality economic and social development of the province. Provide solid support for the comprehensive construction of socialist modernization in Sichuan.

(2) Accurately grasp the overall requirements. Guided by Xi Jinping Thought with Chinese Characteristics for a New Era, fully implement the spirit of the 19th National Congress of the Communist Party of China and the 2nd, 3rd, 4th, 5th and 6th Plenary Sessions of the 19th Central Committee, thoroughly implement Xi Jinping Thought on Ecological Civilization and the spirit of General Secretary Xi Jinping's series of important instructions on Sichuan work, based on the new development stage, implement the new development concept, integrate into the new development pattern, promote high-quality development, coordinate development and safety,



development and protection, focus on achieving the goal of carbon peaking and carbon neutrality, and take green and low-carbon development of energy as the key. Firmly grasp the focus of transforming the advantages of clean energy into high-quality development advantages, focus on the development of clean energy industry, clean energy support industry and clean energy application industry, accelerate the strategic adjustment of energy structure and industrial structure, vigorously promote the comprehensive green transformation of economic and social development, and embark on a green and low-carbon development path that serves the overall national strategy and supports Sichuan's future development.

——“Dual carbon” leads and strengthens advantages. Implement the spirit of the “Opinions of the Central Committee of the Communist Party of China and the State Council on Complete, Accurate and Comprehensive Implementation of the New Development Concept to Do a Good Job in Carbon Peak and Carbon Neutrality”, scientifically handle the relationship between development and emission reduction, overall and local, short-term and medium- and long-term relationships, grasp the synergy of pollution reduction and carbon reduction on the one hand, and the development of green and low-carbon industries on the other, promote the reshaping and value leap of the whole chain of clean energy production, support and application, and cultivate and form green and low-carbon advantageous industrial clusters with low resource consumption, low environmental impact, high scientific and technological content, good output efficiency, and sustainable development.

— Scientific and technological innovation and digital empowerment. Deeply implement the innovation-driven development strategy, adhere to the combination of independent innovation and technology introduction, deploy innovation chains around the industrial chain, accelerate the construction of a technological innovation system for the development of green and low-carbon advantageous industries, focus on breaking through key commonalities and cutting-edge leading technologies, improve the scientific and technological level of comprehensive development and utilization of clean energy, promote the digital, networked and intelligent development of green and low-carbon advantageous industries, and enhance the stability and core competitiveness of the industrial chain and supply chain.

——Leading and agglomeration development. Guided by the construction of the Chengdu-Chongqing Twin Cities Economic Circle and the development strategy of “one trunk and multiple branches”, we will improve the regional industrial policy system, give full play to the supporting role of leading enterprises, coordinate the layout of the supply and demand side of the industrial chain, the upstream and downstream of the industrial chain, and the front and back ends of the supply chain, build an industrial ecosystem with reasonable division of labor, complete supporting facilities and strong guarantees, and accelerate the formation of a green and low-carbon advantageous industrial development pattern with centralized layout, cluster chain, intensive and efficient.



-- Government guidance and market leadership. Adhere to the efforts of the government and the market, strengthen planning and guidance, optimize policy supply, improve infrastructure, establish bottom-line thinking, pay attention to risk prevention, create a good legal environment, government environment and market environment, further give full play to the role of enterprises and various market trading mechanisms, accelerate the establishment of a unified, open, competitive and orderly market system, and fully stimulate the endogenous driving force for the development of green and low-carbon advantageous industries.

(3) Scientifically establish development goals. Adhere to the combination of national needs and Sichuan's capabilities, coordinate current and long-term development, strive to build green and low-carbon advantageous industrial clusters that have influence on the overall situation of the country and support Sichuan's development, and accelerate the construction of Sichuan into an important national source of advanced green and low-carbon technology innovation, a centralized bearing area for green and low-carbon advantageous industries, a strategic support area for achieving carbon peak and carbon neutrality goals, and a pilot area for green development in harmonious coexistence between man and nature.

By 2025, the scale and energy level of green and low-carbon advantageous industries will continue to increase, with the installed capacity of clean energy and electricity reaching 130 million kilowatts, the annual output of natural gas (shale gas) reaching 63 billion cubic meters, the proportion of clean energy consumption reaching about 60%, and the operating income of green and low-carbon advantageous industries accounting for about 20% of industries above designated size. By 2030, green and low-carbon advantageous industries will maintain the leading level in the country, with clean energy consumption accounting for about 66%, and the operating income of green and low-carbon advantageous industries accounting for about 25% of industries above designated size. By 2035, the international influence of green and low-carbon advantageous industries will be significantly enhanced, with clean energy consumption accounting for about 70%, and the operating income of green and low-carbon advantageous industries accounting for about 30% of industries above designated size.

2. Optimize and strengthen the clean energy industry

(4) Promote the integrated development of water, wind and solar energy. Fully utilize the advantages of clean energy resources, strengthen the role of hydropower, cultivate key points for wind and solar power generation, build clean energy corridors along the river, and build world-class high-quality clean energy bases.

Develop hydropower in a scientific and orderly manner. Steadily promote the development of hydropower bases on the Jinsha River, Yalong River, and Dadu River, give priority to the construction of reservoir power stations with seasonal regulation capacity, and consolidate the



position of the largest hydropower province. Accelerate the construction of a number of large and medium-sized hydropower projects, promote the commissioning of hydropower stations under construction such as Baihetan and Lianghekou as scheduled, and start construction of hydropower stations such as Xulong and Gangtuo. Promote the stable output of hydropower stations that have been built in Wudongde, Xiluodu, Ertan, Waterfallgou, Xiangjiaba, Jinping Level 1, and Jinping Level 2. Strengthen water resource scheduling, coordinate the comprehensive management of hydropower in the basin, accelerate the approval of a number of hydropower projects, and orderly implement the development of large and medium-sized hydropower in other basins. Take multiple measures to promote clean energy consumption.

Accelerate the development of wind and solar power generation. Adhere to both centralized and distributed methods, and give priority to promoting the local development and utilization of wind and solar energy. Plan to build a wind and solar energy development base, focus on the development of wind energy in Liangshan Prefecture and solar energy in Panzhihua City, Aba Prefecture, Ganzi Prefecture and Liangshan Prefecture, and support crystalline silicon photovoltaic enterprises in Sichuan to participate in the development of photovoltaic power stations. Promote the development of distributed wind and solar energy, encourage the orderly construction of wind power projects in the mountainous areas around the basin and western Sichuan, support the pilot development of distributed photovoltaic rooftops in the whole county (city, district), implement a number of photovoltaic building integration projects, and expand the application scenarios of photovoltaics in communities, breeding, transportation, municipal and other fields.

(5) Large-scale development and utilization of natural gas. Coordinate the development of conventional gas and unconventional gas, and accelerate the construction of a national natural gas (shale gas) 100 billion cubic meter production base. Promote the construction of key gas fields in central Sichuan and northeastern Sichuan, and increase natural gas exploration and development in Xuanhan, Anyue, Daying and other places. Give full play to the leading role of the Changning-Weiyuan National Shale Gas Development Demonstration Zone and promote the rolling development of shale gas in southern Sichuan. Support the exploration, development and utilization of natural gas in old revolutionary areas. Promote the development and utilization of tight gas and coalbed methane. Intensive and large-scale layout of gas storage facilities, and strengthen the capacity building of natural gas emergency reserves.

Promote the comprehensive utilization of natural gas resources. Give full advantages of natural gas resource enrichment and mature equipment technology in our province, accelerate the planning and construction of natural gas peak shaving power station projects, and strive to add more than 4 million kilowatts of new installed capacity during the "14th Five-Year Plan" period. Promote natural gas power generation to replace coal-fired power generation in an orderly manner. Support the high-quality development of green and fine chemical industries in major natural gas producing areas, support Ziyang to build a high-end natural gas industry technology



innovation demonstration base, and support Luzhou to improve the construction level of important green chemical bases in the country.

(6) Develop various types of clean energy in an orderly manner. Aiming at the new field of clean energy development and utilization, we will develop new renewable energy in a forward-looking layout, focus on technological innovation, reduce costs, expand applications, and build an energy supply system with multiple energy and coordinated efforts. Actively develop the hydrogen energy industry, coordinate the development of the whole chain of hydrogen energy safe production and "production, storage and transportation", carry out pilot demonstrations of hydrogen energy operation, enrich application scenarios, build an important national hydrogen energy industry base, and support Chengdu to build a "green hydrogen capital" and Panzhihua to build a hydrogen energy industry demonstration city. Rationally use forest grass, straw, garbage, etc. to develop biomass energy, and develop biomass power generation in an orderly manner. Promote the exploration and development of geothermal resources, and carry out demonstrations of comprehensive utilization of geothermal resources according to local conditions.

3. Develop and expand clean energy support industries

(7) Vigorously develop the crystalline silicon photovoltaic industry. Give full play to the first-mover advantage of crystalline silicon manufacturing, focus on improving the industrial chain, expand the scale of advanced production capacity, consolidate the leading position in the industry, and build a world-class crystalline silicon photovoltaic industry base. Promote the integrated development of Chengdu (Shan) Mei (Shan) crystalline silicon photovoltaic industry and build Leshan "China's Green Silicon Valley". Accelerate the high-end development of the crystalline silicon photovoltaic industry, promote the updating of key links, continue to reduce production energy consumption and costs, and improve the efficiency of crystalline silicon photovoltaic power generation. Promote the development of silicon materials, silicon wafers, cells, modules, etc., and form an industrial cluster with upstream, midstream and downstream adaptation and coordination. Promote the innovation and development of the thin-film photovoltaic industry.

(8) Continue to strengthen the energy equipment industry. Take the clean energy equipment industry as an important pillar of building a strong manufacturing province, rely on the "national prefix" energy equipment leading enterprises, highlight the independent technologies, the globalization of market expansion, and the integration of maintenance services, and build a world-class clean energy equipment manufacturing base. Vigorously develop the Chengdu (Metro) Deyang high-end energy equipment industry cluster, build a photovoltaic high-end equipment industry cluster led by Chengdu, and accelerate the construction of a world-class clean energy equipment manufacturing base in Deyang. Focus on the development and utilization of hydropower, wind energy, solar energy, nuclear energy, biomass energy, geothermal energy, etc., and promote the development of energy equipment such as generator sets, power transmission and



transformation equipment, energy storage facilities, and heat pumps. Promote the development and engineering application of high-end complete sets of natural gas (shale gas) mining equipment and transmission and distribution equipment. Promote the development of hydrogen energy equipment and build a pilot zone for hydrogen energy equipment manufacturing in Zigong. Implement energy-saving and carbon-reduction transformation projects in key areas, and support the development of energy-saving and environmental protection equipment industries in Chengdu, Zigong, Neijiang, Nanchong, Ziyang and other places. Promote the integrated development of clean energy equipment manufacturing and modern service industries, and improve the service system of clean energy equipment research and development, survey and design, engineering construction, consulting and evaluation.

(9) Build a diversified collaborative energy storage system. Give full play to the economic advantages of various energy storage technologies, coordinate the layout of power supply, power grid, and user-side energy storage facilities, and improve the comprehensive regulation capacity of the power system. Scientifically lay out pumped storage, combine the reuse of water resources in water conservancy projects, plan and build pumped storage power stations in power load centers and centralized transmission of new energy, and support the accelerated start of construction of pumped storage projects included in the plan. Promote the research and development and application of electrochemical energy storage and flywheel energy storage, explore compressed air energy storage, and carry out demonstration applications such as solar thermal energy storage and hydrogen energy storage. Implement the "new energy + energy storage" pilot demonstration project, promote the integrated development of diversified energy storage, and accelerate the large-scale application of energy storage.

(10) Improve the clean energy transmission and distribution system. Build a new power system to improve the power grid's ability to absorb and regulate a high proportion of new energy. Support the construction of a strong smart grid, accelerate the upgrading of the main grid of Sichuan power grid, and form a relatively independent, interconnected and mutually beneficial "three-dimensional double ring network" main network structure. Improve power transmission channels, promote the construction of Sichuan-Chongqing UHV AC power grid and other projects, accelerate the construction of the Aba to Chengdu East UHV AC power grid, and study and demonstrate the second channel from Northwest to Sichuan. Optimize the natural gas pipeline network, enhance the interconnection and gas transmission and distribution capacity of the main pipeline network, implement the second line of "Sichuan Gas East Transmission" (Sichuan section), shale gas and other trunk pipeline projects, and promote the construction of gas supply networks in the terminal areas. Support the construction of microgrids and smart grids, develop "5G + digital grid" and "5G + intelligent gas pipeline network", and promote the scientific allocation and intelligent application of clean energy.

4. Accelerate the development of clean energy application industries



(11) Promote the development and growth of the power battery industry. Accelerate the development of the lithium battery material industry and build an internationally competitive lithium battery material industry base. Coordinate the supply of lithium resources, promote the efficient and comprehensive utilization of spodumene mines in northwest Sichuan in a scientific and orderly manner, accelerate the exploration and development of lithium and potassium resources in northeast Sichuan, and enhance the ability to ensure the safety and supply of lithium resources. Guide industry leading enterprises to choose qualified places for reasonable layout, promote the coordinated development of the whole industry chain of lithium battery materials, and enhance the support capacity for the development of the power battery industry. Strengthen basic lithium salt and positive and negative electrode materials, accelerate the completion of weak links such as diaphragms and electrolytes, and realize the balanced, coordinated and green development of the lithium battery main and auxiliary materials industry. Support Suining to accelerate the construction of a "lithium battery capital". Support Aba and Ganzi to cooperate in the deep processing of lithium resources relying on the "enclave park".

Vigorously develop the power battery industry. Optimize the layout of the power battery industry chain and supply chain, and improve the cross-regional industrial ecosystem around industry leaders. Build a power battery industry base with world influence and build Yibin as the "power battery capital". Relying on the operation and production of major projects to drive the docking and implementation of supporting projects, cultivate fist products, accelerate the improvement of industrial energy levels, and achieve national supply and global sales. Implement the "Electric Sichuan" action plan, accelerate the electrification process in key areas, and expand the application of power batteries. Implement the demonstration project of comprehensive utilization of power battery recycling and establish a full life cycle traceability supervision system. Steadily develop the hydrogen fuel cell industry and plan the development of the new battery industry in a forward-looking manner.

(12) Promote the upgrading of the new energy vehicle industry. Adhere to the development direction of electrification, networking, and intelligence, and build an important national new energy vehicle R&D and manufacturing base. Improve the manufacturing level of new energy vehicles, and promote the coordinated development of vehicle enterprises and supporting enterprises such as power batteries, drive motors, and electronic control systems. Cultivate and introduce leading enterprises of new energy vehicles, support the transformation of fuel vehicle companies, and form mass production capacity of new energy vehicles. Strengthen linkage and coordination with Chongqing, lay out and improve the charging and swapping infrastructure and service network system, carry out pilot applications of new energy vehicle battery swap mode, and build a "Chengdu-Chongqing electric corridor". Develop hydrogen fuel vehicles and build a "hydrogen corridor" between Chengdu and Chongqing. Promote the coordinated development of new energy vehicle network empowerment and bicycle intelligence, strive to create a



national Internet of Vehicles pilot area, and build a "smart travel corridor" between Chengdu and Chongqing.

(13) Promote the innovation and development of the big data industry. Build an ecosystem of "core screen end software and intelligent network storage" and cultivate an important growth pole of the national big data industry. Promote the implementation of the national "East Data and West Computing" project, build a national integrated computing power network Chengdu-Chongqing national hub node, promote the green development of Chengdu Artificial Intelligence Big Data Center, Deyang Tianfu Digital Valley Industrial Park, and China Ya'an Big Data Industrial Park, and cultivate national data center clusters. Optimize the layout of regional data centers and build several internal data centers in several cities in a scientific and orderly manner. Improve computing infrastructure such as Chengdu Supercomputing Center, China (Mianyang) Science and Technology City Supercomputing Center, and Chengdu Intelligent Computing Center, and build a national data computing center. Promote the construction of provincial big data resource centers and improve the level of government data sharing and openness. Explore the construction of digital asset trading centers and deepen the innovative application of data elements. Jointly build the Sichuan-Chongqing international data portal and build a big data industry base in Chongqing. Study the establishment of Digital Sichuan Group. Accelerate the development of local legislation on big data, and improve policies, regulations, and standard systems.

(14) Deepen the comprehensive development and utilization of vanadium and titanium resources. Further promote the construction of Panxi National Strategic Resources Innovation and Development Pilot Zone, make the vanadium industry, strengthen the titanium industry, build a world-class vanadium and titanium industry base, and build Panzhihua as the "vanadium and titanium capital of China". Carry out demonstrations of efficient and comprehensive utilization of vanadium-titanium magnetite, scientifically determine the technical route and product research and development direction of vanadium-titanium industry, improve the quality and development of special steel materials, promote green, low-carbon and short-process steelmaking, and strive to make good use of associated resources and improve the comprehensive utilization rate of resources. Implement the project of strengthening the chain and extending the chain of the vanadium and titanium industry, and accelerate the development of high-end vanadium and titanium products, functional materials, and characteristic parts. Support the development of vanadium-containing materials in Leshan, Neijiang and other places. Optimize the energy consumption structure for the development of vanadium and titanium resources, carry out hydrogen metallurgy pilots, the proportion of clean energy use. Coordinate the development and utilization of rare 'X'th, graphite, basalt and other resources.

To develop clean energy-related industries, we must put energy conservation and resource conservation in the first place, vigorously promote energy conservation and emission reduction, comprehensively promote cleaner production, adjust the energy consumption structure, accelerate the



development of circular economy, implement the dual control system of energy consumption intensity and total quantity, continue to reduce energy resource consumption and carbon emissions per unit of output, and continuously improve the level of green and low-carbon development.

5. Strengthen the development of scientific and technological innovation in green and low-carbon advantageous industries

(15) Build a collaborative innovation platform. Relying on the high-end innovation resources of the Chengdu-Chongqing Comprehensive Science Center, Western (Chengdu) Science City, and China (Mianyang) Science and Technology City, we will lead the breakthrough of green and low-carbon technology innovation. Accelerate the establishment of Tianfu Yongxing Laboratory. Improve the collaborative innovation mechanism, and promote collaborative research on relevant major scientific and technological infrastructure, key laboratories, technological innovation centers, industrial innovation centers, manufacturing innovation centers, engineering research centers, and enterprise technology centers. Focusing on natural gas (shale gas), photovoltaics, clean energy equipment, power batteries, vanadium and titanium, hydrogen energy and other fields, promote the deep integration of industry, academia, research and application, build a number of new industrial technology research and development institutions at a high level, and open up the innovation chain of "R&D-engineering-industrialization". Strengthen the construction of service-oriented common technology platforms, strengthen technological innovation cooperation with global leading enterprises, and support enterprises to take the lead in forming green and low-carbon technology innovation consortiums.

(16) Breakthrough key common technologies. Adhere to the combination of development needs and innovation capabilities, implement major scientific and technological projects, and ensure the safety and stability of the industrial chain and supply chain with an independent and controllable innovation chain. Formulate a roadmap for technical research on green and low-carbon advantageous industries. Implement technical research on the exploitation of deep shale gas and marine lithium and potassium resources. Strengthen basic research on new materials such as lithium batteries, crystalline silicon, vanadium and titanium, rare earths, bismuth tellurium, and graphite. Strengthen the research and development of key core technologies in the fields of power batteries, energy Internet, industrial Internet, and supercomputing centers.

(17) Promote the popularization and application of technology. Implement projects for the transfer and transformation of green and low-carbon technology innovation achievements, and promote the industrial application of green and low-carbon technologies. Promote the application demonstration of new technologies such as hydrogen fuel vehicles, vanadium batteries, microgrids, multi-energy coupling, carbon capture and storage, etc. Publish a catalogue of key energy-saving and low-carbon technologies, and implement energy-saving and environmental protection technology transformation in key areas. Strengthen the application demonstration of new



technologies such as green and intelligent development and clean and efficient utilization of coal. Promote the green transformation and upgrading of Guangyuan aluminum-based material industrial base. Carry out demonstration and application of advanced green and low-carbon building technologies. Strengthen the protection of intellectual property rights for green and low-carbon technologies, crack down on intellectual property infringement and counterfeiting in accordance with the law, strengthen industrial patent navigation and rights protection assistance, and improve technological achievements and intellectual property trading platforms. Improve the service system of the whole chain technology market, and promote the standardized and orderly development of the green and low-carbon technology market. Build a strong national high-tech industrial base for Chengdu's new energy industry, and radiate and drive technological innovation and industrial upgrading in the field of new energy.

(18) Accelerate industrial digital empowerment. Promote the deep integration of emerging technologies such as the Internet, big data, artificial intelligence, and 5G with green and low-carbon industries, and improve the penetration and coverage of digital technology in industrial development. Build a clean energy industrial Internet platform system in the province, give full play to the supporting role of digital systems on the energy supply and demand side, improve the level of intelligent management of power grids, and enhance the ability to consume clean energy and operate safely. Promote the popularization and application of domestic industrial software, support the intelligent transformation of traditional industries, and build a number of smart power stations, smart gas fields, smart mines, smart parks, and smart factories. Build a number of digital transformation promotion centers around green and low-carbon advantageous industries, and strive for a comprehensive pilot project for the coordinated transformation and development of national digital and greening.

6. Promote the agglomeration and development of green and low-carbon advantageous industries

(19) Guide the centralized layout of key areas. Lead the industrial layout with regional development strategies, based on resource endowments and industrial foundations, and promote the moderate concentration and agglomeration development of green and low-carbon advantageous industries. Highlighting the leading role of Chengdu's polar core, Chengdu Plain Economic Zone focuses on the research and development of green and low-carbon technologies, and develops industries such as lithium battery materials, crystalline silicon photovoltaic energy equipment, new energy vehicles, and big data. Focus on promoting the coordinated development of the southern Sichuan Economic Zone and the Northeast Sichuan Economic Zone, focusing on the layout of power batteries, green utilization of natural gas (shale gas), energy conservation and environmental protection, new materials and other industries. Based on the transformation and upgrading of Panxi Economic Zone, we will focus on advanced materials such as vanadium and titanium and clean energy industries such as water, wind, solar and hydrogen storage. Promote the green



development of the Northwest Sichuan Ecological Demonstration Zone, focus on the layout of clean energy industries with complementary water, wind and solar energy, and vigorously develop the carbon sink economy. Adhere to the province's game of chess, study and formulate action plans by industry, guide all localities to find the correct positioning and dislocation development from reality, and achieve win-win synergy in resource-rich areas, industrial agglomeration areas, and technology research and development areas. Support the development of other green and low-carbon advantageous industries in places where conditions permit.

(20) Promote the intensive development of characteristic parks. Adhere to the development orientation of characteristics, specialization, intensification, and market-oriented, accelerate the cultivation of a number of green and low-carbon industrial parks, and support the development of industrial clusters. Build characteristic industrial parks such as clean energy equipment, lithium battery materials, power batteries, crystalline silicon photovoltaics, vanadium and titanium, new energy vehicles, and circular economy for comprehensive utilization of natural gas (shale gas), standardize the expansion of area relocation, and support qualified parks to create national and provincial parks. Deeply implement the evaluation of "heroes per mu" and the performance evaluation of enterprise energy efficiency and carbon emissions to promote the intensive and efficient development of the park. Support the construction of green and low-carbon parks and green and low-carbon factories, promote the implementation of circular transformation of parks, and actively create national ecological industry demonstration parks. Carry out pilot demonstrations of near-zero carbon emission parks and carbon neutral enterprises, and resolutely curb the blind development of high-energy-consuming and high-emission projects. Explore benefit-sharing mechanisms for cross-regional cooperation and development, and support the joint construction of "enclave parks" featuring green and low-carbon advantageous industries.

(21) Support the agglomeration and growth of advantageous enterprises. Implement the action plan of "Gongga Peiyou" for manufacturing enterprises, promote leading enterprises to become bigger and stronger, lead the integrated development of small and medium-sized enterprises, upstream and downstream coordination, and promote the agglomeration of green and low-carbon advantageous enterprises in a chain. Expand the leading enterprises of the green and low-carbon industrial chain with core competitiveness, and cultivate single champion enterprises in the manufacturing industry and specialized and new "little giant" enterprises. Guide state-owned capital to optimize its strategic layout, cultivate provincial state-owned leading enterprises in green and low-carbon advantageous industries, strengthen its important role in key areas of the industrial chain and supply chain, and enhance the state-owned economy's ability to guarantee energy and resource security. Implement policies and measures to promote the healthy development of the private economy, stimulate the vitality of private capital and social investment, and encourage private enterprises to deeply participate in the development of green and low-carbon advantageous industries. Support leading enterprises to take the lead in forming green and low-carbon advantageous industry alliances.



(22) Strengthen green and low-carbon standardization and brand building. Promote the construction of a green and low-carbon advantageous industry standard system, cultivate a number of high-quality brands, and continue to enhance influence, competitiveness and market share. Guide enterprises to actively participate in the formulation and revision of international standards, national standards, industry standards, and local standards. Carry out quality improvement actions, strengthen the construction of green and low-carbon industrial quality infrastructure, and promote the "one-stop" service of quality technology in the whole chain. Vigorously implement the green and low-carbon brand development strategy, create a "Tianfu Famous Products" quality brand, and promote the benign interaction between corporate brands and regional brands. Support the certification of green and low-carbon products, and release green and low-carbon famous and special new product catalogs in a timely manner.

7. Create a good environment to support the development of green and low-carbon advantageous industries

(23) Deepen the reform of market-oriented mechanisms. Deepen the reform of electricity market, promote the construction of electricity market mechanisms that adapt to the transformation of energy structure, promote the participation of new energy in market transactions in an orderly manner, and give full play to the supporting role of the electricity market in the clean and low-carbon transformation of energy. Accelerate the formation of a new power installed development mechanism supported by energy storage and peak shaving capabilities. Promote the reform of energy resource development and benefit-sharing mechanisms, innovate the model of "local participation, joint development, local registration, and mutual benefit" under the guidance of the government, and improve the level of local transformation and utilization of energy resource development. Explore the investment and exit mechanism of exploration blocks in key shale gas enrichment areas. Improve the system of paid use and trading of energy use rights. Explore the reform of market-oriented trading of carbon emission rights, actively participate in the national carbon emission trading market, and promote carbon emission quotas and certified emission reduction trading in key areas. Establish a carbon emission tracking and traceability mechanism.

(24) Promote regional cooperation and opening up. Promote the coordinated development of green and low-carbon industries in the Chengdu-Chongqing Twin Cities Economic Circle, and jointly build major projects such as tens of billions of gas storage bases in southwest China. Promote the integrated development of energy resources in northeastern Sichuan and northeastern Chongqing. Support the construction of Wandakai natural gas lithium and potassium comprehensive utilization agglomeration area in Dazhou. Support Guang'an to build a supporting production base for new energy vehicles in Sichuan-Chongqing cooperation relying on Gaozhu New Area. Strengthen cooperation with the development of green and low-carbon advantageous industries in Beijing-Tianjin-Hebei, Yangtze River Delta, Guangdong-Hong Kong-Macao Greater Bay Area and other regions, and improve the level of cooperation in "west-to-east power transmission" and "Sichuan gas export". Strengthen long-term



energy strategic cooperation with neighboring provinces. Strengthen the attraction of green and low-carbon leading enterprises and major projects, explore the implementation of market-oriented investment promotion, and promote the development of "leading enterprises + supporting enterprises" into chain clusters. Actively participate in the construction of the green "Belt and Road", rely on the new western land-sea corridor and the China-Europe freight train, deepen exchanges and cooperation in green technology, green equipment, green services, green infrastructure, etc., and accelerate the construction of an international production capacity cooperation demonstration province. Give full play to the role of open platforms such as pilot free trade zones, actively carry out carbon footprint certification and application, vigorously develop green and low-carbon foreign trade, and promote the construction of national green foreign trade demonstration zones. Actively hold major international exhibitions such as the World Power Battery Conference, the International Lithium Battery Industry Conference, the International Forum on Comprehensive Utilization of Vanadium and Titanium Resources, the China International Photovoltaic Industry Summit Forum, and the International Clean Energy Equipment Expo, so as to drive the development of industrial agglomeration with high-level exhibitions.

(25) Vigorously develop green finance. Integrate financial resources, optimize financing structure, strengthen financial interaction, and promote the development of green and low-carbon financial products and services in an orderly manner. Guide banks and other financial institutions to actively use the People's Bank of China's carbon emission reduction support tools to provide long-term and low-cost funds for green and low-carbon industrial projects. Vigorously develop green credit, green bonds, green funds, green insurance, and green trusts. Support qualified enterprises in green and low-carbon advantageous industries to go public, finance, and issue bonds. Support the establishment of national green finance reform and innovation pilot zones in places where conditions permit. Support Tianfu New Area to strive to carry out national climate investment and financing pilots. Promote the innovation and development of the carbon finance market.

(26) Increase policy support. Supporting policies have been formulated and introduced at the provincial level, and precise support has been given in terms of resources and environment, research and development, market application, talent introduction, open cooperation, finance and finance. Implement the fiscal "millions and thousands" guidance action plan, and the provincial finance will coordinate the arrangement of special funds, investment funds, and government bonds, implement preferential tax policies, and support the accelerated development of green and low-carbon advantageous industries. Integrate and optimize the provincial industrial investment guidance fund system, set up a green and low-carbon industry development guidance fund, and guide and leverage social capital to increase investment in green and low-carbon advantageous industries. Increase support for energy consumption indicators for green and low-carbon advantageous industries, improve classified supportive electricity price policies, guide enterprises to optimize energy consumption methods, and make good use of relevant policies for the construction of hydropower consumption industry demonstration zones. Implement the first set of



promotion and application support policies in the field of green and low-carbon advantageous industries. Establish an intellectual support mechanism for strategic scientists, increase the training and introduction of high-level talents and innovation and entrepreneurship teams, support universities to optimize discipline settings according to the needs of industrial development, and cultivate technical and skilled talents in green and low-carbon industries. Actively strive for the state to coordinate the layout of productivity, implement differentiated policies, and support our province to use the advantages of clean energy to develop green and low-carbon industries.

(27) Improve the work system and promotion mechanism. Give full play to the role of the province in promoting the construction of the "5+1" modern industrial system, and the leading group for the construction of a strong manufacturing province will coordinate the development of green and low-carbon advantageous industries. Establish a "chain length + chain master" work promotion mechanism, establish expert advisory committees by industry, and promote development with "one chain, one policy". Establish a statistical index system, create a green and low-carbon advantageous industry development index and a green energy efficiency "tax and electricity index", and strengthen dynamic monitoring and tracking analysis. Improve the assessment and incentive mechanism, explore the establishment of an energy consumption assessment system based on fossil energy control, and explore the implementation of differentiated assessment of clean energy consumption. Increase the publicity of green development concepts and advocate green and low-carbon production and lifestyle. Improve the guarantee of the rule of law, strengthen energy conservation supervision, and promote the development of green and low-carbon advantageous industries with rule of law thinking and rule of law methods. Green and low-carbon development will be included in the training of cadres, and the professional level of the leadership team and cadre team will be improved. Strengthen political supervision and supervision and inspection to ensure that all decisions and deployments are effective.

Editor in charge: Liu Yi

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